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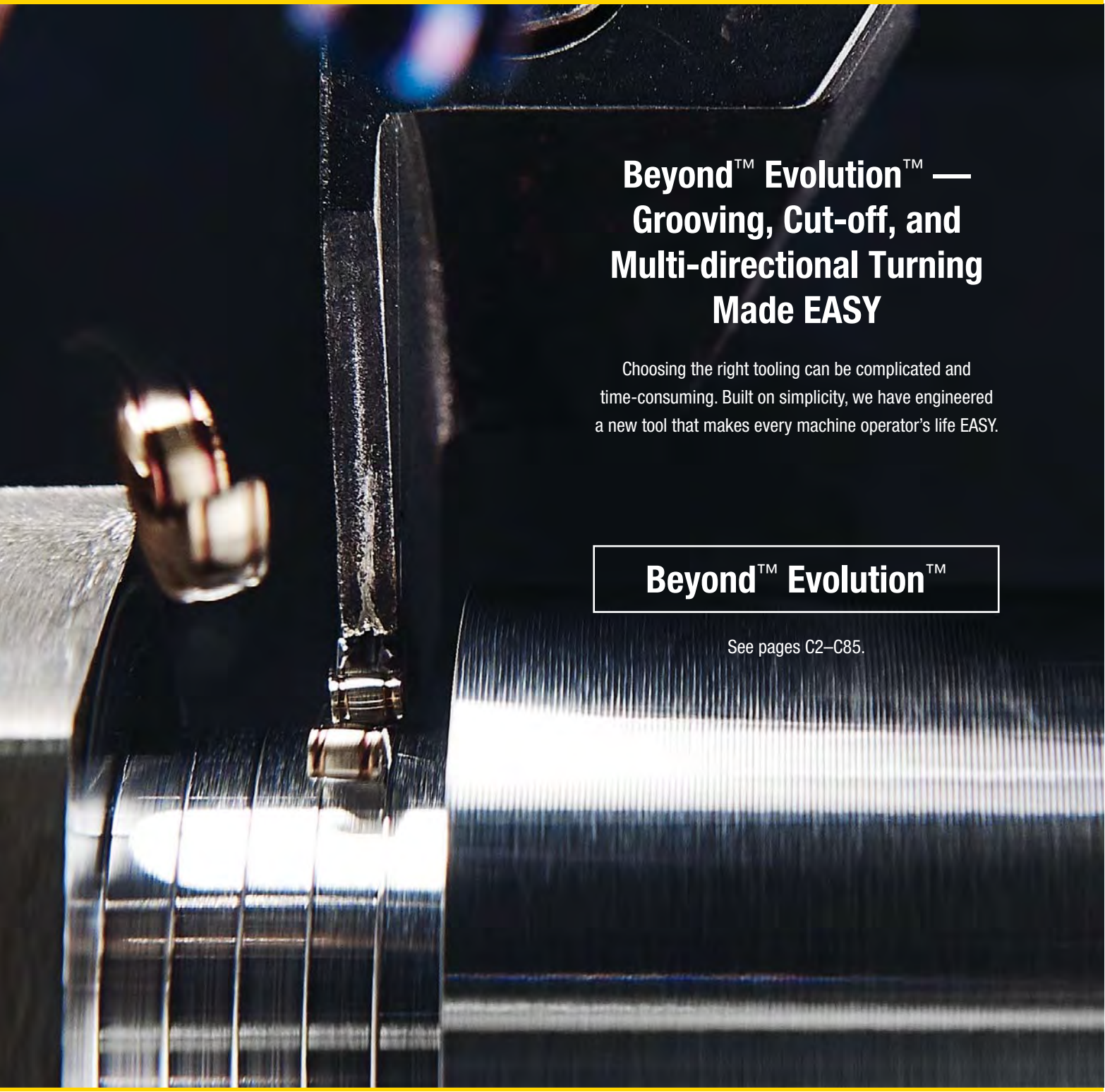
KENNAMETAL®

MASTER CATALOG 2018

VOLUME ONE | **TURNING** TOOLS

ISO/ANSI TURNING | GROOVING & CUT-OFF | THREADING | APPLICATION SPECIFIC

KENNAMETAL



Beyond™ Evolution™ — Grooving, Cut-off, and Multi-directional Turning Made EASY

Choosing the right tooling can be complicated and time-consuming. Built on simplicity, we have engineered a new tool that makes every machine operator's life EASY.

Beyond™ Evolution™

See pages C2–C85.

Since its inception in 1938, Kennametal has understood precisely how to improve manufacturing performance and profitability — by introducing unparalleled products and services to reduce operating costs and lead times.

These 1000+ pages bring you the latest in turning products and superior services — specifically engineered to enhance overall productivity, even in the most challenging metalworking applications.

Rely on Kennametal to significantly boost manufacturing competitiveness. To learn more, contact your Kennametal Representative or Authorized Kennametal Distributor.

Visit us at **kennametal.com**.

POWERED BY NOVO™

Volume I • Turning Tools

This Catalog Consists of Two Volumes — Vol. I: Turning Tools / Vol. II: Rotating Tools

Turning Tools

Introduction ..... **ii–xi**

Services and Support ..... **xiv**

Turning **A1–E71**

- Turning Introduction A2–A3
- ISO/ANSI Turning B1–B410
- Grooving and Cut-Off C1–C204
- Threading D1–D105
- Application Specific E1–E71

Ordering Information **Y2–Y237**

- Index by Order Number Y2–Y102
- Index by Catalog Number Y103–Y201
- Global Contacts Y202–Y203
- Icon Legend Y204–Y208
- Material Overview Y210–Y211
- Workpiece Material Overview Listing Y212–Y237

Rotating Tools • See Volume II

Holemaking **F1–K220**

- Solid Carbide Drills G1–G145
- Modular Drills H1–H133
- Combination Tools I1–I30
- Indexable Drills J1–J117
- Hole Finishing K1–K220

Tapping **L1–M216**

- Spiral-Point/Left-Hand Spiral-Flute Taps M1–M41
- Spiral-Flute Taps M42–M104
- Straight-Flute Taps M106–M134
- Forming Taps M136–M148
- Pipe Taps M150–M158
- Solid Carbide Thread Mills M160–M177
- Technical Information M178–M216

Solid End Milling **N1–Q47**

- Duo-Lock Modular Milling O1–O57
- High-Performance Solid Carbide End Mills P1–P171
- General Purpose Solid Carbide End Mills Q1–Q47

Indexable Milling **R1–X37**

- Face Milling S1–S126
- Shoulder Milling T1–T136
- Slot Milling U1–U41
- Copy Milling V1–V159
- Thread Milling W1–W55
- Technical Information • Recommended Starting Speeds X1–X37

Turning

PRODUCT HIGHLIGHTS

BEYOND™ EVOLUTION™

See section C for more details.

Kennametal proudly introduces the Beyond™ Evolution™ platform. This innovative platform is built on simplicity and challenges today's approach to grooving and cut-off. Selecting the right tool is easy with the Beyond™ Evolution™ platform because this high-performance system is versatile and flexible. It is the first portfolio in the market to compete in all grooving and cut-off applications, with up to 35% less tooling than current competitors.

The proprietary coolant delivery system directs coolant precisely to the cutting edges underneath the chip, which is the best method for heat removal in grooving and cut-off applications.

beyond™ EVOLUTION™

BEYOND™ DRIVE™

See section B for more details.

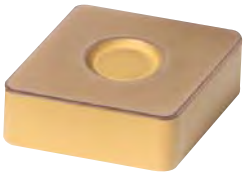
Beyond™ Drive™ ISO turning inserts provide up to 50% improved insert edge utilization. The advanced surface treatment reduces coating stress and improves coating adhesion. The bronze outer layer simplifies wear detection and increases insert utilization. PVD grades KCU10™ and KCU25™ with Beyond™ technology resist the high temperatures of machining in tough alloys. Achieve up to 30–40% longer tool life for more profitability in general engineering, transportation, aerospace, energy, and earthworks markets. The PVD coating helps to maintain consistent chip control and minimize insert edge wear in turning, grooving, and cut-off operations in a wide range of materials and applications.

beyond™ DRIVE™

CAST IRON TURNING WITH KBK45™

See section B for more details.

KBK45 is a new high-content PcBN grade designed for high-performance machining of gray cast iron, such as brake discs and fly wheels. It is designed for reducing waste of unused corners, reducing cost-per-part (CPP) by maintaining tool changes between shifts, and enhancing output by using more reliable products. KBK45 grade provides an excellent CPP value.



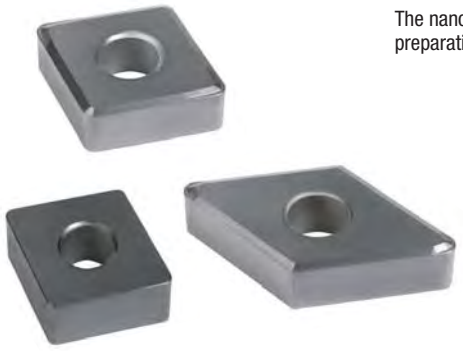
HARD TURNING WITH KBH20™

See section B for more details.

KBH20 is the ideal PcBN hard turning grade in continuous to lightly interrupted applications with up to medium-severity interruption. The structure and different edge preparations enable tight and repeatable workpiece tolerances, excellent surface finishes, and surface integrity — even at elevated speeds.

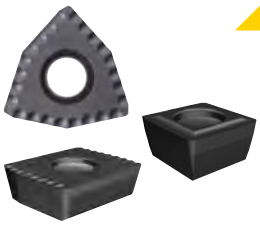
KBH20 grade is a new substrate for applications like case-hardened components, including gears, shafts, and other drive-train components.

The nano-composite coating enhances speed capabilities and tool life. The improved edge preparation promotes longer tool life, reliable performance, and better surface finish.



Holemaking

PRODUCT HIGHLIGHTS



DRILL FIX™ DFSP™

INDEXABLE DRILLS WITH DS AND LP INSERTS

See section J (Volume II) for more details.

DFSP is the renamed expanded Drill Fix DFS™ indexable drilling platform. The standard diameter range is now .551–2.125" (14–55mm) in L/D ratios 2 x D, 3 x D, 4 x D, and 5 x D. The DFSP platform combines the economical squared outboard insert with the superior centering capabilities of the trigon inboard insert. These indexable drills offer increased metal removal rates and high surface quality and hole straightness.

Use new DS and LP chipbreaker insert designs with Drill Fix DFSP, DFT™, and HTS indexable drills, and KSEM PLUS™ modular drills. These inserts enable excellent chip formation on low-carbon steels and other long-chipping materials.

KENTIP™ FS

THE PERFECT FUSION OF A SOLID CARBIDE AND AN INDEXABLE DRILL

See section H (Volume II) for more details.

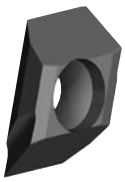
The new modular drill KenTIP FS covers more applications and provides better performance than any other modular system, delivering substantial cost savings and process simplifications on your shop floor.

- 3-point geometries, 3 high-performance grades, 3 different shank styles.
- 6–26mm diameter range.
- Up to 12 x D drilling depths.
- Applicable in steel, stainless steel, and cast iron.

COUNTERFIX MICRO

SMALL INSERTS THAT MAKE A BIG DIFFERENCE!

See section H (Volume II) for more details.



New CounterFix Micro (CFM) tangential inserts offer a new way to enhance drilling, chamfering, and counterboring operations. They enable very small incremental steps on tailor-made step drills, longer tool life per edge, and improved surface finish.

CFM inserts can be used on KenTIP, KSEM™, and Drill Fix products, as well as for made-to-order indexable countersinking tools.

CounterFix Micro will be available for KenTIP FS tailor-made drills in 2018 upon request.

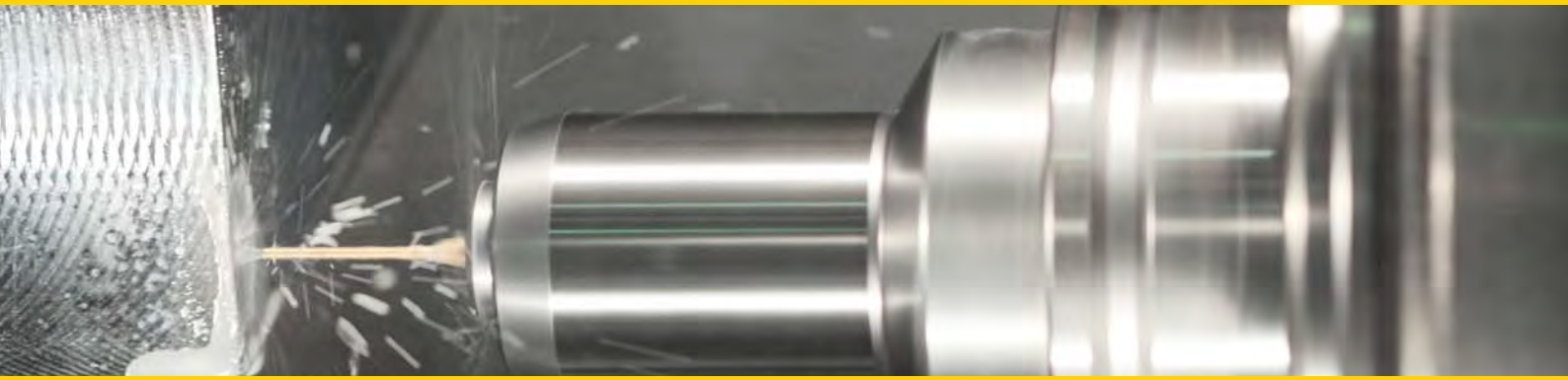
NEW SGL DRILLS WITH THROUGH COOLANT FOR STAINLESS STEEL

See section G (Volume II) for more details.

The all-new B21_SGL series solid carbide drills are designed specifically for stainless steel applications, offering high performance and long tool life in high-temperature alloys and regular steel, also.

By combining unique Kennametal features, such as the all-new SGL-point-geometry with patented gashing, a unique flute design, and a best-in-class coating into one tool, the B21*SGL drill is the ultimate high-volume production tool.

The all-new B27_SGL series is designed specifically for deep-hole drilling up to 40 x D applications in stainless steel and high-temperature alloys.



NEW KMH DRILLS FOR HARD MATERIALS

See section G (Volume II) for more details.

The all-new KMH solid carbide drills are engineered for hard material applications up to 65 HRC. The B94_drill series without through coolant is specifically designed to machine hardened and surface-hardened materials using flood coolant. With its 145° point angle, it is also perfectly suited as a pilot drill for the B95_drill series with through coolant and 140° point for deeper applications.

Both series come with an increased core to strengthen the drill, feature a curved cutting edge with corner chamfer to avoid chipping on the margin lands and increased tool life in these challenging materials.

RMR™ AND RHR™ DISC-STYLE REAMERS

See section K (Volume II) for more details.

Performance, quality, and regrindability, like solid carbide reamers for diameters .5512–1.6732" (14–42,5mm).

Common reamers have single tips brazed onto a steel body. The new Kennametal RMR and RHR reamers have a solid carbide disc brazed onto the steel body. This enables more regrinds than a regular tipped reamer, reducing the cost-per-hole significantly. The new KCU05 coating holds the surface finish more than twice as long as conventional reamer coatings, depending on the workpiece material.

GOTAP™

MULTIPURPOSE HSS-E TAPS

See section M (Volume II) for more details.

GOtap is our multipurpose line of taps that include optimized geometries and PVD coatings capable of tapping a wide range of ductile materials, such as stainless steels, carbon and alloy steels, cast aluminum, and ductile iron. GOtap taps versatility extends beyond the part, as it can be used in a wide range of machine tools and application conditions. The new GOtap TC mulitpurpose taps enable blind-hole tapping with tension/compression holders without sizing problems due to over-feeding. The versatility of GOtap taps means lower inventory costs with no loss of productivity, consistent tool life, and high-quality thread finish.

Solid End Milling

PRODUCT HIGHLIGHTS

DUO-λOCK®

See section O (Volume II) for more details.

Duo-Lock™ is a revolutionary new coupling for solid carbide end milling applications. This replaceable-head design combines high accuracy in runout and length repeatability with maximum stability, making it a precise and virtually unbreakable interface for challenging milling applications.

- **Up to 1 x D full slotting increases metal removal rates for significantly higher productivity.**
- **1.5 x D standard cutting edge length enables fewer passes.**
- **Cutting data and tool life comparable to high-performance solid carbide tools.**

DUO-λOCK®
by HAIMER® and Kennametal

HARVI™ III FAMILY

See section P (Volume II) for more details.

HARVI III end mills are the first choice for high-temperature alloy machining, profiling, semi-finishing, and finishing. Beyond grade KCSM15™ delivers maximum metal removal rates and exceptional tool life in titanium and stainless steel, as well as excellent surface finishes.

- **Taper ball nose for complex 5-axis machining.**
- **Ball nose for 3D profiling.**
- **Square end for semi-finishing/finishing operations.**

beyond

BEYOND™ EADE SOLID CERAMIC END MILLS

See section P (Volume II) for more details.

Beyond™ EADE solid ceramic end mills offer higher productivity in roughing nickel-based high-temperature alloys. With reduced machining time, EADE ceramic end mills also achieve significantly longer tool life compared to carbide tooling.

— Beyond grade KYS40™ enables cutting speeds up to 3.300 SFM.

beyond

GOMILL™ GP PLATFORM

See section Q (Volume II) for more details.

GOmill GP tools enable plunging, slotting, and profiling, plus longer tool life, on a wide range of workpiece materials. They are designed to provide higher metal removal rates (MRR) and good surface finishes at an excellent cost-benefit ratio.

— Roughing and finishing with one tool.
— Excellent cost-benefit ratio.
— Multilayer KC633M™ grades for longer tool life.

Indexable Milling

PRODUCT HIGHLIGHTS

MILL 4-11™ AND MILL 4-15™

See section T (Volume II) for more details.

The Mill 4-11™ and Mill 4-15™ series tools are specially engineered to achieve excellent surface quality and higher metal removal rates in shoulder milling applications. The unique design enables multiple passes (stepping down) with outstanding results.

Use Mill 4-11 in roughing to finishing applications in steel, cast iron, stainless steel, non-ferrous materials, and high-temp alloys. Use Mill 4-15 for roughing to finishing in steel, cast iron, stainless steel, and titanium.

MILL 16™

See section S (Volume II) for more details.

The new Mill 16™ series is a tailor-made platform for rough milling of components like engine heads and blocks, housings and gear boxes in cast iron materials (CGI, DCI, GCI), and all other cast iron face milling jobs.

KCSM40™

NEW MILLING GRADE FOR TITANIUM MACHINING

Breakthrough indexable milling grade for roughing and semi-finishing operations in titanium and stainless steels — S40, M30 application range.

Available in these indexable milling platforms: Mill 1-10™, Mill 1-14™, Mill 1-18™, Mill 4-11™, Mill 4-15™, Dodeka™ Mini, Dodeka, Dodeka MAX™, MEGA™, KSOM™ Mini, KSOM™, KSRM™, NGE™, KSSM™ 0, KSSM8+™, Rodeka™, Stellram® 5230, Stellram 7713, and Stellram 7792.

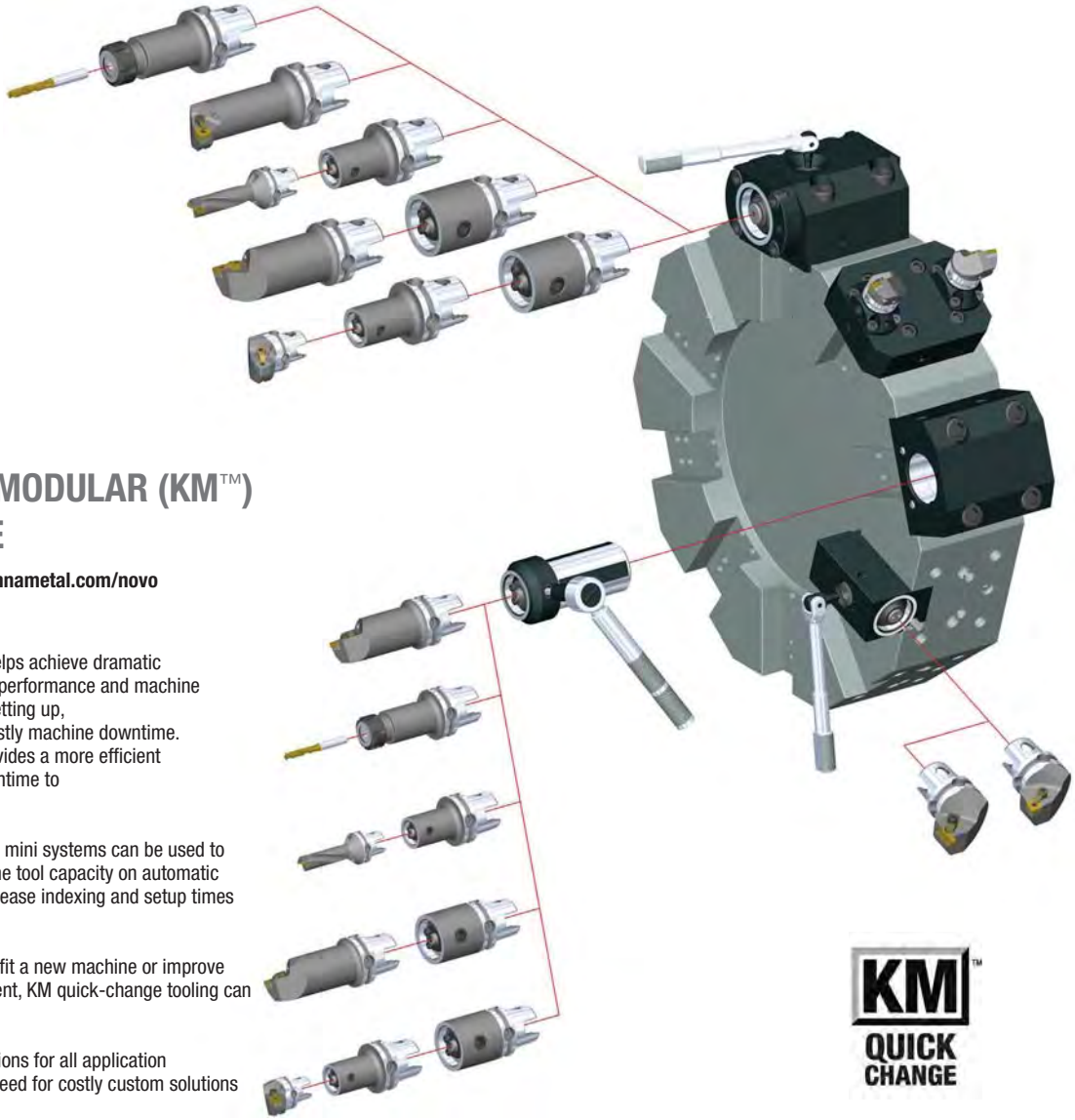
STELLRAM® 7792VX HIGH-FEED SERIES

See section V (Volume II) for more details.

The 7792VX cutter series is designed for high-feed milling applications with superior surface generation. The 7792VX cutters are designed for a wide range of applications, including facing, pocketing, ramping, helical interpolation, and plunging. They are capable of machining all materials, including steel, stainless steel, cast iron, and high-temperature and aluminum alloys.

Tooling Systems

PRODUCT HIGHLIGHTS



KENNAMETAL MODULAR (KM™) QUICK CHANGE

Visit **kennametal.com** or **kennametal.com/novo** for more details.

KM™ quick-change tooling helps achieve dramatic improvements in cutting tool performance and machine output. Frequent changing, setting up, and gaging of tools create costly machine downtime. KM quick-change tooling provides a more efficient process that can reduce downtime to increase productivity.

In addition, KM micro and KM mini systems can be used to considerably increase machine tool capacity on automatic and universal lathes and decrease indexing and setup times by up to 66%.

Whether you're looking to outfit a new machine or improve the output of current equipment, KM quick-change tooling can maximize production.

The KM portfolio includes options for all application requirements and limits the need for costly custom solutions due to system modularity.

KM™ QUICK CHANGE

KM4X™

Visit **kennametal.com** or **kennametal.com/novo** for more details.

The KM4X spindle interface is designed for heavy-duty machining applications. It's especially suited for machining large structural components. These rotating and static tool adapters handle 3x more bending capacity than similar competitive models.

- Rigid configuration through higher clamping force.
- Design enables front-loaded spindle configurations.
- High spindle speed capability.
- Designed for use in most applications.
- Use in a wide range of high and low speeds and torques.
- Can upgrade to the KM4X system on spindles that use HSK format.
- Maintain taper contact in higher speeds.

DRIVEN TOOLING AND STATIC TOOL BLOCKS

Visit **kennametal.com** or **kennametal.com/novo** for more details.

Turn your CNC lathe into a multi-task solution provider with turret-adapted driven clamping units for rotating applications and static tool blocks for maximum quick change flexibility. Whether it's for milling, drilling, tapping, boring, or non-rotating applications, you can maximize machine utilization by employing Kennametal tooling and solutions. Available in multiple KM™ format sizes to allow for versatility and productivity.

- 0 and 90° options available as standard.
- Up to 12,000 RPM speeds for high metal removal rates.
- 1:1 and 1:2 gear ratios available for added speed or torque.
- Standard configurations for multiple manufactures and customizable to fit most turrets.
- Quick change solutions for static and rotating applications to maximize machine effectiveness.

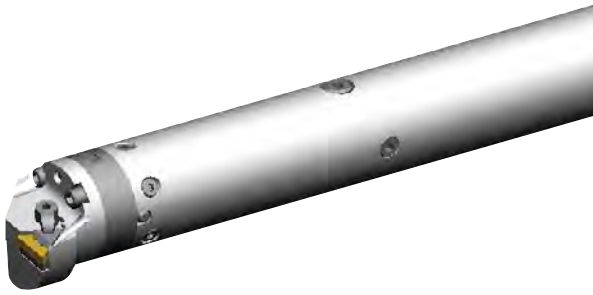
TUNABLE BORING

Visit **kennametal.com** or **kennametal.com/novo** for more details.

Kennametal tunable boring bars can increase productivity and solve chatter and other issues in long-boring operations.

Several key improvements to our current tunable boring bar portfolio include:

- Enhanced tuning process at the manufacturing plant ensures accurate tuning at the maximum overhang.
- Nitriding of steel tunable boring bars eliminates the effects of chip wash.
- Elimination of flats on tunable boring bars enhances stability and proper toolholding.
- Addition of a small flat on the connection collar enables the use of a center-height tool.
- Enhanced assembly process.



Kennametal on the Web

kennametal.com

FIND THE LATEST PRODUCT INFORMATION

Whether your operation is turning, milling, or holemaking, Kennametal brands are the high-performance tooling you need. We offer standard and custom solutions for a wide range of applications.

Find information about our most current campaigns and catalogs.

Register on Konnect for the full functionality of the Kennametal online ordering website.

CONTACT US

Our customers are important to us. We want to provide you the best customer service in the industry. If you have a comment or question, please send it to us. We strive to respond to all inquiries within 24 hours.

FIND A LOCAL AUTHORIZED DISTRIBUTOR IN YOUR AREA

Kennametal offers world-class products and services globally. Our distributors know us, and more importantly, they know you. They know better than anyone in the industry how to put the global power of Kennametal to work for you — in your industry, in your region, and for your business.

Mobile App

The Kennametal mobile app makes it easy to access product information, calculators, and much more from iPhone® and Android™ devices.

FEATURES

Scan a Kennametal tool package barcode or search a product catalog number to access complete product information.

Product information includes tool image, dimensions, grades, and product highlights.

View product availability at global locations.

Get speed and feed information in inch and metric values for all metalcutting products.

View tech tips for helpful solutions to common machining questions.

Contact Customer Support directly from the app.

MACHINING CALCULATORS

View data for milling and drilling applications.

Inch and metric values calculated.

ORDERING

Login using your Konnect credentials to complete a purchase.

WHERE TO FIND IT

Download the free app today from iTunes® or the Google Play™ store.

ANDROID APP ON Google play

Available on the App Store

Service and Support

Customer Application Support (CAS)

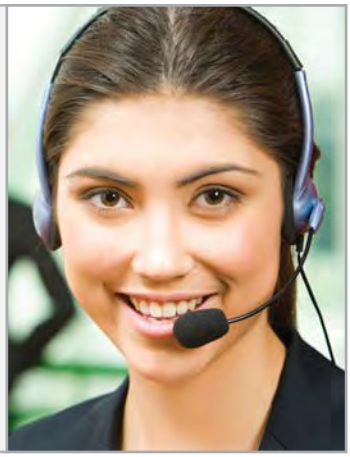
Get Fast and Reliable Answers to Your Toughest Metalcutting Problems

Our Customer Application Support (CAS) Team is the metalworking industry's leading help desk resource for tooling application solutions and problem resolution.

Easy Access to Proven Metalworking Expertise!

Kennametal Customer Application Engineers assist customers and engineering groups throughout the world with expert tool selection and application recommendations for the entire range of Kennametal tooling.

SERVICE LEVEL EXCELLENCE	Fast telephone response. Quick technical solutions. Efficient case management.
SERVICES	Operating parameters. Process optimization. Hardware support. Tooling selection. Troubleshooting.
BEST-IN-CLASS SUPPORT TOOLS AND TECHNOLOGY	Materials database. Application calculators. Tooling performance experts.



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Finland	English	0800 919412	na.techsupport@kennametal.com
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Sweden	English	020799246	na.techsupport@kennametal.com
Taiwan	English	0800 666 197	ap-kmt.techsupport@kennametal.com
Thailand	English	1800 4417820	ap-kmt.techsupport@kennametal.com
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Ukraine	Russian	0800502664	eu.techsupport@kennametal.com
USA	English	800 835 3668	na.techsupport@kennametal.com

Numbers shown only serve the originating country listed.

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

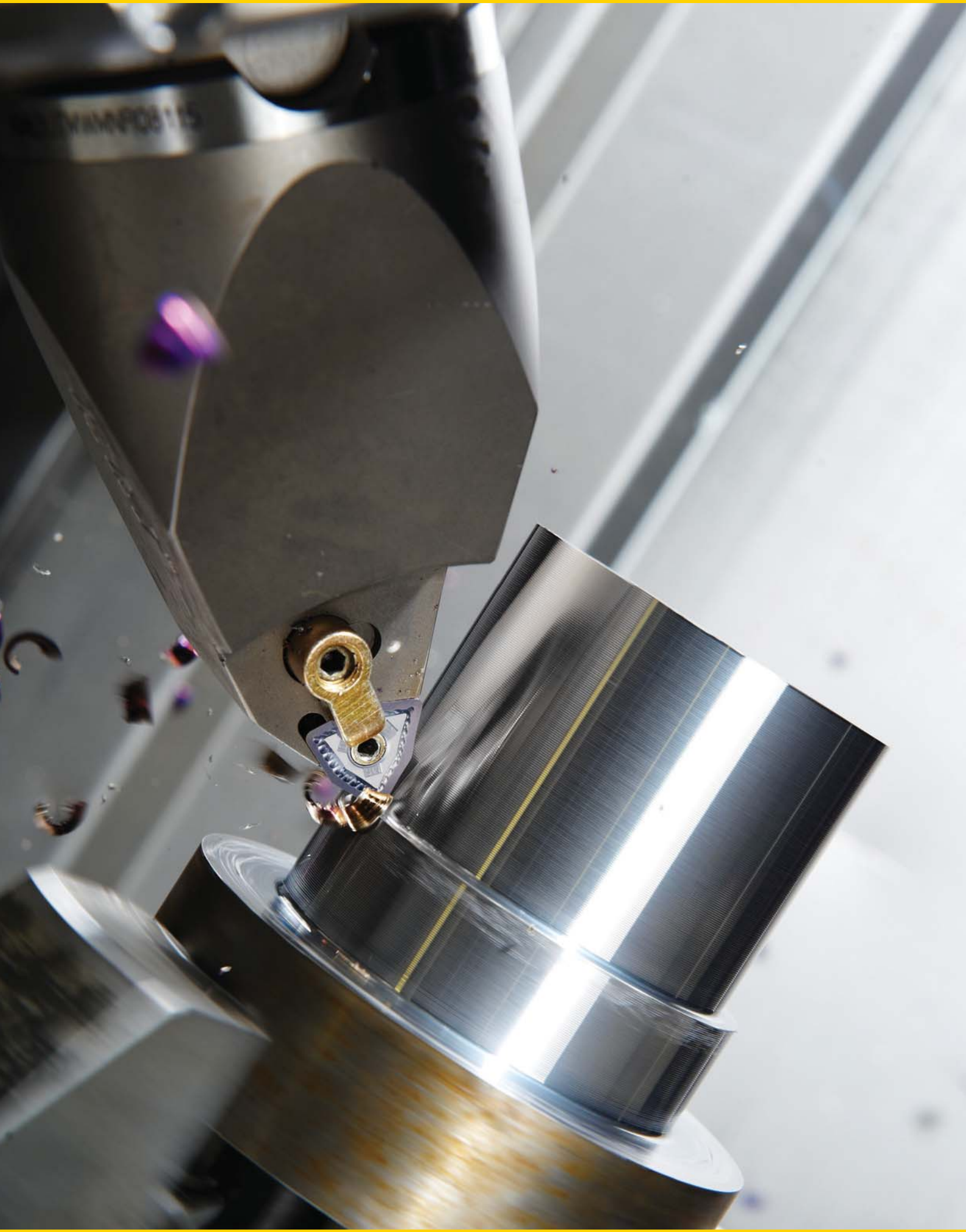
- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

SELECT

A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**



Turning

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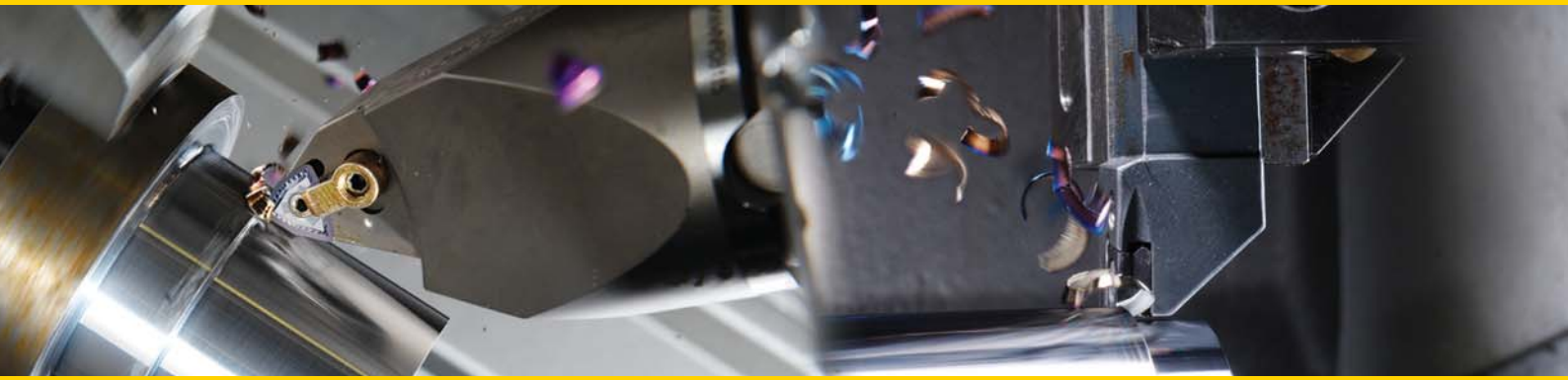


Turning Products

Our latest Metalcutting Innovations are designed to deliver higher productivity, longer tool life, and increased application versatility.

For more information about the latest products and services from Kennametal, please contact your Kennametal Representative or Authorized Kennametal Distributor, or visit **kennametal.com**.

ISO/ANSI TURNING

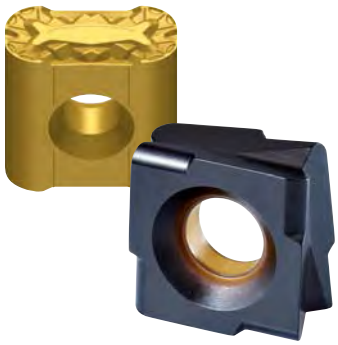
See Section B for more details.

- Negative-style inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for negative-style inserts.
- Positive-style inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for positive-style inserts.
- Advanced material inserts for machining:
  - — Cast iron
  - — Hardened steels
  - — High-temperature alloys
- PCD inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for use with advanced material inserts.
- Tunable bars.

THREADING, GROOVING, AND CUT-OFF

See Sections C and D for more details.

- Beyond™ Evolution™ Grooving, Cut-Off, and Side Turning
- A4™ Grooving and Side Turning
- Top Notch™ Grooving
- Top Notch Threading
- Laydown Threading



APPLICATION SPECIFIC

See Section E for more details.

- Fix-Perfect™ Turning
- Top Notch Profiling
- Tools for Railroad and Wheel Machining
- K-Lock™

ISO/ANSI Turning

Kennametal Insert Selection System **B2–B21**

Kennametal Grades and Grade Descriptions/Application Areas **B22–B29**

Chip Control Geometries, Feed Rates, Depth of Cut, and Application Areas **B30–B35**

Toolholder, Boring Bar, and Cartridge Overview; ISO/ANSI Codes **B36–B45**

Kenloc Negative Style Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B46–B163**

Kendex Positive Style Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B164–B188**

Screw-On Positive Style Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B189–B292**

Advanced Material Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B294–B398**

- Advanced Materials for Cast Iron Machining B298–B321
- Advanced Materials for Hard Turning B322–B343
- Advanced Materials for High-Temperature Machining B344–B355
- PCD Inserts B356–B370
- Toolholders, Boring Bars, Cartridges, and Bolt-On Heads B371–B398

Tunable Bars **B400–B410**

Mobile Apps

The Kennametal mobile app makes it easy to access product information and calculators on both iPhone® and Android™ devices. We've highlighted a few of the key features...

There's an app for that.

SPEEDS & FEEDS

View speeds and feeds information for metalworking products.

PRODUCT AVAILABILITY

Check global availability of products. View available quantities by providing your Konnect login credentials.

CALCULATORS

Utilize our machining calculators for milling and drilling applications.

By just scanning the bar code on the insert packet, you can find the most productive cutting conditions for tool life, process time, and chip control.

NOTE: The app is currently only available in the English-language version. We have plans to translate the app in different languages with future releases.

Google play

Available on the App Store

ISO/ANSI Turning Inserts, Toolholders, and Boring Bars

Modern CNC machines and flexible production facilities require tools with application versatility. Kennametal high-performance inserts, toolholders, and boring bars are designed to handle any turning application. Whether you're cutting steel or titanium, or doing light finishing or heavy roughing, we have the tooling solution to meet your needs.

Features and Benefits

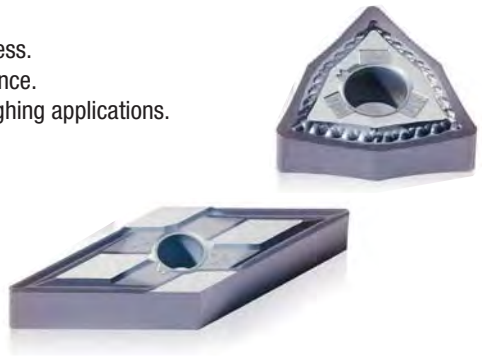
Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Beyond™ PVD Grades

KCU10™ Grade
- Superior wear resistance and faster cutting speeds at higher temperatures.
- Ideal for stainless steels and high-temp alloys.
- Improved depth-of-cut notch resistance.
- Use in finishing to medium applications.

KCU25™ Grade
- Superior edge toughness.
- Excellent wear resistance.
- Use in medium to roughing applications.



Kennametal Turning Solutions by Material

P	Steel	Carbide or Cermet Inserts
M	Stainless Steel	Carbide Inserts
K	Cast Iron	Carbide, Ceramic, or PcBN Inserts
N	Non-Ferrous	Carbide or PCD Inserts
S	High-Temp Alloys	Carbide, Ceramic, PcBN, or PCD Inserts
H	Hardened Materials	Ceramic or PcBN Inserts

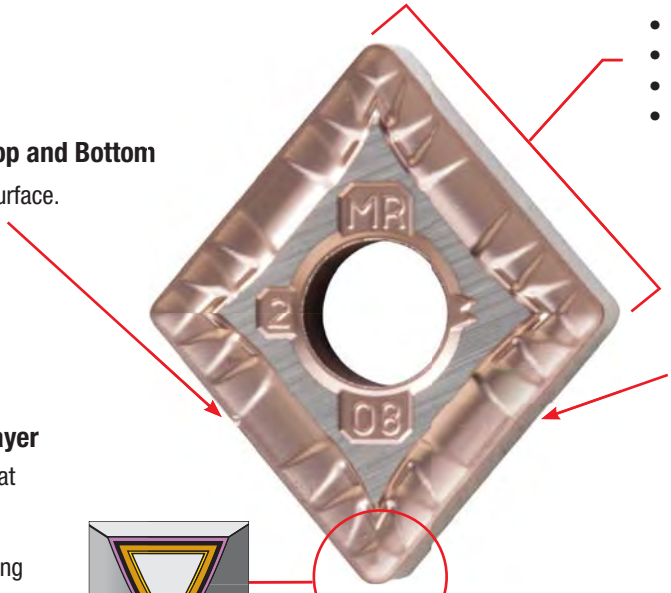
Beyond™ Drive™ Inserts • Technology Details

Post-Coat Treatment

- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom

- Provides secure seating surface.

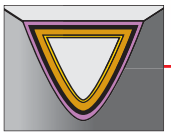


Micro-Polished Edges

- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Fine-Grained Alumina Layer

- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

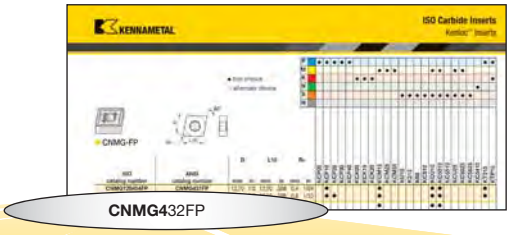


TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Toolholders, Boring Bars, and Cartridges

How Do Catalog Numbers Work?

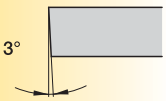
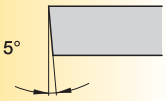
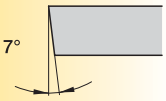
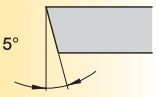
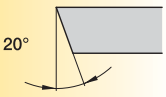
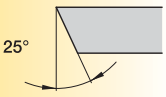
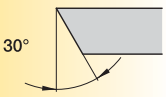
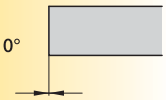
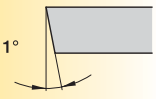
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



C — Insert Shape

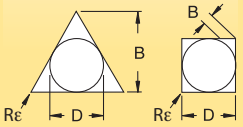
H	Hexagon 120°	
O	Octagon 135°	
P	Pentagon 108°	
R	Round —	
S	Square 90°	
T	Triangular 60°	
C D E M V	Rhomboid 80° 55° 75° 86° 35°	
W	Trigon 80° with enlarged corner angles	
L	Rectangular 90°	
A B N/K	Parallelogram 85° 82° 55°	

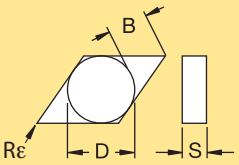
N — Insert Clearance Angle

A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	Indicated for other clearance angles requiring descriptions.	

M — Tolerance Class

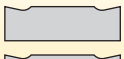
Tolerances apply prior to edge prep and coating





D = Theoretical diameter of the insert inscribed circle
S = Thickness
B = See figures below

G — Insert Features

N	
R	
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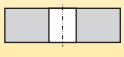
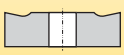
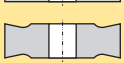
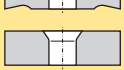
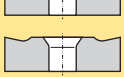
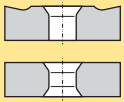
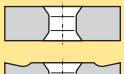
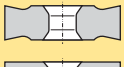
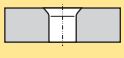
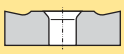
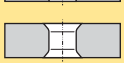
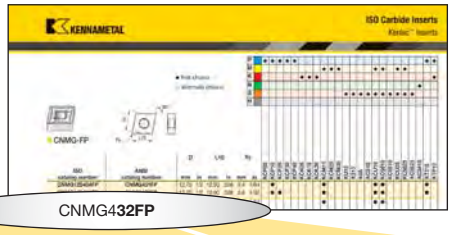
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X	Special Design

4 — Size

		Code for inch cutting edge length "L10"						
	"D"							
inch	inch	C	D	R	S	T	V	W
1.2 (5)	5/32	S4	04	03	03	06	—	—
1.5 (6)	3/16	04	05	04	04	08	08	S3
1.8 (7)	7/32	05	06	05	05	09	09	03
—	.236	—	—	06	—	—	—	—
2	1/4	06	07	06	06	11	11	04
2.5	5/16	08	09	07	07	13	13	05
—	.315	—	—	08	—	—	—	—
3	3/8	09	11	09	09	16	16	06
—	.394	—	—	10	—	—	—	—
3.5	7/16	11	13	11	11	19	19	07
—	.472	—	—	12	—	—	—	—
4	1/2	12	15	12	12	22	22	08
4.5	9/16	14	17	14	14	24	24	09
5	5/8	16	19	15	15	27	27	10
—	.630	—	—	16	—	—	—	—
5.5	11/16	17	21	17	17	30	30	11
6	3/4	19	23	19	19	33	33	13
—	.787	—	—	20	—	—	—	—
7	7/8	22	27	22	22	38	38	15
—	.984	—	—	25	—	—	—	—
8	1	25	31	25	25	44	44	17
10	1-1/4	32	38	31	31	54	54	21
—	1.260	—	—	32	—	—	—	—

tolerance class	tolerance on "D"	tolerance on "B"	tolerance on "S"
C	±.0010"	±.0005"	±.001"
H	±.0005"	±.0005"	±.001"
E	±.0010"	±.0010"	±.001"
G	±.0010"	±.0010"	±.005"
M	See tables on next page		±.005"
U	See tables on next page		±.005"

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



3	2			FP
Thickness S	Corner Radius "Rε"	Hand of Insert *(optional)*	Cutting Edge *(optional)*	Chipbreaker *(optional)*

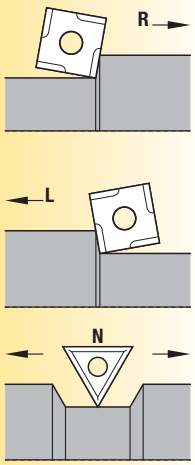
symbol	thickness
inch	inch
.5 (1)	1/32
.6	.040
1 (2)	1/16
1.2	5.64
1.5	3/32
2	1/8
2.5	5/32
3	3/16
3.5	7/32
4	1/4
5	5/16
6	3/8
7	7/16
18	1/2

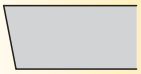
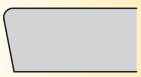
symbol	corner radius
inch	inch
X0	.0015
0	.004
.5	.008
1	1/64
2	1/32
3	3/64
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
—	round insert
—	

R = Right hand

L = Left hand

N = Neutral



F		Sharp
E		Rounded
T		Chamfered
S		Chamfered and Rounded
K		Double-Chamfered
P		Double-Chamfered and Rounded

F = Sharp
FF = Fine Finishing
FN = Finishing Negative
MN = Medium Negative
MR = Medium Roughing
RN = Roughing Negative
UN = Universal Medium
FP = Finishing Positive
MP = Medium Positive
RP = Roughing Positive
RM = Roughing Medium
RH = Roughing Heavy
FW = Finishing Wiper
MW = Medium Wiper
FS = Finishing Sharp
MS = Medium Sharp
RW = Roughing Wiper
HP = High Positive
UP = Universal Positive
K = Light-Feed Chip Control
UF = Ultra-Fine Finishing
LF = Light Finishing
MF = Medium Finishing
E = Hone Only
T = Negative Land
S = Negative Land Plus Hone
MP-K = Medium Positive
MG-P = Medium Positive

	± Tolerance on "D"			
	Class M Tolerance			Class U Tolerance
"D"	Shapes S, T, C, R, & W	Shape D	Shape V	Shapes S, T, & C
inch	inch	inch	inch	inch
5/32	.002	–	–	–
3/16	.002	–	–	.003
7/32	.002	.002	.002	.003
1/4	.002	.002	.002	.003
5/16	.002	.002	.002	.003
3/8	.002	.002	.002	.003
7/16	.003	.003	.003	.005
1/2	.003	.003	.003	.005
9/16	.003	.003	.003	.005
5/8	.004	.004	.004	.007
11/16	.004	.004	.004	.007
3/4	.004	.004	.004	.007
7/8	.005	–	–	.010
1	.005	–	–	.010
1 1/4	.006	–	–	.010

	± Tolerance on "B"			
	Class M Tolerance			Class U Tolerance
"D"	Shapes S, T, C, R, & W	Shape D	Shape V	Shapes S, T, & C
inch	inch	inch	inch	inch
5/32	.003	–	–	–
3/16	.003	–	–	.005
7/32	.003	.004	–	.005
1/4	.003	.004	–	.005
5/16	.003	.004	–	.005
3/8	.003	.004	.007	.005
7/16	.005	.006	–	–
1/2	.005	.006	.010	.008
9/16	.005	.006	–	–
5/8	.006	.007	–	.011
11/16	.006	.007	–	.011
3/4	.006	.007	–	.011
7/8	.006	–	–	.015
1	.007	–	–	.015
1 1/4	.008	–	–	.015

A system of grades, geometries, and application guidelines to provide optimal solutions for your metalcutting needs. It's easy to determine which Kennametal chip-control cutting tool will work best in your specific workpiece materials and applications!

Grade • Beyond™ • Beyond™ Drive™

K	C	P	M	25	B
Brand	Insert Material	Primary Workpiece Material *(ISO 513)*	Secondary Workpiece Material *(optional)*	Application Range	Future Upgrades *(optional)*

K = Kennametal

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials
U	Universal Machining

Blank	=	Carbide, uncoated
C	=	Carbide, coated
T	=	Cermet
Y	=	Ceramic
D	=	PCD
B	=	PcBN

Hardest

5	fine finishing
10	finishing
15 **20**	medium to roughing
25 **30** **35**	roughing
40 **45** **50**	heaviest roughing

Toughest

B	=	Beyond™ Drive™
C	=	Generation 3

etc.

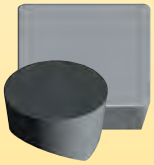
NOTE: Application range does not apply to PcBN grades.

Positive Inserts

Screw-On Inserts

- Screw-On inserts are your first choice for I.D. turning of all materials and O.D. turning on small to medium lathes.
- Available in flat-top and chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages:
Carbide: B189–B292
Advanced Materials: B294–B398



Kendex™ and V-Bottom Inserts

- Kendex positive and V-bottom inserts are your first choice for productive machining of high-temperature alloys on medium to large lathes.
- Available in flat-top geometries with ground periphery.

See pages:
Carbide: B164–B188
Advanced Materials: B294–B398

Top Notch™ Profiling Inserts

- First choice for high-production profiling.
- Unique insert clamping design offers superior rigidity.
- Available in chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages E24–E49 for product listing.

K-Lock™ Inserts

- K-Lock inserts are ideal for deep grooving and profiling.
- A unique insert clamping system allows for unimpeded chip flow.
- Available in molded and ground peripheries.

See page E68–E71 for product listing.

Negative Inserts

Kenloc™ Inserts

- Kenloc inserts are your first choice for general machining of all materials on medium to large lathes.
- Kenloc inserts offer the best economy for high metal removal rates.
- Available in flat-top and chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages:
Carbide: B46–B163
Advanced Materials: B294–B398

Kendex Inserts

- Ceramic Kendex inserts are a great choice for productive machining of high-temp alloys.
- Kendex negative rake inserts are also recommended for the machining of hardened materials and cast irons.
- Available in flat-top geometries with molded and ground peripheries.
- Wide selection of standard toolholders are offered.

See pages B294–B398 for product listing.

Top Notch Turning Inserts

- Ceramic Top Notch turning inserts are your first choice for high-speed roughing and finishing of cast iron parts.
- Available in flat-top geometries with molded and ground peripheries.

See pages B294–B398 for product listing.

Fix-Perfect™ Inserts

- Tangential design and rigid clamping system.

See pages E2–E23 for product listing.

Railroad Inserts

- Designed for the machining of railway wheels and axles.

See pages E50–E67 for product listing.

Insert Selection System

How to Use

The Kennametal three-step insert selection system makes choosing and applying the most productive tool as easy as 1, 2, 3. Tool recommendations are based on six workpiece material groups, optimizing selection accuracy.

Example:
Six workpiece material groups

Step 1 • Select the insert geometry

Given: depths of cut = .040" (1mm)
feed = .016 IPR (0,4mm)
Unknown: insert geometry
Solution: -MN

Step 2 • Select the grade

Given: cutting conditions:
lightly interrupted cut
Geometry: -MN
Unknown: grade
Solution: KCP25B

Step 3 • Select the cutting speed

Given: grade KCP25B
cutting conditions
material CK15
Unknown: cutting speed
Solution: 925 SFM (280 m/min)

Need help in selecting a product?
Additional information can be obtained by contacting
The Kennametal Customer Application Support Team.
Go to kennametal.com for your country's phone number.

Step 1 • Select the insert geometry

Negative Inserts

-RN

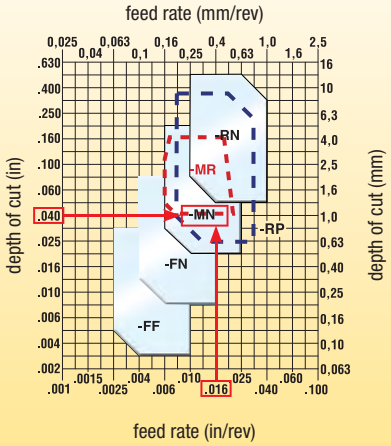
-RP* (positive)

Roughing

-FN Finishing

-MN Medium Machining

-FF Fine Finishing



*-RP – Supplemental geometry for high-strength materials

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

beyond™ beyond™ DRIVE™

Step 2 • Select the grade

cutting condition	-FF	-FN	-MN	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
heavily interrupted cut	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCU25/ KCP25B/ KCP25	KCP40B/ KCP40B	KCP40B/ KCP40B
lightly interrupted cut	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
varying depth of cut, casting, or forging skin	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10

Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P1	KCP05B/KCP05/KTP10							◁▷			435	1450
	KCP10B/KCP10							◁▷			395	1320
	KCP25B/KCP25				◁▷						275	925
	KCP30B/KCP30/KCP40B/KCP40			◁▷							210	700

New Beyond™ Material Group Selection Guide:

To optimize speed recommendations, Beyond material subgroups have been added to each of the six workpiece material groups.

material	material group ISO code	number of material subgroups
steel	P	1–6
stainless steel	M	1–3
cast iron	K	1–3
non-ferrous materials	N	1–8
high-temp alloys	S	1–4
hardened materials	H	1

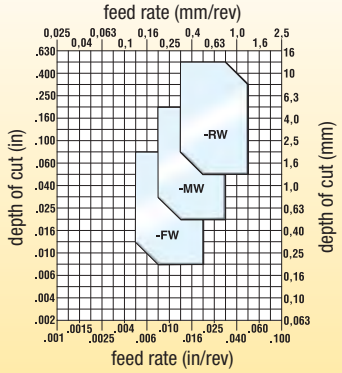
Step 1 • Select the insert geometry

Negative Wiper Inserts

-RW
Rough Wiper

-MW
Medium Wiper

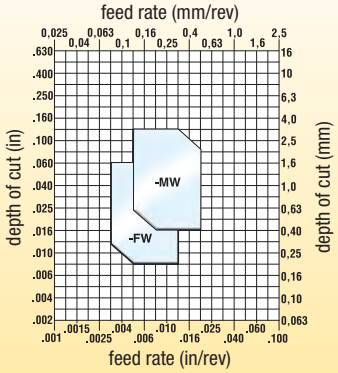
-FW
Finishing Wiper



Positive Wiper Inserts

-MW
Medium Wiper

-FW
Finishing Wiper



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FW	-MW	-RW	Positive Insert Geometry -FW	-MW
heavily interrupted cut		–	–	KCP25B/KCP25	–	KCP25B/KCP25
lightly interrupted cut		KCP10B/KCP10	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25
varying depth of cut, casting, or forging skin		KCP05B/KCP05/ KT315	KCP10B/KCP10	KCP10B/KCP10	KCP10B/KCP10/ KCK20B/KCK20	KCP10B/KCP10
smooth cut, pre-turned surface		KCP05B/KCP05/ KT315	KCP05B/KCP05	KCP10B/KCP10	KCP10B/KCP10/ KT315	KT315

Step 1 • Select the insert geometry

Negative Inserts

-RN

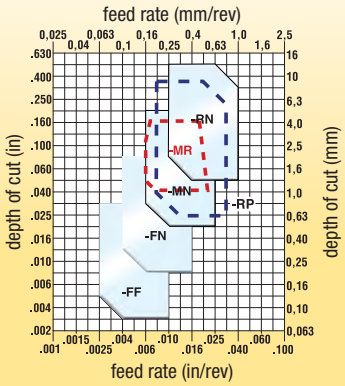
-RP*
(positive)

-MR
Medium
Roughing

-MN
Medium
Machining

-FN
Finishing

-FF
Fine Finishing



*-RP – Supplemental geometry
for high-strength materials

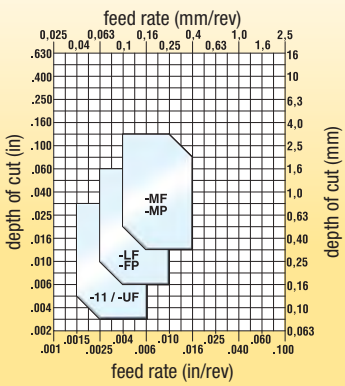
Positive Inserts

-MF
-MP
Positive
Medium Machining

-LF
-FP
Positive

Finishing

-11
-UF
Fine Finishing



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FF	-FN	-MN	-MR	-RN	-RP	-11	Positive Insert Geometry -UF	-LF	-FP	-MF	-MP
heavily interrupted cut		KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	–	KCP30B/ KCP40B	KCP30B/ KCP40B	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP40B/ KCP40	KCM25B/ KCM25
lightly interrupted cut		KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
varying depth of cut, casting, or forging skin		KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10
smooth cut, pre-turned surface		KCP05B/ KCP05/ KT315	KCP05B/ KCP05	KCP05B/ KCP05	KCP10B/ KCP10/ KCK15B	KCP05B/ KCP10	KCP05B/ KCP10	KT315	KCP05B/ KCP05	KCP05B/ KCP05/ KT315	KCP05B/ KCP05/ KTP10	KCP05B/ KCP05	KCP05B/ KCP05

Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P0/P1	KCP05B/KCP05/KCPK05							◇			435	1450
	KCP10B/KCP10						◇				395	1320
	KCP25B/KCP25				◇						275	925
	KCP30B/KCP30/KCP40B/KCP40		◇								210	700
	KT315/KTP10								◇		440	1450
	KCU10			◇							280	925

Medium- and High-Carbon Steels (>0.3% C) — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P2	KCP05B/KCP05/KCPK05				◇						240	800
	KCP10B/KCP10			◇							265	880
	KCP25B/KCP25		◇								195	650
	KCP30B/KCP30/KCP40B/KCP40		◇								150	500
	KT315/KTP10				◇						270	880
	KCU10	◇									200	650

Alloy Steels and Tool Steels (≤330 HB) (≤35 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P3	KCP05B/KCP05/KCPK05			◇							205	680
	KCP10B/KCP10		◇								190	630
	KCP25B/KCP25		◇								155	510
	KCP30B/KCP30/KCP40B/KCP40	◇									120	400
	KT315/KTP10			◇							210	680
	KCU10		◇								155	510

Alloy Steels and Tool Steels (340–450 HB) (36–48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	60 (200)	90 (300)	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	m/min	SFM
P4	KCP05B/KCP05/KCPK05				◇						160	530
	KCP10B/KCP10				◇						145	480
	KCP25B/KCP25			◇							105	360
	KCP30B/KCP30/KCP40B/KCP40		◇								95	325
	KT315/KTP10					◇					210	530
	KCU10			◇							110	360

Ferritic, Martensitic, and PH Stainless Steels (≤330 HB) (≤35 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	330 (1100)	360 (1200)	m/min	SFM
P5	KCP05B/KCP05/KCPK05					◇					240	800
	KCP10B/KCP10				◇						215	720
	KCP25B/KCP25				◇						195	650
	KCP30B/KCP30/KCP40B/KCP40		◇								135	450
	KT315/KTP10					◇					250	800
	KCU10				◇						200	660

Ferritic, Martensitic, and PH Stainless Steels (340–450 HB) (36–48 HRC) — speed — m/min (SFM) — Starting Conditions

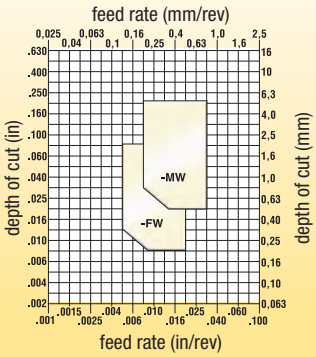
material group	grade	105 (350)	135 (450)	165 (550)	195 (650)	225 (750)	255 (850)	285 (950)	315 (1050)	345 (1150)	m/min	SFM
P6	KCP05B/KCP05/KCPK05				◇						200	660
	KCP10B/KCP10				◇						180	600
	KCP25B/KCP25			◇							150	500
	KCP30B/KCP30/KCP40B/KCP40	◇									105	350
	KT315/KTP10				◇						200	660
	KCU10			◇							150	500

Step 1 • Select the insert geometry

Negative Wiper Inserts

-MW
Medium Wiper

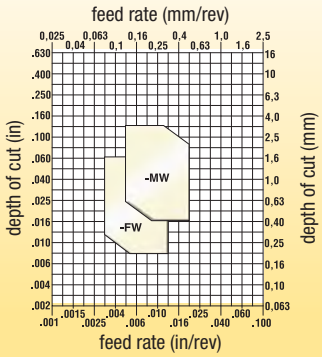
-FW
Finishing Wiper



Positive Wiper Inserts

-MW
Medium Wiper

-FW
Finishing Wiper



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FW	Negative Insert Geometry -MW	Positive Insert Geometry -FW	Positive Insert Geometry -MW
heavily interrupted cut		–	–	–	–
lightly interrupted cut		KCM15B/KCM15	KCM25B/KCM25	KCM15B/KCM15	KCM15B/KCM15
varying depth of cut, casting, or forging skin		KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCU10	KCU10
smooth cut, pre-turned surface		KCM15B/KCM15/ KT315	KCM15B/KCM15	KT315	KT315

Step 1 • Select the insert geometry

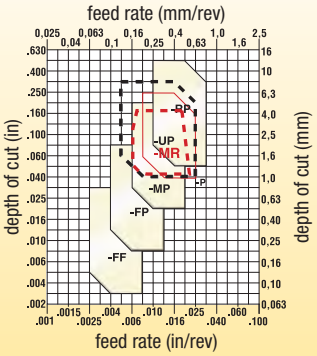
Negative Inserts

-RP -P
Roughing

-MR
Medium Roughing

-MP -UP
Medium Machining

-FP -FF
Finishing



Positive Inserts

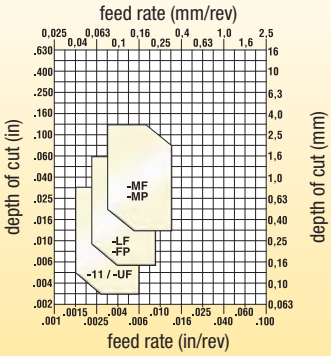
-MP
Medium Machining

-LF

..GT-LF
Finishing

-11

-UF
Fine Finishing



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FF	-FP	-MP/-UP	-P/-RP	-MR
heavily interrupted cut		KCU10	KCM15B/KCM15	KCM35B/KCM35	KCM35B/KCM35	KCM35B/KCM35
lightly interrupted cut		KCU10	KCM15B/KCM15	KCM25B/KCM25	KCM25B/KCM25	KCM25B/KCM25
varying depth of cut, casting, or forging skin		KT315	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCM15B/KCM15/ KCM25B/KCM25	KCM15B/KCM15
smooth cut, pre-turned surface		KT315	KCM15B/KCM15/ KT315	KCM15B/KCM15/ KCU10	KCU10	KCM15B/KCM15

(continued)

Step 2 • Select the grade *(continued)*

cutting condition		Positive Insert Geometry -11	-UF	-LF	-MP/-MF	-FP	..GT-LF
heavily interrupted cut		–	KCU25	KCM35B/KCM35	KCM25B/KCM25	KCU25/KCM25B/ KCM25	KCU25
lightly interrupted cut		–	KCU10	KCM25B/KCM25	KCM25B/KCM25	KCM15B/KCM15	KCU25
varying depth of cut, casting, or forging skin		KT315	–	KCM15B/KCU10	KCM15B/KCM15	KCU10	KCU10
smooth cut, pre-turned surface		KT315	–	KCM15B/KCM15/ KT315	KCM15B/KCM15	KTP10	KCU10

Step 3 • Selecting the cutting speed

Austenitic Stainless Steel — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M1	KCM15B/KCM15			◁▷							180	600
	KCM25B/KCM25		◁▷								150	500
	KCM35B/KCM35	◁▷									120	400
	KT315				◁▷						230	750
	KCU10			◁▷							215	700
	KCU25		◁▷								180	550

Austenitic Stainless Steel — speed — m/min (SFM) — Starting Conditions ◁▷

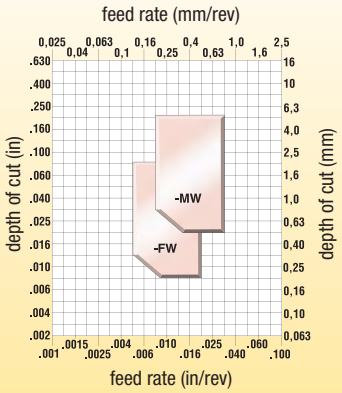
material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M2	KCM15B/KCM15			◁▷							165	550
	KCM25B/KCM25		◁▷								140	450
	KCM35B/KCM35	◁▷									105	350
	KT315				◁▷						215	700
	KCU10			◁▷							200	650
	KCU25		◁▷								165	500

Austenitic Stainless Steel: Duplex (Ferritic and Austenitic Mixture) — speed — m/min (SFM) — Starting Conditions ◁▷

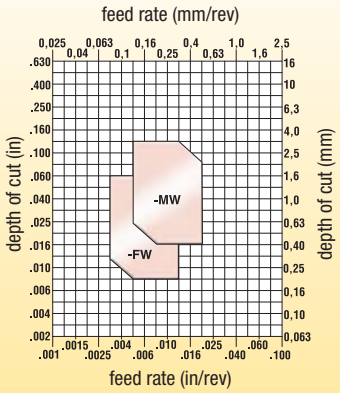
material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M3	KCM15B/KCM15			◁▷							150	500
	KCM25B/KCM25		◁▷								120	400
	KCM35B/KCM35	◁▷									90	300
	KT315				◁▷						200	650
	KCU10			◁▷							185	600
	KCU25		◁▷								150	450

Step 1 • Select the insert geometry

Negative Wiper Inserts



Positive Wiper Inserts



Step 2 • Select the grade

Gray Iron

		Negative Insert Geometry			Positive Insert Geometry	
cutting condition		**-FW**	**-T-20FW**	**-S...MW...**	**-FW**	**-MW**
heavily interrupted cut		–	KY3500	KB1345	–	KCK15B/KCK15/ KCK20B/KCK20
lightly interrupted cut		KCK15B/KCK15	KY3500	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
varying depth of cut, casting, or forging skin		KCK05B/KCK05/ KT315	KYK10	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
smooth cut, pre-turned surface		KCK05B/KCK05/ KT315	KYK25	KB1345	KCK20B/ KT315	KCK15B/KCK15/ KCK20B/KCK20/KT315

Ductile Iron

		Negative Insert Geometry		Positive Insert Geometry	
cutting condition		**-FW**	**-T-20FW**	**-FW**	**-MW**
heavily interrupted cut		–	–	–	–
lightly interrupted cut		KCK15B/ KCK15	KY3500	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin		KCK05B/KCK05/ KT315	KYK10	KCK20B/ KCK20	KCK20B/ KCK20
smooth cut, pre-turned surface		KCK05B/KCK05/ KT315	KYK25	KCK20B/KCK20/ KT315	KCK20B/KCK20/ KT315

Step 3 • Selecting the cutting speed

Gray Cast Iron — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K1	KCK05B/KCK05					◁▷					450	1500
	KCK15B/KCK15				◁▷						360	1200
	KCK20B/KCK20/KCPK05				◁▷						300	1000
	KT315				◁▷						275	900

Ductile, Compacted Graphite, and Malleable Cast Irons (<80 KSI tensile strength) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K2	KCK05B/KCK05				◁▷						360	1200
	KCK15B/KCK15				◁▷						270	900
	KCK20B/KCK20/KCPK05			◁▷							240	800
	KT315				◁▷						275	900

Ductile, Compacted Graphite, and Malleable Cast Irons (>80 KSI tensile strength) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K3	KCK05B/KCK05			◁▷							240	800
	KCK15B/KCK15			◁▷							215	725
	KCK20B/KCK20/KCPK05		◁▷								210	700
	KT315			◁▷							230	750

Step 1 • Select the insert geometry

Negative Inserts

..MA -S-20

-T-20

-MR
Medium Roughing

-S-20
Roughing

-UN

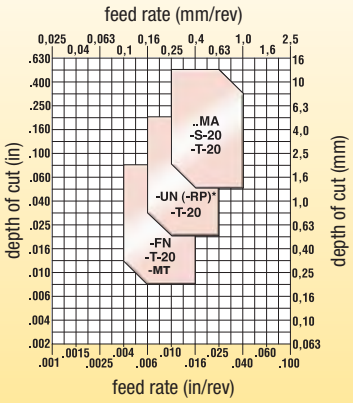
-RP

-T-20
Medium Machining

-FN
Finishing

-T-20

-MT
Finishing



Positive Inserts

-MF

-T-20

-MP

-C
Medium Machining

-LF

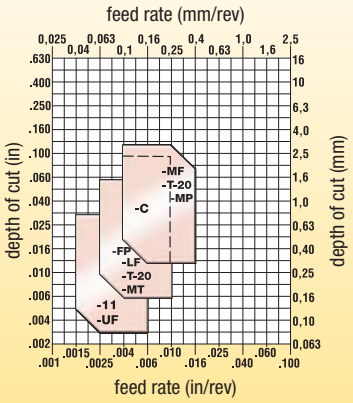
-T-20

-FP
Positive

-MT
Finishing

-11

-UF
Fine Finishing



*Geometry can be used in medium machining operations to reduce tool pressure in high-strength metals.

Step 2 • Select the grade

Gray Iron

	Negative Insert Geometry				Positive Insert Geometry			
cutting condition	**-FN**	**-MR**	**-UN(-RP)**	**-MA**	**-LF**	**-FP**	**-MF**	**-MP**
heavily interrupted cut	KCK15B/ KCK15	KCP25B/ KCP25/ KCP10B/KCP10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
lightly interrupted cut	KCK15B/ KCK15	KCP10B/ KCP10/ KCP25B/KCP25	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20
smooth cut, pre-turned surface	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK05B/ KCK05	KCK05B/ KCK05	KCK05B/ KCK05	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20

Ductile Iron

	Negative Insert Geometry				Positive Insert Geometry			
cutting condition	**-FN**	**-UN(-RP)**	**-MA**	**-11/-UF**	**-LF**	**-MF**	**-FP**	**-MP**
heavily interrupted cut	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	–	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
lightly interrupted cut	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	KCU10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCU10	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20
smooth cut, pre-turned surface	KCK05B/ KCK05/ KT315	KCK05B/ KCK05	KCK05B/ KCK05	KT315	KCU10	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20

(continued)

Step 3 • Selecting the cutting speed *(continued)* (Optimal speed depends on casting quality and disposition.)

Gray Cast Iron — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	60 (200)	180 (600)	305 (1000)	430 (1400)	550 (1800)	675 (2200)	800 (2600)	920 (3000)	1040 (3400)	1160 (3800)	m/min	SFM
K1	KT315		◁▷									275	900
	KB1340/KB1345							◁▷				760	2500
	KCK05B/KCK05				◁▷							450	1500
	KCK15B/KCK15				◁▷							360	1200
	KCK20B/KCK20/KCPK05			◁▷								300	1000

Ductile, Compacted Graphite, and Malleable Cast Irons (<600 MPa tensile strength) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K2	KT315					◁▷								275	900
	KCU10				◁▷									200	650
	KCK05B/KCK05						◁▷							360	1200
	KCK15B/KCK15						◁▷							270	900
	KCK20B/KCK20/KCPK05					◁▷								240	800

Ductile, Compacted Graphite, and Malleable Cast Irons (>600 MPa tensile strength) — speed — m/min (SFM) — Starting Conditions ◁▷

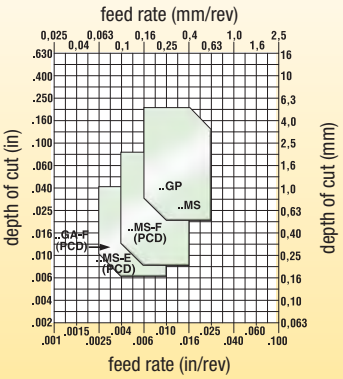
material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K3	KT315				◁▷									230	750
	KCU10			◁▷										150	500
	KCK05B/KCK05					◁▷								240	800
	KCK15B/KCK15			◁▷										215	725
	KCK20B/KCK20/KCPK05		◁▷											210	700

Step 1 • Select the insert geometry

Negative Inserts

..GP ..MS

Medium Finishing



Positive Inserts

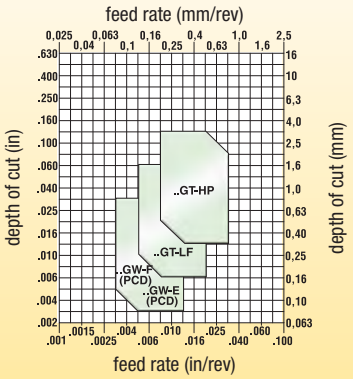
..GT-HP

Medium Finishing

..GT-LF

Finishing

..GW-F (PCD) ..GW-E (PCD)



Step 2 • Select the grade

		Negative Insert Geometry		Positive Insert Geometry	
cutting condition		**..GP**	**..MS**	**..GT-LF**	**..GT-HP**
heavily interrupted cut		**KC5410/K313**	**KC5410**	**–**	**KC5410**
lightly interrupted cut		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
varying depth of cut, casting, or forging skin		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
smooth cut, pre-turned surface		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**

Step 3 • Selecting the cutting speed

Low-Silicon Aluminum Alloys (hypoeutectic <12.2% Si) and Magnesium Alloys

speed — m/min (SFM)

Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/min	SFM
N1	**KC5410**		◁▷									550	1800

Additional cutting speed recommendations for miscellaneous workpiece materials

Copper-, Brass-, Zinc-Based on a Machinability Index Range of 70–100 — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KC5410	◁▷				275	900
	K313	◁▷				260	850

Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass, and Glass — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KC5410	◁▷				170	550

Carbon and Graphite Composites: Brush Alloys, Kevlar, and Graphite (280–400 HB) (30–43 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

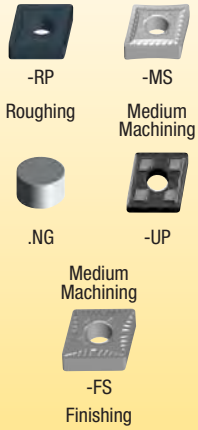
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KC5410	◁▷				200	650

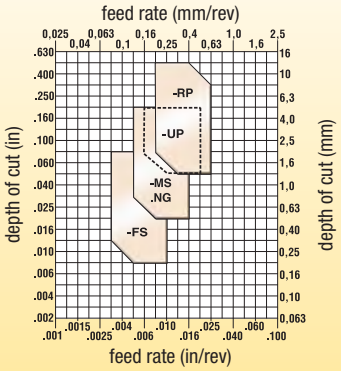
Tin Alloys, Cast: ASTM 823, Alloys 1, 2, 3, 11 — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N8	KC5410	◁▷				215	700
	K313	◁▷				180	600

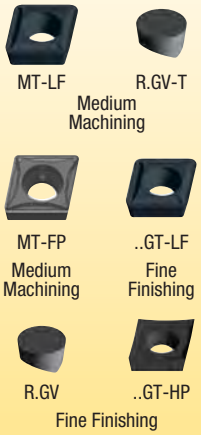
Step 1 • Select the insert geometry

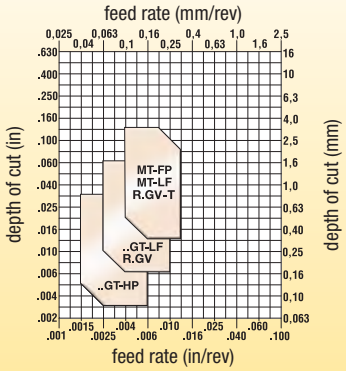
Negative Inserts





Positive Inserts





Step 2 • Select the grade

		Negative Insert Geometry			
cutting condition		**-FS**	**-MS**	**-UP**	**-RP**
heavily interrupted cut		**KCU25**	**KCU25**	**KCM35B**	**KCM25B/ KCM35B**
lightly interrupted cut		**KCU10**	**KCU25**	**KCM25B**	**KCM15B**
varying depth of cut, casting, or forging skin		**KCU10**	**KCU10**	**KCM15B**	**KCU25**
smooth cut, pre-turned surface		**KCU10/K313**	**KCU10/K313**	**KCU10**	**KCU10**

		Positive Insert Geometry			
cutting condition		**MT-FP**	**..GT-HP**	**MT-LF**	**..GT-LF**
heavily interrupted cut		**KCU25**	**–**	**KCU25**	**KCU25**
lightly interrupted cut		**KCU25**	**KCU25**	**KCU25**	**KCU25**
varying depth of cut, casting, or forging skin		**KCU10/KU10**	**KCU10**	**KCU10**	**KCU10**
smooth cut, pre-turned surface		**KCU10/KU10**	**KCU10/K313**	**KCU10/K313**	**KCU10/K313**

Step 3 • Select the cutting speed

Iron-Based, Heat-Resistant Alloys (135–320 HB) (≤34 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	K313/KU10		◁▷												30	100
	KCU10			◁▷											55	180
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											55	180
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Cobalt-Based, Heat-Resistant Alloys (150–425 HB) (≤45 HRC) — speed — m/min (SFM) — Starting Conditions

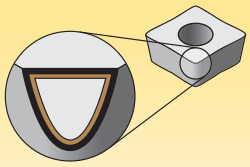
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	K313/KU10		◁▷												35	110
	KCU10			◁▷											60	195
	KCU25		◁▷												30	100
	KCM15B/KCM15			◁▷											60	195
	KCM25B/KCM25/KCM35B/KCM35		◁▷												30	100

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	K313/KU10		◁▷												40	125
	KCU10			◁▷											70	225
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Titanium and Titanium Alloys (110–450 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S4	K313/KU10		◁▷												45	150
	KCU10			◁▷											70	225
	KCU25		◁▷												55	175
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												55	175

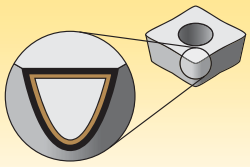


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

	Coating	Grade Description		05	10	15	20	25	30	35	40	45
Uncoated Carbide Grades	K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.										
			M									
			K									
			N									
			S									
	K68	**Composition:** A hard, low binder content, alloyed grade WC/Co fine-grain grade. **Application:** The K68 grade has excellent abrasion resistance for machining cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and as an alternative to the K313 grade on high-temperature alloys. Use as a general-purpose grade for non-ferrous materials.										
			M									
			K									
			N									
			S									
PVD-Coated Carbide Grades	KCS10	**Composition:** An advanced PVD-AlTiN coated, fine-grained tungsten carbide grade. **Application:** The KCS10 grade specifically engineered for the productive machining of high-temperature alloys. The fine-grained tungsten carbide substrate has excellent toughness and deformation resistance while the advanced PVD coating allows metalcutting speeds double those of conventional PVD-coated cutting tools.										
			P									
			M									
			K									
			N									
			S									
			H									
	KCU10	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability. beyond										
			P									
			M									
			K									
			N									
			S									
			H									

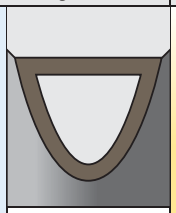
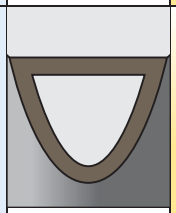
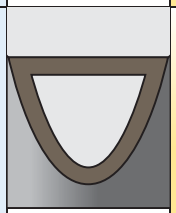
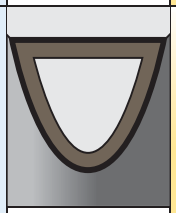


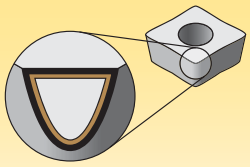
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

PVD-Coated Carbide Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KCU25  —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates. beyond	P				■	■	■			
		M				■	■	■			
		K				■	■	■			
		N				■	■	■			
		S				■	■	■			
KC5010  —	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.	P		■	■	■					
		M		■	■	■					
		K	■	■	■	■					
		N		■	■	■					
		S		■	■	■					
		H		■							
KC5025  —	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.	P				■	■	■			
		M				■	■	■			
		K				■	■	■			
		N				■	■	■			
		S				■	■	■			
KC5410  —	**Composition:** A PVD TiB_2 coating over a very deformation-resistant unalloyed substrate. **Application:** Designed for roughing, semi-finishing, and finishing of free machining (hypoeutectic <12.2% Si) aluminum, aluminum alloys, and magnesium alloys. The TiB_2 coating is harder than TiN and TiAlN coatings and has an extremely smooth surface, resulting in reduced surface friction, speedy chip flow, and outstanding wear resistance. Built-up edge is prevented because this coating has a very low affinity for aluminum. The substrate is unalloyed and fine grained and offers sharp edges, smooth surfaces, and excellent thermal deformation resistance and edge integrity. Inserts with a ground periphery are polished before coating and have a sharp edge. Molded inserts have a light hone.										
		N				■					



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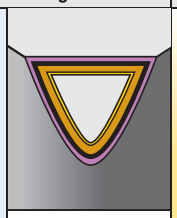
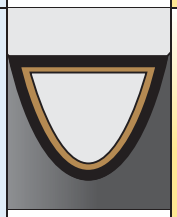
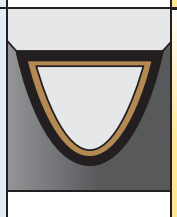
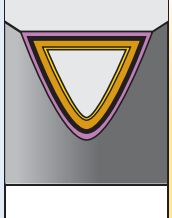
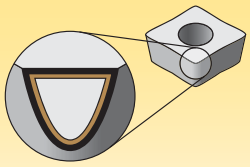
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCP05B  —	**Composition:** An innovative, highly deformation-resistant, cobalt-enriched substrate with a specially designed, adherent MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For finishing to semi-finishing of most steels, ferritic, martensitic, and PH stainless steels and cast irons. Provides excellent combination of deformation resistance and insert edge strength. The new coating combined with a state-of-the-art post-coat treatment provides high-productivity with long predictable tool life and superior workpiece surface finish. beyond DRIVE	P	P	P						
KCP05  —	**Composition:** An innovative, highly deformation-resistant, cobalt-enriched substrate with a specially designed, adherent MTCVD TiCN-Al_2O_3 coating. **Application:** For finishing to semi-finishing of most steels, ferritic, martensitic, and PH stainless steels and cast irons. Provides excellent combination of deformation resistance and insert edge strength. The new coating combined with a state-of-the-art post-coat treatment provides high-productivity with long predictable tool life and superior workpiece surface finish. beyond	P	P	P						
KCPK05  —	**Composition:** A deformation-resistant, cobalt-enriched substrate combined with thick MTCVD TiCN-Al_2O_3 coating. **Application:** For high productivity turning of steels and PH stainless steels in continuous to lightly interrupted cuts. This grade provides excellent combination of toughness and high speed wear resistance allowing the fastest steel part production. Its unique combination of substrate and coating also make it an ideal roughing grade for cast iron where chipping resistance is required. beyond	P	P	P						
KCP10B  —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3-TiOCN coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes. beyond DRIVE	P	P	P	P					
KCP10 —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3 coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes. beyond	P	P	P	P					

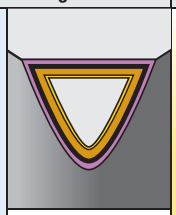
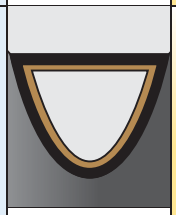
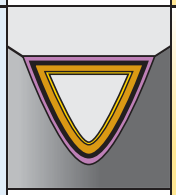
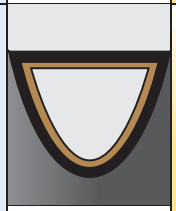


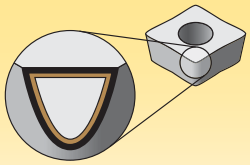
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCP25B  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes. beyond DRIVE™	P				20	25	30			
		M									
		K						30	35	40	
		N									
		S									
		H									
KCP25  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3 coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes. beyond™	P				20	25	30			
		M									
		K						30	35	40	
		N									
		S									
		H									
KCP30B  —	**Composition:** A tough cobalt-enriched carbide grade with an advanced multilayer MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For medium to rough machining of all carbon, alloy, and stainless steels. The substrate design provides superior insert strength that is required for this application, and the multilayer coating adds wear resistance to the insert resulting in long tool life. beyond DRIVE™	P					30	35	40	
		M				20	25				
		K									
		N									
		S									
		H									
KCP30  —	**Composition:** A tough cobalt-enriched carbide grade with an advanced multilayer MTCVD TiCN-Al_2O_3 coating. **Application:** For medium to rough machining of all carbon, alloy, and stainless steels. The substrate design provides superior insert strength that is required for this application, and the multilayer coating adds wear resistance to the insert resulting in long tool life. beyond™	P					30	35	40	
		M				20	25				
		K									
		N									
		S									
		H									

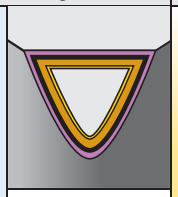
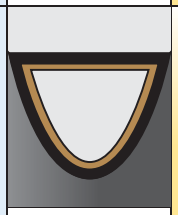
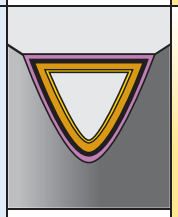
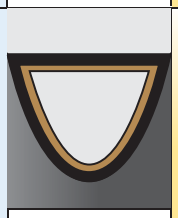
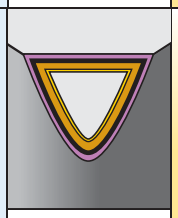


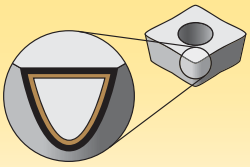
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCP40B  —	**Composition:** A tough carbide grade with a thin MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For heavy roughing of carbon, alloy, and stainless steels. The substrate-coating combination provides unbelievable toughness and operational security allowing high metal removal rates even in most demanding interrupted cuts. beyond DRIVE™	P						■	■	■
		M				■	■	■		
KCP40  —	**Composition:** A tough carbide grade with a thin MTVCVD TiCN-Al_2O_3 coating. **Application:** For heavy roughing of carbon, alloy, and stainless steels. The substrate-coating combination provides unbelievable toughness and operational security allowing high metal removal rates even in most demanding interrupted cuts. beyond	P						■	■	■
		M				■	■	■		
KCK05B  —	**Composition:** A multilayered coating with moderately thick MTCVD TiCN-Al_2O_3-TiOCN layers over a highly deformation-resistant carbide substrate. **Application:** Designed for high-speed machining of gray and ductile irons. The substrate and coating architecture together with post-coat treatment ensure a tremendous tool life advantage, especially when cutting higher tensile strength ductile and gray irons where workpiece size consistency and reliability of tool life are critical. Excellent both in continuous cuts and varied depths of cut. beyond DRIVE™	P	■								
		K	■	■	■					
KCK05  —	**Composition:** A multilayered coating with moderately thick MTCVD TiCN-Al_2O_3 layers over a highly deformation-resistant carbide substrate. **Application:** Designed for high-speed machining of gray and ductile irons. The substrate and coating architecture together with post-coat treatment ensure a tremendous tool life advantage, especially when cutting higher tensile strength ductile and gray irons where workpiece size consistency and reliability of tool life are critical. Excellent both in continuous cuts and varied depths of cut. beyond	P	■								
		K	■	■	■					
KCK15B  —	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3-TiOCN layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in continuous and lightly interrupted cuts. beyond DRIVE™	P	■	■							
		K		■	■	■	■			



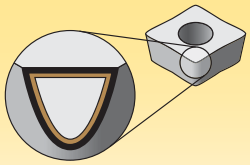
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCK15 —	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3 layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in continuous and lightly interrupted cuts. beyond	P, K	P, K	K	K					
KCK20B —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3-TiOCN coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed. beyond DRIVE™	P, K	P, K	P, K	K	K	K			
KCK20 —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3 coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed. beyond	P, K	P, K	P, K	K	K	K			
KCM15B —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coated carbide grade. **Application:** An excellent finishing to medium machining grade for austenitic stainless steels at higher speeds and covers a broad range of steel applications in the P20–P25 range. KCM15B grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimize bur formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimizes microchipping and edge build-up, and improves workpiece finish. beyond DRIVE™	P, M	P, M	P, M	P, M	P	P			



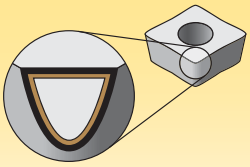
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCM15 —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coated carbide grade. **Application:** An excellent finishing to medium machining grade for austenitic stainless steels at higher speeds and covers a broad range of steel applications in the P20–P25 range. KCM15 grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimize bur formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimizes microchipping and edge build-up, and improves workpiece finish. beyond	P								
KCM25B —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3-TiOCN coated carbide grade. **Application:** This CVD-coated grade is designed for general-purpose machining of austenitic stainless steels at moderate speeds and feeds. This grade offers an extraordinary combination of toughness, built-up edge resistance, and wear resistance in stainless steel applications. beyond DRIVE	P								
KCM25 —	**Composition:** A multilayer CVD coating comprised of MTCVD TiCN-Al_2O_3 layers over a tough, cobalt-enriched carbide substrate. **Application:** This CVD-coated grade is designed for general-purpose machining of austenitic stainless steels at moderate speeds and feeds. This grade offers an extraordinary combination of toughness, built-up edge resistance, and wear resistance in stainless steel applications. beyond	P								
KCM35B —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3-TiOCN coating over a super-tough substrate. **Application:** Engineered to take on the most brutal cast stainless steel machining applications. The substrate withstands heavy interruptions, while the coating provides the wear resistance needed for long tool life. The polished surface resists edge build-up, even at slow cutting speeds. Available in insert sizes and geometries appropriate for heavy feeds and large depths of cut. beyond DRIVE	P								
KCM35 —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coating over a super-tough substrate. **Application:** Engineered to take on the most brutal cast stainless steel machining applications. The substrate withstands heavy interruptions, while the coating provides the wear resistance needed for long tool life. The polished surface resists edge build-up, even at slow cutting speeds. Available in insert sizes and geometries appropriate for heavy feeds and large depths of cut. beyond	P								

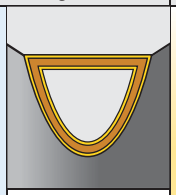
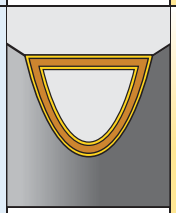


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

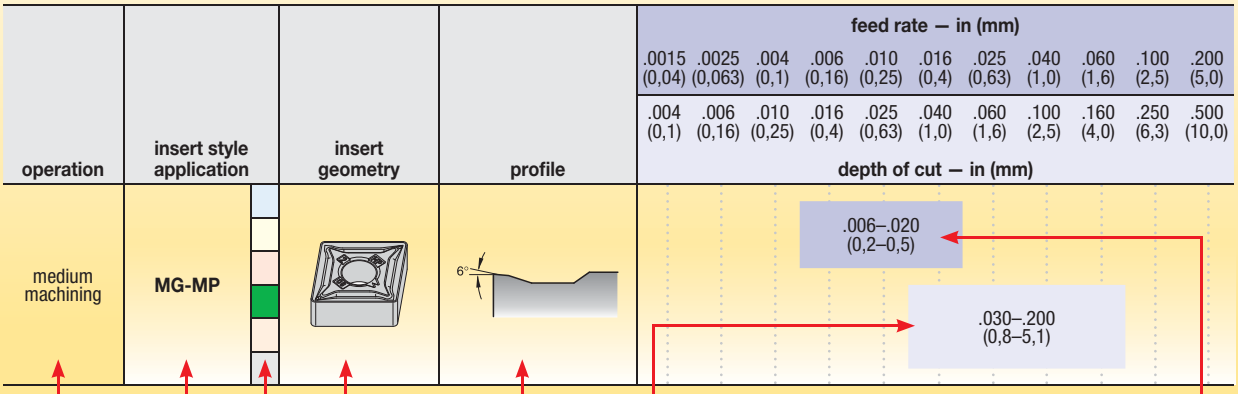
wear resistance ← → toughness

PVD-Coated Cermet Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KT315  —	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		M									
		K									
KTP10  —	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		M									
		K									

Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials



Feed Rate Range —
for best results, use the center 60% of the range

Depth-of-Cut Range —
for all inserts in the program, select smaller inserts for lighter cuts and larger inserts for heavy cuts

Pictorial View of Insert

Chipbreaker Geometry —
section is through nose radius of insert

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

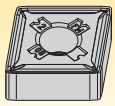
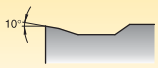
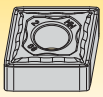
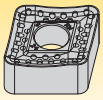
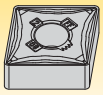
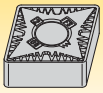
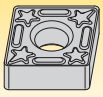
Chip Control Geometry Designation —
example: MG-MP = CNMG-432MP

Machining Operation —
for what the insert geometry is designed

NOTE: For detailed grade and geometry recommendations, reference the Kennametal Beyond™ Selection System on pages B8–B21.

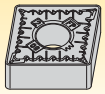
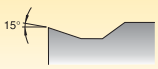
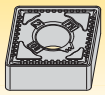
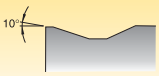
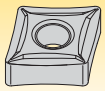
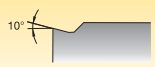
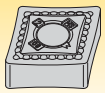
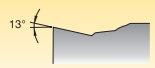
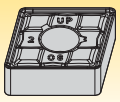
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
wiper finishing	**MG-FW**			.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0) .008–.016 (0,2–0,4) .010–.080 (0,25–2,0)
wiper medium machining	**MG-MW**			.012–.024 (0,3–0,6) .030–.200 (0,8–5,1)
wiper roughing	**MM-RW**			.010–.050 (0,3–1,3) .050–.500 (1,3–12,7)
fine finishing	**MG-FF**			.002–.010 (0,05–0,25) .003–.080 (0,08–2,0)
finishing sharp	**GG-FS** precision ground			.003–.010 (0,07–0,25) .008–.080 (0,20–2,0)
finishing	**GG-LF** precision ground			.005–.020 (0,1–0,5) .020–.120 (0,5–3,0)

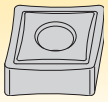
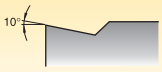
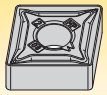
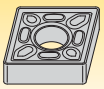
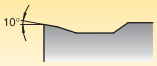
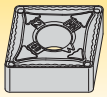
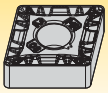
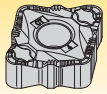
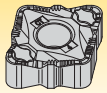
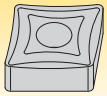
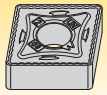
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
finishing	MG-FP			.0015 (0,04) – .200 (5,0) / .004 (0,1) – .500 (10,0): .004–.012 (0,1–0,3); .010–.100 (0,25–2,5)
	MG-FN			.005–.012 (0,1–0,3); .010–.100 (0,3–2,5)
	MP-K			.004–.012 (0,1–0,3); .008–.100 (0,2–2,5)
medium sharp	MG-MS			.005–.014 (0,12–0,35); .030–.200 (0,76–5,0)
medium machining	MG-UP			.008–.025 (0,2–0,6); .040–.250 (1–6,4)

Select the geometry — based on feed rate and depth of cut

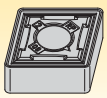
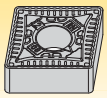
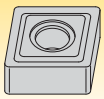
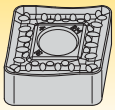
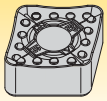
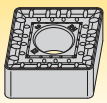
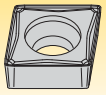
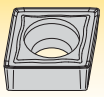
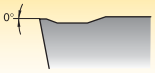
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
				.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0)
				.004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0)
medium machining	_GP*			.012–.020 (0,3–0,5); .020–.125 (0,5–3,2)
	MG-MP			.006–.020 (0,15–0,5); .030–.200 (0,8–5,1)
	MG-P			.006–.020 (0,15–0,5); .030–.200 (0,75–5,0)
	MG-MN			.006–.020 (0,15–0,5); .020–.200 (0,5–5,1)
	MG-MR			.06–.2 (0,15–0,55); .06–.25 (1,5–6,3)
	MG-CT O.D. turning			.005–.020 (0,13–0,5); .040–.115 (1,0–3,0)
	MG-CT outward facing			.010–.020 (0,25–0,5); .010–.040 (0,25–1,0)
	-MS single sided			.006–.015 (0,15–0,4); .025–.090 (0,6–2,3)
	MG-UN			.008–.020 (0,2–0,5); .030–.150 (0,8–3,8)

*35° and 55° geometries are single sided.

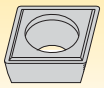
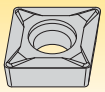
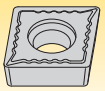
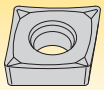
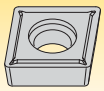
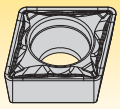
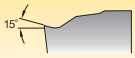
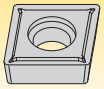
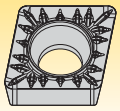
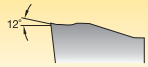
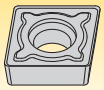
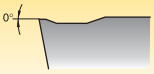
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

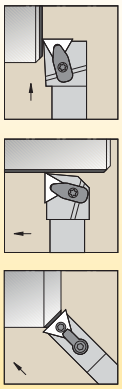
operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
				.0015 (0,04) · .0025 (0,063) · .004 (0,1) · .006 (0,16) · .010 (0,25) · .016 (0,4) · .025 (0,63) · .040 (1,0) · .060 (1,6) · .100 (2,5) · .200 (5,0)
				.004 (0,1) · .006 (0,16) · .010 (0,25) · .016 (0,4) · .025 (0,63) · .040 (1,0) · .060 (1,6) · .100 (2,5) · .160 (4,0) · .250 (6,3) · .500 (10,0)
roughing	**MG-RP**			.008–.025 (0,2–0,6); .045–.250 (1,1–6,4)
heavy roughing	**MG-RN**			.010–.025 (0,3–0,63); .045–.250 (1,1–5,7)
	MG			.012–.030 (0,3–0,8); .045–.225 (1,1–5,7)
	MM-RM single sided			.010–.040 (0,3–1,0); .050–.500 (1,3–12,7)
	MM-RP single sided			.008–.030 (0,2–1,0); .050–.400 (1,3–10,0)
	MM-RH single sided			.015–.050 (0,4–1,3); .050–.500 (1,3–12,7)
wiper finishing	**MT-FW**			.003–.013 (0,08–0,35); .008–.060 (0,2–1,5)
wiper, medium finishing	**MT-MW**			.005–.020 (0,12–0,5); .016–.130 (0,4–3,3)

Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
fine finishing	_GM precision ground			.0015 (0,04) – .004 (0,1): .002–.008 (0,05–0,2); .0025 (0,063) – .006 (0,16): .008–.040 (0,2–1,0)
	MT-11			.004 (0,1) – .010 (0,25): .003–.010 (0,08–0,25); .016 (0,4) – .025 (0,63): .008–.050 (0,2–1,3)
	.MT-UF			.0015 (0,04) – .004 (0,1): .002–.010 (0,05–0,25); .006 (0,16) – .025 (0,63): .005–.050 (0,1–1,3)
finishing	GT-HP precision ground			.010 (0,25) – .025 (0,63): .007–.015 (0,15–0,4); .040 (1,0) – .060 (1,6): .025–.090 (0,6–2,3)
	GT-LF precision ground			.010 (0,25) – .025 (0,63): .007–.015 (0,2–0,4); .040 (1,0) – .060 (1,6): .030–.090 (0,8–2,3)
	MT-FP			.0015 (0,04) – .004 (0,1): .0025–.010 (0,063–0,25); .006 (0,16) – .060 (1,6): .006–.060 (0,16–1,6)
	MT-LF			.010 (0,25) – .025 (0,63): .007–.015 (0,2–0,4); .040 (1,0) – .060 (1,6): .030–.090 (0,8–2,3)
medium machining	MT-MP			.006 (0,16) – .016 (0,4): .004–.016 (0,15–0,4); .025 (0,63) – .100 (2,5): .016–.130 (0,4–2,3)
	MT-MF			.016 (0,4) – .040 (1,0): .009–.017 (0,2–0,4); .060 (1,6) – .160 (4,0): .045–.090 (1,1–2,3)

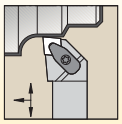
0° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc™	●		●			B60
		Screw-On	●		●			B193, B209
	D 55°	Screw-On	●	●				B227
	V 35°	Screw-On	●	●				B282
	T 60°	Kenloc	●	●	●	●	●	B132
		Kenclamp	●		●			B131
		Kendex™	●		●			B179
		Screw-On	●					B259, B269

-3° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	D 55°	Kenloc	●	●				B89
		Kenclamp	●	●				B87
		Screw-On	●	●				B228
		TNT	●	●				–
	V 35°	Kenloc	●	●				B152
		Kenclamp	●	●				B150
		Screw-On	●	●				B282
	F 50°	Screw-On	●	●				–
	T 60°	Kenloc	●	●				B136
		Kenclamp	●					B131
		Screw-On	●					B261
		Wedgelock	●	●				–

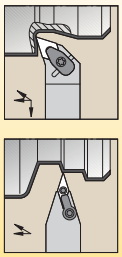
-5° Lead Angle

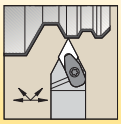
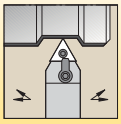
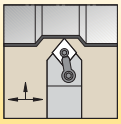
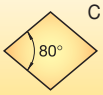
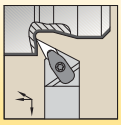
tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc	●	●	●			B63
		Kenclamp™	●	●	●			B59
		Screw-On	●	●	●			B194
		TNT	●	●	●			B383
	W 80°	Kenloc	●	●	●			–
		Kenclamp	●	●	●			B163
		Screw-On	●	●	●			B287
		TNT	●	●	●			B384
		Wedgelock™	●	●	●			–

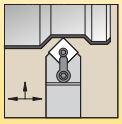
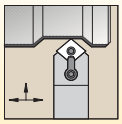
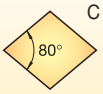
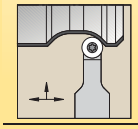
15° and -15° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc	●		●			B62
		Kenclamp	●		●			B60
		Kendex	●					B383
		Screw-On	●		●			B196, B212
		TNT	●					–
	S 90°	Kenloc	●		●			B111
		Kenclamp	●		●			B109
		Kendex	●		●			B384
	T 60° -15° lead angle	Kenloc	●	●				B138
		Kendex	●					B179
		Wedgelock	●	●	●			–

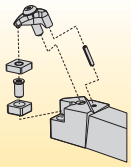
17.5° and -17.5° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	D 55°	Kenloc	●	●				B90
		Kenclamp	●	●				B88
		TNT	●	●				–
	F 50°	Screw-On	●	●				–
	V 35° -17.5° lead angle	Kenloc		●				B153
		Kenclamp		●				B151

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
27.5° Lead Angle								
	D 55°	Kenloc™	●	●				B90
		Kenclamp™	●	●				B88
		Screw-On		●				B229
30° Lead Angle								
	T 60°	Kenloc	●	●				B134
		Kendex	●	●				B187
		Wedgelock™	●	●				—
40° Lead Angle								
	 C 80°	Kenloc	●	●	●			B64
		Screw-On	●	●	●			B195, B211
117.5° Lead Angle								
	V 35°	Kenclamp	●		●			B151

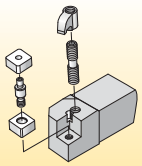
tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
45° Lead Angle								
	S 90°	Kenloc	●	●	●			B111
		Kenclamp	●	●	●			B109
		Kendex™	●	●	●			B172
		TNT	●	●	●			B383
50° Lead Angle								
	 C 80°	Kenloc	●	●	●			B61
		Kendex	●	●	●			—
	R	Kenloc	●	●	●			B98
		Kenclamp	●	●	●			B98
		Kendex	●	●	●			B168
		Screw-On	●	●	●			B243
		V-Bottom	●	●	●			B168

Clamping Styles



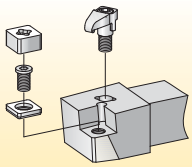
Kenclamp Style

- Uses Kenloc negative style inserts.
- Unique clamp design provides rigid clamping.
- Ensures insert repeatability and seating.
- Reduced chatter and improved tool life.



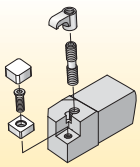
Kenloc Style

- Uses Kenloc negative style inserts.
- Lock pin and top clamp provide rigid clamping.
- Wide variety of insert styles may be used.
- Tools may be used with or without clamp.



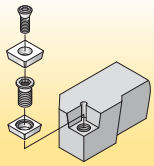
Top Notch™ Turning Style

- Proven superior system in holding ceramic inserts rigidly in turning and profiling operations.
- Uses standard insert sizes — 80°, 75°, 55°, square, and trigon.
- This system offers the added versatility of using optional hardware to hold standard Kendex and Kenloc inserts.



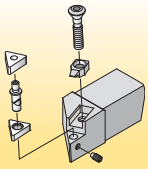
Kendex Style

- Uses Kendex inserts.
- Chipbreaker option available for ceramic inserts.
- Wide variety of insert styles may be used.



Screw-On Style

- Top clamping by screw for Screw-On inserts.

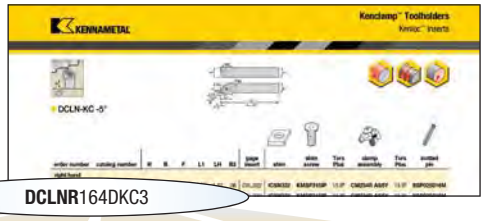


Wedgelock™ Style

- Top and hole clamping for inserts with hole.

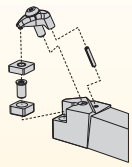
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



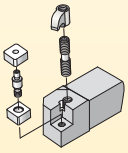
D — Insert Holding Method

D



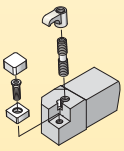
Kenclamp™

M



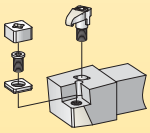
Kenloc™

C



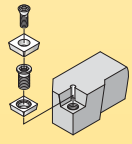
Kendex™

N



Top Notch™ Profiling

S



Screw-On

C — Insert Shape

A	85°
B	82°
C	80°
D	55°
E	75°
H	120°
K	55°
L	90°
M	86°
O	135°
P	108°
R	
S	90°
T	60°
V	35°
W	80°

L — Tool Style or Lead Angle

A	0°	L	5° / 5°
B	15°	M	40°
C	0°	P	27.5°
D	45°	Q	27.5°
E	30°	R	15°
F	0°	S	45°
G	0°	U	3°
H	50°	V	17.5°
J	3°	Y	5°
K	15°		

N — Insert Clearance Angle

N	0°
B	5°
C	7°
P	11°
D	15°
E	20°
F	25°

R — Hand of Tool

R =
Right hand

L =
Left hand

N =
Neutral

Additional Information

C =

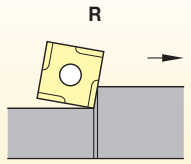
Deep pocket for ceramic insert

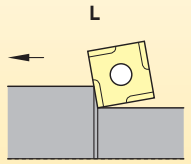
S =

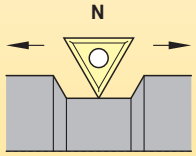
Single pocket locating wall

F =

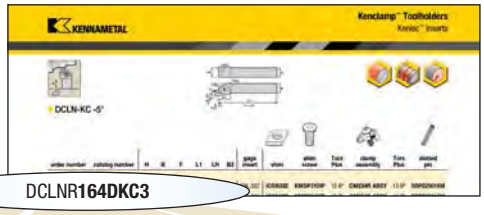
Straight shank, no offset



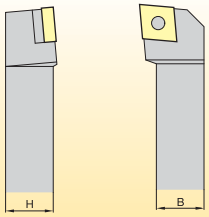




By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



1	6	4	D	KC	3
Shank Dimensions		Insert Size	Qualified Surface and Length	Additional Information	Insert Thickness *(optional)*



This two-digit number indicates the holder cross section.

- For shanks 5/8" square and larger, the number represents the number of sixteenths of width and height.
- For shanks under 5/8" square, the number of sixteenths of cross section are preceded by zero.
- For rectangular holders, the first digit represents the number of eighths of width "B" and the second digit the number of quarters of height "H," except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

06 = 0.375
08 = 0.500
10 = 0.625
12 = 0.750
16 = 1.000
20 = 1.250
24 = 1.500
32 = 2.000

Insert IC

Number of 1/8ths of "D"

A = Qualified back and end, 4" long
B = Qualified back and end, 4.5" long
C = Qualified back and end, 5" long
D = Qualified back and end, 6" long
E = Qualified back and end, 7" long
F = Qualified back and end, 8" long
G* = Qualified back and end, 5.5" long
H* = Qualified back and end, 5.625" long
I* = Qualified back and end, 3" long
J* = Qualified back and end, 5.3" long
K* = Qualified back and end, 14" long
L* = Qualified back and end, 6.8" long
M = Qualified front and end, 4" long
N = Qualified front and end, 4.5" long
P = Qualified front and end, 5" long
R = Qualified front and end, 6" long
S = Qualified front and end, 7" long
T = Qualified front and end, 8" long
U* = Qualified front and end, 5.5" long
V* = Qualified back and end, 3.5" long
W* = Qualified front and end, 3.5" long
Y* = Qualified back and end, 3.75" long
Z* = Qualified back and end, 3.250" long

* Kennametal standard only.

R =

Radial clearance for 4" minimum bore

S =

3.00 minimum bore

KC =

Kenclamp™

H4 =

Wedgelock™ clamping system

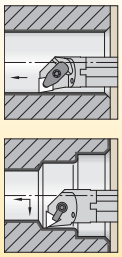
M.. =

TNT/MTS clamping system for ceramic and PcBN inserts

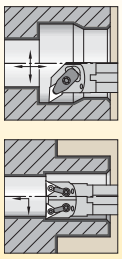
3 = .188"

4 = .250"

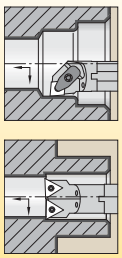
0° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	C 80°	Kenloc™	•			B69
		Screw-On	•		•	B196, B212
		Kenclamp™	•			B67
	T 60°	Kenloc	•			B139
		Kenclamp	•			B138
		Kendex™	•		•	B183
		Screw-On	•		•	B261, B271

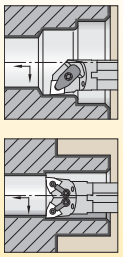
-3° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	D 55°	Kenloc	•		•	B93
		Kenclamp	•		•	B92
		Screw-On	•		•	B228, B234
		TNT	•		•	–
	V 35°	Kenloc	•		•	B154
		Screw-On	•		•	B285
	T 60°	Kenloc	•			B139
		Screw-On	•			–
	W 80°	Screw-On	•		•	B282

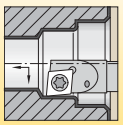
-5° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	C 80°	Kenloc	•		•	B69
		Kenclamp	•		•	B68
		Kendex	•		•	B391
		Screw-On	•		•	B197, B213
		TNT	•		•	B165

-5° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	T 60°	Kendex	•		•	B185
		Screw-On	•		•	B274
	D 55°	Screw-On		•		B262, B274
	V 35°	Screw-On	•		•	B284
	W 80°	Kenloc	•			–
		Screw-On	•		•	B289
		TNT	•		•	–

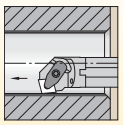
7° Lead Angle

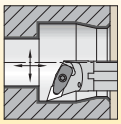
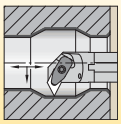
tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	C 80°	Screw-On	•		•	B204

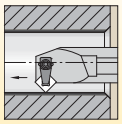
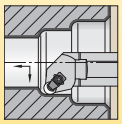
-10° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	V 35°	Screw-On	•		•	B286

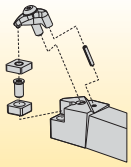
15° and -15° Lead Angle

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
	C 80°	Kenloc	•			B70
		Kenclamp	•			B67
	S 90°	Kenloc				B114
		Kenclamp	•			B113
		Kendex	•			B173
		TNT	•			–
	F 50° -15° lead angle	Screw-On	•		•	–

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
-17.5° Lead Angle						
	D 55°	Kenloc™	•		•	B92
		Kenclamp™	•		•	B91
	V 35°	Screw-On	•		•	B284
27.5° Lead Angle						
	D 55°	Kenloc	•		•	B92
		Kenclamp	•		•	B91

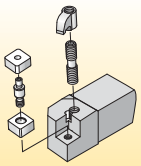
tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
45° Lead Angle						
	S 90°	Kenloc	•			–
	R	Kendex™	•		•	B388
		TNT	•		•	B391

Clamping Styles



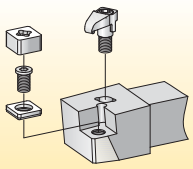
Kenclamp Style

- Uses Kenloc negative style inserts.
- Unique clamp design provides rigid clamping.
- Ensures insert repeatability and seating.
- Reduced chatter and improved tool life.



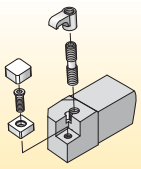
Kenloc Style

- Uses Kenloc negative style inserts.
- Lock pin and top clamp provide rigid clamping.
- Wide variety of insert styles may be used.
- Tools may be used with or without clamp.



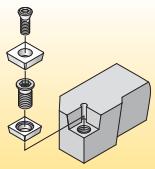
Top Notch™ Turning Style

- Proven superior system in holding ceramic inserts rigidly in turning and profiling operations.
- Uses standard insert sizes — 80°, 75°, 55°, square, and trigon.
- This system offers the added versatility of using optional hardware to hold standard Kendex and Kenloc inserts.



Kendex Style

- Uses Kendex inserts.
- Chipbreaker option available for ceramic inserts.
- Wide variety of insert styles may be used.

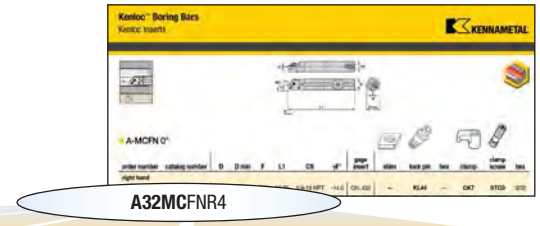


Screw-On Style

- Top clamping by screw for Screw-On inserts.

How Do Catalog Numbers Work?

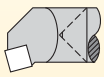
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

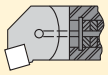


A — Bar Type

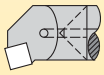
A
Steel bar with coolant

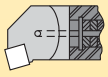
S
Steel bar without coolant

C 
Carbide bar

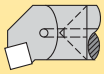
D 
DeVibrator bar with coolant

D
Tunable bar with coolant

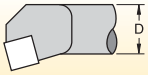
E 
Carbide bar with coolant

B 
DeVibrator

H
Interchangeable head

L 
Heavy metal bar with coolant

32 — Bar Diameter



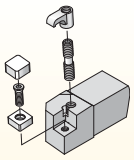
Inch:
A two-digit number indicates the bar diameter in 1/16" increments

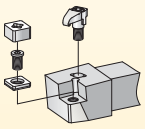
Bar Length**

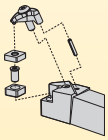
3	=	F
3.5	=	G
4	=	H
4.5	=	J
5	=	K
5.5	=	L
6	=	M
6.5	=	N
7	=	Q
8	=	R
10	=	S
12	=	T
14	=	U
16	=	V
18	=	W
20	=	Y

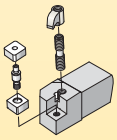
**Used only when more than one length is available or a special length is required.

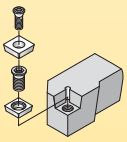
M — Insert Holding Method

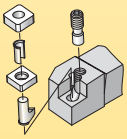
C 
Kendex™

N 
Top Notch™ Profiling

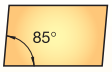
D 
Kenclamp™

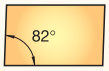
M 
Kenloc™

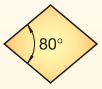
S 
Screw-On

P 
Kenlever™

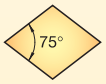
C — Insert Shape

A 

B 

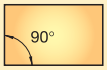
C 

D

E 

H

K

L 

M

O

P

R

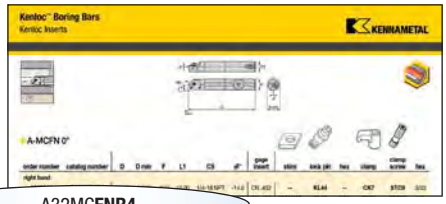
S

T

V

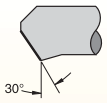
W

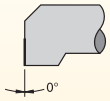
By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

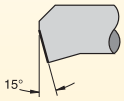


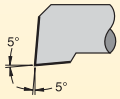
A32MC**FNR4**

F	**N**	**R**	**4**	
Bar Style or Lead Angle	Insert Clearance Angle	Hand of Tool	Insert Size	Additional Information

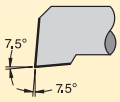
E 

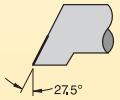
F 

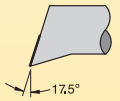
K 

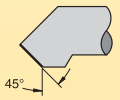
L 

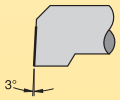
(E-style inserts)

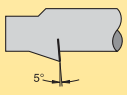
L 

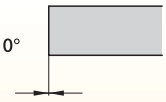
P 

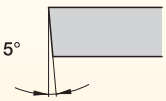
Q 

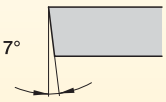
S 

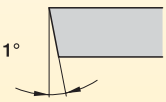
U 

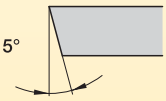
X 

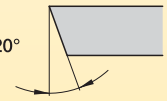
N 0° 

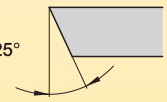
B 5° 

C 7° 

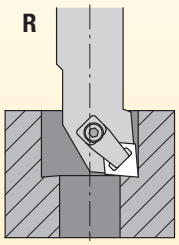
P 11° 

D 15° 

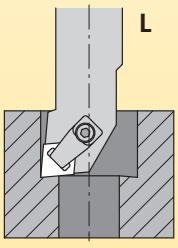
E 20° 

F 25° 

R =
Right-hand boring bar



L =
Left-hand boring bar



Insert IC
Number of 1/8ths of “D”

M... =

TNT/MTS clamping systems for ceramic and PcBN inserts

D =

Dual pocket

AP5 =

Axial positive

KC =

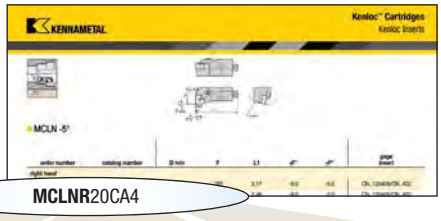
Kenclamp™

+ =

Insert Thickness

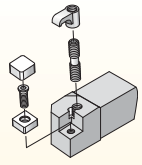
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



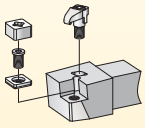
M — Insert Clamping System

C



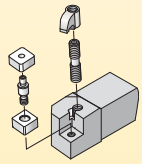
Kendex™

N



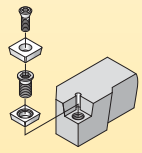
Top Notch™ Profiling

M



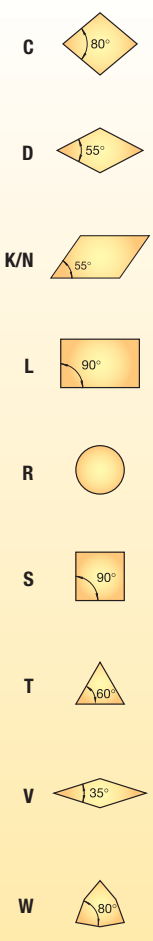
Kenloc™

S

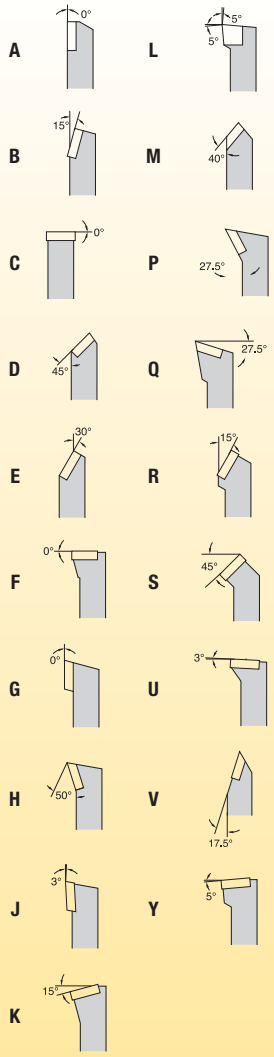


Screw-On

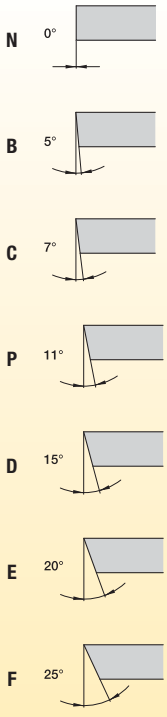
C — Insert Shape



L — Tool Style or Lead Angle



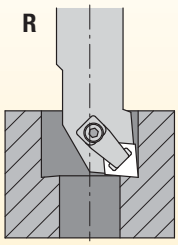
N — Insert Clearance Angle



R — Hand of Tool

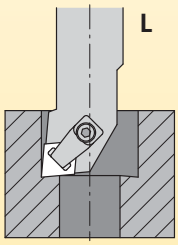
R =

Right-hand boring bar

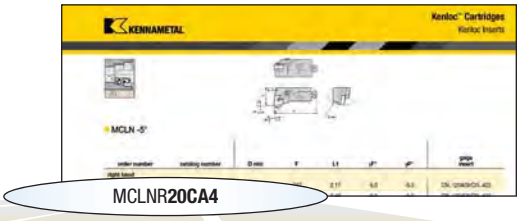


L =

Left-hand boring bar



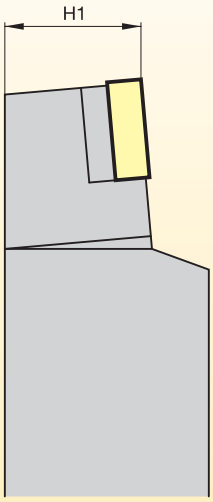
By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



20

Cartridge Size

H1 = Cutting edge height of cartridge, in inches



C

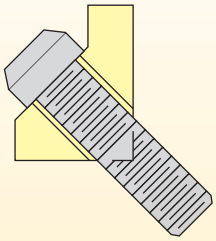
Identifying Code of Cartridge

C = Cartridge

A

Mounting Design of Cartridge

A = Angular acc. ISO 5611



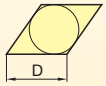
4

Insert Size

Insert IC
Number of 1/8ths of “D”

C

D



R

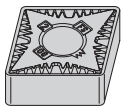
S

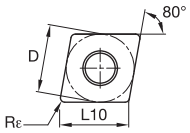
T

W

● first choice
○ alternate choice

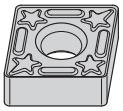
CNGG-FS

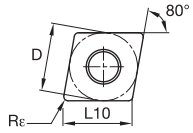




ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401FS	CNGG430FS	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402FS	CNGG4305FS	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CNGG120404FS	CNGG431FS	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNGG120408FS	CNGG432FS	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

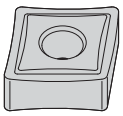
CNGG-LF

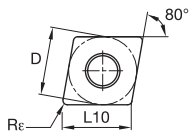




ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401LF	CNGG430LF	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402LF	CNGG4305LF	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120404LF	CNGG431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120408LF	CNGG432LF	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120412LF	CNGG433LF	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

CNGP



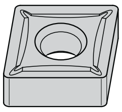


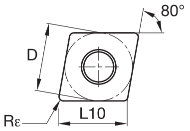
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120401	CNGP430	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120402	CNGP4305	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120404	CNGP431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–
CNGP120408	CNGP432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120412	CNGP433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
CNGP120416	CNGP434	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

NOTE: Indexable Inserts for P-clamping.

● first choice
○ alternate choice

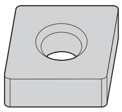
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

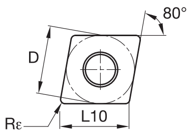




CNGP-K

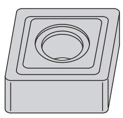
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120408K	CNGP432K	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNGP160612K	CNGP543K	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

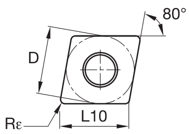




CNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMA120404	CNMA431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120408	CNMA432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMA120412	CNMA433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120416	CNMA434	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160608	CNMA542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160612	CNMA543	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160616	CNMA544	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190612	CNMA643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190616	CNMA644	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



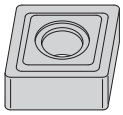


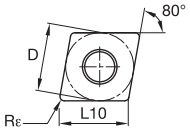
CNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404B	CNMG431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG120408	CNMG432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–
CNMG120412	CNMG433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG190612	CNMG643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CNMG190616	CNMG644	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG250924	CNMG866	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

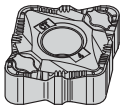
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

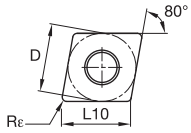




CNMG-33

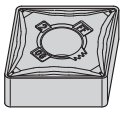
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG12040833	CNMG43233	12,70	1/2	12,90	.508	0,8	1/32

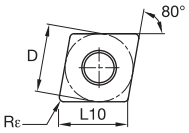




CNMG-CT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120408CT	CNMG432CT	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412CT	CNMG433CT	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416CT	CNMG434CT	12,70	1/2	12,90	.508	1,6	1/16

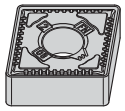


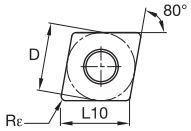


CNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG090304FF	CNMG321FF	9,53	3/8	9,67	.381	0,4	1/64
CNMG090308FF	CNMG322FF	9,53	3/8	9,67	.381	0,8	1/32
CNMG120404FF	CNMG431FF	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408FF	CNMG432FF	12,70	1/2	12,90	.508	0,8	1/32

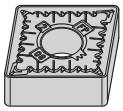
● first choice
○ alternate choice

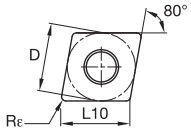




CNMG-FN

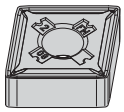
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FN	CNMG321FN	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG090308FN	CNMG322FN	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120402FN	CNMG4305FN	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120404FN	CNMG431FN	12,70	1/2	12,90	.508	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120408FN	CNMG432FN	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120412FN	CNMG433FN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120416FN	CNMG434FN	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

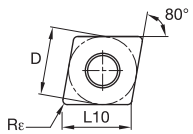




CNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FP	CNMG431FP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FP	CNMG432FP	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FP	CNMG433FP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–

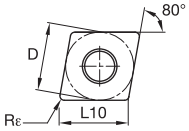




CNMG-FW

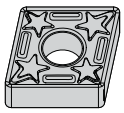
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FW	CNMG431FW	12,70	1/2	12,90	.508	0,4	1/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FW	CNMG432FW	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FW	CNMG433FW	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●

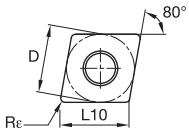
● first choice
○ alternate choice



CNMG-FM

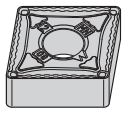
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P								●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●
M																○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K								○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																															●	●	●	●	●	●	●	
S																															●	●	●	●	●	●		
H																																						
CNMG120412FM	CNMG433FM	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

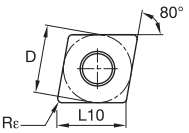




CNMG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120402LF	CNMG4305LF	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404LF	CNMG431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408LF	CNMG432LF	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



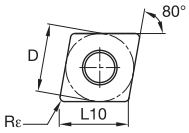


CNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304MN	CNMG321MN	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090308MN	CNMG322MN	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090312MN	CNMG323MN	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404MN	CNMG431MN	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MN	CNMG432MN	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120412MN	CNMG433MN	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MN	CNMG434MN	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MN	CNMG542MN	15,88	5/8	16,12	.635	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MN	CNMG543MN	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MN	CNMG544MN	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608MN	CNMG642MN	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MN	CNMG643MN	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MN	CNMG644MN	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190624MN	CNMG646MN	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

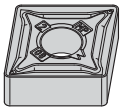
● first choice
○ alternate choice

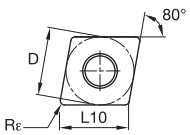
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																



CNMU-MN

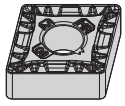
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120612MN	CNMU443MN	12,70	1/2	12,90	.508	1,2	3/64	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMU120616MN	CNMU444MN	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

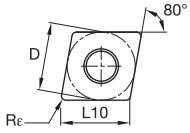




CNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090308MP	CNMG322MP	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	●	–	●	–	–	–
CNMG120404MP	CNMG431MP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120408MP	CNMG432MP	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	●	●	●	–	–
CNMG120412MP	CNMG433MP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG120416MP	CNMG434MP	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG160608MP	CNMG542MP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	●	–	●	–	–	–
CNMG160612MP	CNMG543MP	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	–
CNMG160616MP	CNMG544MP	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–
CNMG190608MP	CNMG642MP	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG190612MP	CNMG643MP	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	●	●	–	–	–
CNMG190616MP	CNMG644MP	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–

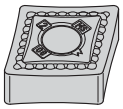


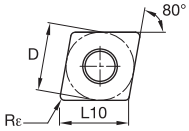


CNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404MR	CNMG431MR	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MR	CNMG432MR	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	–	●	–	–	●	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120412MR	CNMG433MR	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120416MR	CNMG434MR	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MR	CNMG542MR	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MR	CNMG543MR	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MR	CNMG544MR	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MR	CNMG643MR	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MR	CNMG644MR	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

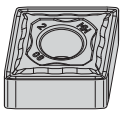


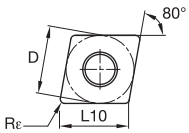


CNMG-MS

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●		
S																								●	●	●	●	●	●			
H																																

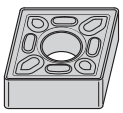
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120401MS	CNMG430MS	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG120402MS	CNMG4305MS	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG120404MS	CNMG431MS	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120408MS	CNMG432MS	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120412MS	CNMG433MS	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120416MS	CNMG434MS	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG160608MS	CNMG542MS	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG160612MS	CNMG543MS	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG190608MS	CNMG642MS	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG190612MS	CNMG643MS	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG190616MS	CNMG644MS	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

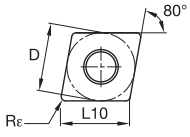




CNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MW	CNMG432MW	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMG120412MW	CNMG433MW	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

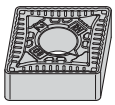


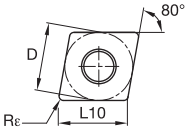


CNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404P	CNMG431P	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNMG120408P	CNMG432P	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	●	–	●	–	–	–
CNMG120412P	CNMG433P	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG190612P	CNMG643P	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

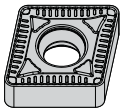


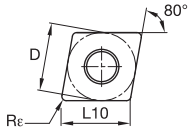


CNMG-RN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●		
S																									●	●	●	●	●	●			
H																																	

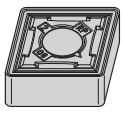
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408RN	CNMG432RN	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412RN	CNMG433RN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120416RN	CNMG434RN	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608RN	CNMG542RN	15,88	5/8	16,12	.635	0,8	1/32	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612RN	CNMG543RN	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG160616RN	CNMG544RN	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190608RN	CNMG642RN	19,05	3/4	19,34	.762	0,8	1/32	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612RN	CNMG643RN	19,05	3/4	19,34	.762	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616RN	CNMG644RN	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190624RN	CNMG646RN	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

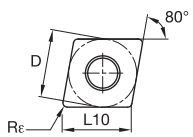




CNMU-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120412RN	CNMU433RN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



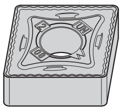


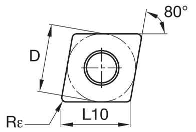
CNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404RP	CNMG431RP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
CNMG120408RP	CNMG432RP	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120412RP	CNMG433RP	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120416RP	CNMG434RP	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG160608RP	CNMG542RP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CNMG160612RP	CNMG543RP	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	–	●	●	●	–	●	–	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG160616RP	CNMG544RP	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	●	–	–	–	●	–	●	–	–
CNMG190612RP	CNMG643RP	19,05	3/4	19,34	.762	1,2	3/64	–	–	●	–	●	●	–	●	●	–	–	–	–	●	–	–	–	–	●	●	–	●	–	–	–	●	●	●	●	–	–
CNMG190616RP	CNMG644RP	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	–	–	●	●	–	–	–	–

● first choice
○ alternate choice

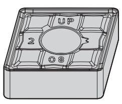
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

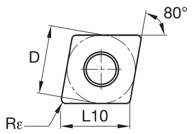




CNMG-UN

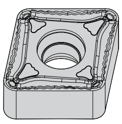
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404UN	CNMG431UN	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408UN	CNMG432UN	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412UN	CNMG433UN	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416UN	CNMG434UN	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608UN	CNMG542UN	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612UN	CNMG543UN	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616UN	CNMG544UN	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608UN	CNMG642UN	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612UN	CNMG643UN	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616UN	CNMG644UN	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

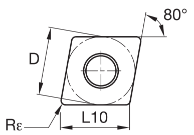




CNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404UP	CNMG431UP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG120408UP	CNMG432UP	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120412UP	CNMG433UP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
CNMG160608UP	CNMG542UP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
CNMG160612UP	CNMG543UP	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–
CNMG190612UP	CNMG643UP	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–
CNMG190616UP	CNMG644UP	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–



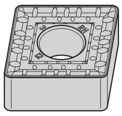


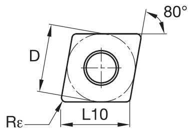
CNMM-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408MR	CNMM432MR	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612MR	CNMM543MR	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616MR	CNMM544MR	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616MR	CNMM644MR	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

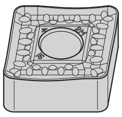
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

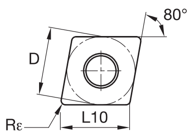




CNMM-RH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM190612RH	CNMM643RH	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RH	CNMM644RH	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RH	CNMM646RH	19,05	3/4	19,34	.762	2,4	3/32	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RH	CNMM866RH	25,40	1	25,79	1.015	2,4	3/32	–	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

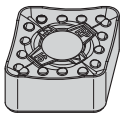


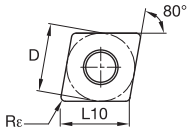


CNMM-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RM	CNMM432RM	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RM	CNMM433RM	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RM	CNMM543RM	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RM	CNMM544RM	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160624RM	CNMM546RM	15,88	5/8	16,12	.635	2,4	3/32	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RM	CNMM643RM	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RM	CNMM644RM	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RM	CNMM646RM	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RM	CNMM866RM	25,40	1	25,79	1.015	2,4	3/32	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

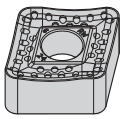
● first choice
○ alternate choice

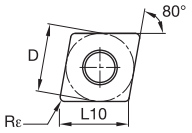




CNMM-RP

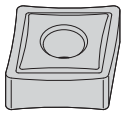
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RP	CNMM432RP	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RP	CNMM433RP	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120416RP	CNMM434RP	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160608RP	CNMM542RP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RP	CNMM543RP	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RP	CNMM544RP	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–
CNMM160624RP	CNMM546RP	15,88	5/8	16,12	.635	2,4	3/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RP	CNMM643RP	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RP	CNMM644RP	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RP	CNMM646RP	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RP	CNMM866RP	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

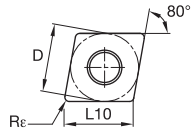




CNMM-RW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM190624RW	CNMM646RW	19,05	3/4	19,34	.762	2,4	3/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RW	CNMM866RW	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



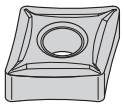


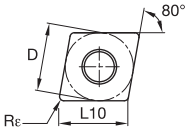
CNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404	CNMP431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120408	CNMP432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120412	CNMP433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMP160608	CNMP542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP190612	CNMP643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● first choice
○ alternate choice

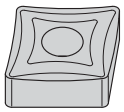
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

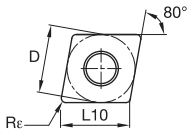




CNMP-K

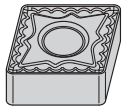
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404K	CNMP431K	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP120408K	CNMP432K	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

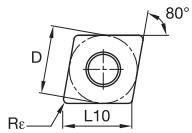




CNMS

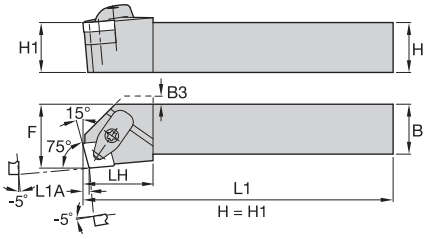
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMS120408	CNMS432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS160608	CNMS542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CNMS190608	CNMS642	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS190612	CNMS643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

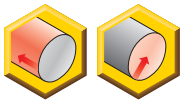




CNMG-MG

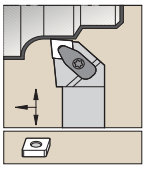
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MG	CNMG432MG	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120412MG	CNMG433MG	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MG	CNMG434MG	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MG	CNMG544MG	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MG	CNMG643MG	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

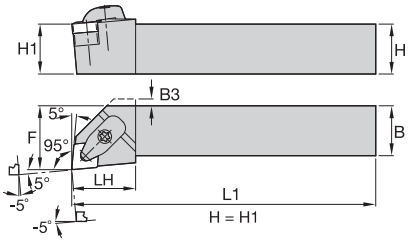




DCKN-KC 15°

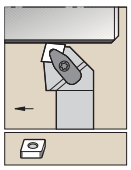
order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand															
2273073	**DCKNR124BKC3**	.75	.75	1.000	4.50	1.25	.122	.22	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273063	**DCKNR164CKC3**	1.00	1.00	1.250	5.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273004	**DCKNR164DKC3**	1.00	1.00	1.250	5.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273006	**DCKNR204DKC3**	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273059	**DCKNR205DKC4**	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273061	**DCKNR206DKC4**	1.25	1.25	1.500	6.00	1.25	.150	—	CN..543	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	15 IP	**SSP025016M**
left hand															
2273005	**DCKNL164DKC3**	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273007	**DCKNL204DKC3**	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

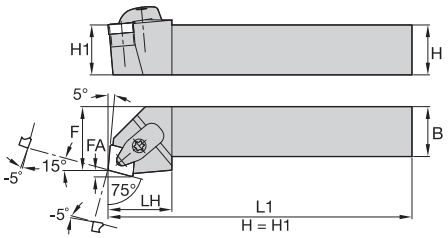


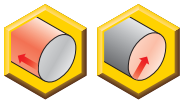


DCLN-KC -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2417292	**DCLNR123BKC3**	.75	.75	1.000	4.50	1.12	.06	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2417294	**DCLNR163DKC3**	1.00	1.00	1.250	6.00	1.12	—	CN..332	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875137	**DCLNR124BKC3**	.75	.75	1.000	4.50	1.25	.15	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875134	**DCLNR164CKC3**	1.00	1.00	1.250	5.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1874862	**DCLNR164DKC3**	1.00	1.00	1.250	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875141	**DCLNR204DKC3**	1.25	1.25	1.500	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875157	**DCLNR244DKC3**	1.50	1.50	2.000	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875161	**DCLNR165CKC4**	1.00	1.00	1.250	5.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875145	**DCLNR165DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875150	**DCLNR205DKC4**	1.25	1.25	1.500	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1908809	**DCLNR245DKC4**	1.50	1.50	2.000	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273008	**DCLNR166DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273010	**DCLNR206DKC4**	1.25	1.25	1.500	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273012	**DCLNR246DKC4**	1.50	1.50	2.000	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
left hand														
2417293	**DCLNL123BKC3**	.75	.75	1.000	4.50	1.12	.06	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2417295	**DCLNL163DKC3**	1.00	1.00	1.250	6.00	1.12	—	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875142	**DCLNL124BKC3**	.75	.75	1.000	4.50	1.25	.15	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875135	**DCLNL164CKC3**	1.00	1.00	1.250	5.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875133	**DCLNL164DKC3**	1.00	1.00	1.250	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875146	**DCLNL204DKC3**	1.25	1.25	1.500	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875160	**DCLNL244DKC3**	1.50	1.50	2.000	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875173	**DCLNL165CKC4**	1.00	1.00	1.250	5.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875147	**DCLNL165DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875153	**DCLNL205DKC4**	1.25	1.25	1.500	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1908811	**DCLNL245DKC4**	1.50	1.50	2.000	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273011	**DCLNL206DKC4**	1.25	1.25	1.500	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273013	**DCLNL246DKC4**	1.50	1.50	2.000	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**



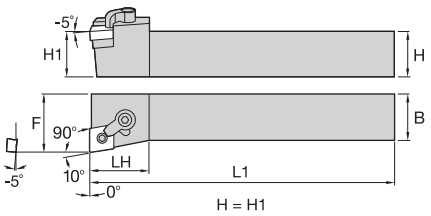


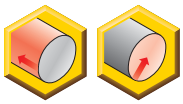


DCRN-KC 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1875164	**DCRNR124BKC3**	.75	.75	.878	4.50	1.25	.12	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875156	**DCRNR164DKC3**	1.00	1.00	1.128	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875165	**DCRNR204DKC3**	1.25	1.25	1.378	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875180	**DCRNR245DKC4**	1.50	1.50	1.851	6.00	1.38	.15	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273081	**DCRNR206DKC4**	1.25	1.25	1.501	6.00	1.38	.18	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
left hand														
1875159	**DCRNL164DKC3**	1.00	1.00	1.128	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875169	**DCRNL204DKC3**	1.25	1.25	1.378	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

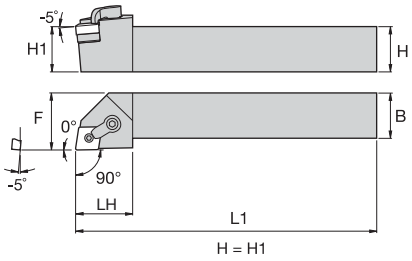
Kenloc Toolholders

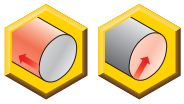




MCFN 0°

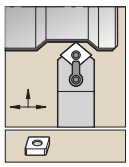
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096032	**MCFNR124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096033	**MCFNR164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096034	**MCFNR164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096037	**MCFNL164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

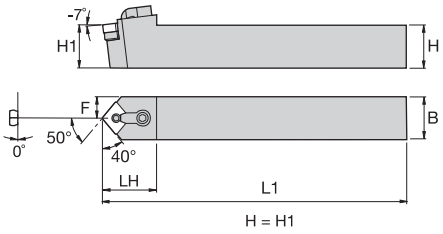




MCGN 0°

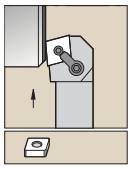
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096110	**MCGNR124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096111	**MCGNR164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096112	**MCGNR164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096113	**MCGNL124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096114	**MCGNL164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096115	**MCGNL164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

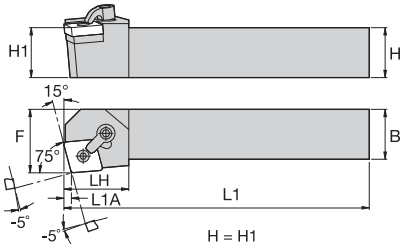


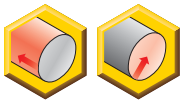


MCHN 50°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1808120	**MCHNN164C**	1.00	1.00	.500	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1808121	**MCHNN205D**	1.25	1.25	.625	6.00	1.38	CN..543	**ICSN533**	**KL58**	1/8	**CK21**	**STC20**	1/8
1808122	**MCHNN246D**	1.50	1.50	.750	6.00	1.60	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

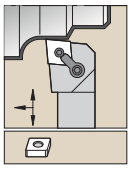


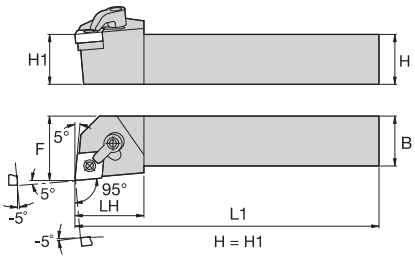




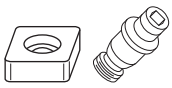
MCKN 15°

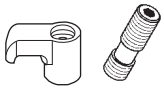
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096132	**MCKNR124B**	.75	.75	1.000	4.50	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096133	**MCKNR164C**	1.00	1.00	1.250	5.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096134	**MCKNR164D**	1.00	1.00	1.250	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1339151	**MCKNR165D**	1.00	1.00	1.250	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096135	**MCKNR204D**	1.25	1.25	1.500	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808138	**MCKNR205D**	1.25	1.25	1.500	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096136	**MCKNR206D**	1.25	1.25	1.500	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808139	**MCKNR245D**	1.50	1.50	2.000	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808140	**MCKNR246D**	1.50	1.50	2.000	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1096137	**MCKNL124B**	.75	.75	1.000	4.50	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096138	**MCKNL164C**	1.00	1.00	1.250	5.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096139	**MCKNL164D**	1.00	1.00	1.250	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808134	**MCKNL165D**	1.00	1.00	1.250	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096140	**MCKNL204D**	1.25	1.25	1.500	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808135	**MCKNL205D**	1.25	1.25	1.500	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096141	**MCKNL206D**	1.25	1.25	1.500	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1863283	**MCKNL245D**	1.50	1.50	2.000	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1843886	**MCKNL246D**	1.50	1.50	2.000	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32





MCLN -5°



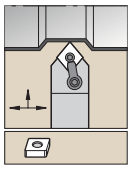


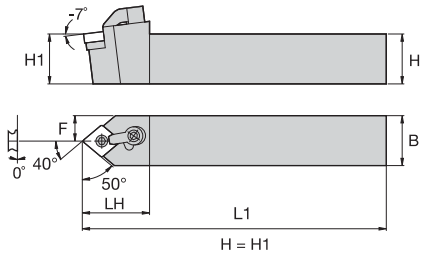
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096086	**MCLNR083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096087	**MCLNR103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096066	**MCLNR123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808149	**MCLNR124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096067	**MCLNR124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096068	**MCLNR163C**	1.00	1.00	1.250	5.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096069	**MCLNR163D**	1.00	1.00	1.250	6.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1083005	**MCLNR164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096070	**MCLNR164D**	1.00	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096071	**MCLNR165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096072	**MCLNR165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808150	**MCLNR166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096073	**MCLNR166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096075	**MCLNR204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096076	**MCLNR205D**	1.25	1.25	1.500	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096077	**MCLNR206D**	1.25	1.25	1.500	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096079	**MCLNR244D**	1.50	1.50	2.000	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808151	**MCLNR245D**	1.50	1.50	2.000	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096080	**MCLNR245E**	1.50	1.50	2.000	7.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096081	**MCLNR246D**	1.50	1.50	2.000	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096082	**MCLNR246E**	1.50	1.50	2.000	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808152	**MCLNR248E**	1.50	1.50	2.000	7.00	1.49	CN..866	**ICSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808153	**MCLNR326F**	2.00	2.00	2.500	8.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096083	**MCLNR854D**	1.25	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096084	**MCLNR856D**	1.25	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096085	**MCLNR866E**	1.50	1.00	1.250	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand													
1096108	**MCLNL083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096109	**MCLNL103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096088	**MCLNL123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808143	**MCLNL124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096089	**MCLNL124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1016432	**MCLNL164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096092	**MCLNL164D**	1.00	1.00	1.250	6.00	1.20	CNMA432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096093	**MCLNL165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096094	**MCLNL165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808144	**MCLNL166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096095	**MCLNL166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096097	**MCLNL204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

(continued)

(MCLN -5° — continued)

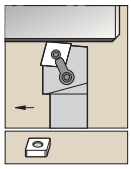
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096101	**MCLNL244D**	1.50	1.50	2.000	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808145	**MCLNL245D**	1.50	1.50	2.000	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096102	**MCLNL245E**	1.50	1.50	2.000	7.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096103	**MCLNL246D**	1.50	1.50	2.000	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096104	**MCLNL246E**	1.50	1.50	2.000	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808146	**MCLNL248E**	1.50	1.50	2.000	7.00	1.49	CN..866	**ICSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808147	**MCLNL326F**	2.00	2.00	2.500	8.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096105	**MCLNL854D**	1.25	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096107	**MCLNL866E**	1.50	1.00	1.250	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

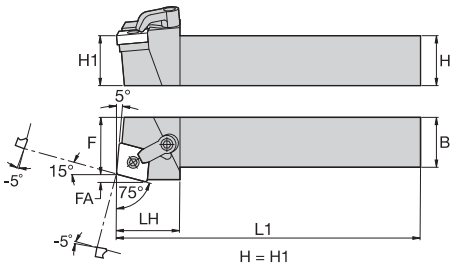


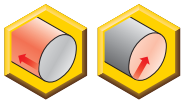


MCMN 40°

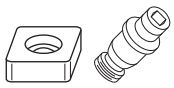
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096142	**MCMNN124B**	.75	.75	.375	4.50	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096143	**MCMNN164C**	1.00	1.00	.500	5.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096144	**MCMNN164D**	1.00	1.00	.500	6.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096146	**MCMNN204D**	1.25	1.25	.625	6.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096145	**MCMNN166D**	1.00	1.00	.500	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096147	**MCMNN206D**	1.25	1.25	.625	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808156	**MCMNN246D**	1.50	1.50	.750	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808157	**MCMNN246E**	1.50	1.50	.750	7.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

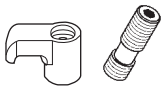




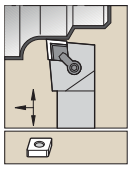


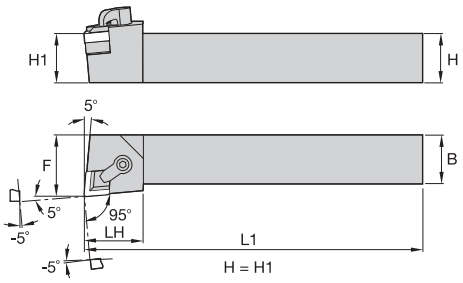
MCRN 15°





order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096116	MCRNR124B	.75	.75	.751	4.50	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096117	MCRNR164C	1.00	1.00	1.251	5.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096118	MCRNR164D	1.00	1.00	1.251	6.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096119	MCRNR165D	1.00	1.00	1.251	6.00	1.34	.15	CN..543	ICSN533	KL58	1/8	CK9	STC4	5/32
1096120	MCRNR166D	1.00	1.00	1.251	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1096121	MCRNR204D	1.25	1.25	1.500	6.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1808163	MCRNR205D	1.25	1.25	1.501	6.00	1.34	.15	CN..543	ICSN533	KL58	1/8	CK9	STC4	5/32
1096122	MCRNR206D	1.25	1.25	1.501	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1808165	MCRNR246D	1.50	1.50	2.001	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1096123	MCRNR246E	1.50	1.50	2.001	7.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
left hand														
1096124	MCRNL124B	.75	.75	.751	4.50	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096125	MCRNL164C	1.00	1.00	1.251	5.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096126	MCRNL164D	1.00	1.00	1.251	6.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1096127	MCRNL165D	1.00	1.00	1.251	6.00	1.34	.15	CN..543	ICSN533	KL58	1/8	CK9	STC4	5/32
1096128	MCRNL166D	1.00	1.00	1.251	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1096129	MCRNL204D	1.25	1.25	1.500	6.00	1.24	.12	CN..432	ICSN433	KL46	3/32	CK9	STC4	5/32
1808160	MCRNL205D	1.25	1.25	1.501	6.00	1.34	.15	CN..543	ICSN533	KL58	1/8	CK9	STC4	5/32
1096130	MCRNL206D	1.25	1.25	1.501	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1808162	MCRNL246D	1.50	1.50	2.001	6.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32
1096131	MCRNL246E	1.50	1.50	2.001	7.00	1.49	.18	CN..643	ICSN633	KL68	9/64	CK12	STC4	5/32

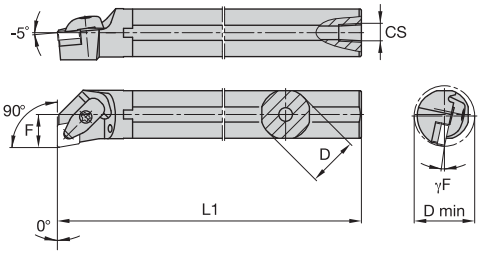




MCLN-C -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096643	**MCLNRC164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN442**	**KL46L**	3/32	**CK21**	**STC20**	1/8

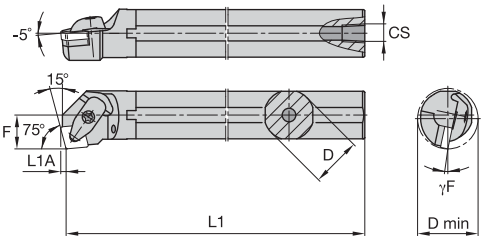
Steel shank with through coolant.



A-DCFN-KC 0°

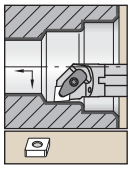
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408503	**A16TDCFNR4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	—	—	—	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408505	**A24UDCFNR4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

Steel shank with through coolant.

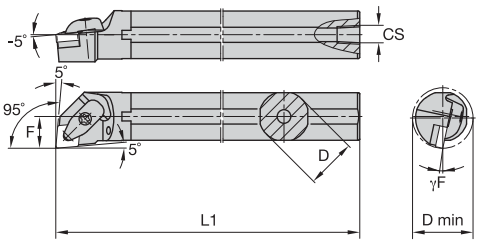


A-DCKN-KC 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
left hand															
2408487	**A32VDCKNL4KC3**	2.000	2.400	1.281	16.00	—	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408488	**A32VDCKNL5KC4**	2.000	2.400	1.281	16.00	.15	1/4-18 NPT	-10.0	CN..543	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP

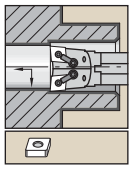


Steel shank with through coolant.

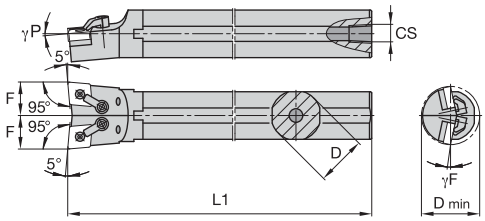


A-DCLN-KC -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408517	**A16TDCLNR3KC2**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408518	**A16TDCLNR4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408519	**A20UDCLNR4KC3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP4S15IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408520	**A24UDCLNR4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408521	**A24UDCLNR5KC4**	1.500	1.760	.890	14.00	1/4-18 NPT	-14.0	CN..543	**ICSN533**	**KMSP5S15IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP
2408522	**A28UDCLNR4KC3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408523	**A32VDCLNR4KC3**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408524	**A32VDCLNR5KC4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP
2408526	**A40VDCLNR4KC3**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408527	**A40VDCLNR6KC4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP
left hand														
2408507	**A16TDCLNL4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408508	**A20UDCLNL4KC3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP4S15IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408509	**A24UDCLNL4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408511	**A28UDCLNL4KC3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408512	**A32VDCLNL4KC3**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408514	**A32VDCLNL6KC4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP
2408515	**A40VDCLNL4KC3**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408516	**A40VDCLNL6KC4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP



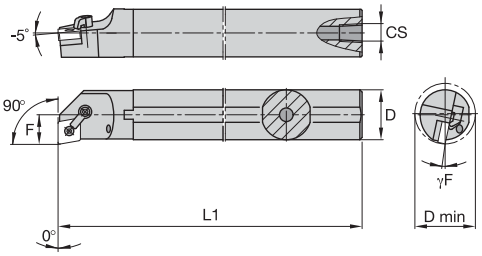
Steel shank with through coolant.



A-MCLN-D -5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096369	**A16MCLNR4D**	1.000	1.625	.640	12.00	1/4-18 NPT	-10.0	-5.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1096370	**A20MCLNR4D**	1.250	1.875	.765	14.00	1/4-18 NPT	-10.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096371	**A24MCLNR4D**	1.500	2.125	.890	14.00	1/4-18 NPT	-10.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096372	**A32MCLNR4D**	2.000	2.592	1.281	16.00	1/4-18 NPT	-12.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096373	**A32MCLNR5D**	2.000	2.592	1.281	16.00	1/4-18 NPT	-12.0	-5.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

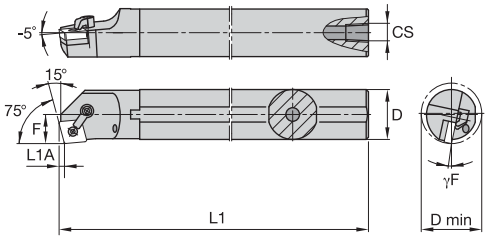
Steel shank with through coolant.



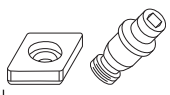
A-MCFN 0°

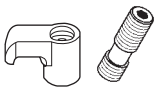
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1808110	**A16MCFNR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1808112	**A20MCFNR4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1808206	**A24MCFNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
left hand														
1808109	**A16TMCFNL4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1808205	**A24MCFNL4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8

Steel shank with through coolant.

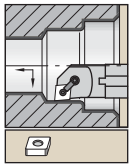


A-MCKN 15°

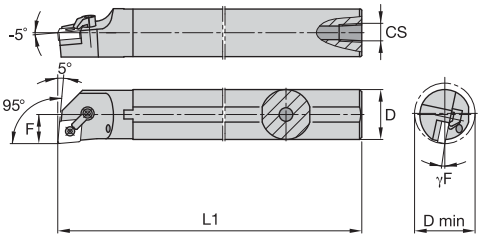




order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096440	**A20MCKNR4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096441	**A24UMCKNR4**	1.500	1.770	.885	14.00	.12	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808212	**A32MCKNR4**	2.000	2.400	1.281	16.00	.12	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand															
1096442	**A20MCKNL4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096443	**A24MCKNL4**	1.500	1.760	.890	14.00	.12	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

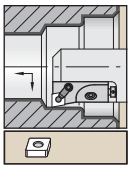


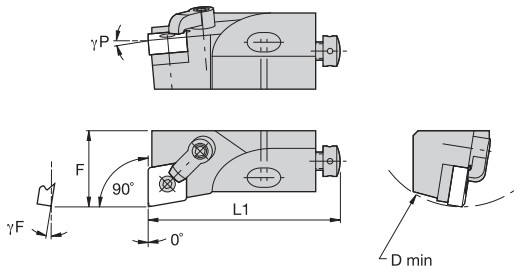
Steel shank with through coolant.



A-MCLN -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096415	**A16MCLNR3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**—**	**KL33**	5/64	**CK6**	**STC5**	3/32
1016456	**A16TMCLNR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	3/32	**CK20**	**STC11**	1/8
1096418	**A20UMCLNR4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096422	**A24MCLNR5**	1.500	2.000	.890	14.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096419	**A24UMCLNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096420	**A28UMCLNR4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096423	**A32MCLNR5**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096421	**A32VMCLNR4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096424	**A32VMCLNR6**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096367	**A40VMCLNR4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CNMA432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808228	**A40VMCLNR5**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096426	**A40VMCLNR6**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1096427	**A16MCLNL3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**—**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096430	**A16TMCLNL4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	3/32	**CK20**	**STC11**	1/8
1096431	**A20UMCLNL4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096435	**A24MCLNL5**	1.500	2.000	.890	14.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096432	**A24UMCLNL4**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096433	**A28UMCLNL4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096436	**A32MCLNL5**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096434	**A32VMCLNL4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096437	**A32VMCLNL6**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096368	**A40MCLNL4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808227	**A40VMCLNL5**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

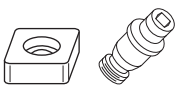
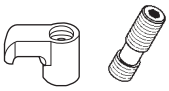




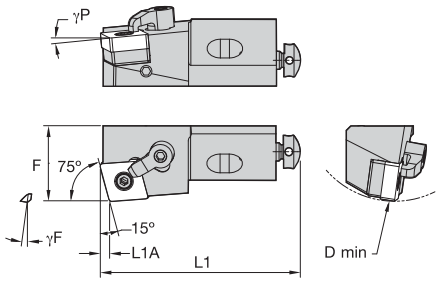
MCFN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3331146	**MCFNR10CA3**	1.575	.551	1.97	-9.0	-9.0	CN..090308/CN..322
3346236	**MCFNR12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
2074433	**MCFNR16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330195	**MCFNR20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408\CN..432
left hand							
3331145	**MCFNL10CA3**	1.575	.551	1.97	-9.0	-9.0	CN..090308/CN..322
1906272	**MCFNL12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432

Spare Parts

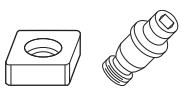
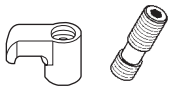
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**
2.756	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**

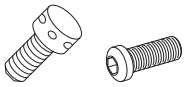


MCKN 15°

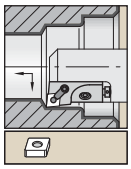
order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
3346238	**MCKNR12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	CN..120408/CN..432
3330222	**MCKNR16CA4**	2.362	.984	2.48	.12	-9.0	-5.0	CN..120408/CN..432
left hand								
3346237	**MCKNL12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	CN..120408/CN..432

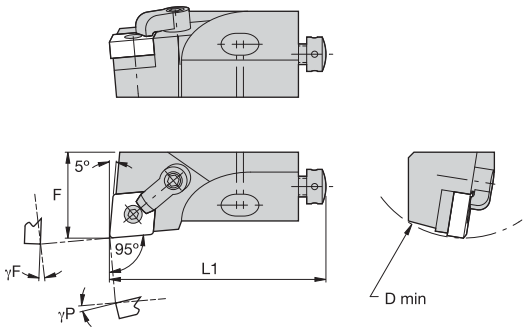
Spare Parts



D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



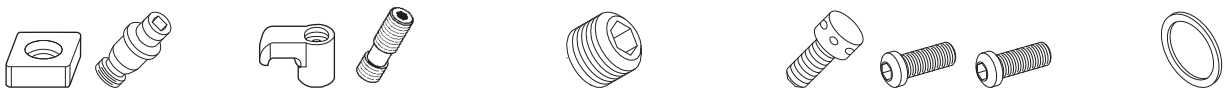


MCLN -5°

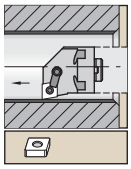
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1100493	**MCLNR12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
1282100	**MCLNR16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330197	**MCLNR20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408/CN..432
3332803	**MCLNR25CA4**	3.937	1.260	3.94	-9.0	-5.0	CN..120408/CN..432
3332804	**MCLNR25CA5**	3.937	1.260	3.94	-9.0	-5.0	CN..160612/CN..543
3332805	**MCLNR25CA6**	3.937	1.260	3.94	-9.0	-5.0	CN..190612/CN..643
left hand							
2077947	**MCLNL12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
3330273	**MCLNL16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330196	**MCLNL20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408/CN..432
3332362	**MCLNL25CA6**	3.937	1.260	3.94	-9.0	-5.0	CN..190612/CN..643

NOTE: Select spare parts based off of D min and insert size selected.

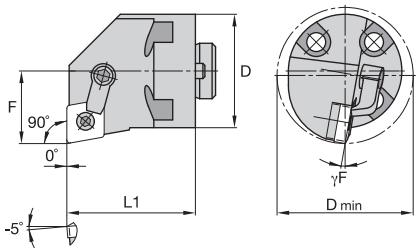
Spare Parts



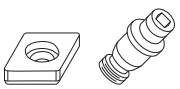
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	—	5 mm	**CSWM 080 050**
3.937	**ICSN432**	**KLM46**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**
3.937	**ICSN533**	**KLM58**	3 mm	**CKM41**	**STCM20**	3 mm	**KUAM26**	3 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**
3.937	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**

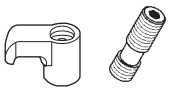


With through coolant.

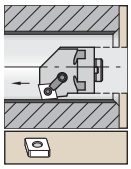


H-MCFN 0°

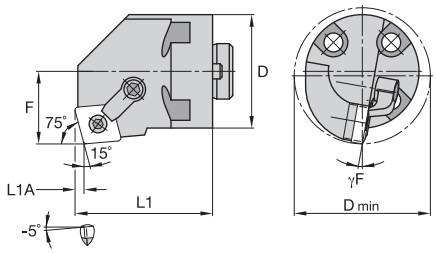




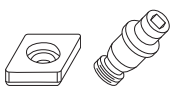
order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808097	**H20MCFNR4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808100	**H24MCFNR4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808102	**H32MCFNR5**	2.000	2.400	1.281	1.63	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808531	**H40MCFNR6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

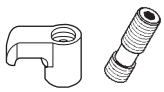


With through coolant.

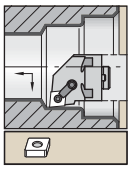


H-MCKN 15°

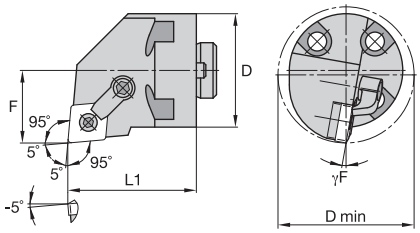




order number	catalog number	D	D min	F	L1	L1A	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1095369	**H24MCKNR4**	1.500	1.760	.890	1.63	.12	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095464	**H32MCKNR4**	2.000	2.400	1.281	1.63	.12	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095540	**H40MCKNR5**	2.500	3.030	1.531	1.63	.15	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095291	**H40MCKNR6**	2.500	3.030	1.531	1.63	.18	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1095541	**H40MCKNL5**	2.500	3.030	1.531	1.63	.15	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32



With through coolant.

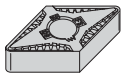


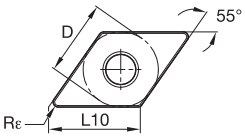
H-MCLN -5°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095308	**H16MCLNR4**	1.000	1.200	.640	1.63	-14.0	CN..432	**–**	**KL44**	3/32	**CK7**	**STC9**	3/32
1095325	**H20MCLNR4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095377	**H24MCLNR4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095379	**H24MCLNR5**	1.500	1.760	.890	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095429	**H28MCLNR4**	1.750	2.010	1.015	1.63	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095469	**H32MCLNR4**	2.000	2.400	1.281	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095474	**H32MCLNR5**	2.000	2.400	1.281	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095476	**H32MCLNR6**	2.000	2.400	1.281	1.63	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
2384973	**H40MCLNR4**	2.500	3.030	1.531	1.63	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095548	**H40MCLNR5**	2.500	3.030	1.531	1.63	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095550	**H40MCLNR6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand													
1095309	**H16MCLNL4**	1.000	1.200	.640	1.63	-14.0	CN..432	**–**	**KL44**	3/32	**CK7**	**STC9**	3/32
1095326	**H20MCLNL4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095378	**H24MCLNL4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095380	**H24MCLNL5**	1.500	1.760	.890	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095430	**H28MCLNL4**	1.750	2.010	1.015	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095472	**H32MCLNL4**	2.000	2.400	1.281	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095475	**H32MCLNL5**	2.000	2.400	1.281	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095477	**H32MCLNL6**	2.000	2.400	1.281	1.63	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
2384961	**H40MCLNL4**	2.500	3.030	1.531	1.63	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095549	**H40MCLNL5**	2.500	3.030	1.531	1.63	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095551	**H40MCLNL6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

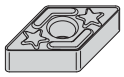


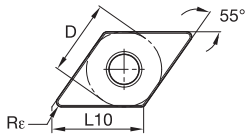


DNGG-FS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGG110402FS	DNGG3305FS	9,53	3/8	11,63	.458	0,2	.008
DNGG110404FS	DNGG331FS	9,53	3/8	11,63	.458	0,4	1/64
DNGG110408FS	DNGG332FS	9,53	3/8	11,63	.458	0,8	1/32
DNGG150401FS	DNGG430FS	12,70	1/2	15,50	.610	0,1	.004
DNGG150402FS	DNGG4305FS	12,70	1/2	15,50	.610	0,2	.008
DNGG150404FS	DNGG431FS	12,70	1/2	15,50	.610	0,4	1/64
DNGG150604FS	DNGG441FS	12,70	1/2	15,50	.610	0,4	1/64
DNGG150408FS	DNGG432FS	12,70	1/2	15,50	.610	0,8	1/32
DNGG150608FS	DNGG442FS	12,70	1/2	15,50	.610	0,8	1/32
DNGG150412FS	DNGG433FS	12,70	1/2	15,50	.610	1,2	3/64

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG150402FS	DNGG4305FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404FS	DNGG431FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150604FS	DNGG441FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150408FS	DNGG432FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNGG150608FS	DNGG442FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150412FS	DNGG433FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

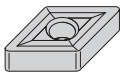


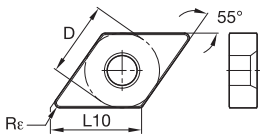


DNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGG150402LF	DNGG4305LF	12,70	1/2	15,50	.610	0,2	.008
DNGG150404LF	DNGG431LF	12,70	1/2	15,50	.610	0,4	1/64
DNGG150408LF	DNGG432LF	12,70	1/2	15,50	.610	0,8	1/32

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG150402LF	DNGG4305LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404LF	DNGG431LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150408LF	DNGG432LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–



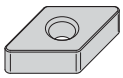


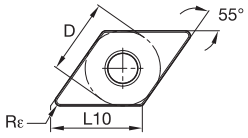
DNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGP150401	DNGP430	12,70	1/2	15,50	.610	0,1	.004
DNGP150402	DNGP4305	12,70	1/2	15,50	.610	0,2	.008
DNGP150404	DNGP431	12,70	1/2	15,50	.610	0,4	1/64
DNGP150604	DNGP441	12,70	1/2	15,50	.610	0,4	1/64
DNGP150408	DNGP432	12,70	1/2	15,50	.610	0,8	1/32
DNGP150608	DNGP442	12,70	1/2	15,50	.610	0,8	1/32

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGP150401	DNGP430	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DNGP150402	DNGP4305	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
DNGP150404	DNGP431	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150604	DNGP441	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–
DNGP150408	DNGP432	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150608	DNGP442	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

● first choice
○ alternate choice

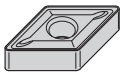


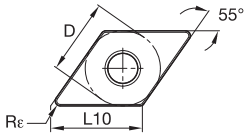


DNMA

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

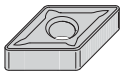
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																											
DNMA110408	**DNMA332**	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150408	**DNMA432**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–
DNMA150608	**DNMA442**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–
DNMA150412	**DNMA433**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–
DNMA150612	**DNMA443**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150416	**DNMA434**	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

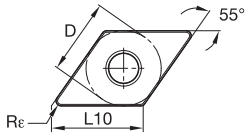




DNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																											
DNMG150408B	**DNMG432**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

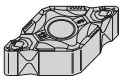


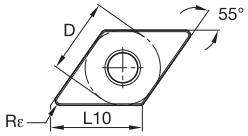


DNMG-33

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																											
DNMG11040433	**DNMG33133**	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG11040833	**DNMG33233**	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060433	**DNMG44133**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060833	**DNMG44233**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

● first choice
○ alternate choice



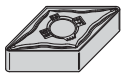


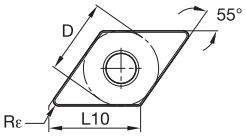
DNMG-CT

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110412CT	DNMG333CT	9,53	3/8	11,62	.458	1,2	3/64
DNMG110408CT	DNMG332CT	9,53	3/8	11,63	.458	0,8	1/32
DNMG150604CT	DNMG441CT	12,70	1/2	15,50	.610	0,3	.013
DNMG150404CT	DNMG431CT	12,70	1/2	15,50	.610	0,4	1/64
DNMG150408CT	DNMG432CT	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608CT	DNMG442CT	12,70	1/2	15,50	.610	0,8	1/32
DNMG150412CT	DNMG433CT	12,70	1/2	15,50	.610	1,2	3/64
DNMG150612CT	DNMG443CT	12,70	1/2	15,50	.610	1,2	3/64

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

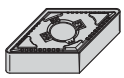


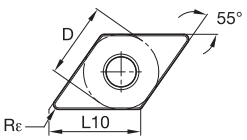


DNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110404FF	DNMG331FF	9,53	3/8	11,63	.458	0,4	1/64
DNMG110408FF	DNMG332FF	9,53	3/8	11,63	.458	0,8	1/32
DNMG150404FF	DNMG431FF	12,70	1/2	15,50	.610	0,4	1/64
DNMG150604FF	DNMG441FF	12,70	1/2	15,50	.610	0,4	1/64
DNMG150408FF	DNMG432FF	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608FF	DNMG442FF	12,70	1/2	15,50	.610	0,8	1/32

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FF	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG110408FF	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150404FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FF	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FF	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FF	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●



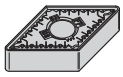


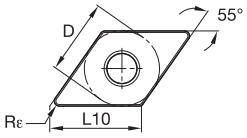
DNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110404FN	DNMG331FN	9,53	3/8	11,63	.458	0,4	1/64
DNMG110408FN	DNMG332FN	9,53	3/8	11,63	.458	0,8	1/32
DNMG110412FN	DNMG333FN	9,53	3/8	11,63	.458	1,2	3/64
DNMG150404FN	DNMG431FN	12,70	1/2	15,50	.610	0,4	1/64
DNMG150604FN	DNMG441FN	12,70	1/2	15,50	.610	0,4	1/64
DNMG150408FN	DNMG432FN	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608FN	DNMG442FN	12,70	1/2	15,50	.610	0,8	1/32
DNMG150412FN	DNMG433FN	12,70	1/2	15,50	.610	1,2	3/64
DNMG150612FN	DNMG443FN	12,70	1/2	15,50	.610	1,2	3/64

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FN	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110408FN	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110412FN	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404FN	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150604FN	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150408FN	–	●	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
DNMG150608FN	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150412FN	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150612FN	–	●	●	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

● first choice
○ alternate choice

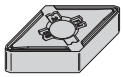


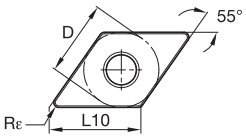


DNMG-FP

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FP	DNMG331FP	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	–
DNMG110408FP	DNMG332FP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	●
DNMG150404FP	DNMG431FP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FP	DNMG441FP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408FP	DNMG432FP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FP	DNMG442FP	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150412FP	DNMG433FP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150612FP	DNMG443FP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●

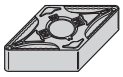


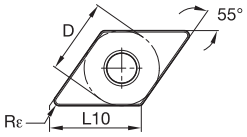


DNMG-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FW	DNMG331FW	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG110408FW	DNMG332FW	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150404FW	DNMG431FW	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FW	DNMG432FW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150604FW	DNMG441FW	12,70	1/2	15,50	.610	0,4	1/64	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150608FW	DNMG442FW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

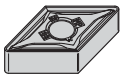


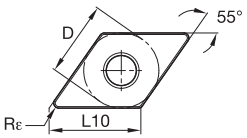


DNMG-MN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
		mm	in	mm	in	mm	in																														
DNMG110404MN	DNMG331MN	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408MN	DNMG332MN	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412MN	DNMG333MN	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MN	DNMG431MN	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604MN	DNMG441MN	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MN	DNMG432MN	12,70	1/2	15,50	.610	0,8	1/32	●	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMG150608MN	DNMG442MN	12,70	1/2	15,50	.610	0,8	1/32	●	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412MN	DNMG433MN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MN	DNMG443MN	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MN	DNMG444MN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612MN	DNMG543MN	15,88	5/8	19,38	.763	1,2	3/64	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

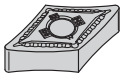


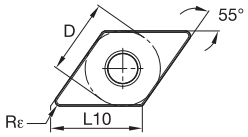


DNMG-MP

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
		mm	in	mm	in	mm	in																														
DNMG110408MP	DNMG332MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
DNMG110412MP	DNMG333MP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MP	DNMG431MP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150604MP	DNMG441MP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150408MP	DNMG432MP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150608MP	DNMG442MP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	●	●	–	–	–
DNMG150412MP	DNMG433MP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–
DNMG150612MP	DNMG443MP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	●	●	–	–	–

● first choice
○ alternate choice



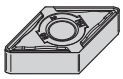


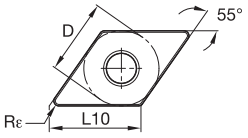
DNMG-MS

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110408MS	DNMG332MS	9,53	3/8	11,63	.458	0,8	1/32
DNMG150401MS	DNMG430MS	12,70	1/2	15,50	.610	0,1	.004
DNMG150402MS	DNMG4305MS	12,70	1/2	15,50	.610	0,2	.008
DNMG150404MS	DNMG431MS	12,70	1/2	15,50	.610	0,4	1/64
DNMG150604MS	DNMG441MS	12,70	1/2	15,50	.610	0,4	1/64
DNMG150408MS	DNMG432MS	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608MS	DNMG442MS	12,70	1/2	15,50	.610	0,8	1/32
DNMG150412MS	DNMG433MS	12,70	1/2	15,50	.610	1,2	3/64
DNMG150612MS	DNMG443MS	12,70	1/2	15,50	.610	1,2	3/64

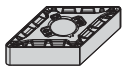
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

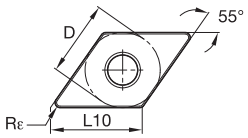




DNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG150408MW	DNMG432MW	12,70	1/2	15,50	.610	0,4	.016
DNMG150608MW	DNMG442MW	12,70	1/2	15,50	.610	0,4	.016
DNMG150412MW	DNMG433MW	12,70	1/2	15,50	.610	0,8	.032
DNMG150612MW	DNMG443MW	12,70	1/2	15,50	.610	0,8	.032



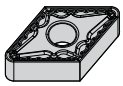


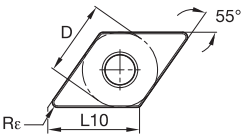
DNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110408MR	DNMG332MR	9,53	3/8	11,63	.458	0,8	1/32
DNMG150408MR	DNMG432MR	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608MR	DNMG442MR	12,70	1/2	15,50	.610	0,8	1/32
DNMG150412MR	DNMG433MR	12,70	1/2	15,50	.610	1,2	3/64
DNMG150612MR	DNMG443MR	12,70	1/2	15,50	.610	1,2	3/64
DNMG150616MR	DNMG444MR	12,70	1/2	15,50	.610	1,6	1/16

● first choice
○ alternate choice

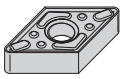
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

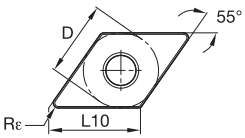




DNMG-MG

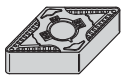
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150612MG	DNMG443MG	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MG	DNMG444MG	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

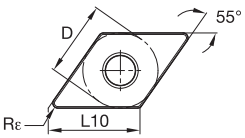




DNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150404P	DNMG431P	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408P	DNMG432P	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150608P	DNMG442P	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

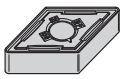


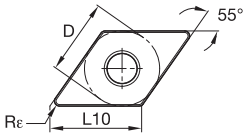


DNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408RN	DNMG432RN	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608RN	DNMG442RN	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412RN	DNMG433RN	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150612RN	DNMG443RN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150416RN	DNMG434RN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616RN	DNMG444RN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190608RN	DNMG542RN	15,88	5/8	19,38	.763	0,8	1/32	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612RN	DNMG543RN	15,88	5/8	19,38	.763	1,2	3/64	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

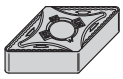
● first choice
○ alternate choice

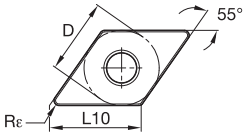




DNMG-RP

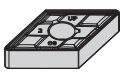
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408RP	DNMG332RP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG110412RP	DNMG333RP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408RP	DNMG432RP	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	●	–	–	●	●	–	●	●	●	–	●	–	–	–	●	●	●	●	–	–	–
DNMG150608RP	DNMG442RP	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	●	–	–	–	–	●	–	–	●	–	●	●	●	–	–	–	–	–	●	●	●	●	–	–	–
DNMG150412RP	DNMG433RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	–
DNMG150612RP	DNMG443RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	●	●	●	–	–	–	–	–	●	–	●	●	●	–	–	–	●	●	–	–	–	–	●	●	–	–	–	–	–
DNMG150416RP	DNMG434RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DNMG150616RP	DNMG444RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

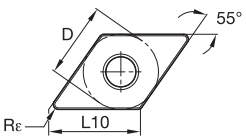




DNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UN	DNMG332UN	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412UN	DNMG333UN	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UN	DNMG432UN	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608UN	DNMG442UN	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412UN	DNMG433UN	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612UN	DNMG443UN	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150416UN	DNMG434UN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616UN	DNMG444UN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



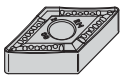


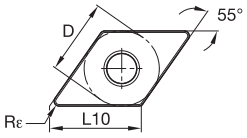
DNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UP	DNMG332UP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150404UP	DNMG431UP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
DNMG150604UP	DNMG441UP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UP	DNMG432UP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	–	●	–	–	–	–
DNMG150608UP	DNMG442UP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–	–

● first choice
○ alternate choice

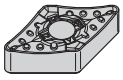
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

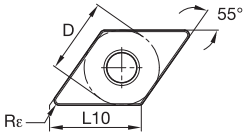




DNMM-RM

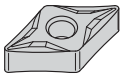
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150408RM	DNMM432RM	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150608RM	DNMM442RM	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150412RM	DNMM433RM	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RM	DNMM443RM	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RM	DNMM444RM	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

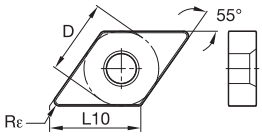




DNMM-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150608RP	DNMM442RP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RP	DNMM443RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RP	DNMM444RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

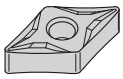


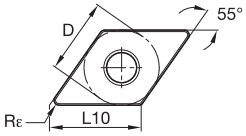


DNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP150404	DNMP431	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150408	DNMP432	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150412	DNMP433	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

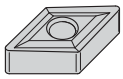
● first choice
○ alternate choice

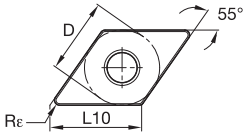




DNMP-K

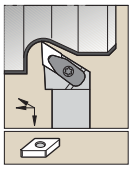
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
	P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
	M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
	K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
	N																								●	●	●	●	●	●	●	
	S																								●	●	●	●	●	●		
	H																															
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																									
DNMP110408K	DNMP332K	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150404K	DNMP431K	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150604K	DNMP441K	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150408K	DNMP432K	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150608K	DNMP442K	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150412K	DNMP433K	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

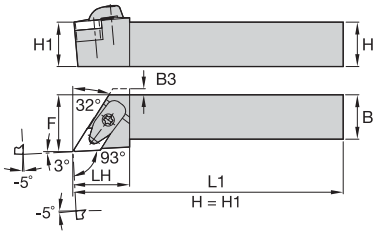




DNMS

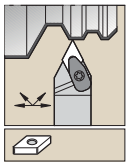
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMS150408	DNMS432	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

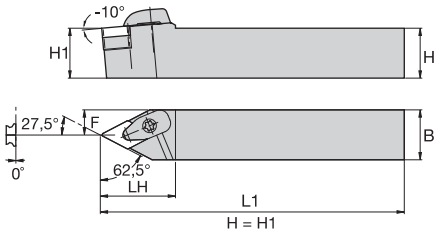


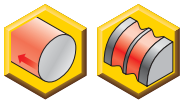


DDJN-KC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273014	**DDJNR123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273065	**DDJNR163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273016	**DDJNR163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273018	**DDJNR203DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875140	**DDJNR164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875136	**DDJNR164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875148	**DDJNR204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875170	**DDJNR165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875178	**DDJNR245DKC4**	1.50	1.50	2.000	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
left hand														
2273015	**DDJNL123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273066	**DDJNL163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273017	**DDJNL163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875149	**DDJNL164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875139	**DDJNL164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875151	**DDJNL204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875167	**DDJNL165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875177	**DDJNL205DKC4**	1.25	1.25	1.500	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**

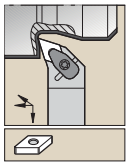


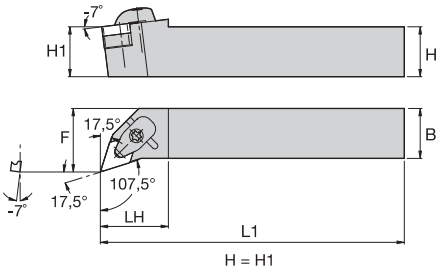


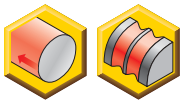


DDPN-KC 27.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
1875186	**DDPNN164DKC3**	1.00	1.00	.497	6.00	1.62	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

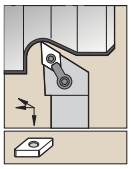


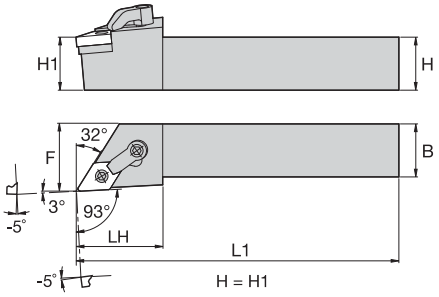


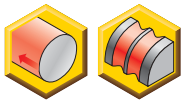


DDQN-KC -17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand													
1893421	**DDQNR164CKC3**	1.00	1.00	1.250	5.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273020	**DDQNR164DKC3**	1.00	1.00	1.250	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273022	**DDQNR204DKC3**	1.25	1.25	1.500	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand													
1893422	**DDQNL164CKC3**	1.00	1.00	1.250	5.00	1.38	DNMA432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273021	**DDQNL164DKC3**	1.00	1.00	1.250	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273023	**DDQNL204DKC3**	1.25	1.25	1.500	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

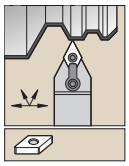


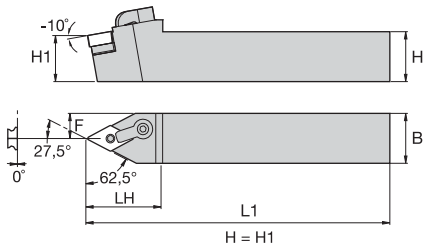


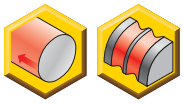


MDJN -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096240	**MDJNR123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096242	**MDJNR163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096243	**MDJNR163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096247	**MDJNR203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808169	**MDJNR124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096241	**MDJNR124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096244	**MDJNR164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096245	**MDJNR164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096251	**MDJNR854D**	1.25	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1016454	**MDJNR204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096246	**MDJNR165D**	1.00	1.00	1.250	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096248	**MDJNR205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096250	**MDJNR245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808170	**MDJNR245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
left hand													
1096252	**MDJNL123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096254	**MDJNL163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096255	**MDJNL163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096259	**MDJNL203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808167	**MDJNL124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096253	**MDJNL124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096256	**MDJNL164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096257	**MDJNL164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096260	**MDJNL204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096261	**MDJNL205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096263	**MDJNL245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808168	**MDJNL245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

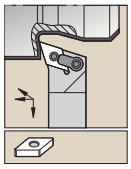


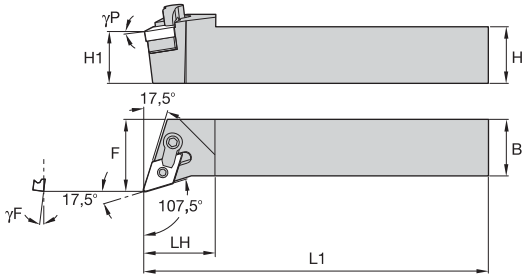


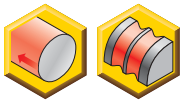


MDPN 27.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096277	**MDPNN123B**	.75	.75	.375	4.50	1.50	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096279	**MDPNN163D**	1.00	1.00	.500	6.00	1.50	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096280	**MDPNN164D**	1.00	1.00	.500	6.00	1.63	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096282	**MDPNN205D**	1.25	1.25	.625	6.00	1.92	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096284	**MDPNN245D**	1.50	1.50	.750	6.00	1.92	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

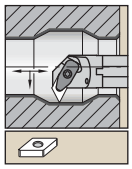




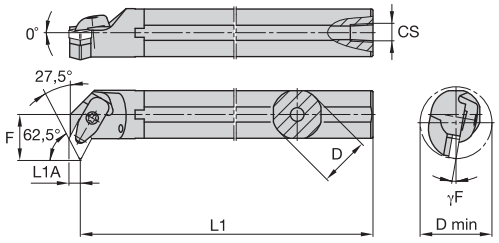


MDQN -17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096265	**MDQNR124B**	.75	.75	1.000	4.50	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096266	**MDQNR164C**	1.00	1.00	1.250	5.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096267	**MDQNR164D**	1.00	1.00	1.250	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096268	**MDQNR204D**	1.25	1.25	1.500	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096269	**MDQNR244D**	1.50	1.50	2.000	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096270	**MDQNR244E**	1.50	1.50	2.000	7.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
left hand													
1096271	**MDQNL124B**	.75	.75	1.000	4.50	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096272	**MDQNL164C**	1.00	1.00	1.250	5.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096273	**MDQNL164D**	1.00	1.00	1.250	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096274	**MDQNL204D**	1.25	1.25	1.500	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096275	**MDQNL244D**	1.50	1.50	2.000	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096276	**MDQNL244E**	1.50	1.50	2.000	7.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8

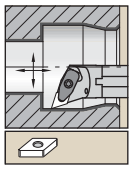


Steel shank with through coolant.

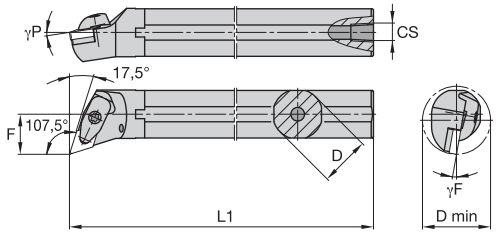


A-DDPN-KC 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2408545	**A20UDDPNR4KC3**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408546	**A24UDDPNR4KC3**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand															
2408544	**A24UDDPNL4KC3**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

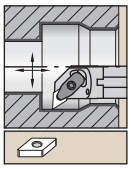


Steel shank with through coolant.

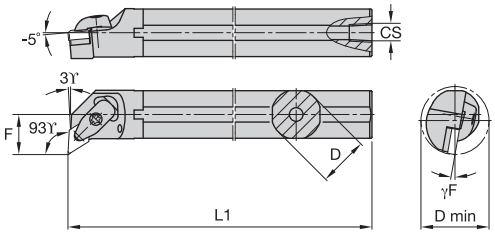


A-DDQN-KC -17.5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2408549	**A20UDDQNR4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	-12.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408550	**A24UDDQNR4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand															
2408547	**A20UDDQNL4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	-12.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408548	**A24UDDQNL4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

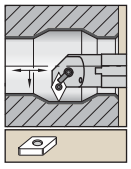


Steel shank with through coolant.

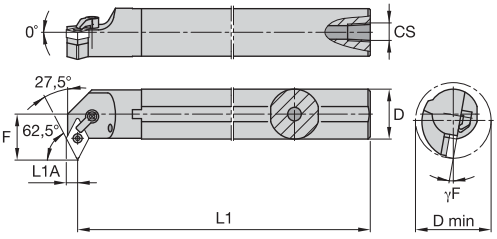


A-DDUN-KC -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408389	**A16TDDUNR3KC3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	9 IP
2408390	**A20UDDUNR3KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	DN..332	**IDSN322**	**KMSP315IP**	9 IP	**CM234R ASSY**	**SSP025016M**	9 IP
2408391	**A20UDDUNR4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408392	**A24UDDUNR4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408464	**A32VDDUNR4KC3**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand														
2408528	**A16TDDUNL3KC3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP

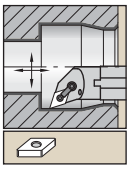


Steel shank with through coolant.

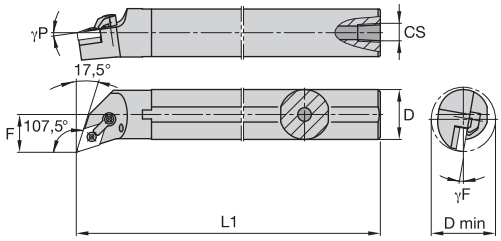


A-MDPN 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1808204	**A20MDPNR4**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1808208	**A24MDPNR4**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
left hand															
1808203	**A20MDPNL4**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1808207	**A24MDPNL4**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8

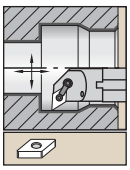


Steel shank with through coolant.

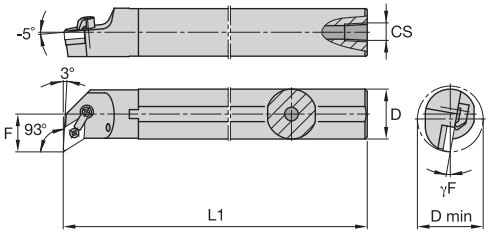


A-MDQN -17.5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096470	**A20MDQNR4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096471	**A24MDQNR4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand															
1096472	**A20MDQNL4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096473	**A24MDQNL4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32

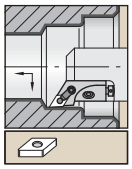


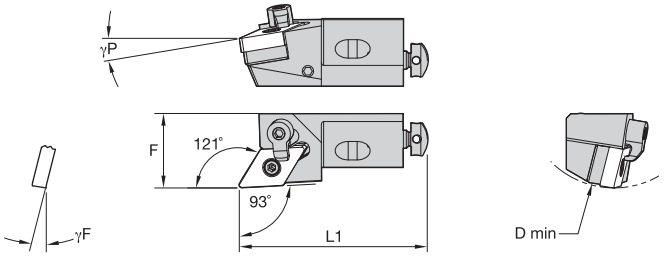
Steel shank with through coolant.



A-MDUN -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096444	**A16MDUNR3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1096447	**A20UMDUNR4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096448	**A24UMDUNR4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096449	**A28MDUNR4**	1.750	2.250	1.250	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096450	**A32VMDUNR4**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand														
1096455	**A16MDUNL3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1096458	**A20UMDUNL4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096459	**A24UMDUNL4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096460	**A28MDUNL4**	1.750	2.250	1.250	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096461	**A32VMDUNL4**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32



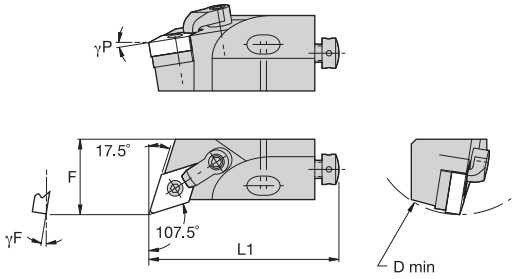


MDJN-3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3346241	**MDJNR12CA3**	1.969	.787	2.17	-9.0	-9.0	DN..110408/DN..322
3330275	**MDJNR16CA4**	2.362	.984	2.48	-9.0	-9.0	DN..150408/DN..432
3330199	**MDJNR20CA4**	2.756	.984	2.76	-8.5	-8.5	DN..150408/DN..3.532
left hand							
3346240	**MDJNL12CA3**	1.969	.787	2.17	-9.0	-9.0	DN..110408/DN..322
3330274	**MDJNL16CA4**	2.362	.984	2.48	-9.0	-9.0	DN..150408/DN..432

Spare Parts

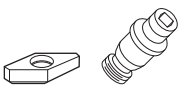
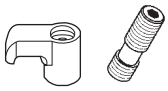
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**IDSN432**	**KLM46**	2.5 mm	**CKM41**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

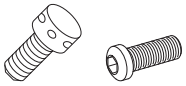


MDQN -17.5°

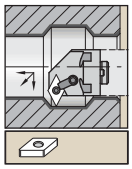
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330277	**MDQNR16CA4**	2.362	.984	2.48	-9.0	-6.0	DN..150408/DN..432
3330201	**MDQNR20CA4**	2.756	.984	2.76	-9.0	-8.0	DN..150408/DN..432
left hand							
3330276	**MDQNL16CA4**	2.362	.984	2.48	-9.0	-6.0	DN..150408/DN..432
3330200	**MDQNL20CA4**	2.756	.984	2.76	-9.0	-8.0	DN..150408/DN..432

Spare Parts

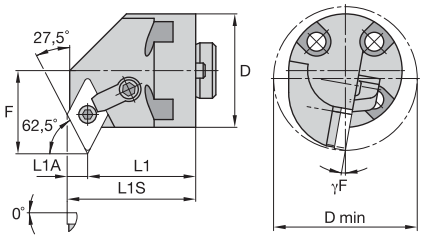





D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
2.362	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**IDSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

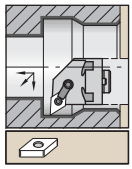


With through coolant.

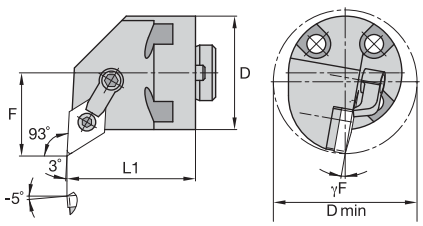


H-MDPN 27.5°

order number	catalog number	D	D min	F	L1	L1A	L1S	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1095383	**H24MDPNR4**	1.500	2.000	1.125	1.37	.26	1.625	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8



With through coolant.

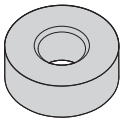
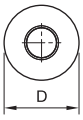


H-MDUN -3°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096484	**H16MDUNR3**	1.000	1.300	.750	1.63	-11.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1095334	**H20MDUNR4**	1.250	1.705	1.000	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1095385	**H24MDUNR3**	1.500	2.000	1.125	1.63	-10.0	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1095388	**H24MDUNR4**	1.500	2.000	1.125	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095436	**H28MDUNR4**	1.750	2.250	1.250	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095479	**H32MDUNR3**	2.000	2.500	1.325	1.63	-8.0	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1095480	**H32MDUNR4**	2.000	2.500	1.375	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095553	**H40MDUNR4**	2.500	3.250	1.750	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand													
1096481	**H16MDUNL3**	1.000	1.300	.750	1.63	-11.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1095335	**H20MDUNL4**	1.250	1.705	1.000	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1095389	**H24MDUNL4**	1.500	2.000	1.125	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095437	**H28MDUNL4**	1.750	2.250	1.250	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095483	**H32MDUNL4**	2.000	2.500	1.375	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095556	**H40MDUNL4**	2.500	3.250	1.750	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32

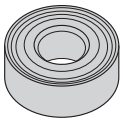
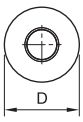
● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

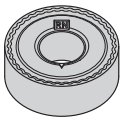
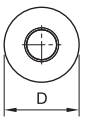
RNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMA120400	RNMA43	12,70	1/2	—	—	—	—
RNMA150600	RNMA54	15,88	5/8	—	—	—	—

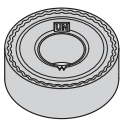
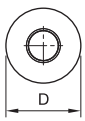
RNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG190600	RNMG64	19,05	3/4	—	—	—	—

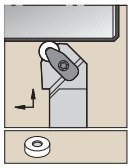
RNMG-RN

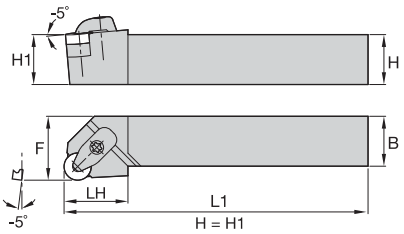
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG090300RN	RNMG32RN	9,53	3/8	—	—	—	—
RNMG120400RN	RNMG43RN	12,70	1/2	—	—	—	—
RNMG150600RN	RNMG54RN	15,88	5/8	—	—	—	—
RNMG190600RN	RNMG64RN	19,05	3/4	—	—	—	—
RNMG250900RN	RNMG86RN	25,40	1	—	—	—	—

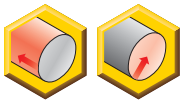



RNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG120400UN	RNMG43UN	12,70	1/2	—	—	—	—



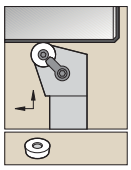


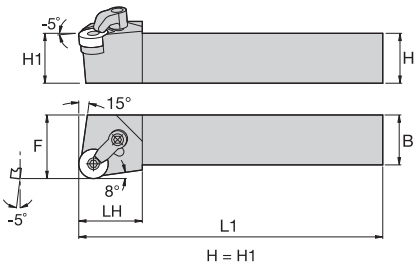


DRGN-KC

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin
right hand												
2397697	**DRGNR164DKC3**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**
2397707	**DRGNR206DKC4**	1.25	1.25	1.500	6.00	1.38	RN..64	**IRSN64**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025016M**
left hand												
2397698	**DRGNL164DKC3**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**
2397700	**DRGNL204DKC3**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**

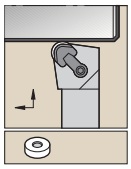
Kenloc™ Toolholders

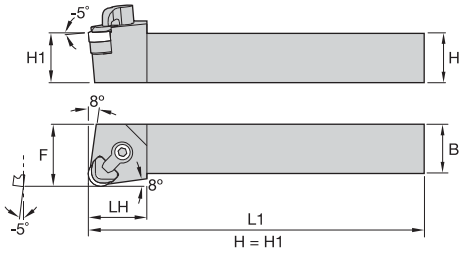




MRGN

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096304	**MRGNR123B**	.75	.75	1.000	4.50	.88	RN..32	**IRSN33**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096305	**MRGNR124B**	.75	.75	1.000	4.50	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095975	**MRGNR163D**	1.00	1.00	1.250	6.00	.88	RN..32	**IRSN33**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096306	**MRGNR164C**	1.00	1.00	1.250	5.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096307	**MRGNR164D**	1.00	1.00	1.250	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095981	**MRGNR166D**	1.00	1.00	1.250	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096308	**MRGNR204D**	1.25	1.25	1.500	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096309	**MRGNR206D**	1.25	1.25	1.500	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808177	**MRGNR246D**	1.50	1.50	2.000	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808179	**MRGNR248E**	1.50	1.50	2.000	7.00	1.56	RN..86	**IRSN84**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand													
1096314	**MRGNL164D**	1.00	1.00	1.250	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095982	**MRGNL166D**	1.00	1.00	1.250	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096315	**MRGNL204D**	1.25	1.25	1.500	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096316	**MRGNL206D**	1.25	1.25	1.500	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808175	**MRGNL246D**	1.50	1.50	2.000	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808176	**MRGNL248E**	1.50	1.50	2.000	7.00	1.56	RN..86	**IRSN84**	**KL810**	5/32	**CK24**	**STC19**	3/16



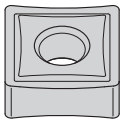


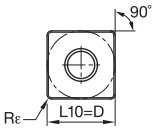
MRGN-C

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096647	**MRGNRC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096648	**MRGNRC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096646	**MRGNRC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
left hand													
1096673	**MRGNLC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096674	**MRGNLC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096672	**MRGNLC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

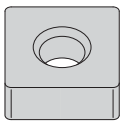


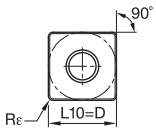


SNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNGP120404	SNGP431	12,70	1/2	12,70	.500	0,4	1/64
SNGP120408	SNGP432	12,70	1/2	12,70	.500	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNGP120404	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
SNGP120408	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

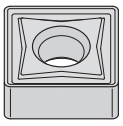


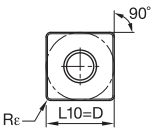


SNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNMA120408	SNMA432	12,70	1/2	12,70	.500	0,8	1/32
SNMA120412	SNMA433	12,70	1/2	12,70	.500	1,2	3/64
SNMA150612	SNMA543	15,88	5/8	15,88	.625	1,2	3/64
SNMA190612	SNMA643	19,05	3/4	19,05	.750	1,2	3/64
SNMA190616	SNMA644	19,05	3/4	19,05	.750	1,6	1/16

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMA120408	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA120412	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA150612	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA190612	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA190616	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



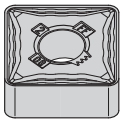


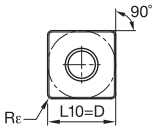
SNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNMG120408	SNMG432	12,70	1/2	12,70	.500	0,8	1/32
SNMG120412	SNMG433	12,70	1/2	12,70	.500	1,2	3/64
SNMG190612	SNMG643	19,05	3/4	19,05	.750	1,2	3/64
SNMG190616	SNMG644	19,05	3/4	19,05	.750	1,6	1/16
SNMG250924	SNMG866	25,40	1	25,40	1.000	2,4	3/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
SNMG120412	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG190616	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

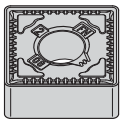


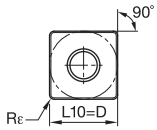


SNMG-FF

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●						
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●						
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●						
N																									●	●	●	●	●	●	●								
S																									●	●	●	●	●	●									
H																																						

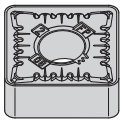
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090304FF	SNMG321FF	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
SNMG090308FF	SNMG322FF	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
SNMG120408FF	SNMG432FF	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

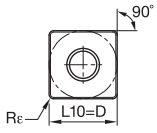




SNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308FN	SNMG322FN	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404FN	SNMG431FN	12,70	1/2	12,70	.500	0,4	1/64	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408FN	SNMG432FN	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
SNMG120412FN	SNMG433FN	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416FN	SNMG434FN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

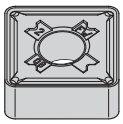


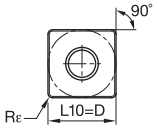


SNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120404FP	SNMG431FP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120408FP	SNMG432FP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

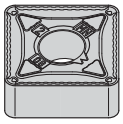


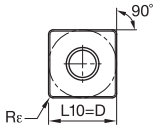


SNMG-FW

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●	●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●	●
N																								●	●	●	●	●	●	
S																								●	●	●	●	●	●	
H																														

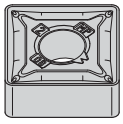
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408FW	SNMG432FW	12,70	1/2	12,70	.500	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412FW	SNMG433FW	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

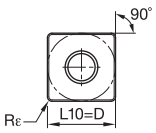




SNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308MN	SNMG322MN	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG090312MN	SNMG323MN	9,53	3/8	9,53	.375	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404MN	SNMG431MN	12,70	1/2	12,70	.500	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408MN	SNMG432MN	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MN	SNMG433MN	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416MN	SNMG434MN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MN	SNMG543MN	15,88	5/8	15,88	.625	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616MN	SNMG544MN	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612MN	SNMG643MN	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616MN	SNMG644MN	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



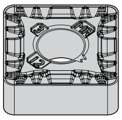
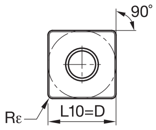


SNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MP	SNMG432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
SNMG120412MP	SNMG433MP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	●	●	–	–	–	–
SNMG120416MP	SNMG434MP	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–
SNMG150608MP	SNMG542MP	15,88	5/8	15,88	.625	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MP	SNMG543MP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	●	–	●	–	–	–
SNMG150616MP	SNMG544MP	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612MP	SNMG643MP	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMG190616MP	SNMG644MP	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

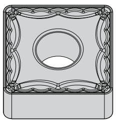
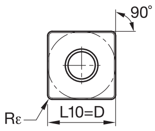
● first choice
○ alternate choice

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

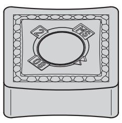
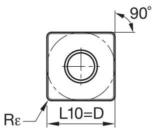
SNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MR	SNMG432MR	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120412MR	SNMG433MR	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG150612MR	SNMG543MR	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–

SNMG-MG

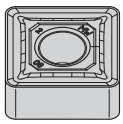
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120416MG	SNMG434MG	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

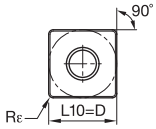



SNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MS	SNMG432MS	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
SNMG120412MS	SNMG433MS	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
SNMG150608MS	SNMG542MS	15,88	5/8	15,88	.625	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG150612MS	SNMG543MS	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612MS	SNMG643MS	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–

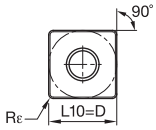
● first choice
○ alternate choice





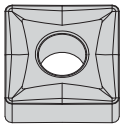
SNMG-MW

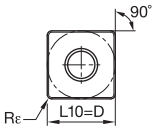
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MW	SNMG432MW	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MW	SNMG433MW	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



SNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120412P	SNMG433P	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

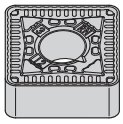


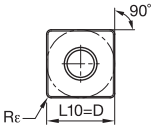


SNMG-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG250924RM	SNMG866RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

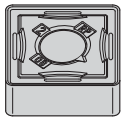
● first choice
○ alternate choice

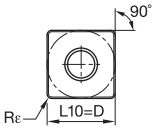




SNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090412RN	SNMG333RN	9,53	3/8	9,53	.375	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408RN	SNMG432RN	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412RN	SNMG433RN	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG120416RN	SNMG434RN	12,70	1/2	12,70	.500	1,6	1/16	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150608RN	SNMG542RN	15,88	5/8	15,88	.625	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612RN	SNMG543RN	15,88	5/8	15,88	.625	1,2	3/64	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG150616RN	SNMG544RN	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190608RN	SNMG642RN	19,05	3/4	19,05	.750	0,8	1/32	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612RN	SNMG643RN	19,05	3/4	19,05	.750	1,2	3/64	–	–	●	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616RN	SNMG644RN	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190624RN	SNMG646RN	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924RN	SNMG866RN	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

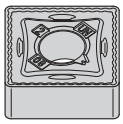


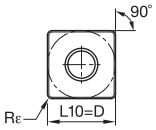


SNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408RP	SNMG432RP	12,70	1/2	12,70	.500	0,8	1/32	–	●	–	●	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	●	–	–	–	●	●	●	●	–	–
SNMG120412RP	SNMG433RP	12,70	1/2	12,70	.500	1,2	3/64	–	●	●	●	●	●	–	●	–	●	–	●	●	●	–	●	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
SNMG120416RP	SNMG434RP	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
SNMG150612RP	SNMG543RP	15,88	5/8	15,88	.625	1,2	3/64	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–
SNMG150616RP	SNMG544RP	15,88	5/8	15,88	.625	1,6	1/16	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612RP	SNMG643RP	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	●	●	●	●	–	–
SNMG190616RP	SNMG644RP	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	●	–	–	●	●	–	–	●	–	–	●	●	–	●	–	–

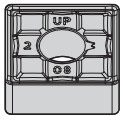
● first choice
○ alternate choice

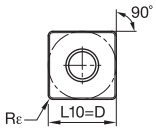




SNMG-UN

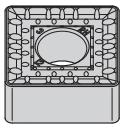
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UN	SNMG432UN	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412UN	SNMG433UN	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416UN	SNMG434UN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612UN	SNMG543UN	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616UN	SNMG544UN	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612UN	SNMG643UN	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616UN	SNMG644UN	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

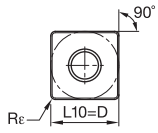




SNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UP	SNMG432UP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–
SNMG120412UP	SNMG433UP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–
SNMG150612UP	SNMG543UP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–



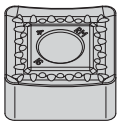


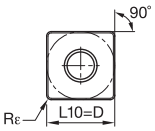
SNMM-RH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190612RH	SNMM643RH	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RH	SNMM644RH	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RH	SNMM646RH	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RH	SNMM856RH	25,40	1	25,40	1.000	2,4	3/32	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RH	SNMM866RH	25,40	1	25,40	1.000	2,4	3/32	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

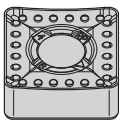
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

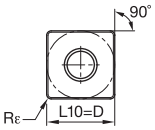




SNMM-RM

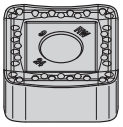
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RM	SNMM432RM	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM120412RM	SNMM433RM	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RM	SNMM543RM	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RM	SNMM544RM	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RM	SNMM643RM	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RM	SNMM644RM	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RM	SNMM646RM	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RM	SNMM856RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RM	SNMM866RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

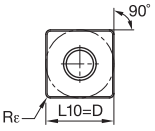




SNMM-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RP	SNMM432RP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–
SNMM120412RP	SNMM433RP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RP	SNMM543RP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RP	SNMM544RP	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RP	SNMM643RP	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RP	SNMM644RP	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RP	SNMM646RP	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RP	SNMM856RP	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RP	SNMM866RP	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

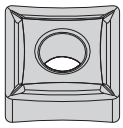


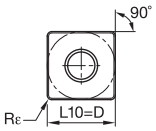


SNMM-RW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190624RW	SNMM646RW	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RW	SNMM856RW	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

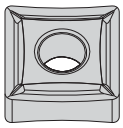
● first choice
○ alternate choice

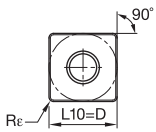




SNMP

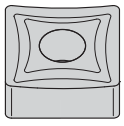
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP190612	SNMP643	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

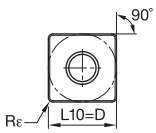




SNMP-K

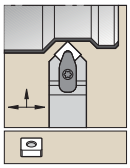
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP120408K	SNMP432K	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

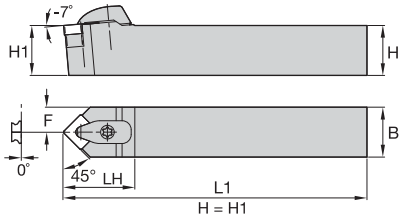




SNMS

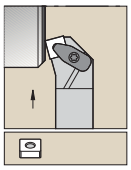
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMS120408	SNMS432	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMS190612	SNMS643	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

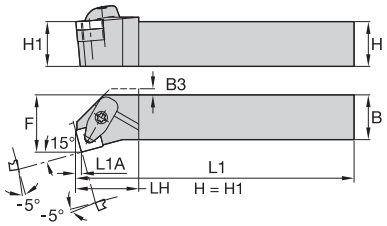


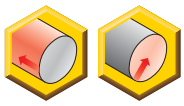


DSDN-KC 45°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
2273072	DSDNN124KC3	.75	.75	.375	4.50	1.44	SN..432	ISSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
1908834	DSDNN164KC3	1.00	1.00	.500	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
1908835	DSDNN204KC3	1.25	1.25	.625	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
2273024	DSDNN206KC4	1.25	1.25	.625	6.00	1.75	SN..643	ISSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M

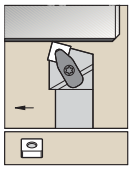


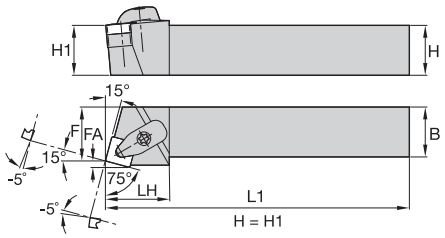


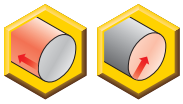


DSKN-KC 15°

order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand															
2273070	DSKNR164CKC3	1.00	1.00	1.250	5.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
left hand															
2273071	DSKNL164CKC3	1.00	1.00	1.250	5.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M

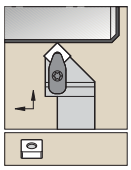


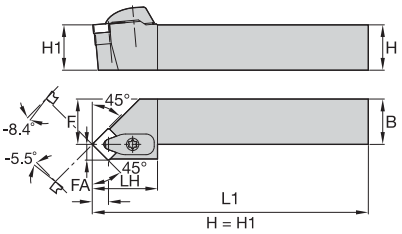




DSRN-KC 15°

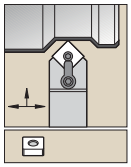
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
left hand														
1875168	**DSRNL164DKC3**	1.00	1.00	1.130	6.00	1.25	.12	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875184	**DSRNL204DKC3**	1.25	1.25	1.380	6.00	1.25	.12	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273027	**DSRNL206DKC4**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**

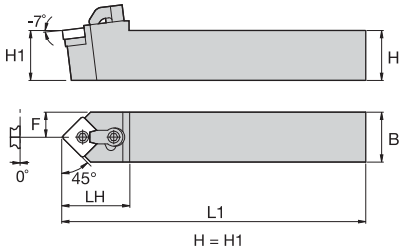




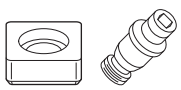
DSSN-KC 45°

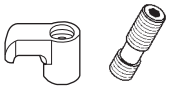
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1875163	**DSSNR164DKC3**	1.00	1.00	.912	6.00	1.50	.34	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
1875179	**DSSNL164DKC3**	1.00	1.00	.912	6.00	1.50	.34	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**



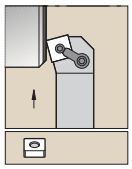


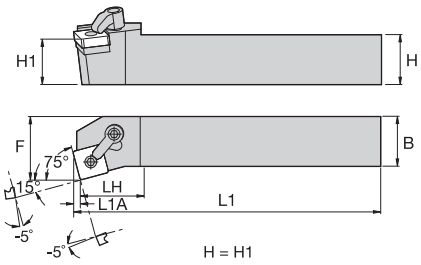
MSDN 45°

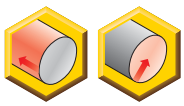




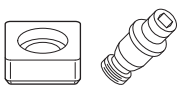
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096180	**MSDNN083**	.50	.50	.250	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096181	**MSDNN103**	.63	.63	.312	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096182	**MSDNN123**	.75	.75	.375	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096183	**MSDNN124**	.75	.75	.375	4.50	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096184	**MSDNN164**	1.00	1.00	.500	6.00	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096185	**MSDNN854**	1.25	1.00	.500	6.00	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096186	**MSDNN855**	1.25	1.00	.500	6.00	1.62	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096187	**MSDNN856**	1.25	1.00	.500	6.00	1.62	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808182	**MSDNN206**	1.25	1.25	.625	7.00	1.63	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808183	**MSDNN246**	1.50	1.50	.750	7.00	1.63	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

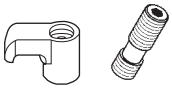




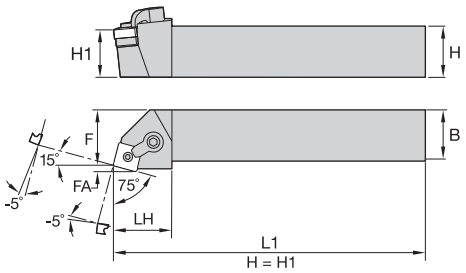


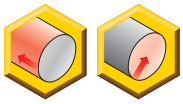
MSKN 15°





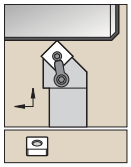
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096169	**MSKNR124B**	.75	.75	1.000	4.50	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096170	**MSKNR164C**	1.00	1.00	1.250	5.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096171	**MSKNR164D**	1.00	1.00	1.250	6.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808189	**MSKNR205D**	1.25	1.25	1.500	6.00	1.34	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808190	**MSKNR206D**	1.25	1.25	1.500	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808191	**MSKNR248**	1.50	1.50	2.000	8.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand														
1808185	**MSKNL205D**	1.25	1.25	1.500	6.00	1.34	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808186	**MSKNL206D**	1.25	1.25	1.500	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808187	**MSKNL246D**	1.50	1.50	2.000	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

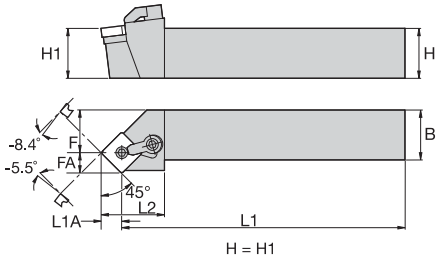




MSRN 15°

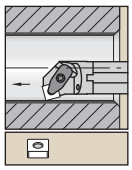
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096149	**MSRNR124B**	.75	.75	.880	4.50	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096150	**MSRNR164C**	1.00	1.00	1.130	5.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096151	**MSRNR164D**	1.00	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808196	**MSRNR165C**	1.00	1.00	1.103	5.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096152	**MSRNR205D**	1.25	1.25	1.353	6.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096156	**MSRNR856D**	1.25	1.00	1.071	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096153	**MSRNR206D**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096154	**MSRNR246D**	1.50	1.50	1.821	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096155	**MSRNR246E**	1.50	1.50	1.821	7.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808197	**MSRNR248**	1.50	1.50	1.770	8.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808198	**MSRNR328**	2.00	2.00	2.270	18.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand														
1096159	**MSRNL124B**	.75	.75	.880	4.50	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096160	**MSRNL164C**	1.00	1.00	1.130	5.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096161	**MSRNL164D**	1.00	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808195	**MSRNL854D**	1.25	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096029	**MSRNL204D**	1.25	1.25	1.380	6.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808194	**MSRNL165C**	1.00	1.00	1.103	5.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096162	**MSRNL205D**	1.25	1.25	1.353	6.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096163	**MSRNL206D**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096164	**MSRNL246D**	1.50	1.50	1.821	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096165	**MSRNL246E**	1.50	1.50	1.821	7.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32



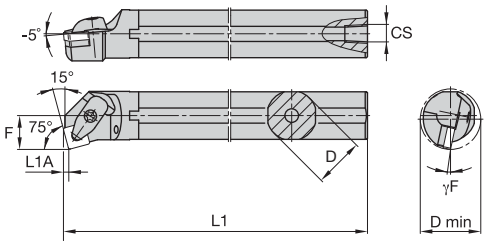


MSSN 45°

order number	catalog number	H	B	F	L1	LH	FS	FA	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand																
1096038	**MSSNR123B**	.75	.75	.641	4.50	1.12	.89	.25	.25	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096039	**MSSNR124B**	.75	.75	.662	4.50	1.24	1.00	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096040	**MSSNR164C**	1.00	1.00	.912	5.00	1.24	—	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096041	**MSSNR164D**	1.00	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808448	**MSSNR854D**	1.25	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808384	**MSSNR165D**	1.00	1.00	.828	6.00	1.38	1.25	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808445	**MSSNR205D**	1.25	1.25	1.078	6.00	1.38	1.50	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096042	**MSSNR206D**	1.25	1.25	.992	6.00	1.48	1.50	.51	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
1756488	**MSSNR246D**	1.50	1.50	1.511	6.00	1.48	—	.52	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
left hand																
1096047	**MSSNL164C**	1.00	1.00	.912	5.00	1.24	—	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096048	**MSSNL164D**	1.00	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808341	**MSSNL854D**	1.25	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808338	**MSSNL165D**	1.00	1.00	.828	6.00	1.38	1.25	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808339	**MSSNL205D**	1.25	1.25	1.078	6.00	1.38	1.50	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096049	**MSSNL206D**	1.25	1.25	.992	6.00	1.48	1.50	.51	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
1756489	**MSSNL246D**	1.50	1.50	1.511	6.00	1.48	—	.52	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32

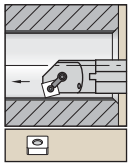


Steel shank with through coolant.

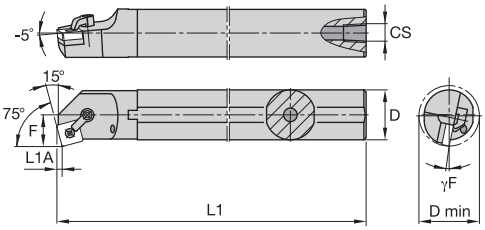


A-DSKN-KC 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
left hand															
2408494	**A20UDSKNL3KC2**	1.250	1.470	.765	14.00	.09	1/4-18 NPT	-10.0	SN..322	**ISSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

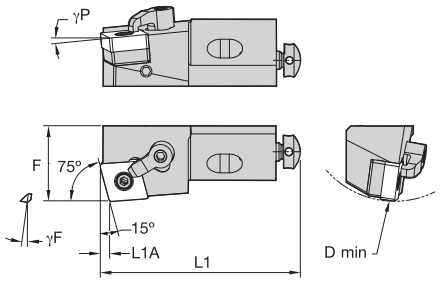


Steel shank with through coolant.



A-MSKN 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096403	**A20MSKNR4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	SN..432	**—**	**KL44**	3/32	**CK9**	**STC4**	5/32
1096408	**A40MSKNR6**	2.500	3.030	1.531	16.00	.18	1/4-18 NPT	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32



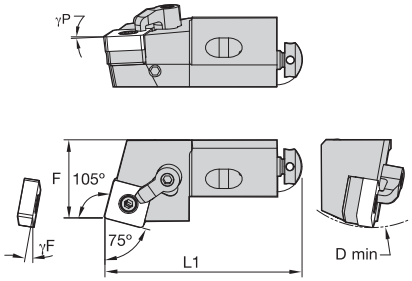
MSKN 15°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
2114011	**MSKNR10CA3**	1.575	.551	1.97	.09	-9.0	-5.0	SN..090308/SN..322
2114013	**MSKNR12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	SN..120408/SN..432
2074430	**MSKNR16CA4**	2.362	.984	2.48	.12	-9.0	-5.0	SN..120408/SN..432
2072222	**MSKNR20CA5**	2.756	.984	2.76	.15	-9.0	-5.0	SN..150612/SN..543
2987166	**MSKNR25CA6**	3.937	1.260	3.94	.18	-9.0	-5.0	SN..190612/SN..543
left hand								
3346242	**MSKNL12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	SN..120408/SN..432
3330202	**MSKNL20CA5**	2.756	.984	2.76	.15	-9.0	-5.0	SN..150612/SN..543

NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	mounting screw	hex	washer
1.575	—	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	—	—	4 mm	**CSWM 060 050**
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	—	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
3.937	**ISSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	—	—	**MS364**	8 mm	**CSWM 100 080**

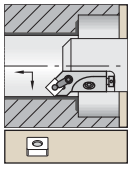


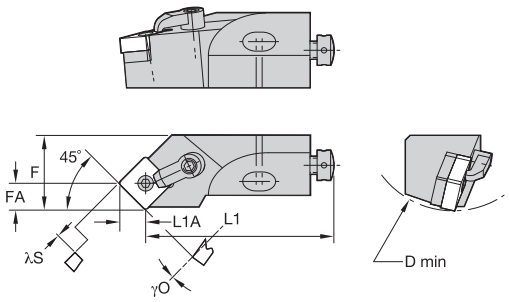
MSRN 15°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098436	**MSRNR10CA3**	1.575	.551	1.97	-9.0	-5.0	SN..090308/SN..322
2078231	**MSRNR12CA4**	1.969	.787	2.17	-9.0	-5.0	SN..120408/SN..432
2074432	**MSRNR16CA4**	2.362	.984	2.48	-9.0	-5.0	SN..120408/SN..432
left hand							
1282803	**MSRNL12CA4**	1.969	.787	2.17	-9.0	-5.0	SN..120408/SN..432
3330279	**MSRNL16CA4**	2.362	.984	2.48	-9.0	-5.0	SN..120408/SN..432
3330203	**MSRNL20CA5**	2.756	.984	2.76	-9.0	-5.0	SN..150612/SN..543

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**



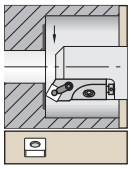


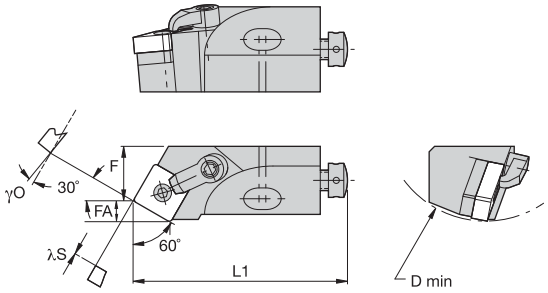
MSSN 45°

order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1339367	**MSSNR10CA3**	1.575	.551	.252	1.73	.24	-13.0	.0	SN..090308/SN..322
1282807	**MSSNR12CA4**	1.969	.787	–	1.85	.33	-13.0	.0	SN..120408/SN..432
3330281	**MSSNR16CA4**	2.362	.984	.343	2.09	.33	-13.0	.0	SN..120408/SN..432
3330206	**MSSNR20CA5**	2.756	.984	.560	2.36	.40	-13.0	.0	SN..150612/SN..543
left hand									
2071758	**MSSNL10CA3**	1.575	.551	.252	1.73	.24	-13.0	.0	SN..090308/SN..322
2071739	**MSSNL12CA4**	1.969	.787	–	1.85	.33	-13.0	.0	SN..120408/SN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**

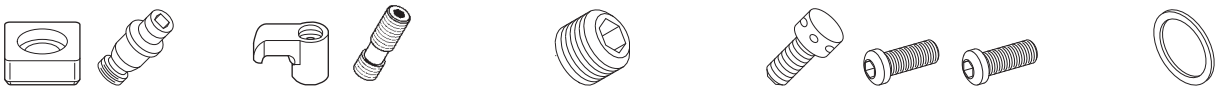




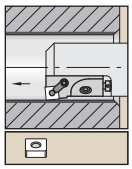
MSTN 30°

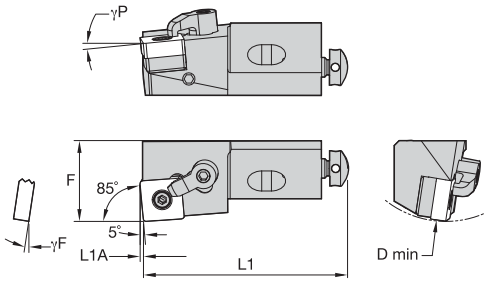
order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331149	**MSTNR10CA3**	1.575	.354	.524	1.97	-11.0	.0	SN..090308/SN..322
2074904	**MSTNR12CA4**	1.969	.512	.231	2.17	-11.0	.0	SN..120408/SN..432

Spare Parts



D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**





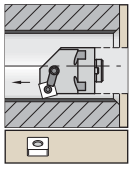
MSYN 5°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
2114015	**MSYNR10CA3**	1.575	.551	1.97	.03	-9.0	-5.0	SN..090308/SN..322
3346274	**MSYNR12CA4**	1.969	.787	2.17	.04	-9.0	-5.0	SN..120408/SN..432
3330283	**MSYNR16CA4**	2.362	.984	2.48	.04	-9.0	-5.0	SN..120408/SN..432
1098465	**MSYNR25CA19**	3.937	1.260	3.94	.06	-9.0	-5.0	SN..190612/SN..643
left hand								
3331150	**MSYNL10CA3**	1.575	.551	1.97	.03	-9.0	-5.0	SN..090308/SN..322
3346273	**MSYNL12CA4**	1.969	.787	2.17	.04	-9.0	-5.0	SN..120408/SN..432
1098691	**MSYNL20CA15**	2.756	.984	2.76	.05	-9.0	-5.0	SN..150612/SN..543

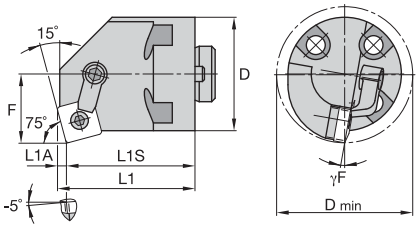
NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

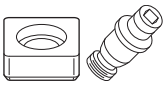
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	mounting screw	hex	washer
1.575	—	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	—	—	4 mm	**CSWM 060 050**
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	—	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	—	**191.407**	—	6 mm	**CSWM 080 050**
3.937	**ISSN633**	**KLM68**	4 mm	**CKM34**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM33**	—	—	**MS364**	8 mm	**CSWM 100 080**

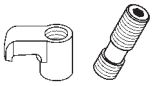


With through coolant.

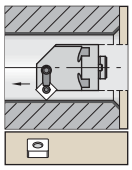


H-MSKN 15°

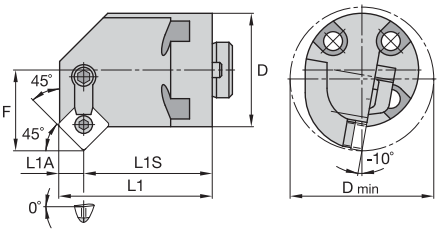




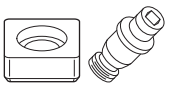
order number	catalog number	D	D min	F	L1	L1A	L1S	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1095392	**H24MSKNR4**	1.500	1.760	.890	1.63	.12	1.744	-10.0	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095485	**H32MSKNR4**	2.000	2.400	1.281	1.63	.12	1.744	-12.0	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095558	**H40MSKNR6**	2.500	3.030	1.531	1.63	.18	1.804	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand															
1095560	**H40MSKNL6**	2.500	3.030	1.531	1.63	.18	1.804	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

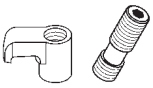


With through coolant.



H-MSSN 45°

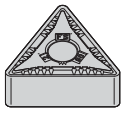


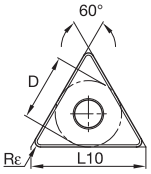


order number	catalog number	D	D min	F	L1	L1A	L1S	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1095360	**H24MSSNR4**	1.500	2.000	1.125	1.63	.34	1.287	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095531	**H40MSSNR6**	2.500	3.250	1.750	1.63	.51	1.118	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

● first choice
○ alternate choice

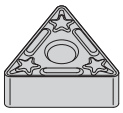
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

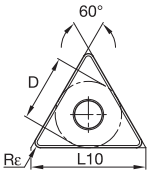




TNGG-FS

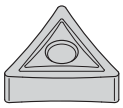
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGG160402FS	TNGG3305FS	9,53	3/8	16,50	.650	0,2	.008
TNGG160404FS	TNGG331FS	9,53	3/8	16,50	.650	0,4	1/64
TNGG220408FS	TNGG432FS	12,70	1/2	22,00	.866	0,8	1/32

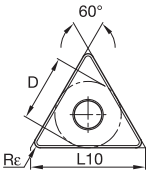




TNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGG160402LF	TNGG3305LF	9,53	3/8	16,50	.650	0,2	.008
TNGG160404LF	TNGG331LF	9,53	3/8	16,50	.650	0,4	1/64
TNGG160408LF	TNGG332LF	9,53	3/8	16,50	.650	0,8	1/32



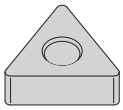


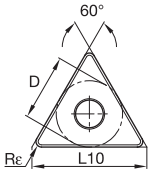
TNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGP160402	TNGP3305	9,53	3/8	16,50	.650	0,2	.008
TNGP160404	TNGP331	9,53	3/8	16,50	.650	0,4	1/64
TNGP160408	TNGP332	9,53	3/8	16,50	.650	0,8	1/32

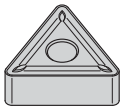
● first choice
○ alternate choice

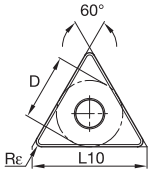
TNMA





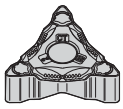
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMA160408	TNMA332	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA160412	TNMA333	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA160416	TNMA334	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA220408	TNMA432	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA220412	TNMA433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA270616	TNMA544	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

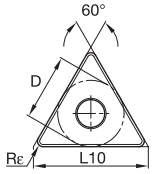




TNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG220412	TNMG433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMG330924	TNMG666	19,05	3/4	33,00	1.299	2,4	3/32	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



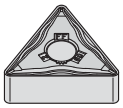


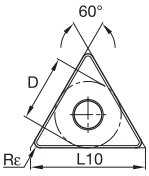
TNMG-CT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408CT	TNMG332CT	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

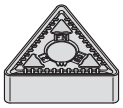
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

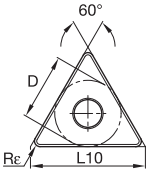




TNMG-FF

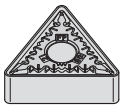
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FF	TNMG221FF	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG110308FF	TNMG222FF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG160404FF	TNMG331FF	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FF	TNMG332FF	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

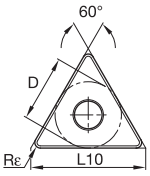




TNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FN	TNMG221FN	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG110308FN	TNMG222FN	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160404FN	TNMG331FN	9,53	3/8	16,50	.650	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160408FN	TNMG332FN	9,53	3/8	16,50	.650	0,8	1/32	●	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FN	TNMG333FN	9,53	3/8	16,50	.650	1,2	3/64	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG220404FN	TNMG431FN	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408FN	TNMG432FN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412FN	TNMG433FN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



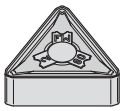


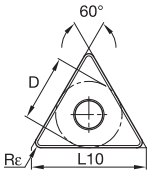
TNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FP	TNMG331FP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FP	TNMG332FP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160412FP	TNMG333FP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220404FP	TNMG431FP	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220408FP	TNMG432FP	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

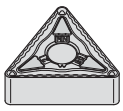
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

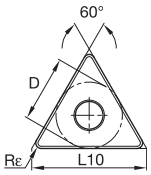




TNMG-FW

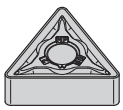
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FW	TNMG331FW	9,53	3/8	16,50	.650	0,2	.007	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FW	TNMG332FW	9,53	3/8	16,50	.650	0,4	.016	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FW	TNMG333FW	9,53	3/8	16,50	.650	1,2	3/64	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

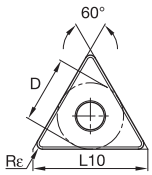




TNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MN	TNMG331MN	9,53	3/8	16,50	.650	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160408MN	TNMG332MN	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MN	TNMG333MN	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220404MN	TNMG431MN	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MN	TNMG432MN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MN	TNMG433MN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

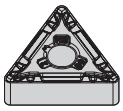


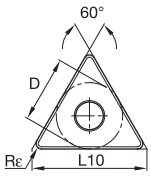


TNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MP	TNMG331MP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
TNMG160408MP	TNMG332MP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
TNMG160412MP	TNMG333MP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220408MP	TNMG432MP	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	–	●	–	–	–
TNMG220412MP	TNMG433MP	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220416MP	TNMG434MP	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

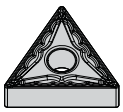
● first choice
○ alternate choice

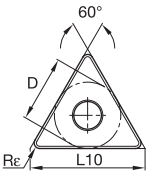




TNMG-MR

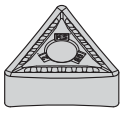
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MR	TNMG332MR	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MR	TNMG333MR	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MR	TNMG432MR	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MR	TNMG433MR	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612MR	TNMG543MR	15,88	5/8	27,50	1.083	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

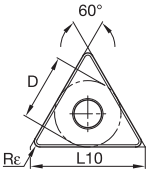




TNMG-MG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MG	TNMG332MG	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



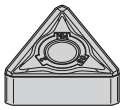


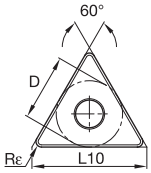
TNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160402MS	TNMG3305MS	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160404MS	TNMG331MS	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160408MS	TNMG332MS	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220404MS	TNMG431MS	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220408MS	TNMG432MS	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
TNMG220412MS	TNMG433MS	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
TNMG270608MS	TNMG542MS	15,88	5/8	27,50	1.083	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TNMG270616MS	TNMG544MS	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● first choice
○ alternate choice

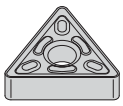
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

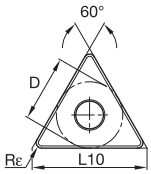




TNMG-MW

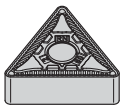
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MW	TNMG332MW	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MW	TNMG333MW	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

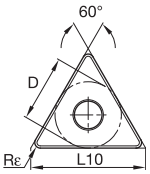




TNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404P	TNMG331P	9,53	3/8	16,50	.650	0,4	.016	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG160408P	TNMG332P	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220404P	TNMG431P	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220408P	TNMG432P	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220412P	TNMG433P	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–



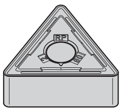


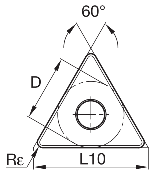
TNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RN	TNMG332RN	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412RN	TNMG333RN	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RN	TNMG432RN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412RN	TNMG433RN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416RN	TNMG434RN	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270608RN	TNMG542RN	15,88	5/8	27,50	1.083	0,8	1/32	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612RN	TNMG543RN	15,88	5/8	27,50	1.083	1,2	3/64	–	–	●	●	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270616RN	TNMG544RN	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG330924RN	TNMG666RN	19,05	3/4	33,00	1.299	2,4	3/32	–	–	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

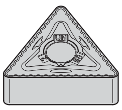
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

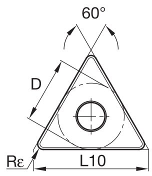




TNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RP	TNMG332RP	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	●	●	●	–	●	–	–	–	●	–	–	–	●	–	●	–	●	–	–	–	–	–	●	●	●	●	–	–
TNMG160412RP	TNMG333RP	9,53	3/8	16,50	.650	1,2	3/64	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	●	–	–	–	–	●	–	●	–	–
TNMG160416RP	TNMG334RP	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RP	TNMG432RP	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
TNMG220412RP	TNMG433RP	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–
TNMG220416RP	TNMG434RP	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–
TNMG220432RP	TNMG438RP	12,70	1/2	22,00	.866	3,2	1/8	–	–	●	–	●	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG270612RP	TNMG543RP	15,88	5/8	27,50	1.083	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	●	●	●	–	–	–
TNMG270616RP	TNMG544RP	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
TNMG330924RP	TNMG666RP	19,05	3/4	33,00	1.299	2,4	3/32	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–



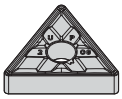


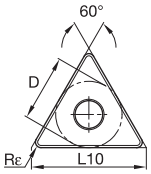
TNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408UN	TNMG332UN	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412UN	TNMG333UN	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160416UN	TNMG334UN	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UN	TNMG432UN	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412UN	TNMG433UN	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416UN	TNMG434UN	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

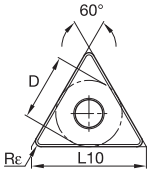




TNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMG160404UP	TNMG331UP	9,53	3/8	16,50	.650	0,4	1/64
TNMG160408UP	TNMG332UP	9,53	3/8	16,50	.650	0,8	1/32
TNMG220408UP	TNMG432UP	12,70	1/2	22,00	.866	0,8	1/32

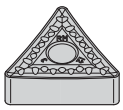
ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404UP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160408UP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–

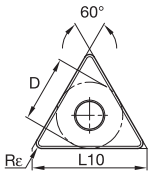


TNMM-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMM330924MR	TNMM666MR	19,05	3/4	33,00	1.299	2,4	3/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM330924MR	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





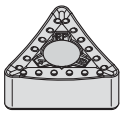
TNMM-RM

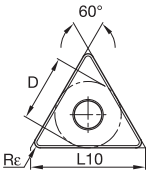
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMM160408RM	TNMM332RM	9,53	3/8	16,50	.650	0,8	1/32
TNMM160412RM	TNMM333RM	9,53	3/8	16,50	.650	1,2	3/64
TNMM220408RM	TNMM432RM	12,70	1/2	22,00	.866	0,8	1/32
TNMM220412RM	TNMM433RM	12,70	1/2	22,00	.866	1,2	3/64
TNMM220416RM	TNMM434RM	12,70	1/2	22,00	.866	1,6	1/16
TNMM270612RM	TNMM543RM	15,88	5/8	27,50	1.083	1,2	3/64
TNMM270616RM	TNMM544RM	15,88	5/8	27,50	1.083	1,6	1/16

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM160408RM	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM160412RM	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220408RM	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RM	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RM	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270612RM	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270616RM	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

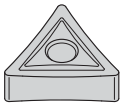


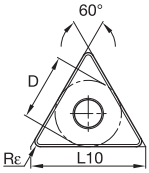


TNMM-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMM220408RP	TNMM432RP	12,70	1/2	22,00	.866	0,8	1/32
TNMM220412RP	TNMM433RP	12,70	1/2	22,00	.866	1,2	3/64
TNMM220416RP	TNMM434RP	12,70	1/2	22,00	.866	1,6	1/16

KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

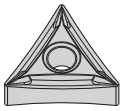


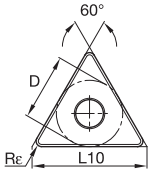


TNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMP160404	TNMP331	9,53	3/8	16,50	.650	0,4	1/64
TNMP160408	TNMP332	9,53	3/8	16,50	.650	0,8	1/32
TNMP220416	TNMP434	12,70	1/2	22,00	.866	1,6	1/16

KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



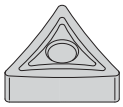


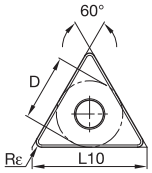
TNMP-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMP160404K	TNMP331K	9,53	3/8	16,50	.650	0,4	1/64
TNMP160408K	TNMP332K	9,53	3/8	16,50	.650	0,8	1/32
TNMP220408K	TNMP432K	12,70	1/2	22,00	.866	0,8	1/32

KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

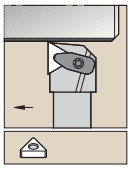


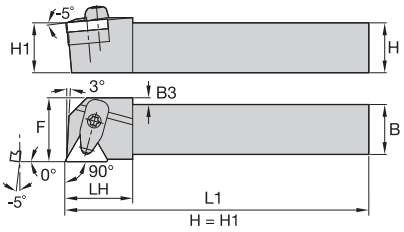


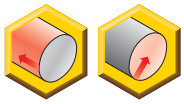
TNMS

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMS160404	TNMS331	9,53	3/8	16,50	.650	0,4	1/64
TNMS160408	TNMS332	9,53	3/8	16,50	.650	0,8	1/32
TNMS220408	TNMS432	12,70	1/2	22,00	.866	0,8	1/32

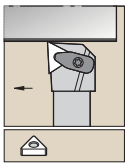


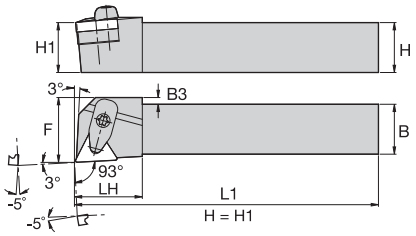


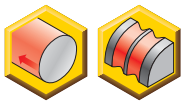


DTGN-KC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273035	**DTGNR123BKC3**	.75	.75	1.000	4.50	1.12	.25	TN..332	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875152	**DTGNR164DKC3**	1.00	1.00	1.250	6.00	1.25	.09	TN..432	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
2273038	**DTGNL163DKC3**	1.00	1.00	1.250	6.00	1.12	—	TN..332	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

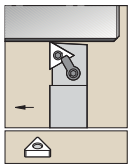


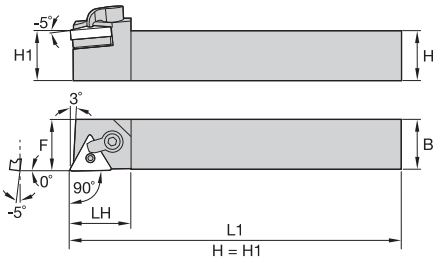


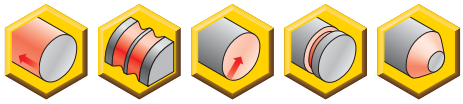


DTJN-KC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1893419	**DTJNR164DKC3**	1.00	1.00	1.250	6.00	1.25	.12	TN..432	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

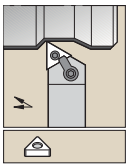


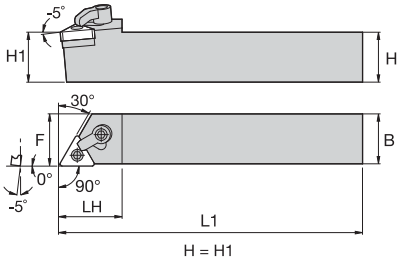




MTAN 0°

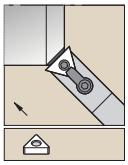
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096056	**MTANR082B**	.50	.50	.500	4.50	.96	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096058	**MTANR103B**	.63	.63	.625	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096052	**MTANR123B**	.75	.75	.750	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096053	**MTANR164D**	1.00	1.00	1.000	6.00	1.21	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
left hand													
1096065	**MTANL103B**	.63	.63	.625	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096059	**MTANL123B**	.75	.75	.750	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096060	**MTANL164D**	1.00	1.00	1.000	6.00	1.21	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

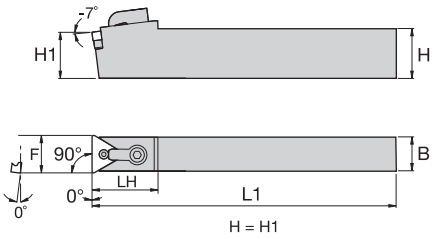




MTAN-S 0°

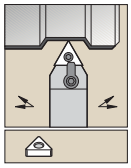
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808498	MTANRS123	.75	.75	.750	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808499	MTANRS163	1.00	1.00	1.000	6.00	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808500	MTANRS164	1.00	1.00	1.000	6.00	1.21	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1808501	MTANRS205	1.25	1.25	1.250	6.00	1.46	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32
left hand													
1808452	MTANLS123	.75	.75	.750	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808493	MTANLS163	1.00	1.00	1.000	6.00	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808494	MTANLS164	1.00	1.00	1.000	6.00	1.21	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1808495	MTANLS205	1.25	1.25	1.250	6.00	1.46	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32

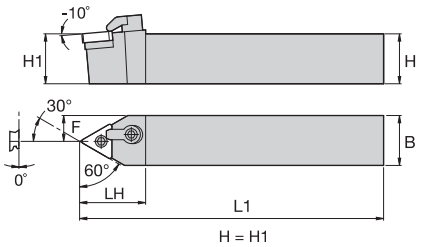


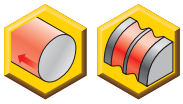


MTCN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096318	MTCNN083	.50	.50	.542	4.50	1.13	TN..332	ITSN323	KL34L	5/64	CK7	STC9	3/32
1096320	MTCNN443	1.00	.50	.542	8.00	1.13	TN..332	ITSN323	KL34L	5/64	CK7	STC9	3/32
1096319	MTCNN124	.75	.75	.775	6.00	1.43	TN..432	ITSN433	KL46	3/32	CK12	STC4	5/32
1096321	MTCNN644	1.00	.75	.775	8.00	1.43	TN..432	ITSN433	KL46	3/32	CK12	STC4	5/32

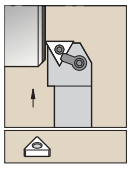


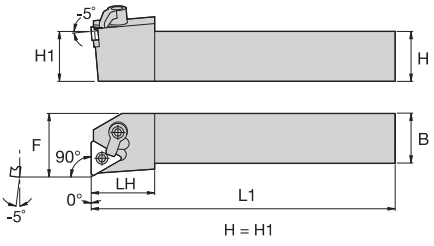




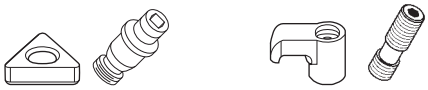
MTEN-S 30°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096350	**MTENNS082**	.50	.50	.250	4.50	.99	TN..221	**—**	**KL23**	1/16	**CK6**	**STC5**	3/32
1096351	**MTENNS103**	.63	.63	.312	4.50	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096352	**MTENNS123**	.75	.75	.375	4.50	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096353	**MTENNS163**	1.00	1.00	.500	5.00	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096354	**MTENNS164**	1.00	1.00	.500	6.00	1.40	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808504	**MTENNS854**	1.25	1.00	.500	6.00	1.41	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096355	**MTENNS205**	1.25	1.25	.625	6.00	1.64	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096356	**MTENNS246**	1.50	1.50	.750	7.00	1.95	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

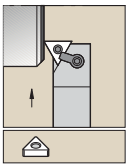


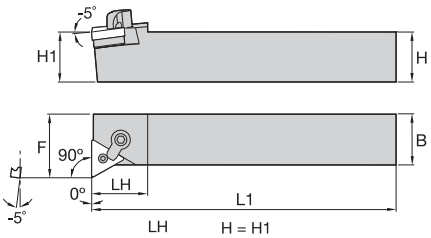


MTFN 0°



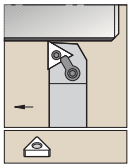
order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096212	**MTFNR123B**	.75	.75	1.000	4.50	.94	—	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096216	**MTFNR164C**	1.00	1.00	1.250	5.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096217	**MTFNR164D**	1.00	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096218	**MTFNR204D**	1.25	1.25	1.500	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096219	**MTFNR205D**	1.25	1.25	1.500	6.00	1.43	—	TN..432	**ITSN534**	**KL58**	3/32	**CK12**	**STC4**	5/32
1096221	**MTFNR246E**	1.50	1.50	2.000	7.00	1.50	—	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32
left hand														
1096226	**MTFNL123B**	.75	.75	1.000	4.50	.94	—	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096230	**MTFNL164C**	1.00	1.00	1.250	5.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096231	**MTFNL164D**	1.00	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096232	**MTFNL204D**	1.25	1.25	1.500	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1863297	**MTFNL854D**	1.25	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096234	**MTFNL245D**	1.50	1.50	2.000	6.00	1.43	.25	TN..543	**ITSN534**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096235	**MTFNL246E**	1.50	1.50	2.000	7.00	1.50	—	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

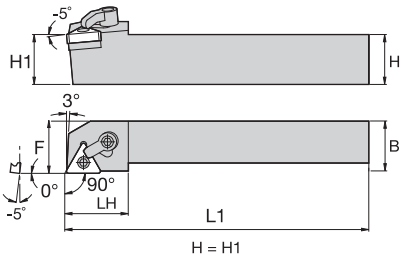




MTFN-S 0°

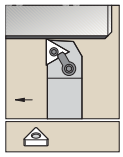
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808512	**MTFNRS164**	1.00	1.00	1.250	6.00	1.22	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
left hand													
1808506	**MTFNLS164**	1.00	1.00	1.250	6.00	1.22	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

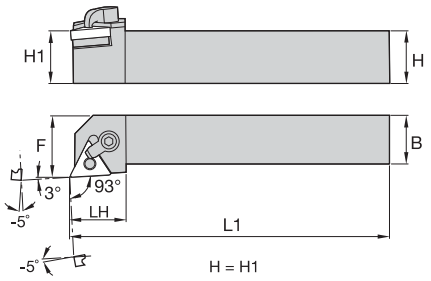


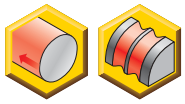


MTGN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096197	**MTGNR082B**	.50	.50	.625	4.50	.96	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096199	**MTGNR103B**	.63	.63	.875	4.50	1.12	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096188	**MTGNR123B**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096189	**MTGNR124B**	.75	.75	1.000	4.50	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096192	**MTGNR164C**	1.00	1.00	1.250	5.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808515	**MTGNR165C**	1.00	1.00	1.250	5.00	1.38	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096193	**MTGNR164D**	1.00	1.00	1.250	6.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096194	**MTGNR204D**	1.25	1.25	1.500	6.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096195	**MTGNR205D**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
left hand													
1096211	**MTGNL103B**	.63	.63	.875	4.50	1.12	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096200	**MTGNL123B**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096201	**MTGNL124B**	.75	.75	1.000	4.50	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096204	**MTGNL164C**	1.00	1.00	1.250	5.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096205	**MTGNL164D**	1.00	1.00	1.250	6.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK6**	**STC4**	5/32
1096206	**MTGNL204D**	1.25	1.25	1.500	6.00	1.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096207	**MTGNL205D**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32

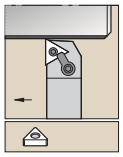


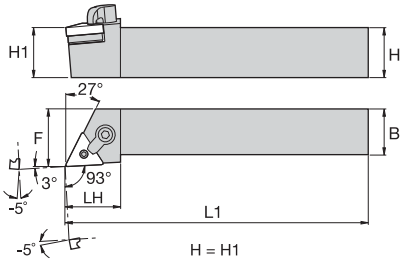


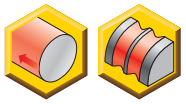


MTJN -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096008	**MTJNR082B**	.50	.50	.625	4.50	.72	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096012	**MTJNR103B**	.63	.63	.875	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096014	**MTJNR123B**	.75	.75	1.000	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096016	**MTJNR163C**	1.00	1.00	1.250	5.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096018	**MTJNR163D**	1.00	1.00	1.250	6.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096022	**MTJNR164D**	1.00	1.00	1.250	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096024	**MTJNR204D**	1.25	1.25	1.500	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096026	**MTJNR205D**	1.25	1.25	1.500	6.00	1.25	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
left hand													
1096009	**MTJNL082B**	.50	.50	.625	4.50	.72	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096013	**MTJNL103B**	.63	.63	.875	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096015	**MTJNL123B**	.75	.75	1.000	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096017	**MTJNL163C**	1.00	1.00	1.250	5.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096019	**MTJNL163D**	1.00	1.00	1.250	6.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096023	**MTJNL164D**	1.00	1.00	1.250	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096025	**MTJNL204D**	1.25	1.25	1.500	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096027	**MTJNL205D**	1.25	1.25	1.500	6.00	1.23	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32

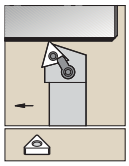


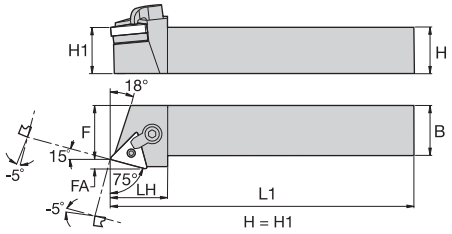


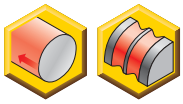


MTJN-S -3°

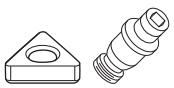
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096336	**MTJNRS123**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096338	**MTJNRS163**	1.00	1.00	1.250	6.00	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096341	**MTJNRS204**	1.25	1.25	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096337	**MTJNRS124**	.75	.75	1.000	4.50	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808522	**MTJNRS864**	1.50	1.00	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096339	**MTJNRS164**	1.00	1.00	1.250	6.00	1.32	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096340	**MTJNRS165**	1.00	1.00	1.250	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096342	**MTJNRS205**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808518	**MTJNRS246**	1.50	1.50	2.000	7.00	1.63	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32
left hand													
1096343	**MTJNLS123**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096345	**MTJNLS163**	1.00	1.00	1.250	6.00	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096348	**MTJNLS204**	1.25	1.25	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096344	**MTJNLS124**	.75	.75	1.000	4.50	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096346	**MTJNLS164**	1.00	1.00	1.250	6.00	1.32	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096347	**MTJNLS165**	1.00	1.00	1.250	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096349	**MTJNLS205**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808516	**MTJNLS246**	1.50	1.50	2.000	7.00	1.63	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

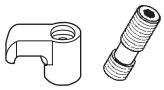






MTRN 15°

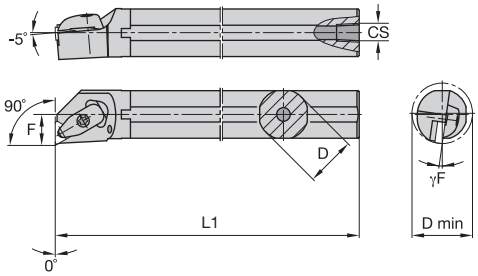




order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096324	**MTRNR164D**	1.00	1.00	1.040	6.00	1.24	.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

Kenclamp™ Boring Bars

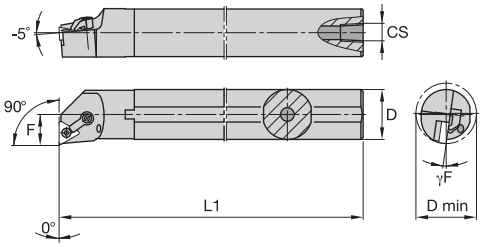
Steel shank with through coolant.



A-DTFN-KC 0°

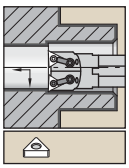
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp assembly	slotted pin	Torx Plus
right hand											
2408469	**A16TDTFNR3KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	TN..332	**CM234RLP ASSY**	**SSP025016M**	9 IP

Steel shank with through coolant.

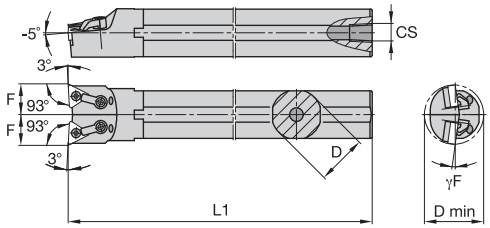


A-MTFN 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096385	**A16MTFNR3**	1.000	1.220	.640	12.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1096386	**A20UMTFNR3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1096387	**A24UMTFNR3**	1.500	1.760	–	14.00	1/4-18 NPT	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1096389	**A24UMTFNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096388	**A28MTFNR3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1096390	**A28MTFNR4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-10.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096391	**A32MTFNR4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-8.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
left hand														
1096394	**A16MTFNL3**	1.000	1.220	.640	12.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32

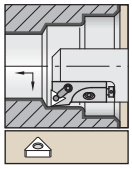


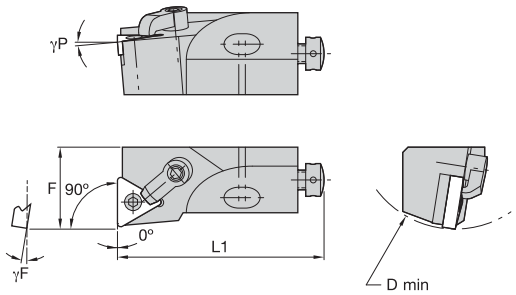
Steel shank with through coolant.



A-MTUN-D -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	lock pin	hex	clamp	clamp screw	hex
1096381	**A20MTUNR3D**	1.250	1.550	.765	14.00	1/4-18 NPT	-10.0	TN..332	**KL33L**	5/64	**CK7**	**STC9**	3/32



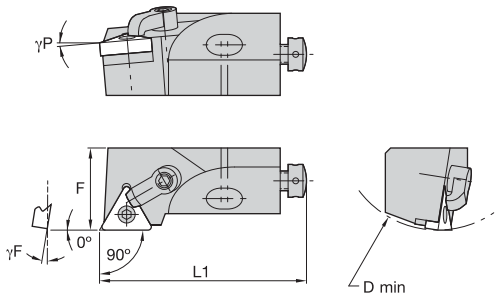


MTFN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2078236	**MTFNR12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
2074429	**MTFNR16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
3330208	**MTFNR20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432
left hand							
2057426	**MTFNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
2193621	**MTFNL16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
3330207	**MTFNL20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2 mm	**KUAM25**	2 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

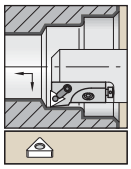


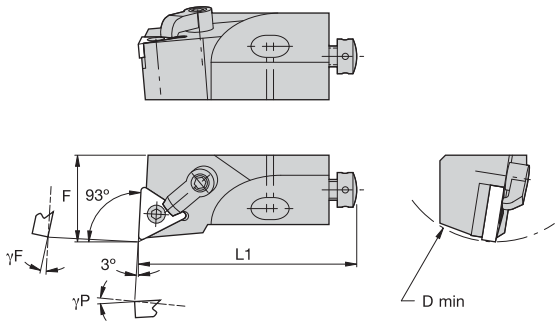
MTGN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2114041	**MTGNR12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
3330285	**MTGNR16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
left hand							
3346275	**MTGNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
3330209	**MTGNL20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



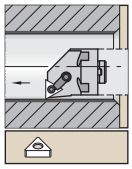


MTUN -3°

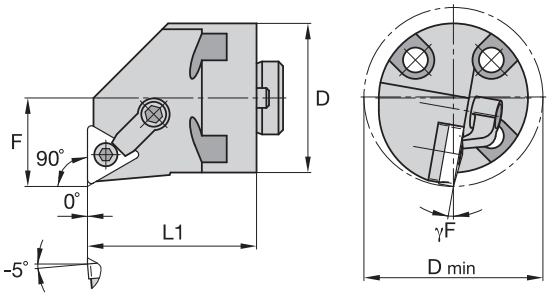
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098536	**MTUNR20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432
left hand							
1098529	**MTUNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
1098535	**MTUNL16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	—	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	—	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**191.407**	5 mm	**CSWM 080 050**



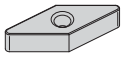
With through coolant.

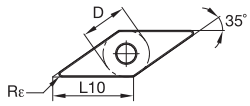


H-MTFN 0°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095313	**H20MTFNR3**	1.250	1.470	.765	1.63	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1095361	**H24MTFNR3**	1.500	1.760	.890	1.63	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1095417	**H28MTFNR3**	1.750	2.010	1.015	1.63	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1095514	**H32MTFNR4**	2.000	2.400	1.281	1.63	-8.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095573	**H40MTFNR4**	2.500	3.030	1.531	1.63	-6.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

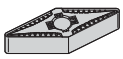
● first choice
○ alternate choice

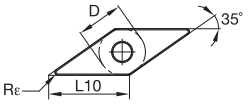




VNGA

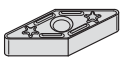
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGA160404	VNGA331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNGA160408	VNGA332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

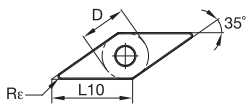




VNGG-FS

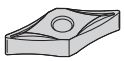
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160401FS	VNGG330FS	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
VNGG160402FS	VNGG3305FS	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNGG160404FS	VNGG331FS	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
VNGG160408FS	VNGG332FS	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

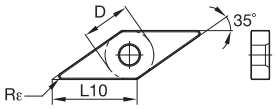




VNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160402LF	VNGG3305LF	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160404LF	VNGG331LF	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160408LF	VNGG332LF	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–
VNGG220408LF	VNGG432LF	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

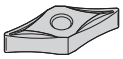


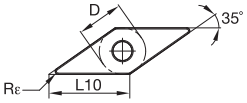


VNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160401	VNGP330	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP160402	VNGP3305	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP220404	VNGP431	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGP220408	VNGP432	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

● first choice
○ alternate choice





VNGP-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160404K	VNGP331K	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
VNGP160408K	VNGP332K	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
VPGP443K	VPGP443K	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
P								●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M																○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K								○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																															●	●	●	●	●	●	●	
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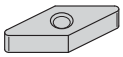
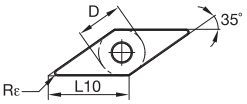
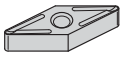
H																																						

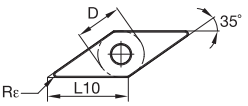




VNMA

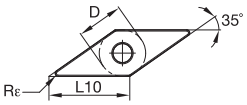
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMA160408	VNMA332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





VNMG

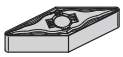
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408	VNMG332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG160412	VNMG333	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220408	VNMG432	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220412	VNMG433	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

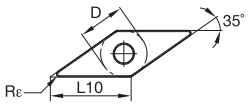


VNMG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408LF	VNMG332LF	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220404LF	VNMG431LF	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408LF	VNMG432LF	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

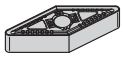
● first choice
○ alternate choice

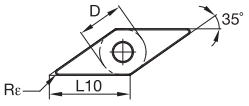




VNMG-FF

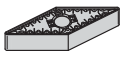
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FF	VNMG331FF	9,53	3/8	16,61	.654	0,4	1/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FF	VNMG332FF	9,53	3/8	16,61	.654	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

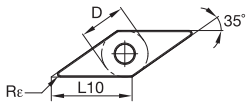




VNMG-FN

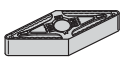
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FN	VNMG331FN	9,53	3/8	16,61	.654	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VNMG160408FN	VNMG332FN	9,53	3/8	16,61	.654	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

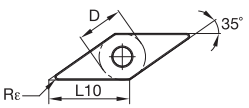




VNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FP	VNMG331FP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FP	VNMG332FP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●



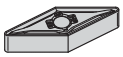


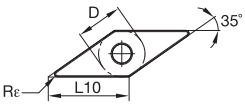
VNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MN	VNMG331MN	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MN	VNMG332MN	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412MN	VNMG333MN	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

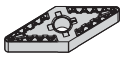
● first choice
○ alternate choice

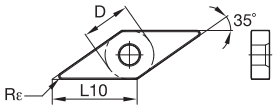




VNMG-MP

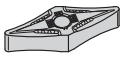
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
								P ●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
								M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
								K	○	○	○	○	○	○				●	●	●	●	●	●							●	●	●	●	●	●	●		●
								N																							●	●	●	●	●	●	●	
								S																							●	●	●	●	●	●		
								H																														
VNMG160404MP	VNMG331MP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160408MP	VNMG332MP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160412MP	VNMG333MP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

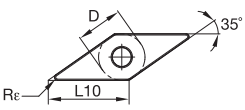




VNMG-MR

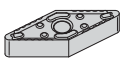
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160412MR	VNMG333MR	9,52	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MR	VNMG332MR	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

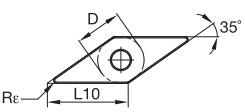




VNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160401MS	VNMG330MS	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG160402MS	VNMG3305MS	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160404MS	VNMG331MS	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160408MS	VNMG332MS	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG220404MS	VNMG431MS	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG220408MS	VNMG432MS	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–



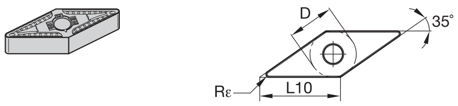


VNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404P	VNMG331P	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNMG160408P	VNMG332P	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

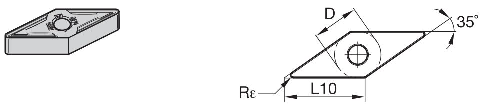
● first choice
○ alternate choice

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															



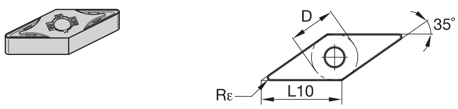
■ VNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RN	VNMG332RN	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412RN	VNMG333RN	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408RN	VNMG432RN	12,70	1/2	22,14	.872	0,8	1/32	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220412RN	VNMG433RN	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



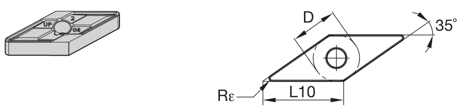
■ VNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RP	VNMG332RP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	●	●	●	●	–	–
VNMG160412RP	VNMG333RP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–



■ VNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UN	VNMG331UN	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408UN	VNMG332UN	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



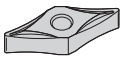
■ VNMG-UP

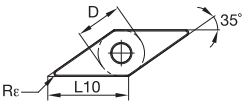
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UP	VNMG331UP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–
VNMG160408UP	VNMG332UP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	●	–	–	–
VNMG160412UP	VNMG333UP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

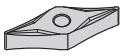
VNMP

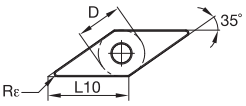




ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404	VNMP331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–
VNMP160408	VNMP332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

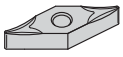
VNMP-K

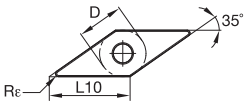




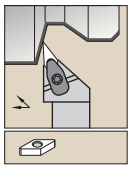
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404K	VNMP331K	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMP160408K	VNMP332K	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

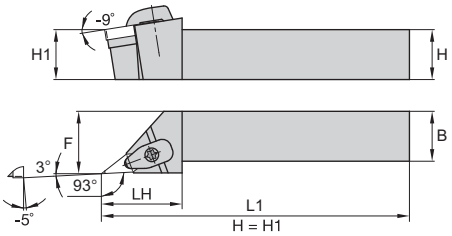
VNMS

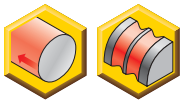




ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMS160404	VNMS331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
VNMS160408	VNMS332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

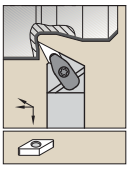


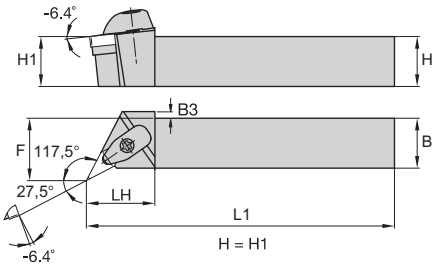




DVJN-KC -3°

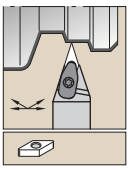
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand													
2503996	**DVJNR123CKC3**	.75	.75	1.000	5.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2503998	**DVJNR163DKC3**	1.00	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504000	**DVJNR853DKC3**	1.25	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504002	**DVJNR164DKC3**	1.00	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
2504004	**DVJNR854DKC3**	1.25	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
left hand													
2503997	**DVJNL123CKC3**	.75	.75	1.000	5.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2503999	**DVJNL163DKC3**	1.00	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504001	**DVJNL853DKC3**	1.25	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504003	**DVJNL164DKC3**	1.00	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
2504005	**DVJNL854DKC3**	1.25	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**

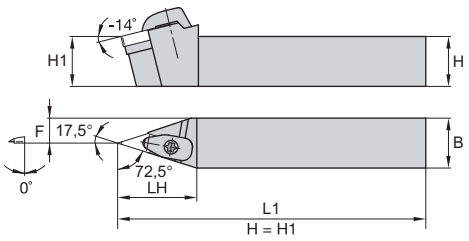




DVON-KC -117.5°

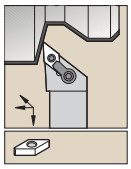
order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2504006	DVONR123CKC3	.75	.75	1.000	5.00	1.50	.25	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504008	DVONR163DKC3	1.00	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504010	DVONR853DKC3	1.25	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
left hand														
2504007	DVONL123CKC3	.75	.75	1.000	5.00	1.50	.25	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504009	DVONL163DKC3	1.00	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504011	DVONL853DKC3	1.25	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M

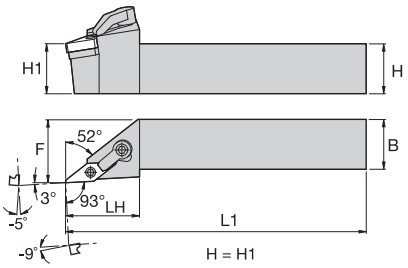


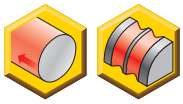


DVVN-KC 17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
2504012	DVVNN123CKC3	.75	.75	.371	5.00	1.94	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504013	DVVNN163DKC3	1.00	1.00	.496	6.00	1.97	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504014	DVVNN853DKC3	1.25	1.00	.496	6.00	1.88	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504015	DVVNN164DKC3	1.00	1.00	.496	6.00	2.28	VN..432	IVSN432	KMSP415IP	15 IP	CM235R ASSY	15 IP	SSP025016M

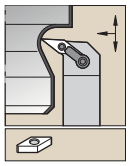


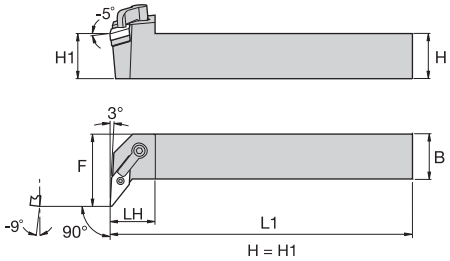


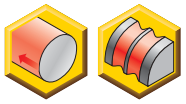


MVJN -3°

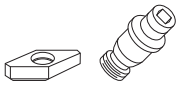
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1863299	**MVJNR123A**	.75	.75	1.000	4.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096286	**MVJNR123B**	.75	.75	1.000	4.50	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096288	**MVJNR163C**	1.00	1.00	1.250	5.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096289	**MVJNR163D**	1.00	1.00	1.250	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096292	**MVJNR203D**	1.25	1.25	1.500	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808563	**MVJNR243D**	1.50	1.50	2.000	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096287	**MVJNR124B**	.75	.75	1.000	4.50	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096290	**MVJNR164C**	1.00	1.00	1.250	5.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096291	**MVJNR164D**	1.00	1.00	1.250	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096293	**MVJNR204D**	1.25	1.25	1.500	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096294	**MVJNR244D**	1.50	1.50	2.000	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1808550	**MVJNL123A**	.75	.75	1.000	4.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096295	**MVJNL123B**	.75	.75	1.000	4.50	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096297	**MVJNL163C**	1.00	1.00	1.250	5.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096298	**MVJNL163D**	1.00	1.00	1.250	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096301	**MVJNL203D**	1.25	1.25	1.500	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096299	**MVJNL164C**	1.00	1.00	1.250	5.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096300	**MVJNL164D**	1.00	1.00	1.250	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096302	**MVJNL204D**	1.25	1.25	1.500	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096303	**MVJNL244D**	1.50	1.50	2.000	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32

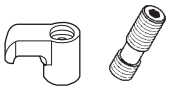




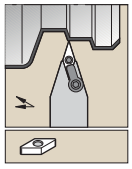


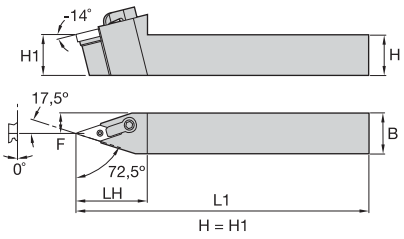
MVUN -3°



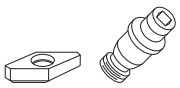


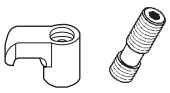
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1863302	**MVUNR204C**	1.25	1.25	2.000	5.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808556	**MVUNR204D**	1.25	1.25	2.000	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808555	**MVUNR244D**	1.50	1.50	2.250	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1808557	**MVUNL204D**	1.25	1.25	2.000	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1843889	**MVUNL244D**	1.50	1.50	2.250	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



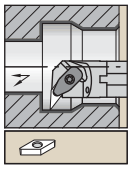


MVVN 17.5°

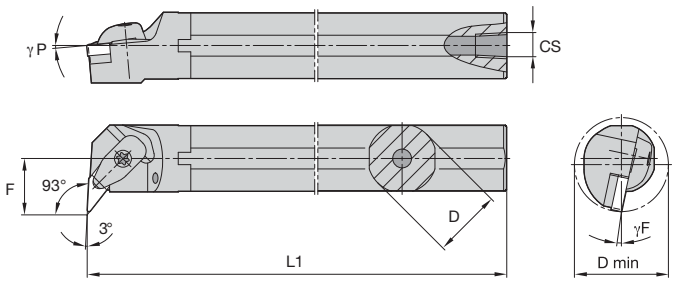




order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096002	**MVVNN123B**	.75	.75	.375	4.50	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096003	**MVVNN163C**	1.00	1.00	.500	5.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096004	**MVVNN163D**	1.00	1.00	.500	6.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096006	**MVVNN203D**	1.25	1.25	.625	6.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096005	**MVVNN164D**	1.00	1.00	.500	6.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096007	**MVVNN204D**	1.25	1.25	.625	6.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808554	**MVVNN244E**	1.50	1.50	.750	7.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



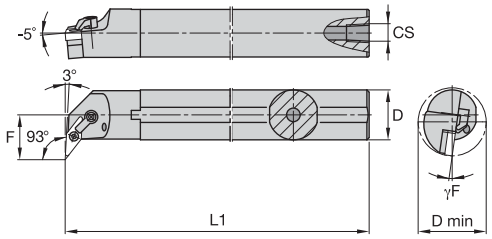
Steel shank with through coolant.



A-DVU-KC 3°

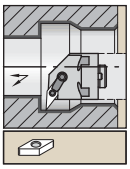
order number	catalog number	D	D min	F	L1	CS	γP°	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2659293	**A20UDVUNR3KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-5.0	-9.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2659295	**A24UDVUNR3KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-5.0	-8.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP
left hand															
2659294	**A24UDVUNL3KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-5.0	-8.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP

Steel shank with through coolant.

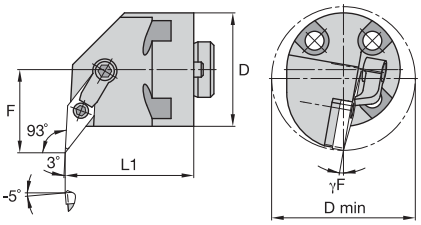


A-MVUN -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096466	**A20UMVUNR3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096467	**A24UMVUNR3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808226	**A32MVUNR4**	2.000	2.500	1.325	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808230	**A40MVUNR4**	2.500	3.250	1.750	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand														
1096468	**A20UMVUNL3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096469	**A24UMVUNL3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808225	**A32MVUNL4**	2.000	2.500	1.325	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808229	**A40MVUNL4**	2.500	3.250	1.750	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



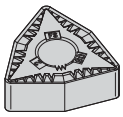
With through coolant.

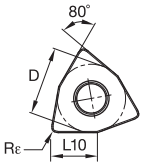


H-MVUN -3°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095317	**H20MVUNR3**	1.250	1.705	1.000	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095365	**H24MVUNR3**	1.500	2.000	1.125	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
2384979	**H32MVUNR3**	2.000	2.650	1.325	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095461	**H32MVUNR4**	2.000	2.500	1.375	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
2384977	**H40MVUNR3**	2.500	3.250	1.750	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095538	**H40MVUNR4**	2.500	3.250	1.750	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1095318	**H20MVUNL3**	1.250	1.705	1.000	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095366	**H24MVUNL3**	1.500	2.000	1.125	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
2384980	**H32MVUNL3**	2.000	2.650	1.325	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095515	**H32MVUNL4**	2.000	2.500	1.375	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
2384978	**H40MVUNL3**	2.500	3.250	1.750	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095539	**H40MVUNL4**	2.500	3.250	1.750	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32

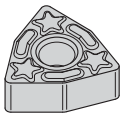
● first choice
○ alternate choice

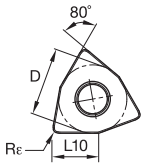




WNGG-FS

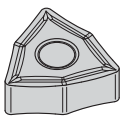
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080404FS	WNGG431FS	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNGG080408FS	WNGG432FS	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

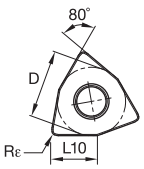




WNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080401LF	WNGG430LF	12,70	1/2	8,69	.342	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WNGG080402LF	WNGG4305LF	12,70	1/2	8,69	.342	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080404LF	WNGG431LF	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080408LF	WNGG432LF	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



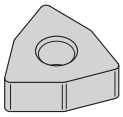


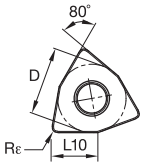
WNGP-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGP080408K	WNGP432K	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

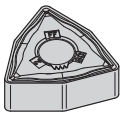


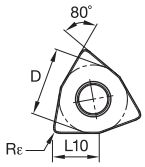


WNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMA060408	WNMA332	9,53	3/8	6,52	.257	0,8	1/32
WNMA060412	WNMA333	9,53	3/8	6,52	.257	1,2	3/64
WNMA080408	WNMA432	12,70	1/2	8,69	.342	0,8	1/32
WNMA080412	WNMA433	12,70	1/2	8,69	.342	1,2	3/64
WNMA080416	WNMA434	12,70	1/2	8,69	.342	1,6	1/16

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMA060408	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA060412	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080408	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080412	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080416	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

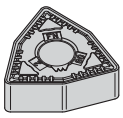


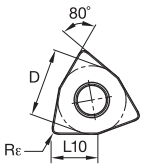


WNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMG060404FF	WNMG331FF	9,53	3/8	6,52	.257	0,4	1/64
WNMG060408FF	WNMG332FF	9,53	3/8	6,52	.257	0,8	1/32
WNMG080404FF	WNMG431FF	12,70	1/2	8,69	.342	0,4	1/64
WNMG080408FF	WNMG432FF	12,70	1/2	8,69	.342	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG060408FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
WNMG080404FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





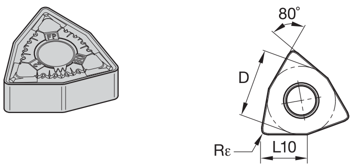
WNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMG060404FN	WNMG331FN	9,53	3/8	6,52	.257	0,4	1/64
WNMG060408FN	WNMG332FN	9,53	3/8	6,52	.257	0,8	1/32
WNMG080404FN	WNMG431FN	12,70	1/2	8,69	.342	0,4	1/64
WNMG080408FN	WNMG432FN	12,70	1/2	8,69	.342	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FN	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG060408FN	–	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080404FN	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080408FN	–	●	●	●	●	●	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

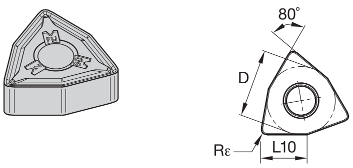
● first choice
○ alternate choice

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															



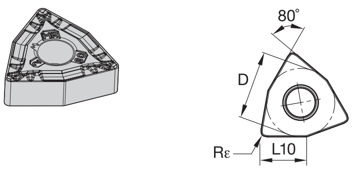
WNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FP	WNMG331FP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408FP	WNMG332FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–
WNMG080404FP	WNMG431FP	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FP	WNMG432FP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080412FP	WNMG433FP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–



WNMG-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FW	WNMG331FW	9,53	3/8	6,52	.257	0,4	1/64	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG060408FW	WNMG332FW	9,53	3/8	6,52	.257	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG060412FW	WNMG333FW	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404FW	WNMG431FW	12,70	1/2	8,69	.342	0,4	1/64	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG080408FW	WNMG432FW	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG080412FW	WNMG433FW	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

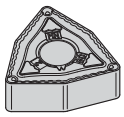


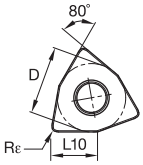
WNMG-MG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG080408MG	WNMG432MG	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

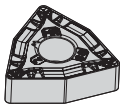
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

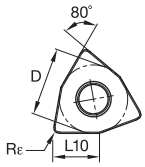




WNMG-MN

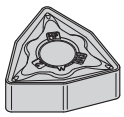
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MN	WNMG331MN	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060408MN	WNMG332MN	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412MN	WNMG333MN	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MN	WNMG432MN	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412MN	WNMG433MN	12,70	1/2	8,69	.342	1,2	3/64	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416MN	WNMG434MN	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

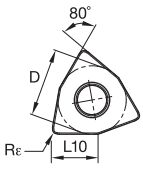




WNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MR	WNMG332MR	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MR	WNMG432MR	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	●	●	–	–	●	–	–	–	–	–
WNMG080412MR	WNMG433MR	12,70	1/2	8,69	.342	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–
WNMG080416MR	WNMG434MR	12,70	1/2	8,69	.342	1,6	1/16	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

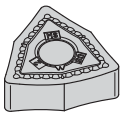


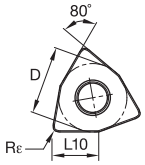


WNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MP	WNMG331MP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408MP	WNMG332MP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	●	–	●	–	–	–
WNMG060412MP	WNMG333MP	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MP	WNMG432MP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
WNMG080412MP	WNMG433MP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	●	–	●	–	–	–

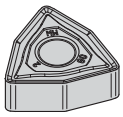
● first choice
○ alternate choice

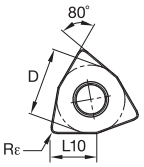




WNMG-MS

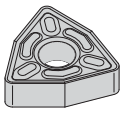
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MS	WNMG332MS	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080401MS	WNMG430MS	12,70	1/2	8,69	.342	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG080402MS	WNMG4305MS	12,70	1/2	8,69	.342	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
WNMG080404MS	WNMG431MS	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080408MS	WNMG432MS	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–

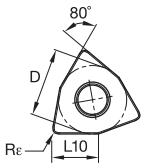




WNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MW	WNMG332MW	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MW	WNMG432MW	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–
WNMG080412MW	WNMG433MW	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

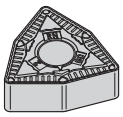


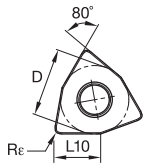


WNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG080404P	WNMG431P	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408P	WNMG432P	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

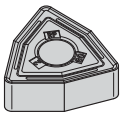
● first choice
○ alternate choice

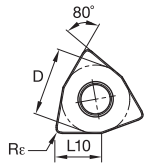




WNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
	P							●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
	M															○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
	K							○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●	●
	N																														●	●	●	●	●	●	●	
	S																														●	●	●	●	●	●		
	H																																					
WNMG060408RN	WNMG332RN	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412RN	WNMG333RN	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RN	WNMG432RN	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412RN	WNMG433RN	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
WNMG080416RN	WNMG434RN	12,70	1/2	8,69	.342	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

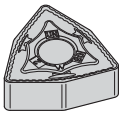


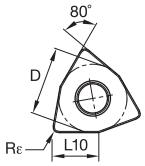


WNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408RP	WNMG332RP	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	●	–	–	–
WNMG060412RP	WNMG333RP	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RP	WNMG432RP	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
WNMG080412RP	WNMG433RP	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	–	●	–	–	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	●	●	●	–	–	–
WNMG080416RP	WNMG434RP	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

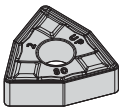
● first choice
○ alternate choice

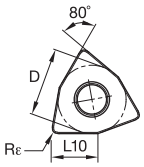




WNMG-UN

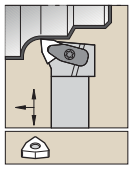
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408UN	WNMG332UN	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404UN	WNMG431UN	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UN	WNMG432UN	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412UN	WNMG433UN	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416UN	WNMG434UN	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

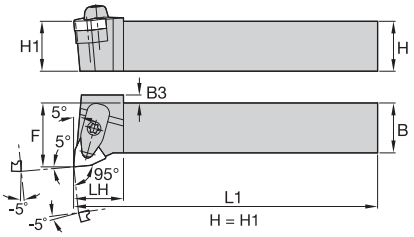




WNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408UP	WNMG332UP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	–
WNMG080408UP	WNMG432UP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–
WNMG080412UP	WNMG433UP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	●	–	–	–	–

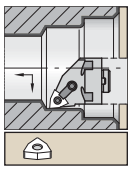




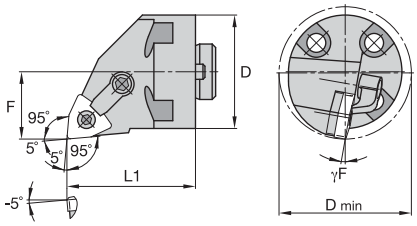
DWLN-KC -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273045	**DWLNR123BKC3**	.75	.75	1.000	4.50	1.00	.28	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273047	**DWLNR163CKC3**	1.00	1.00	1.250	5.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273049	**DWLNR163DKC3**	1.00	1.00	1.250	6.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875144	**DWLNR164CKC3**	1.00	1.00	1.250	5.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875138	**DWLNR164DKC3**	1.00	1.00	1.250	6.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875166	**DWLNR204DKC3**	1.25	1.25	1.500	6.00	1.00	—	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
2273046	**DWLNL123BKC3**	.75	.75	1.000	4.50	1.00	.28	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273048	**DWLNL163CKC3**	1.00	1.00	1.250	5.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875155	**DWLNL164CKC3**	1.00	1.00	1.250	5.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875143	**DWLNL164DKC3**	1.00	1.00	1.250	6.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875172	**DWLNL204DKC3**	1.25	1.25	1.500	6.00	1.00	—	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

Kenloc™ Boring Heads

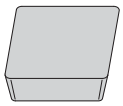


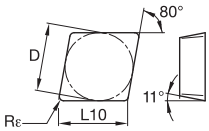
With through coolant.



H-MWLN -5°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095341	**H20MWLNR4**	1.250	1.470	.765	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095395	**H24MWLNR4**	1.500	1.760	.890	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095442	**H28MWLNR4**	1.750	2.010	1.015	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095489	**H32MWLNR4**	2.000	2.400	1.281	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096482	**H16MWLNL3**	1.000	1.200	.640	1.63	-12.0	WN..332	—	**KL33L**	5/64	**CK6**	**STC5**	3/32
1095400	**H24MWLNL4**	1.500	1.760	.890	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095495	**H32MWLNL4**	2.000	2.400	1.281	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8



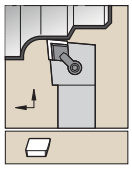


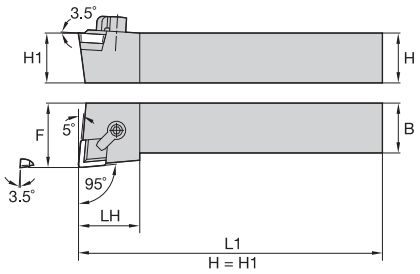
● first choice
○ alternate choice

		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

CPGN/CPG

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
		mm	in	mm	in	mm	in								
CPGN120304	**CPG421**	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	–	–	–
CPGN120308	**CPG422**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●	●	–	–	–

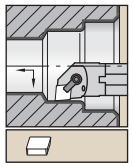




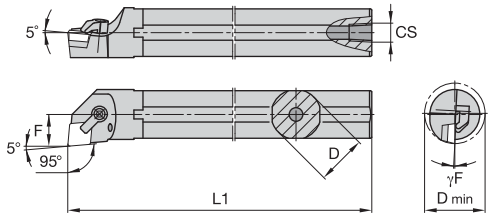
CCLP -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096902	**CCLPR084V**	.50	.50	.750	3.50	1.00	CP.422	**SM369**	**S19**	1/16	**CK7**	**STC9**	3/32
1096903	**CCLPR124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096904	**CCLPR164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096898	**CCLPL124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096899	**CCLPL164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32

Kendex Boring Bars



Steel shank with through coolant.

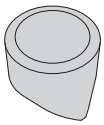


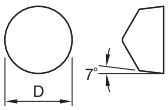
A-CCLP-5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1094896	**A16CCLPR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-3.0	CP.422	**SM369**	**S19**	1/16	**CK20**	**STC11**	1/8
1094900	**A24CCLPR4**	1.500	1.760	.890	14.00	1/4-18 NPT	.0	CP.422	**SM369**	**S19**	1/16	**CK22**	**STC26**	1/8

● first choice
○ alternate choice

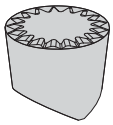
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

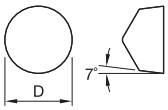




RCGV

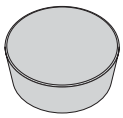
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGV060400	RCGV23	6,35	1/4	—	—	—	—	–	–	–	–	–	–	●	●
RCGV090700	RCGV35	9,53	3/8	—	—	—	—	–	–	–	–	–	–	–	●
RCGV120700	RCGV45	12,70	1/2	—	—	—	—	–	–	–	●	–	–	–	●

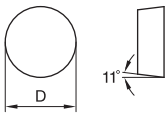




RCGV-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGX060400MP	RCGV23MP	6,35	1/4	—	—	—	—	–	–	–	–	–	●	–	–
RCGX120700MP	RCGV45MP	12,70	1/2	—	—	—	—	–	–	–	–	–	●	–	–



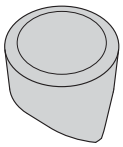


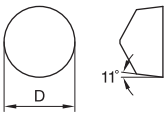
RPGN/RPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGN120300	RPG42	12,70	1/2	—	—	—	—	–	–	–	●	–	–	–	–

● first choice
○ alternate choice

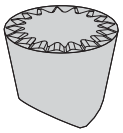
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

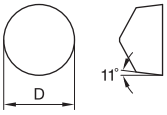




RPGV

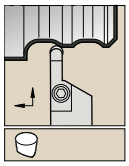
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGV060400	RPGV23	6,35	1/4	–	–	–	–	–	–	–	–	–	–	–	●
RPGV090700	RPGV35	9,53	3/8	–	–	–	–	–	–	–	–	–	–	–	●
RPGV120700	RPGV45	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	●

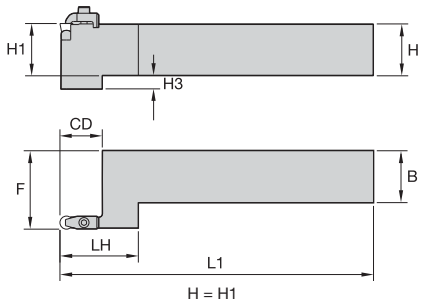




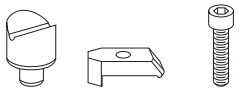
RPGV-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGX060400MP	RPGV23MP	6,35	1/4	–	–	–	–	–	–	–	–	–	●	–	–
RPGX090700MP	RPGV35MP	9,53	3/8	–	–	–	–	–	–	–	–	–	●	–	–
RPGV120700MP	RPGV45MP	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	●
RPGX120700MP	RPGV45MP	12,70	1/2	–	–	–	–	–	–	–	–	–	●	–	–

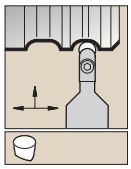


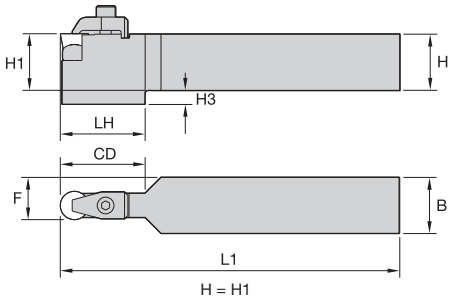


411-VRS

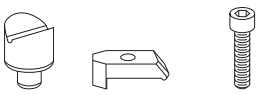


order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
right hand													
1298873	**4111492VRS**	1.00	1.00	1.500	6.00	1.50	.75	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
1298876	**4111573VRS**	1.00	1.00	1.000	6.00	1.19	1.13	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1156449	**4111593VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298882	**4111654VRS**	1.00	1.00	1.000	6.00	1.56	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
1298884	**4111674VRS**	1.25	1.25	1.250	6.00	1.56	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand													
1298879	**4111603VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298883	**4111664VRS**	1.00	1.00	1.000	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm

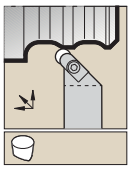


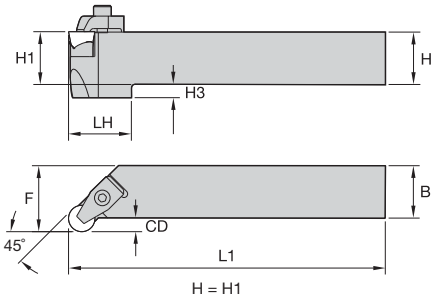


CRDP

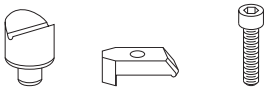


order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
3641572	**CRDPN162DV**	1.00	1.00	.496	6.00	—	.75	—	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641593	**CRDPN163DV**	1.00	1.00	.496	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641594	**CRDPN203DV**	1.25	1.25	.621	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641595	**CRDPN164DV**	1.00	1.00	.496	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
3641597	**CRDPN204DV**	1.25	1.25	.621	6.00	—	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm



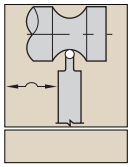


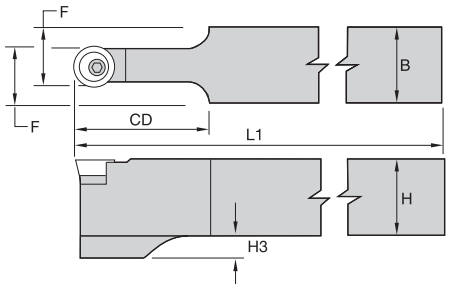
CRGP



order number	catalog number	H	B	F	L1	CD	gage insert	nest	clamp	clamp screw	hex
right hand											
3641603	**CRGPR162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641611	**CRGPR204DV**	1.25	1.25	1.500	6.00	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand											
3641604	**CRGPL162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641608	**CRGPL203DV**	1.25	1.25	1.500	6.00	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm

NOTE: CRGP toolholders are able to use RPGX and RCGX insert styles.



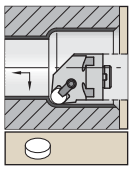


Bevel Lock

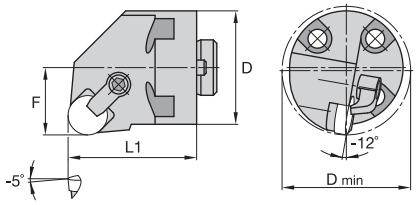
order number	catalog number	H	B	F	L1	CD	H3	gage insert	shim	lock pin	hex
1095802	**PROON164D**	1.00	1.00	.750	6.00	1.86	—	RC..43	**SMRN42B**	**BP46**	3/32
1095803	**PROON204D**	1.25	1.25	.875	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095806	**PROON244D**	1.50	1.50	1.000	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095804	**PROON206D**	1.25	1.25	1.000	6.00	2.36	—	RC..64	**SMRN63B**	**BP68**	1/8
1095808	**PROON246**	1.50	1.50	1.125	8.00	2.37	—	RC..64	**SMRN63B**	**BP68**	1/8
1095805	**PROON208D**	1.25	1.25	1.125	6.00	2.32	.25	RC..86	**SMRN84B**	**BP812**	9/64

NOTE: Order numbers 1095802, 1095803, and 1095806 accept RCGH-43 inserts only. RCMH-43 inserts will not fit.

Kendex™ Boring Heads • Kendex Positive Inserts



With through coolant.

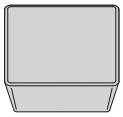


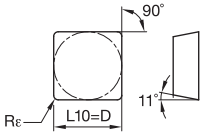
H-CRGN

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand											
1095001	**H24CRGNR4**	1.500	1.760	.890	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32
1095003	**H32CRGNR4**	2.000	2.400	1.281	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32

● first choice
○ alternate choice

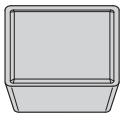
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

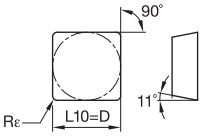




SPGN/SPG

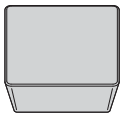
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGN090304	SPG321	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	●
SPGN090308	SPG322	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	–	●	–	–	●
SPGN120304	SPG421	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	●	–	●	●
SPGN120308	SPG422	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●	●	–	●	●
SPGN120312	SPG423	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–
SPGN120412	SPG433	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	●	–
SPGN120316	SPG424	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	●
SPGN190408	SPG632	19,05	3/4	19,05	.750	0,8	1/32	–	–	–	–	●	–	–	–
SPGN190412	SPG633	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	–	–	●	–

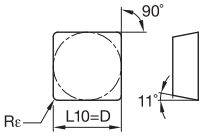




SPGR–K/SPGF

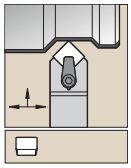
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGR090308K	SPGF322	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	●	●
SPGR120308K	SPGF422	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–	–	–	–	–

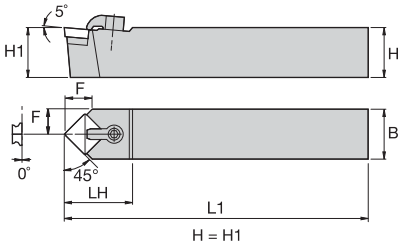




SPUN/SPU

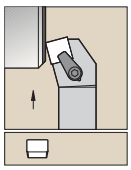
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPUN120304	SPU421	12,70	1/2	12,70	.500	0,4	1/64	●	–	–	–	●	–	–	–
SPUN120308	SPU422	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–	●	–	–	–
SPUN120312	SPU423	12,70	1/2	12,70	.500	1,2	3/64	●	–	–	–	–	–	–	–

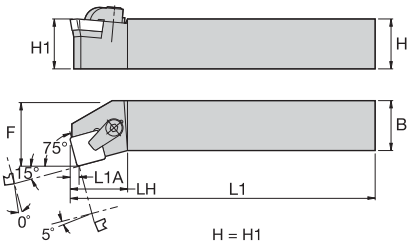


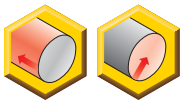


CSDP 45°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096909	**CSDPN103**	.63	.63	.312	4.50	.94	SP.322	**SM120**	**SL344**	—	**CK7**	**STC5**	3/32
1096910	**CSDPN124**	.75	.75	.375	4.50	1.38	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096912	**CSDPN644**	1.00	.75	.375	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096911	**CSDPN164**	1.00	1.00	.500	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096914	**CSDPN856**	1.25	1.00	.500	6.00	1.82	SP.633	**SM36**	**S125**	3/32	**CK29**	**STC19**	3/16

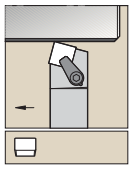


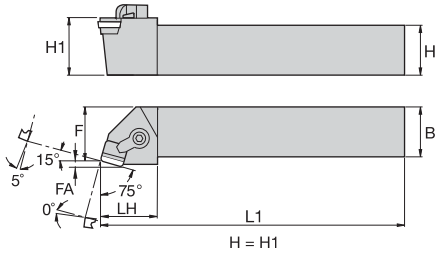


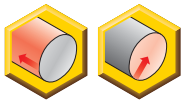


CSKP 15°

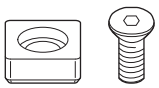
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096920	**CSKPR164D**	1.00	1.00	1.250	6.00	1.13	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand														
1096917	**CSKPL164D**	1.00	1.00	1.250	6.00	1.13	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32

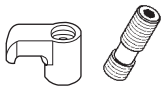




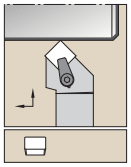


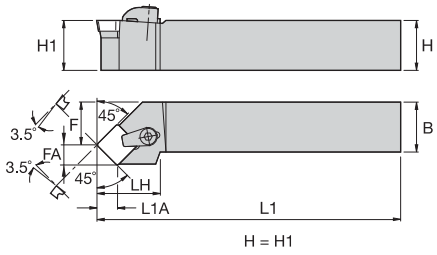
CSRP 15°



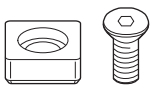


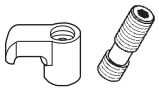
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096932	**CSRPR164D**	1.00	1.00	1.048	6.00	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096934	**CSRPR866E**	1.50	1.00	1.060	7.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096925	**CSRPL124B**	.75	.75	.855	4.50	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096926	**CSRPL164D**	1.00	1.00	1.048	6.00	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096927	**CSRPL856D**	1.25	1.00	1.060	6.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32
1096928	**CSRPL866E**	1.50	1.00	1.060	7.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32



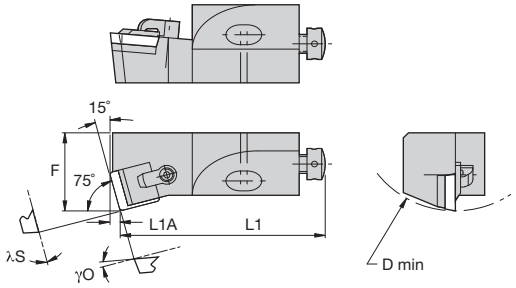


CSSP 45°





order number	catalog number	H	B	F	L1	LH	FA	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1085234	**CSSPR164D**	1.00	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096937	**CSSPR854D**	1.25	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand															
1096691	**CSSPL164D**	1.00	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096935	**CSSPL854D**	1.25	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096693	**CSSPL856D**	1.25	1.00	1.020	6.00	1.50	.48	.53	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32

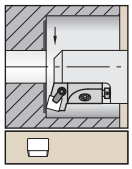


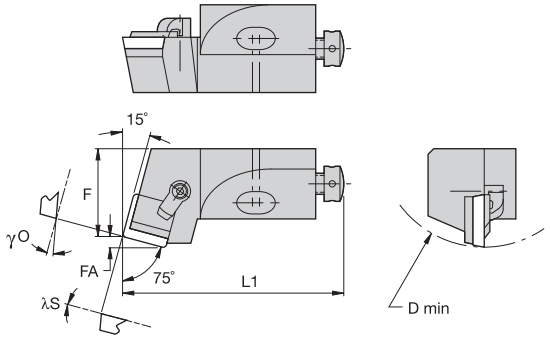
CSKP 15°

order number	catalog number	D min	F	L1	L1A	λS°	γO°	gage insert
right hand								
1261328	**CSKPR12CA4**	1.969	.787	2.17	.12	.0	5.0	SP..120308/SP..422

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



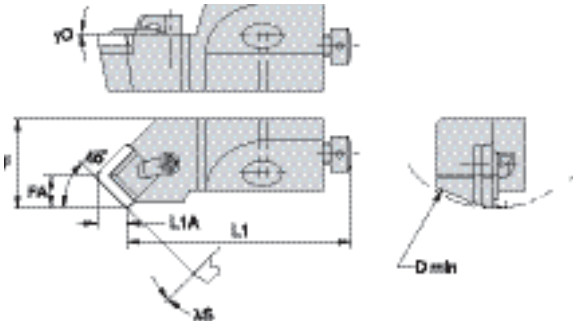


CSRP -15°

order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331132	**CSRPR10CA3**	1.575	.551	.087	1.97	.0	.0	SP..090308/SP..322

Spare Parts

D min	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



CSSP 45°

order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1261379	**CSSPR10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322
left hand									
3331143	**CSSPL10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322

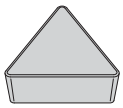
NOTE: Select spare parts based off of D min and insert size selected.

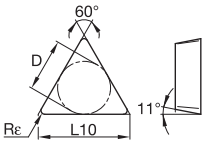
Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

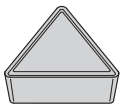
● first choice
○ alternate choice

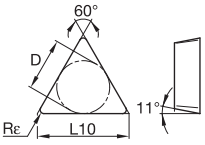




TPGN/TPG

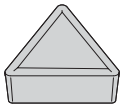
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGN110304	TPG221	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●	●	–	●	●
TPGN110308	TPG222	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	●	●
TPGN160302	TPG3205	9,53	3/8	16,50	.650	0,2	.008	–	–	–	●	●	–	–	●
TPGN160304	TPG321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●	●	–	●	●
TPGN160308	TPG322	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●	●	–	●	●
TPGN160312	TPG323	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●	–	–	–	●
TPGN160316	TPG324	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	–	●	–	–	●
TPGN220404	TPG431	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	●	●	–	●	●
TPGN220408	TPG432	12,70	1/2	22,00	.866	0,8	1/32	●	–	–	●	●	–	●	●
TPGN220412	TPG433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	●	–	●	●
TPGN220416	TPG434	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	●	–	–	●

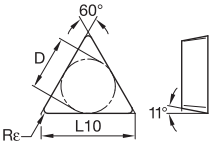




TPGR–K/TPGF

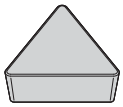
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGR110304K	TPGF221	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	●
TPGR110308K	TPGF222	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	●	–
TPGR160304K	TPGF321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	●	●
TPGR160308K	TPGF322	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–	–	–	●	●
TPGR220404K	TPGF431	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	●	–
TPGR220408K	TPGF432	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	●	–

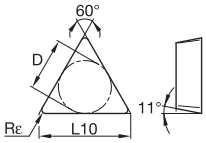




TPMR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPMR110304	TPMR221	6,35	1/4	11,00	.433	0,4	1/64	●	●	–	–	–	–	–	–
TPMR110308	TPMR222	6,35	1/4	11,00	.433	0,8	1/32	●	–	–	–	–	–	–	–
TPMR160304	TPMR321	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–	–	–	–	–
TPMR160308	TPMR322	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–	–	–	–	–
TPMR220408	TPMR432	12,70	1/2	22,00	.866	0,8	1/32	●	–	–	–	–	–	–	–



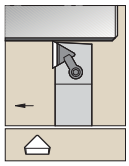


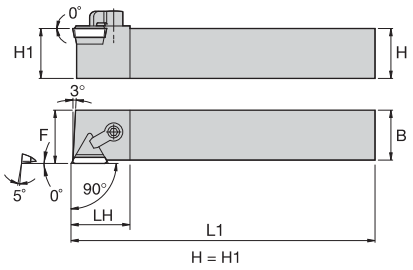
● first choice
○ alternate choice

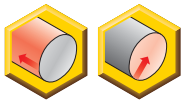
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

TPUN/TPU

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
		mm	in	mm	in	mm	in								
TPUN110304	**TPU221**	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–	●	–	–	–
TPUN110308	**TPU222**	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	–	●	–	–	–
TPUN160304	**TPU321**	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–	●	–	–	–
TPUN160308	**TPU322**	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–	●	–	–	–
TPUN220408	**TPU432**	12,70	1/2	22,00	.866	0,8	1/32	●	●	–	–	●	–	–	–
TPUN220412	**TPU433**	12,70	1/2	22,00	.866	1,2	3/64	●	●	–	–	●	–	–	–

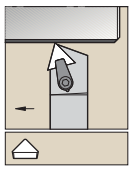


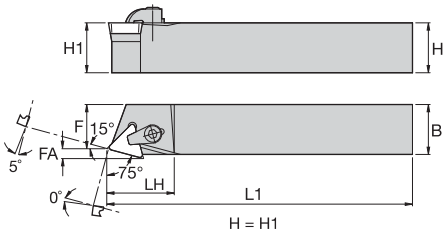




CTAP 0°

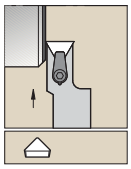
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096948	CTAPR082B	.50	.50	.500	4.50	.75	TP.221	SM119	SL344	—	CK19	STC9	3/32
1096949	CTAPR102B	.63	.63	.625	4.50	.75	TP.221	SM119	SL344	—	CK19	STC5	3/32
1096950	CTAPR123B	.75	.75	.750	4.50	1.06	TP.322	SM41	S111	1/16	CK10	STC8	5/32
1096951	CTAPR163D	1.00	1.00	1.000	6.00	1.06	TP.322	SM41	S111	1/16	CK9	STC4	5/32
1096952	CTAPR854D	1.25	1.00	1.000	6.00	1.12	TP.432	SM37	S125	3/32	CK9	STC4	5/32
left hand													
1096941	CTAPL123B	.75	.75	.750	4.50	1.06	TP.322	SM41	S111	1/16	CK10	STC8	5/32
1096946	CTAPL854D	1.25	1.00	1.000	6.00	1.12	TP.432	SM37	S125	3/32	CK9	STC4	5/32

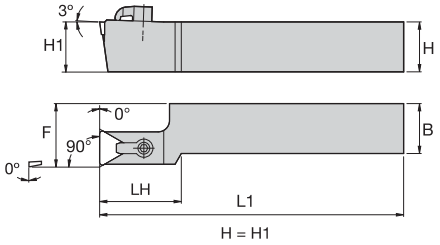


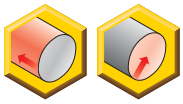


CTBP 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096959	CTBPR123B	.75	.75	.600	4.50	1.19	.15	TP.322	SM41	S111	1/16	CK10	STC8	5/32
1096960	CTBPR163D	1.00	1.00	.850	6.00	1.19	.15	TP.322	SM41	S111	1/16	CK9	STC4	5/32
left hand														
1096955	CTBPL123B	.75	.75	.600	4.50	1.19	.15	TP.322	SM41	S111	1/16	CK10	STC8	5/32

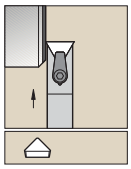


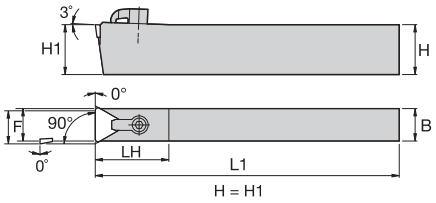


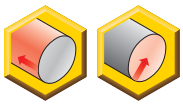


CTCP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096976	**CTCPR123B**	.75	.75	1.000	4.50	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096977	**CTCPR163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096978	**CTCPR164C**	1.00	1.00	1.250	5.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096979	**CTCPR164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096980	**CTCPR204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096982	**CTCPR244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
left hand													
1096963	**CTCPL163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096965	**CTCPL164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096966	**CTCPL204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096968	**CTCPL244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

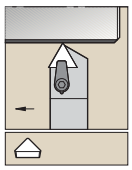


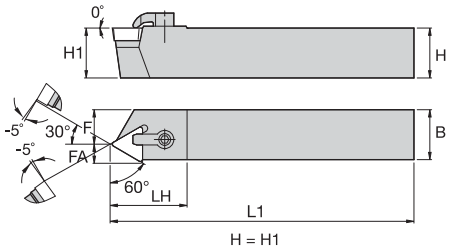


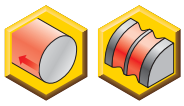


CTCPN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096972	**CTCPN443**	1.00	.50	.542	8.00	1.19	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096971	**CTCPN124**	.75	.75	.782	6.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC8**	5/32
1096973	**CTCPN644**	1.00	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096974	**CTCPN664**	1.50	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

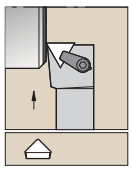


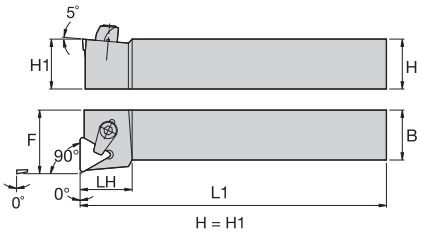


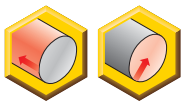


CTEP 30°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096985	**CTEPR123B**	.75	.75	.460	4.50	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096992	**CTEPR163D**	1.00	1.00	.700	6.00	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096993	**CTEPR854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096989	**CTEPL854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

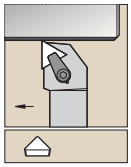


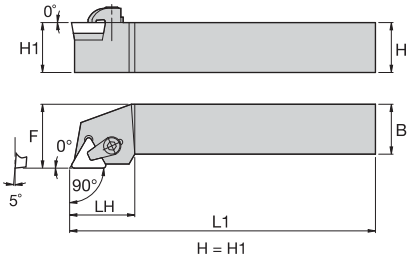


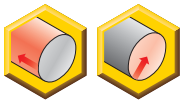


CTFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1097008	**CTFPR082V**	.50	.50	.750	3.50	.56	TP.221	**SM119**	**SL344**	–	**CK19**	**STC9**	3/32
1097011	**CTFPR123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097013	**CTFPR163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097014	**CTFPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097015	**CTFPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097018	**CTFPR854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097016	**CTFPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096997	**CTFPL123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096999	**CTFPL163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097001	**CTFPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097004	**CTFPL854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

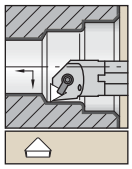




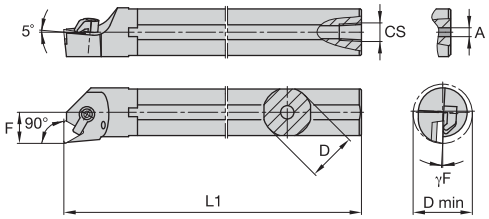


CTGP 0°

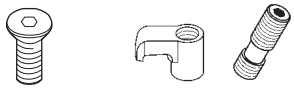
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096696	**CTGPR082B**	.50	.50	.750	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097035	**CTGPR102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097036	**CTGPR123A**	.75	.75	1.000	4.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097037	**CTGPR123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097038	**CTGPR163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097039	**CTGPR163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097041	**CTGPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097042	**CTGPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097043	**CTGPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1097021	**CTGPL102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097022	**CTGPL123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097023	**CTGPL163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097024	**CTGPL163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097026	**CTGPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097027	**CTGPL204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



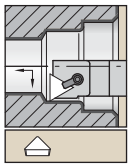
Steel shank with through coolant.



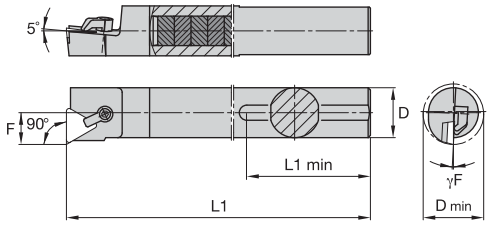
A-CTFP 0°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1094872	**A06RCTFPR2**	.375	.480	.250	6.00	.13	—	-3.0	TPG.2151	**—**	**—**	—	**CK27**	**STC27**	5/64
1094874	**A08RCTFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094876	**A10SCTFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094878	**A12SCTFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094880	**A16TCTFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1094882	**A20UCTFPR3**	1.250	1.470	.765	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094884	**A24CTFPR3**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094888	**A24CTFPR4**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1094892	**A32CTFPR4**	2.000	2.400	1.281	16.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand															
1094875	**A08RCTFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094877	**A10CTFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094879	**A12SCTFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094889	**A24CTFPL4**	1.500	1.760	.890	14.00	—	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32

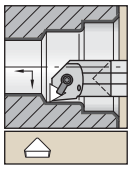


DeVibrator shank.

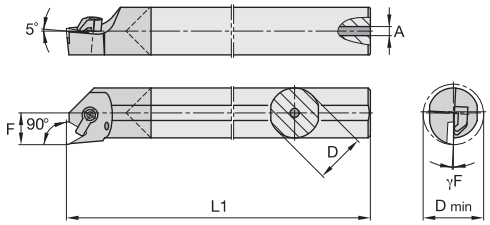


B-CTFP 0°

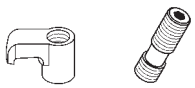
order number	catalog number	D	D min	F	L1	L1 min	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1095829	**B10CTFPR2**	.625	.770	.406	10.00	5.25	.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1095830	**B12CTFPR3**	.750	.930	.500	10.00	5.75	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1095831	**B14CTFPR3**	.875	1.060	.516	10.00	6.25	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1095832	**B16CTFPR3**	1.000	1.200	.640	12.00	6.50	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1095833	**B20CTFPR3**	1.250	1.470	.765	14.00	8.25	-3.0	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095834	**B24CTFPR4**	1.500	1.760	.890	15.50	9.75	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1095836	**B32CTFPR4**	2.000	2.400	1.281	21.50	12.25	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



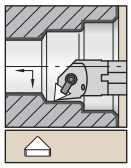
Carbide shank with through coolant.



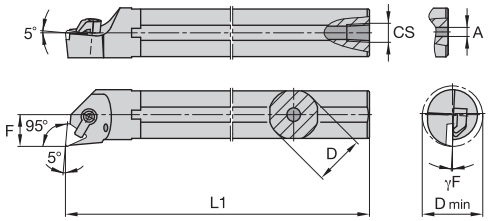
E-CTFP 0°



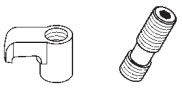
order number	catalog number	D	D min	F	L1	A	γF°	gage insert	clamp	clamp screw	hex
right hand											
1152584	**E08KCTFPR2**	.500	.600	.312	5.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152586	**E08RCTFPR2**	.500	.600	.312	8.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152588	**E10MCTFPR2**	.625	.770	.406	6.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152590	**E10SCTFPR2**	.625	.770	.406	10.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152592	**E12QCTFPR3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152594	**E12SCTFPR3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152598	**E16TCTFPR3**	1.000	1.200	.640	12.00	.31	.0	TP.322	**CK20**	**STC11**	1/8
left hand											
1152593	**E12QCTFPL3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152595	**E12SCTFPL3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32



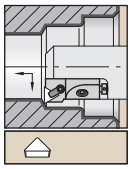
Steel shank with through coolant.

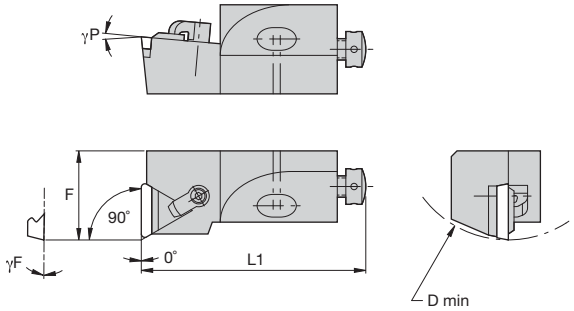


A-CTLP -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	clamp	clamp screw	hex
right hand												
1094904	**A06MCTLPR2**	.375	.480	.250	6.00	.13	—	-3.0	TP.2151	**CK27**	**STC27**	5/64
1094906	**A08RCTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
1094908	**A12SCTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094910	**A16CTLPR3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8
left hand												
1094907	**A08RCTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
3994022	**A10SCTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	TP.221	**CK19**	**STC9**	3/32
1094909	**A12SCTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094863	**A16CTLPL3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8

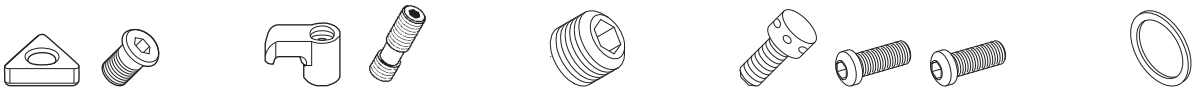




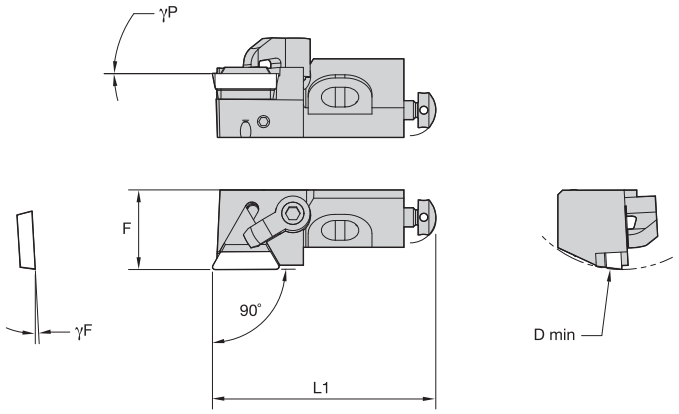
CTFP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2116588	**CTFPR10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA3**	1.969	.787	2.17	.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA4**	2.756	.984	2.76	.0	5.0	TP..220408/TP..432
left hand							
2114034	**CTFPL10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221

Spare Parts



D min	shim	shim screw	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
2.756	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

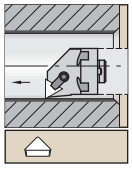


CTGP 0°

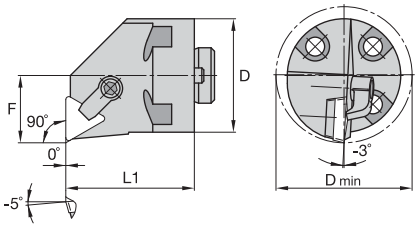
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330191	**CTGPR12CA3**	1.969	.787	2.17	3.0	.0	TP..160308/TP..322

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



With through coolant.

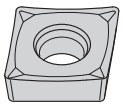


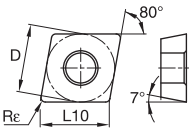
H-CTFP 0°

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand												
1095321	**H20CTFPR3W**	1.250	1.470	.765	1.63	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095542	**H40CTFPR4W**	2.500	3.030	1.531	1.63	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC4**	5/32

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

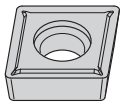


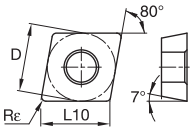


CCGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCGT060202HP	CCGT21505HP	6,35	1/4	6,45	.254	0,2	.008
CCGT060204HP	CCGT2151HP	6,35	1/4	6,45	.254	0,4	1/64
CCGT060208HP	CCGT2152HP	6,35	1/4	6,45	.254	0,8	1/32
CCGT09T302HP	CCGT32505HP	9,53	3/8	9,67	.381	0,2	.008
CCGT09T304HP	CCGT3251HP	9,53	3/8	9,67	.381	0,4	1/64
CCGT09T308HP	CCGT3252HP	9,53	3/8	9,67	.381	0,8	1/32
CCGT120402HP	CCGT4305HP	12,70	1/2	12,90	.508	0,2	.008
CCGT120404HP	CCGT431HP	12,70	1/2	12,90	.508	0,4	1/64
CCGT120408HP	CCGT432HP	12,70	1/2	12,90	.508	0,8	1/32

ISO catalog number	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT060202HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	●	–	–
CCGT060204HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT060208HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CCGT09T302HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T304HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T308HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CCGT120402HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
CCGT120404HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CCGT120408HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–





CCGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCGT0602X0LF	CCGT215X0LF	6,35	1/4	6,45	.254	0,0	.0015
CCGT060201LF	CCGT2150LF	6,35	1/4	6,45	.254	0,1	.004
CCGT060202LF	CCGT21505LF	6,35	1/4	6,45	.254	0,2	.008
CCGT060204LF	CCGT2151LF	6,35	1/4	6,45	.254	0,4	1/64
CCGT060208LF	CCGT2152LF	6,35	1/4	6,45	.254	0,8	1/32
CCGT09T3X0LF	CCGT325X0LF	9,53	3/8	9,67	.381	0,0	.0015
CCGT09T301LF	CCGT3250LF	9,53	3/8	9,67	.381	0,1	.004
CCGT09T302LF	CCGT32505LF	9,53	3/8	9,67	.381	0,2	.008
CCGT09T304LF	CCGT3251LF	9,53	3/8	9,67	.381	0,4	1/64
CCGT09T308LF	CCGT3252LF	9,53	3/8	9,67	.381	0,8	1/32

ISO catalog number	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT0602X0LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT060201LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060202LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060204LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060208LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
CCGT09T3X0LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT09T301LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T302LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T304LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CCGT09T308LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
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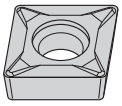
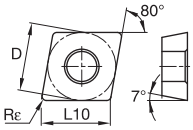
S																				●	●	●	●	●	●	●	●			
H																														





CCMT-11

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT06020411	CCMT215111	6,35	1/4	6,45	.254	0,4	1/64
CCMT09T30411	CCMT325111	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T30811	CCMT325211	9,53	3/8	9,67	.381	0,8	1/32

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
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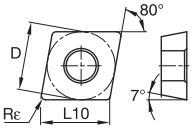

CCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT060202FP	CCMT21505FP	6,35	1/4	6,45	.254	0,2	.008
CCMT060204FP	CCMT2151FP	6,35	1/4	6,45	.254	0,4	1/64
CCMT060208FP	CCMT2152FP	6,35	1/4	6,45	.254	0,8	1/32
CCMT09T302FP	CCMT32505FP	9,53	3/8	9,67	.381	0,2	.008
CCMT09T304FP	CCMT3251FP	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T308FP	CCMT3252FP	9,53	3/8	9,67	.381	0,8	1/32
CCMT120404FP	CCMT431FP	12,70	1/2	12,90	.508	0,4	1/64
CCMT120408FP	CCMT432FP	12,70	1/2	12,90	.508	0,8	1/32
CCMT120412FP	CCMT433FP	12,70	1/2	12,90	.508	1,2	3/64

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
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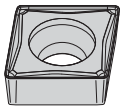

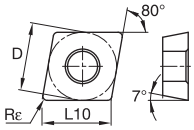

CCMT-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT060202FW	CCMT21505FW	6,35	1/4	6,45	.254	0,2	.008
CCMT060204FW	CCMT2151FW	6,35	1/4	6,45	.254	0,4	1/64
CCMT060208FW	CCMT2152FW	6,35	1/4	6,45	.254	0,8	1/32
CCMT09T304FW	CCMT3251FW	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T308FW	CCMT3252FW	9,53	3/8	9,67	.381	0,8	1/32

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
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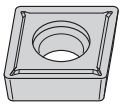
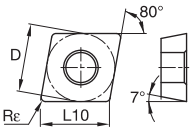
● first choice
○ alternate choice





CCMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	K	K	K	K	K	K	M	M	M	M	M	K	K	K	N	N	S	S	S	S	N	H
								○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●
								○	○	○	○	○	○		●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
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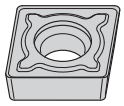
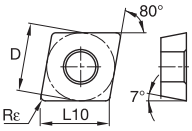
																										●	●	●		●	●	●	●		●	●
CCMT060202LF	CCMT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CCMT060204LF	CCMT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT060208LF	CCMT2152LF	6,35	1/4	6,45	.254	0,8	1/32	●	–	●	●	●	●	–	●	●	●	●	●	–	●	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
CCMT09T302LF	CCMT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	–
CCMT09T304LF	CCMT3251LF	9,53	3/8	9,67	.381	0,4	1/64	–	●	●	●	●	●	–	–	●	●	●	–	●	●	–	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT09T308LF	CCMT3252LF	9,53	3/8	9,67	.381	0,8	1/32	●	●	●	●	●	●	–	–	●	●	●	●	●	●	–	●	●	●	–	●	–	–	–	–	●	–	–	●	–
CCMT120404LF	CCMT431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	●	●	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CCMT120408LF	CCMT432LF	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	–
CCMT120412LF	CCMT433LF	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–





CCMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	K	K	K	K	K	K	M	M	M	M	M	K	K	K	N	N	S	S	S	S	N	H
								○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●
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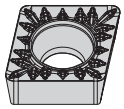
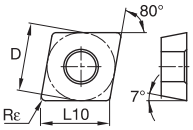
																										●	●	●		●	●	●	●		●	●
CCMT060204MF	CCMT2151MF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	●	–	–	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT09T304MF	CCMT3251MF	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
CCMT09T308MF	CCMT3252MF	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–
CCMT09T312MF	CCMT3253MF	9,53	3/8	9,67	.381	1,2	3/64	–	–	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMT120408MF	CCMT432MF	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT120412MF	CCMT433MF	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





CCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	K	K	K	K	K	K	M	M	M	M	M	K	K	K	N	N	S	S	S	S	N	H
								○	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●
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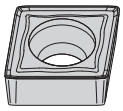
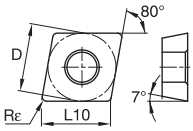
																										●	●	●		●	●	●	●		●	●
CCMT060204MP	CCMT2151MP	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T304MP	CCMT3251MP	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T308MP	CCMT3252MP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T312MP	CCMT3253MP	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120408MP	CCMT432MP	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412MP	CCMT433MP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

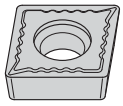
● first choice
○ alternate choice

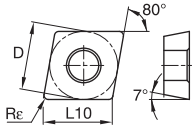




CCMT-MW

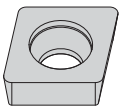
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
CCMT09T304MW	**CCMT3251MW**	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CCMT09T308MW	**CCMT3252MW**	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CCMT120404MW	**CCMT431MW**	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCMT120408MW	**CCMT432MW**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

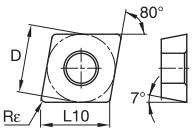




CCMT-UF

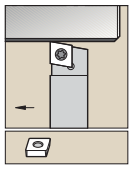
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204UF	**CCMT2151UF**	6,35	1/4	6,45	.254	0,4	1/64	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T302UF	**CCMT32505UF**	9,53	3/8	9,67	.381	0,2	.008	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T304UF	**CCMT3251UF**	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T308UF	**CCMT3252UF**	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

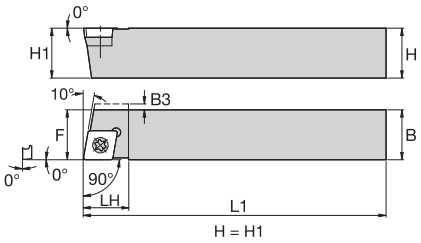




CCMW

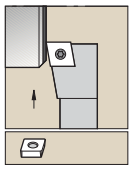
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMW060204	**CCMW2151**	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW09T308	**CCMW3252**	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120408	**CCMW432**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120412	**CCMW433**	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

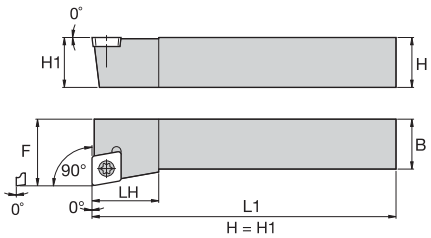


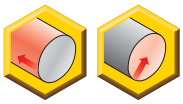


SCAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	wrench size insert screw
right hand												
1094433	**SCACR052D**	.31	.31	.313	6.00	.44	.09	CC..2151	–	–	–	**MS1153**
1094435	**SCACR062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094437	**SCACR083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094589	**SCACR103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**
left hand												
1094436	**SCACL062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094438	**SCACL083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094590	**SCACL103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**

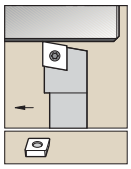


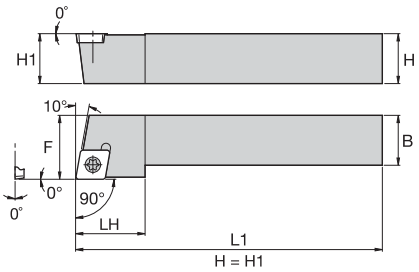


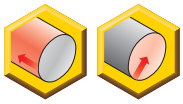


SCFC 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1094443	**SCFCR082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7
left hand									
1094444	**SCFCL082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7

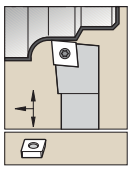


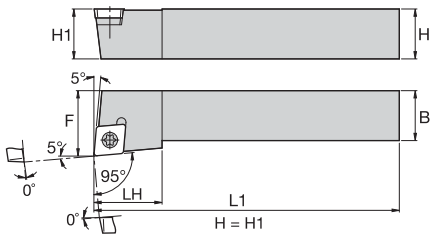




SCGC 0°

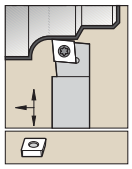
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094453	**SCGCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094455	**SCGCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094457	**SCGCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094459	**SCGCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094461	**SCGCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094572	**SCGCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094462	**SCGCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094573	**SCGCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

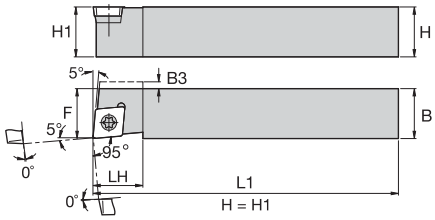




SCLC -5°

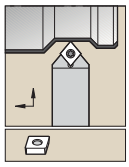
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094475	**SCLCR052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094477	**SCLCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094479	**SCLCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094481	**SCLCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094483	**SCLCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094485	**SCLCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094576	**SCLCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843875	**SCLCR124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843877	**SCLCR164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
left hand												
1094476	**SCLCL052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094478	**SCLCL062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094480	**SCLCL082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094482	**SCLCL102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094484	**SCLCL103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094486	**SCLCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094577	**SCLCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843874	**SCLCL124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843876	**SCLCL164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15

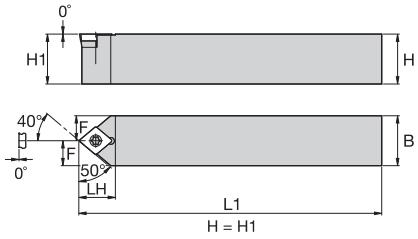




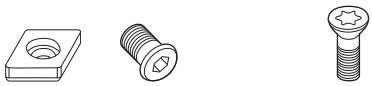
SCLC-F -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094491	SCLCRF062D	.38	.38	.375	6.00	.50	–	CC..2151	–	–	–	MS1153	T7
1094493	SCLCRF082D	.50	.50	.500	6.00	.50	–	CC..2151	–	–	–	MS1153	T7
1094495	SCLCRF083D	.50	.50	.500	6.00	.62	.09	CC..3252	–	–	–	MS1155	T15
1094591	SCLCRF523Z	.50	.63	.625	3.25	.62	–	CC..3252	–	–	–	MS1155	T15
1094593	SCLCRF103B	.63	.63	.625	4.50	.62	–	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15
left hand													
1094492	SCLCLF062D	.38	.38	.375	6.00	.50	–	CC..2151	–	–	–	MS1153	T7
1094494	SCLCLF082D	.50	.50	.500	6.00	.50	–	CC..2151	–	–	–	MS1153	T7
1094496	SCLCLF083D	.50	.50	.500	6.00	.62	.09	CC..3252	–	–	–	MS1155	T15
1094594	SCLCLF103B	.63	.63	.625	4.50	.62	–	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15

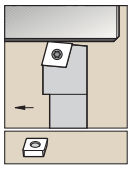


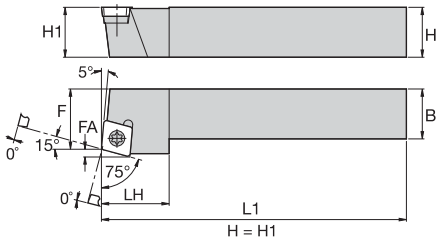


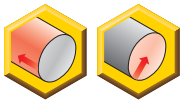
SCMC 40°



order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1094497	SCMCN062	.38	.38	.188	2.50	.50	CC..2151	–	–	–	MS1153	T7
1094498	SCMCN082	.50	.50	.250	3.50	.50	CC..2151	–	–	–	MS1153	T7
1094500	SCMCN083	.50	.50	.250	3.50	.62	CC..3252	–	–	–	MS1155	T15
1094501	SCMCN103	.63	.63	.313	4.00	.62	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15
1094502	SCMCN123	.75	.75	.375	4.50	.62	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15
1094578	SCMCN163	1.00	1.00	.500	6.00	.62	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15



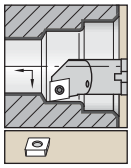




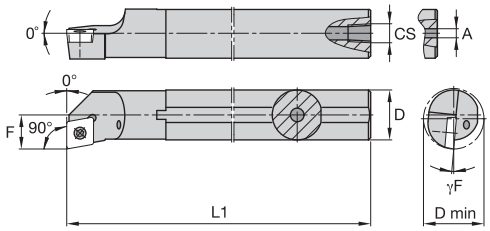
SCRC 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094511	**SCRCR083**	.50	.50	.548	3.50	.62	.09	CC..3252	–	–	–	**MS1155**	T15
1094513	**SCRCR103**	.63	.63	.673	4.00	.62	.09	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand													
1094512	**SCRCL083**	.50	.50	.548	3.50	.62	.09	CC..3252	–	–	–	**MS1155**	T15

Screw-On Boring Bars

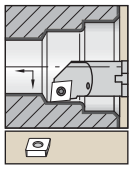


Steel shank with through coolant.

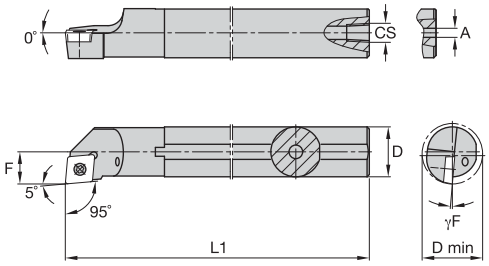


A-SCFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328560	**A06MSCFCR2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1153**	T7
1328572	**A08RSCFCR2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328575	**A10SSCFCR2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328578	**A12SSCFCR3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328580	**A16TSCFCR3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15
left hand											
1328577	**A10SSCFCL2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328579	**A12SSCFCL3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15

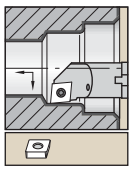


Steel shank with through coolant.

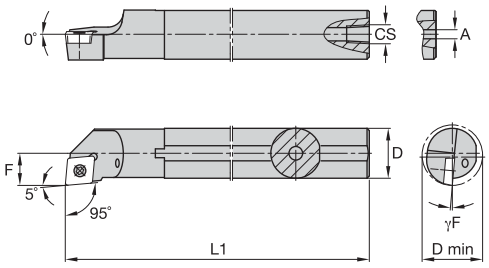


A-SCLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328582	**A06MSCLCR2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1939**	T7
1328584	**A08RSCLCR2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328586	**A10SSCLCR2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328588	**A10SSCLCR3**	.625	.770	.406	10.00	–	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328590	**A12SSCLCR3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328592	**A16TSCLCR3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15
left hand											
1328583	**A06MSCLCL2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1939**	T7
1328585	**A08RSCLCL2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328587	**A10SSCLCL2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328589	**A10SSCLCL3**	.625	.770	.406	10.00	–	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328591	**A12SSCLCL3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328593	**A16TSCLCL3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15

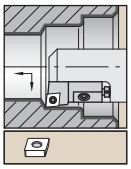


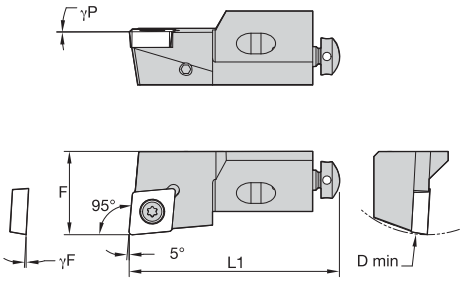
Steel shank with through coolant.



E-SCLC -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
2598552	**E06MSCLCR2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598694	**E08RSCLCR2**	.500	.600	.312	8.00	.19	-7.0	CC..2151	**MS2066**	7 IP
2598696	**E10SSCLCR2**	.625	.770	.406	10.00	.22	-4.0	CC..2151	**MS2066**	7 IP
2598698	**E10SSCLCR3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598700	**E12SSCLCR3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP
2598702	**E16TSCLCR3**	1.000	1.200	.640	12.00	.31	-4.0	CC..3252	**MS2055**	15 IP
left hand										
2598551	**E06MSCLCL2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598697	**E10SSCLCL3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598699	**E12SSCLCL3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP





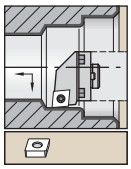
SCLC -5°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098544	**SCLCR12CA12**	1.969	.787	2.17	-3.0	.0	CC..120408/CC..432
1098545	**SCLCR16CA12**	2.362	.984	2.48	-3.0	.0	CC..120408/CC..432
left hand							
1098732	**SCLCL12CA12**	1.969	.787	2.17	-3.0	.0	CC..120408/CC..432

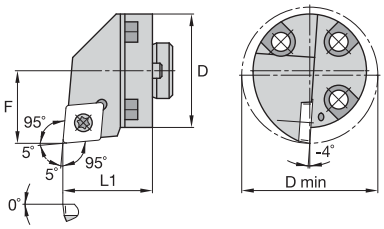
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

Screw-On Boring Heads



With through coolant.

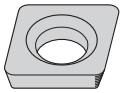


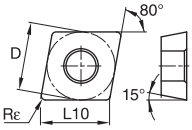
H-SCLC -5°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581442	**H16SCLCR3**	1.000	1.200	.640	.79	CC..3252	**MS1155**	T15

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

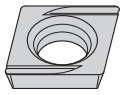


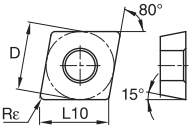


CDHB

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CDHBS4T0S0	CDHB120601	3,97	5/32	4,03	.159	0,1	.002
CDHBS4T0X0	CDHB1206X0	3,97	5/32	4,03	.159	0,1	.002
CDHBS4T002	CDHB120605	3,97	5/32	4,03	.159	0,2	.007
CDHBS4T004	CDHB12061	3,97	5/32	4,03	.159	0,4	.015

ISO catalog number	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHBS4T0S0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CDHBS4T0X0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CDHBS4T002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–
CDHBS4T004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–



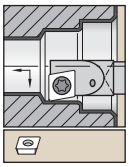


CDHH

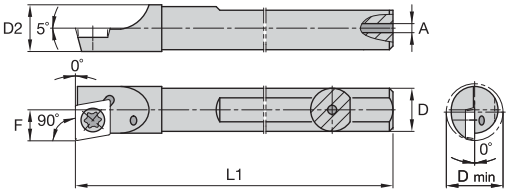
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CDHHS4T002L	CDHH120605L	3,97	5/32	4,03	.159	0,2	.007
CDHHS4T002R	CDHH120605R	3,97	5/32	4,03	.159	0,2	.007
CDHHS4T004L	CDHH12061L	3,97	5/32	4,03	.159	0,4	.015
CDHHS4T004R	CDHH12061R	3,97	5/32	4,03	.159	0,4	.015

ISO catalog number	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHHS4T002L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
CDHHS4T002R	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CDHHS4T004L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
CDHHS4T004R	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

NOTE: Right-hand insert uses left-hand bars.
Left-hand insert uses right-hand bars.

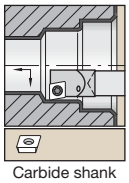


Steel shank with through coolant.

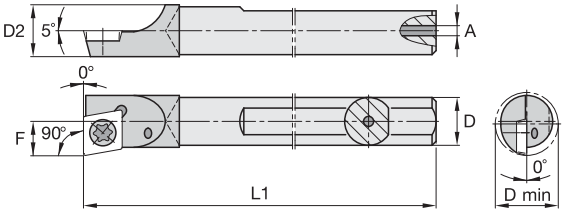


A-SCFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
1288861	**A03XSCFDR12**	.188	.244	.203	.122	2.50	.04	CD..120605	**CC11**	T6
1288869	**A04FSCFDR12**	.250	.292	.260	.152	3.00	.04	CD..120605	**CC11**	T6

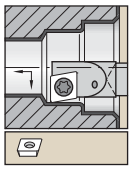


Carbide shank with through coolant.

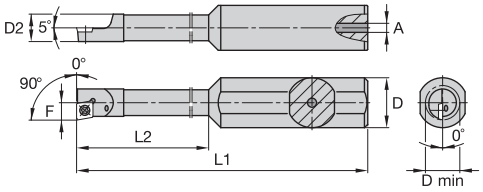


E-SCFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1270939	**E03HSCFDR12**	.187	.224	—	.117	4.00	.04	CD..120605	**CC09**	T6
1270946	**E03MSCFDR12**	.188	.224	—	.117	6.00	.04	CD..120605	**CC09**	T6
1270952	**E04HSCFDR12**	.250	.292	.273	.152	4.00	.05	CD..120605	**CC11**	T6
1270960	**E04MSCFDR12**	.250	.292	—	.152	6.00	.05	CD..120605	**CC11**	T6
1937955	**E05MSCFDR12**	.312	.356	—	.185	6.00	.09	CD..120605	**CC09**	T6
left hand										
1937946	**E04HSCFDL12**	.250	.292	—	.152	4.00	.05	CD..120605	**CC11**	T6

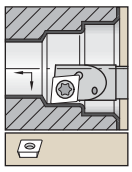


Necked steel shank with through coolant.

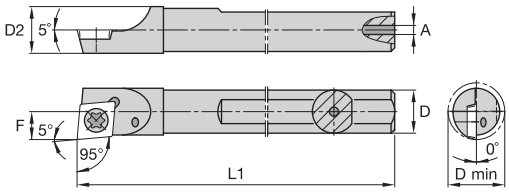


A-SCFD-S 0°

order number	catalog number	D	D min	D2	F	L1	L2	A	gage insert	insert screw	Torx
right hand											
1937976	**A0406XSCFDR12125**	.375	.292	.260	.152	2.50	1.25	.04	CD..120605	**CC11**	T6
1937992	**A0408XSCFDR12075**	.500	.292	.260	.152	2.75	.75	.04	CD..120605	**CC11**	T6

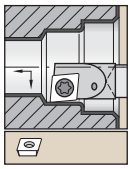


Steel shank with through coolant.

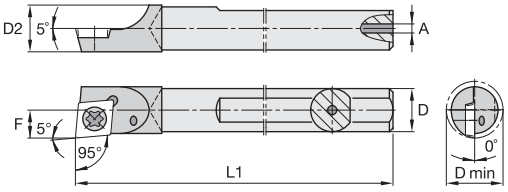


A-SCLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288863	**A03XSCLDR12**	.188	.228	.203	.116	2.50	.04	CD..120605	**CC09**	T6
1289024	**A03XSCLDR12A**	.188	.204	—	.104	2.50	.04	CD..120605	**CC09**	T6
1288871	**A04FSCLDR12**	.250	.285	.260	.145	3.00	.04	CD..120605	**CC11**	T6
left hand										
1288862	**A03XSCLDL12**	.188	.228	.203	.116	2.50	.04	CD..120605	**CC09**	T6
1288870	**A04FSCLDL12**	.250	.285	.260	.145	3.00	.04	CD..120605	**CC11**	T6

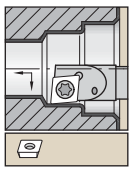


Carbide shank with through coolant.

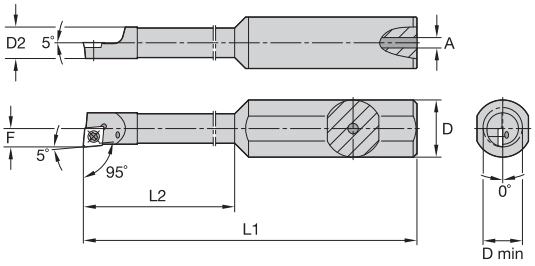


E-SCLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1271038	**E03HSCLDR12**	.187	.224	—	.117	4.00	.04	CD..120605	**CC09**	T6
1270941	**E03HSCLDR12A**	.188	.218	—	.111	4.00	.04	CD..120605	**CC09**	T6
1270947	**E03MSCLDR12A**	.188	.218	—	.111	6.00	.04	CD..120605	**CC09**	T6
1271040	**E03MSCLDR12**	.188	.224	.195	.117	6.00	.04	CD..120605	**CC09**	T6
1270954	**E04HSCLDR12**	.250	.285	.260	.145	4.00	.05	CD..120605	**CC11**	T6
1270962	**E04MSCLDR12**	.250	.285	—	.145	6.00	.05	CD..120605	**CC11**	T6
1937957	**E05MSCLDR12**	.312	.356	—	.185	6.00	.09	CD..120605	**CC11**	T6
left hand										
1270940	**E03HSCLDL12A**	.188	.218	—	.111	4.00	.04	CD..120605	**CC09**	T6
1937958	**E03MSCLDL12A**	.188	.218	—	.111	6.00	.04	CD..120605	**CC09**	T6
1270953	**E04HSCLDL12**	.250	.285	.263	.145	4.00	.05	CD..120605	**CC11**	T6
1270961	**E04MSCLDL12**	.250	.285	—	.145	6.00	.05	CD..120605	**CC11**	T6
1937956	**E05MSCLDL12**	.313	.356	—	.185	6.00	.09	CD..120605	**CC11**	T6

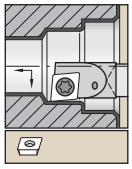


Necked steel shank with through coolant.

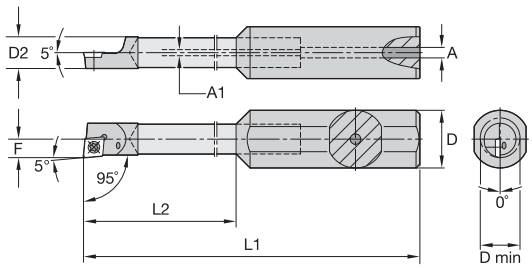


A-SCLD-S -5°

order number	catalog number	D	D min	D2	F	L1	L2	A	gage insert	insert screw	Torx
right hand											
1937960	**A2906XSCLDR1205**	.375	.204	—	.104	2.50	.50	.04	CD..120605	**CC09**	T6
1937962	**A2906XSCLDR121**	.375	.204	—	.104	2.50	1.00	.04	CD..120605	**CC09**	T6
1937970	**A3206XSCLDR121**	.375	.228	—	.116	2.50	1.00	.04	CD..120605	**CC11**	T6
1937966	**A3206XSCLDR1205**	.375	.230	—	.116	2.50	.50	.04	CD..120605	**CC09**	T6
1094663	**A0306GSCLDR12**	.375	.243	.230	.126	3.50	1.02	.08	CD..12061	**MS1454**	T5
1937974	**A0406XSCLDR12075**	.375	.285	—	.145	2.50	.75	.04	CD..120605	**CC11**	T6
1937978	**A0406XSCLDR12125**	.375	.285	—	.145	2.50	1.25	.04	CD..120605	**CC11**	T6
1094665	**A0406HSCLDR12**	.375	.300	—	.156	4.00	1.25	.08	CD..12061	**MS1454**	T5
1937982	**A2908XSCLDR121**	.500	.204	—	.104	2.75	1.00	.04	CD..120605	**CC09**	T6
1937990	**A3208XSCLDR121**	.500	.228	—	.116	2.75	1.00	.04	CD..120605	**CC09**	T6
left hand											
1094664	**A0306GSCLDL12**	.375	.243	.230	.126	3.50	1.02	.08	CD..12061	**MS1454**	T5
1094666	**A0406HSCLDL12**	.375	.300	—	.156	4.00	1.25	.08	CD..12061	**MS1454**	T5

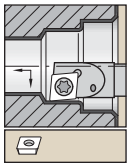


Necked carbide shank with through coolant.

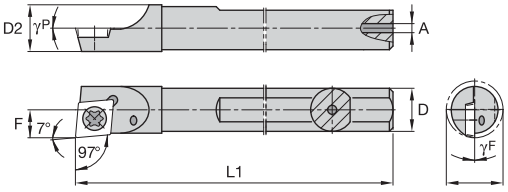


E-SCLD -5° • Stepped

order number	catalog number	D	D min	D2	F	L1	L2	A	A1	gage insert	insert screw	Torx
right hand												
1938018	**E2908XSCLDR12088**	.500	.208	.195	.104	2.38	.88	.04	.047	CD..120605	**CC09**	T6
1938022	**E3208XSCLDR121**	.500	.234	—	.119	2.50	1.00	.13	.047	CD..120605	**CC09**	T6
1950263	**E0408HSCLDR1225**	.500	.285	—	.145	4.00	2.50	.13	.047	CD..120605	**CC11**	T6
1938000	**E2910XSCLDR12088**	.625	.208	.195	.104	3.38	.88	.13	.047	CD..120605	**CC09**	T6
1938010	**E3210KSCLDR122**	.625	.234	—	.119	4.50	2.00	.13	.047	CD..120605	**CC11**	T6
1938013	**E0410HSCLDR12125**	.625	.285	—	.145	3.75	1.25	.13	.047	CD..120605	**CC11**	T5

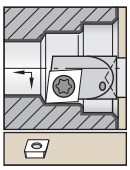


Steel shank with through coolant.

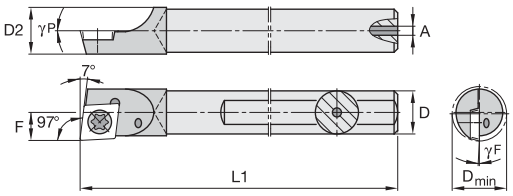


A-SC7D -7°

order number	catalog number	D	D min	D2	F	L1	A	γF°	γP°	gage insert	insert screw	Torx
right hand												
1289016	**A03XSC7DR12**	.188	.180	.166	.095	2.50	.04	.0	.0	CD..120605	**CC09**	T6
left hand												
1289015	**A03XSC7DL12**	.188	.180	.166	.095	2.50	.04	.0	.0	CD..120605	**CC09**	T6



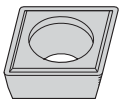
Carbide shank with through coolant.

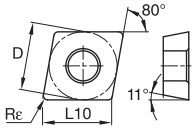


E-SC7D -7°

order number	catalog number	D	D min	D2	F	L1	A	γF°	γP°	gage insert	insert screw	Torx
right hand												
1271036	**E25MSC7DR12**	.156	.180	.164	.095	6.00	.04	.0	.0	CD..120605	**CC09**	T6

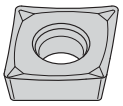
● first choice
○ alternate choice

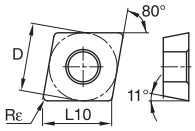




CPGH/CPGM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
								K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPGT060202K	CPGM21505	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CPGT060204K	CPGM2151	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–
CPGH09T301	CPGM3250	9,53	3/8	9,67	.381	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CPGH09T302	CPGM32505	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–
CPGH09T304	CPGM3251	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	●	●	●	–	●	–
CPGH09T308	CPGM3252	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	–	–	–

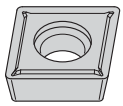


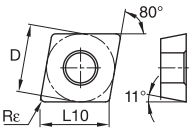


CPGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060202HP	CPGT21505HP	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060204HP	CPGT2151HP	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060208HP	CPGT2152HP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CPGT09T302HP	CPGT32505HP	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CPGT09T304HP	CPGT3251HP	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CPGT09T308HP	CPGT3252HP	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

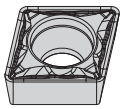
● first choice
○ alternate choice

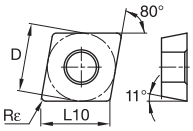




CPGT-LF

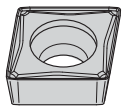
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060201LF	CPGT2150LF	6,35	1/4	6,45	.254	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060202LF	CPGT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT060204LF	CPGT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060208LF	CPGT2152LF	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T302LF	CPGT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T304LF	CPGT3251LF	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT09T308LF	CPGT3252LF	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–

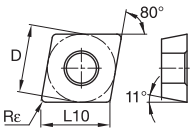




CPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202FP	CPMT181505FP	5,56	7/32	5,65	.222	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT050204FP	CPMT18151FP	5,56	7/32	5,65	.222	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT060202FP	CPMT21505FP	6,35	1/4	6,45	.254	0,2	.008	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060204FP	CPMT2151FP	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060208FP	CPMT2152FP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CPMT09T302FP	CPMT32505FP	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T304FP	CPMT3251FP	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	–
CPMT09T308FP	CPMT3252FP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●

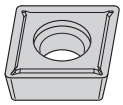


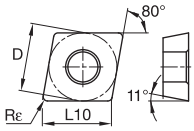


CPMT-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060202FW	CPMT21505FW	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT060204FW	CPMT2151FW	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT060208FW	CPMT2152FW	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT09T304FW	CPMT3251FW	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T308FW	CPMT3252FW	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

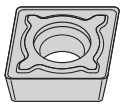
● first choice
○ alternate choice

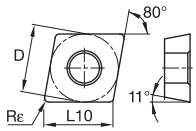




CPMT-LF

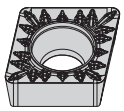
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202LF	CPMT181505LF	5,56	7/32	5,65	.222	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT050204LF	CPMT18151LF	5,56	7/32	5,65	.222	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CPMT060202LF	CPMT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CPMT060204LF	CPMT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	–	–	–	●	●	●	–	●	–	●	–	●	–	–	●	●	–	–	–	●	●	–	●	–
CPMT060208LF	CPMT2152LF	6,35	1/4	6,45	.254	0,8	1/32	–	–	●	●	●	●	–	–	●	–	●	–	–	–	–	–	●	–	–	●	–	–	–	–	●	●	–	●	–
CPMT09T302LF	CPMT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T304LF	CPMT3251LF	9,53	3/8	9,67	.381	0,4	1/64	●	●	●	●	●	●	–	–	●	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	–	●	–
CPMT09T308LF	CPMT3252LF	9,53	3/8	9,67	.381	0,8	1/32	–	●	●	●	●	●	–	–	●	●	●	●	●	–	●	–	●	–	–	–	●	–	–	–	●	●	–	●	–

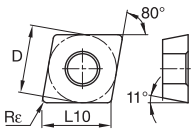




CPMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MF	CPMT2152MF	6,35	1/4	6,45	.254	0,8	1/32	–	●	–	●	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CPMT09T308MF	CPMT3252MF	9,53	3/8	9,67	.381	0,8	1/32	–	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CPMT09T312MF	CPMT3253MF	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

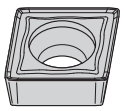


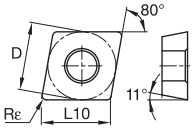


CPMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MP	CPMT2152MP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MP	CPMT3252MP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–

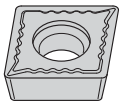
● first choice
○ alternate choice

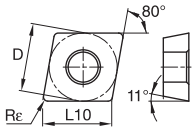




CPMT-MW

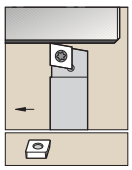
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
								K	K	K	K	K	K	K	●	●	●	●	●	●	K	K	K	K	K	●	●	●	K	●	●	●	●	●	●	K	●	●
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	●	●	●	N	●	●	●	●	●	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	●	●	●	●	●	●	●	●	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPMT09T304MW	CPMT3251MW	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MW	CPMT3252MW	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

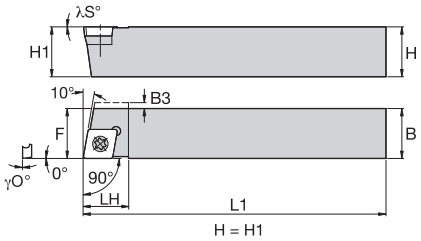


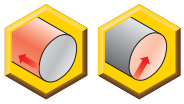


CPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
								K	K	K	K	K	K	K	●	●	●	●	●	●	K	K	K	K	K	●	●	●	K	●	●	●	●	●	●	K	●	●
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	●	●	●	N	●	●	●	●	●	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	●	●	●	●	●	●	●	●	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPMT060204UF	CPMT2151UF	6,35	1/4	6,45	.254	0,4	1/64	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT09T304UF	CPMT3251UF	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

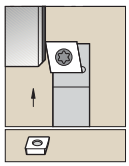


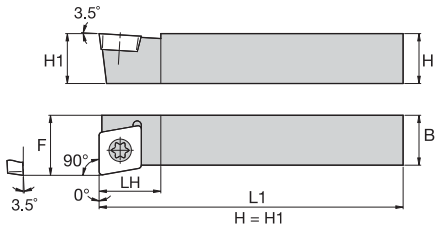


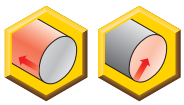


SCAP 0°

order number	catalog number	H	B	F	L1	LH	γO°	λS°	B3	gage insert	insert screw	Torx
right hand												
1095661	**SCAPR052D**	.31	.31	.312	6.00	.44	3.50	3.50	.06	CP..2151	**MS1153**	T7
1095662	**SCAPR062D**	.38	.38	.375	6.00	.44	3.50	3.50	—	CP..2151	**MS1153**	T7
1095663	**SCAPR083D**	.50	.50	.500	6.00	.62	3.00	4.00	—	CP..3252	**MS1027**	T9
left hand												
1095665	**SCAPL052D**	.31	.31	.312	6.00	.44	3.50	3.50	.06	CP..2151	**MS1153**	T7
1095667	**SCAPL083D**	.50	.50	.500	6.00	.62	3.00	4.00	—	CP..3252	**MS1027**	T9



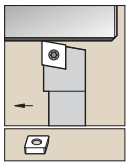


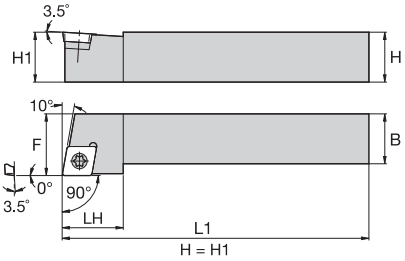


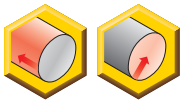
SCFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095600	**SCFPR083V**	.50	.50	.625	3.50	.62	CP..3252	**MS1027**	T9
left hand									
1095692	**SCFPL083V**	.50	.50	.625	3.50	.62	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



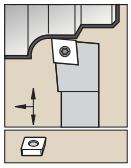


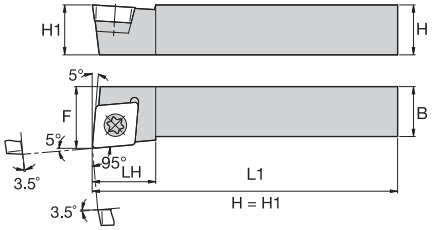


SCGP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1095597	**SCGPR062**	.38	.38	.500	2.50	.44	CP..2151	**–**	**–**	–	**MS1153**	T7
1095598	**SCGPR083V**	.50	.50	.625	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095596	**SCGPR123B**	.75	.75	1.000	4.50	.63	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9
left hand												
1095689	**SCGPL062**	.38	.38	.500	2.50	.44	CP..2151	**–**	**–**	–	**MS1153**	T7
1095690	**SCGPL083V**	.50	.50	.625	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095688	**SCGPL123B**	.75	.75	1.000	4.50	.63	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

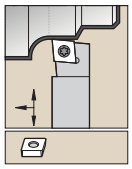


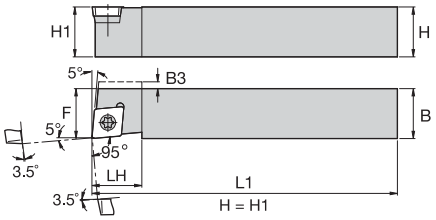


SCLP -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1095594	**SCLPR062**	.38	.38	.500	2.50	.44	CP..2151	**–**	**–**	–	**MS1153**	T7
1095595	**SCLPR083V**	.50	.50	.625	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095592	**SCLPR123B**	.75	.75	1.000	4.50	.62	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9
left hand												
1095686	**SCLPL062**	.38	.38	.500	2.50	.44	CP..2151	**–**	**–**	–	**MS1153**	T7
1095687	**SCLPL083V**	.50	.50	.625	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095685	**SCLPL123B**	.75	.75	1.000	4.50	.62	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

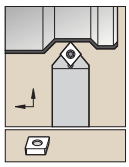


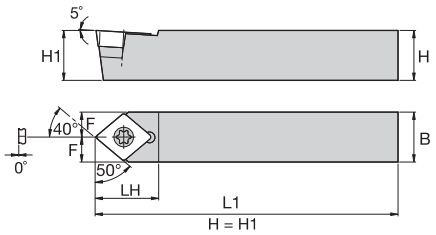


SCLP-F -5°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095654	**SCLPRF062D**	.38	.38	.375	6.00	.44	CP..2151	**MS1153**	T7
1095655	**SCLPRF083D**	.50	.50	.500	6.00	.62	CP..3252	**MS1027**	T9
left hand									
1095658	**SCLPLF062D**	.38	.38	.375	6.00	.44	CP..2151	**MS1153**	T7
1095659	**SCLPLF083D**	.50	.50	.500	6.00	.62	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

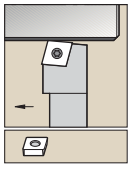


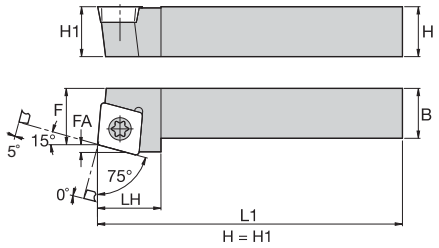


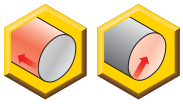
SCMP 40°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1095606	**SCMPN062**	.38	.38	.188	2.50	.45	CP..2151	**–**	**–**	–	**MS1153**	T7
1095607	**SCMPN083V**	.50	.50	.250	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095605	**SCMPN123B**	.75	.75	.375	4.50	.75	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.





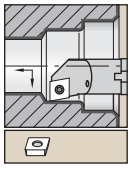


SCRP 15°

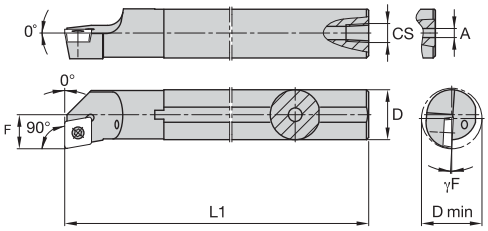
order number	catalog number	H	B	F	L1	LH	FA	gage insert	insert screw	Torx
right hand										
1095601	**SCRPR062**	.38	.38	.439	2.50	.44	.06	CP..2151	**MS1153**	T7
1095602	**SCRPR083V**	.50	.50	.537	3.50	.62	.09	CP..3252	**MS1027**	T9
left hand										
1095693	**SCRPL062**	.38	.38	.439	2.50	.44	.06	CP..2151	**MS1153**	T7
1095694	**SCRPL083V**	.50	.50	.537	3.50	.62	.09	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

Screw-On Boring Bars



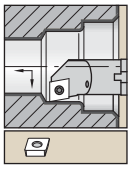
Steel shank with through coolant.



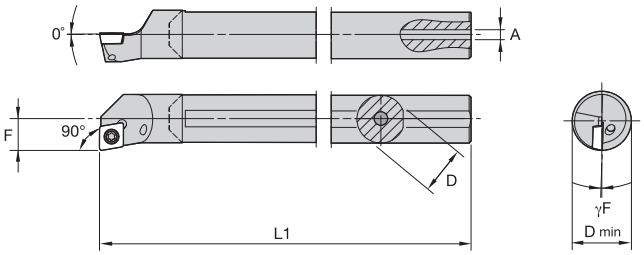
A-SCFP 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094725	**A06MSCFPR2**	.375	.480	.250	6.00	.13	—	-4.0	CPMT2151	**MS1939**	T7
1094727	**A08RSCFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094729	**A10SSCFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	CPMT2151	**MS1153**	T7
1094731	**A12SSCFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094733	**A16SCFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	CP..3252	**MS1155**	T15
left hand											
1094726	**A06MSCFPL2**	.375	.480	.250	6.00	.13	—	-4.0	CPMT2151	**MS1939**	T7
1094728	**A08RSCFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094730	**A10SSCFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	CPMT2151	**MS1153**	T7
1094732	**A12SSCFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPGM/CPGT/CPGW-21.5_inserts.
60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



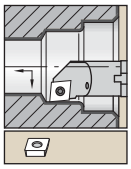
Heavy metal bar with through coolant.



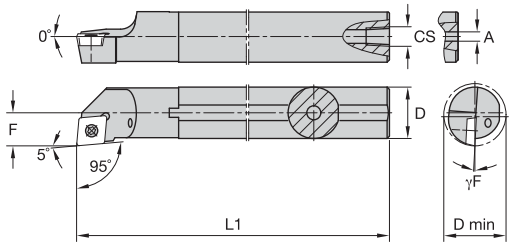
L-SCFP 0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
3330999	**L06MSCFPR2**	.375	.480	.250	6.06	.13	-4.0	CP..2151..	**MS1939**	T7
3331000	**L08RSCFPR2**	.500	.600	.312	7.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331001	**L10RSCFPR2**	.625	.770	.406	7.99	.16	.0	CP..2151..	**MS1153**	T7
3331002	**L12RSCFPR3**	.750	.930	.500	7.96	.16	-2.0	CP..3252..	**MS1155**	T15
3331033	**L16SSCFPR3**	1.000	1.200	.640	9.94	.25	.0	CP..3252..	**MS1155**	T15
left hand										
3330995	**L08RSCFPL2**	.500	.600	.312	7.93	.16	-2.0	CP..2151..	**MS1153**	T7

NOTE: ANSI/ISO compatible 68° countersunk hole insert.This tool will accept CPGM/CPGT/CPGW 21.5°_inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW 32.5).90° countersunk hole inserts (i.e., CPGM/CPGB 32.5) do not fit this tool.



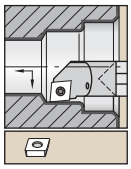
Steel shank with through coolant.



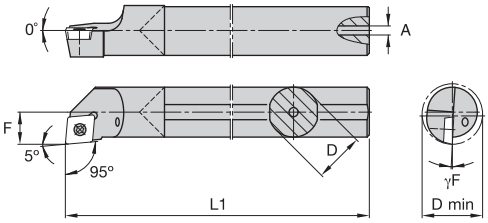
A-SCLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094669	**A06MSCLPR2**	.375	.480	.250	6.00	.13	—	-6.0	CP..2151	**MS1939**	T7
1094671	**A08RSCLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	CPMT2151	**MS1153**	T7
1094675	**A10SSCLPR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094677	**A12SSCLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094679	**A16TSCLPR3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	CP..3252	**MS1155**	T15
left hand											
1094670	**A06MSCLPL2**	.375	.480	.250	6.00	.13	—	-6.0	CPMT2151	**MS1939**	T7
1094672	**A08RSCLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	CPMT2151	**MS1153**	T7
1094674	**A10SSCLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094676	**A10SSCLPL3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094673	**A10SSCLPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094678	**A12SSCLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094680	**A16SCLPL3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



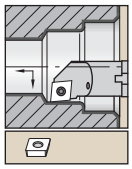
Carbide shank with through coolant.



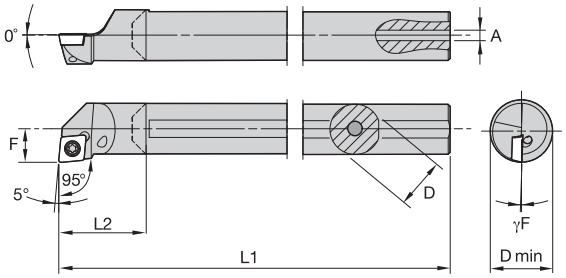
E-SCLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152722	**E05KSCLPR18**	.313	.415	.219	5.00	.09	-5.0	CP..18151	**MS1933**	T7
1152724	**E06SCLPR2**	.375	.480	.250	6.00	.13	-6.0	CP..2151	**MS1939**	T7
1152726	**E08SCLPR2**	.500	.600	.312	8.00	.19	-2.0	CP..2151	**MS1153**	T7
1152728	**E10SCLPR2**	.625	.770	.406	10.00	.22	-2.0	CP..2151	**MS1153**	T7
1152732	**E10SCLPR3**	.625	.770	.406	10.00	.22	-2.0	CP..3252	**MS1155**	T15
1152730	**E12SCLPR2**	.750	.930	.500	10.00	.28	-2.0	CP..2151	**MS1153**	T7
1152734	**E12SCLPR3**	.750	.930	.500	10.00	.28	-2.0	CP..3252	**MS1155**	T15
1152736	**E16SCLPR3**	1.000	1.200	.640	12.00	.31	.0	CP..3252	**MS1155**	T15
left hand										
1152723	**E05KSCLPL18**	.313	.415	.219	5.00	.09	-5.0	CP..18151	**MS1933**	T7
1152725	**E06SCLPL2**	.375	.480	.250	6.00	.13	-6.0	CP..2151	**MS1939**	T7
1152727	**E08SCLPL2**	.500	.600	.312	8.00	.19	-2.0	CP..2151	**MS1153**	T7
1152729	**E10SCLPL2**	.625	.770	.406	10.00	.22	-2.0	CP..2151	**MS1153**	T7
1152733	**E10SCLPL3**	.625	.770	.406	10.00	.22	-2.0	CP..3252	**MS1155**	T15
1152731	**E12SCLPL2**	.750	.930	.500	10.00	.28	-2.0	CP..2151	**MS1153**	T7
1152735	**E12SCLPL3**	.750	.930	.500	10.00	.28	-2.0	CP..3252	**MS1155**	T15
1152737	**E16SCLPL3**	1.000	1.200	.640	12.00	.31	.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



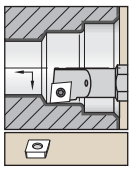
Heavy metal bar with through coolant.



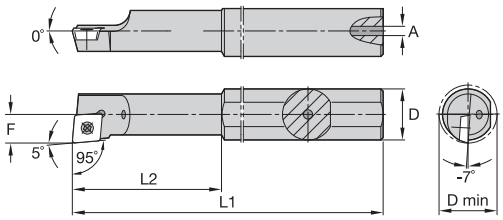
L-SCLP -5°

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
3331042	**L05MSCLPR2**	.313	.415	.219	6.00	.76	.09	-6.0	CP..2151..	**MS1939**	T7
3331043	**L06MSCLPR2**	.375	.480	.250	6.06	.91	.13	-6.0	CP..2151..	**MS1939**	T7
3331041	**L08RSCLPR2**	.500	.600	.312	7.93	.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331044	**L10RSCLPR2**	.625	.770	.406	7.99	1.03	.16	-2.0	CP..2151..	**MS1153**	T7
3331045	**L10RSCLPR3**	.625	.770	.406	8.01	1.05	.16	-2.0	CP..3252..	**MS1155**	T15
3331046	**L12RSCLPR3**	.750	.930	.500	7.96	1.30	.16	-2.0	CP..3252..	**MS1155**	T15
3331047	**L16SSCLPR3**	1.000	1.200	.640	9.94	1.41	.25	.0	CP..3252..	**MS1155**	T15
left hand											
3331036	**L05MSCLPL2**	.313	.415	.219	6.00	.76	.09	-6.0	CP..2151..	**MS1939**	T7
3331035	**L06MSCLPL2**	.375	.480	.250	6.06	.91	.13	-6.0	CP..2151..	**MS1939**	T7
3331034	**L08RSCLPL2**	.500	.600	.312	7.93	.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331039	**L10RSCLPL3**	.625	.770	.406	8.01	1.05	.16	-2.0	CP..3252..	**MS1155**	T15
3331038	**L12RSCLPL3**	.750	.930	.500	7.96	1.30	.16	-2.0	CP..3252..	**MS1155**	T15
3331040	**L16SSCLPL3**	1.000	1.200	.640	9.94	1.41	.25	.0	CP..3252..	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

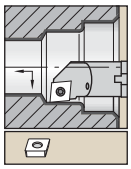


Necked steel shank with through coolant.

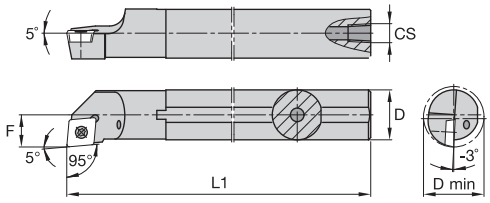


A-SCLP-06

order number	catalog number	D	D min	F	L1	L2	A	gage insert	insert screw	Torx
right hand										
1094667	**A0506KSCLPR18**	.375	.415	.214	5.00	1.63	.09	CPMT18151	**MS1933**	T7



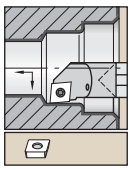
Steel shank with through coolant.



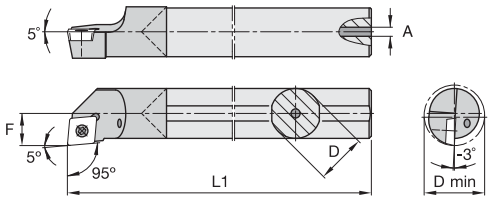
A-SCLP-AP -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094953	**A10SSCLPR3AP5**	.625	.770	.406	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094954	**A12SSCLPR3AP5**	.750	.930	.500	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094955	**A16SCLPR3AP5**	1.000	1.190	.625	12.00	1/4-18 NPT	CP..3252	**MS1027**	T9
left hand									
1094956	**A10SSCLPL3AP5**	.625	.770	.406	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094957	**A12SSCLPL3AP5**	.750	.930	.500	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094958	**A16SCLPL3AP5**	1.000	1.190	.625	12.00	1/4-18 NPT	CP..3252	**MS1027**	T9

NOTE: 90° countersunk hole insert (i.e., CPGM/CPGB-32.5_)
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



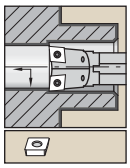
Carbide shank with through coolant.



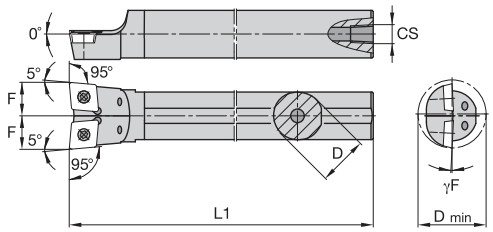
E-SCLP-AP -5°

order number	catalog number	D	D min	F	L1	A	gage insert	insert screw	Torx
right hand									
1152692	**E12SCLPR3AP5**	.750	1.000	.500	10.00	.28	CP..3252	**MS1027**	T9
1152693	**E16SCLPR3AP5**	1.000	1.190	.625	12.00	.31	CP..3252	**MS1027**	T9
left hand									
1152694	**E12SCLPL3AP5**	.750	1.000	.500	10.00	.28	CP..3252	**MS1027**	T9
1152695	**E16SCLPL3AP5**	1.000	1.190	.625	12.00	.31	CP..3252	**MS1027**	T9

NOTE: 90° countersunk hole insert (i.e., CPGM/CPGB-32.5_)
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



Steel shank with through coolant.

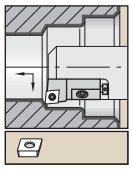


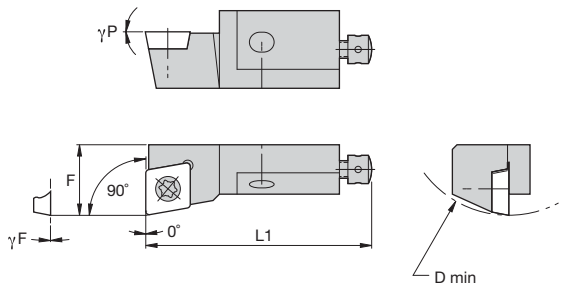
A-SCLP-D -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	insert screw	Torx
1094757	**A08SCLPR2D**	.500	.650	.312	8.00	1/16-27 NPT	-3.0	CP..2151	**MS1153**	T7
1094758	**A10SCLPR2D**	.625	.842	.406	10.00	1/8-27 NPT	-2.0	CP..2151	**MS1153**	T7
1094759	**A12SCLPR3D**	.750	1.030	.500	10.00	1/8-27 NPT	-2.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

Screw-On Cartridges





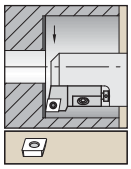
SCFP 0°

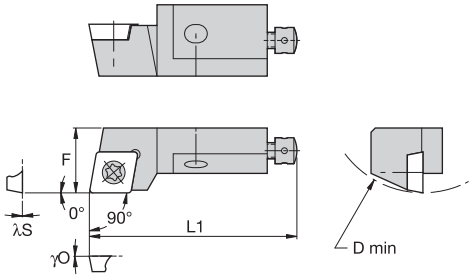
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098551	**SCFPR06CA05**	.787	.315	.98	.0	.0	CP..050204/CP..18151
1082671	**SCFPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1797235	**SCFPR10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252
left hand							
1098766	**SCFPL08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





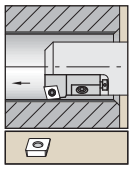
SCGP 0°

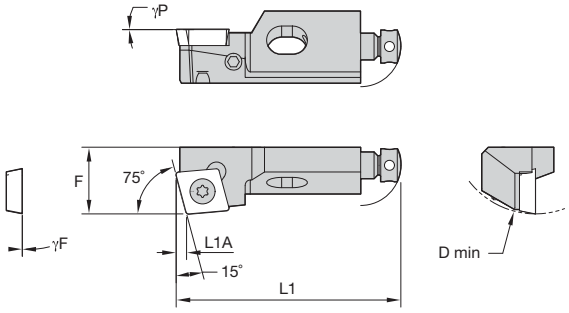
order number	catalog number	D min	F	L1	λS°	γO°	gage insert
right hand							
1098554	**SCGPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





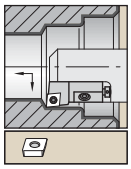
SCKP 15°

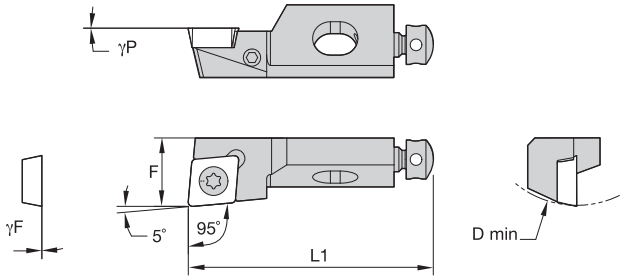
order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
1098552	**SCKPR08CA06**	.984	.394	1.26	.061	.0	.0	CP..060204/CP..2151
left hand								
1098763	**SCKPL08CA06**	.984	.394	1.26	.061	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





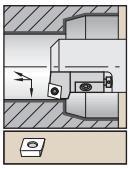
SCLP -5°

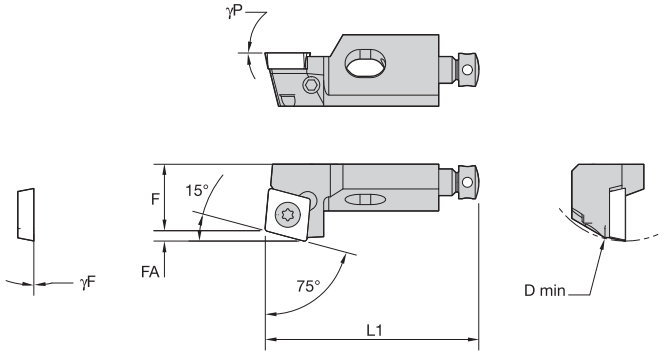
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098541	**SCLPR06CA05**	.787	.315	.98	.0	.0	CP..050204/CP..18151
1098542	**SCLPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1098543	**SCLPR10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252
left hand							
1098730	**SCLPL08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1098731	**SCLPL10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_).90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





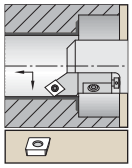
SCRP 15°

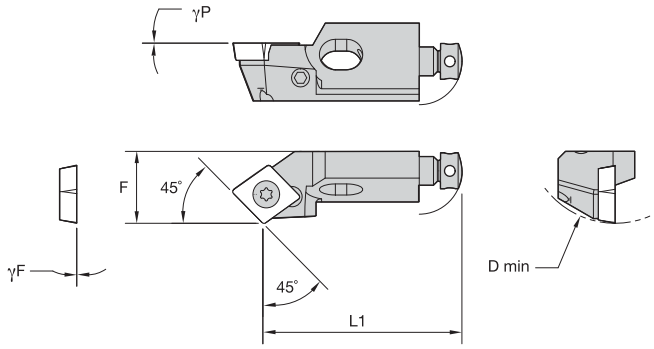
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098555	**SCRPR08CA06**	.984	.394	.059	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





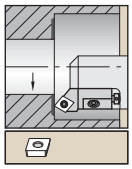
SCSP 45°

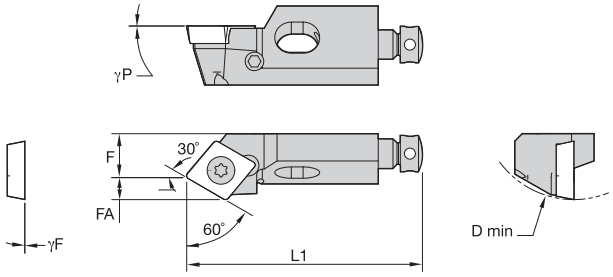
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098328	**SCSPR06CA05**	.787	.315	.83	.0	.0	CP..050204/CP..18151
1086536	**SCSPR08CA06**	.984	.394	1.10	.0	.0	CP..060204/CP..2151
left hand							
1098548	**SCSPL06CA05**	.787	.315	.83	.0	.0	CP..050204/CP..18151
1098549	**SCSPL08CA06**	.984	.394	1.10	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCTP 30°

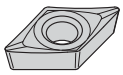
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098556	**SCTPR06CA05**	.787	.217	.102	.98	.0	.0	CP..050204/CP..18151
1098557	**SCTPR08CA06**	.984	.236	.116	1.26	.0	.0	CP..060204/CP..2151
left hand								
1098736	**SCTPL08CA06**	.984	.236	.116	1.26	.0	.0	CP..060204/CP..2151

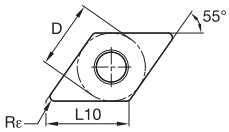
NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**—**	—	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**

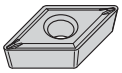
● first choice
○ alternate choice

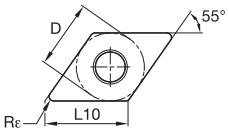




DCGT-HP

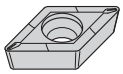
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCGT070202HP	DCGT21505HP	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	●	–	–
DCGT070204HP	DCGT2151HP	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	●	–	–
DCGT070208HP	DCGT2152HP	6,35	1/4	7,75	.305	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
DCGT11T302HP	DCGT32505HP	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	●	–	–
DCGT11T304HP	DCGT3251HP	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	●	–	–
DCGT11T308HP	DCGT3252HP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	●	–	–

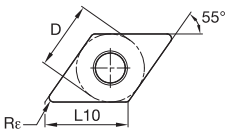




DCGT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCGT0702X0LF	DCGT215X0LF	6,35	1/4	7,75	.305	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT070201LF	DCGT2150LF	6,35	1/4	7,75	.305	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT11T3X0LF	DCGT325X0LF	9,53	3/8	11,63	.458	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT11T301LF	DCGT3250LF	9,53	3/8	11,63	.458	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT150408LF	DCGT432LF	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

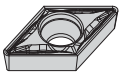


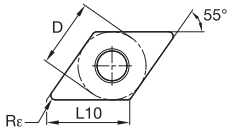


DCMT-11

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCMT07020211	DCMT2150511	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT07020411	DCMT215111	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30411	DCMT325111	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30811	DCMT325211	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● first choice
○ alternate choice

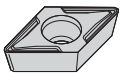


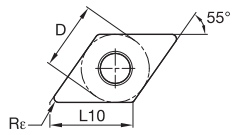


DCMT-FP

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●									
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●									
K		○	○	○	○	○			●	●	●	●	●	●							●	●	●		●	●	●	●		●	●									
N																					●	●	●		●	●	●	●	●											
S																					●	●	●	●	●	●	●	●												
H																																								

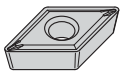
ISO catalog wnumber	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCMT070202FP	DCMT21505FP	6,35	1/4	7,75	.305	0,2		–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●
DCMT070204FP	DCMT2151FP	6,35	1/4	7,75	.305	0,4		–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–
DCMT070208FP	DCMT2152FP	6,35	1/4	7,75	.305	0,8		●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	–	–	–	–
DCMT11T302FP	DCMT32505FP	9,53	3/8	11,63	.458	0,2		–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	●	–	–	–	–	●
DCMT11T304FP	DCMT3251FP	9,53	3/8	11,63	.458	0,4		●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	●	●	–	–	–	–	●
DCMT11T308FP	DCMT3252FP	9,53	3/8	11,63	.458	0,8		●	●	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	●	●	–	–	–	–	●
DCMT11T312FP	DCMT3253FP	9,53	3/8	11,63	.458	1,2		–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150404FP	DCMT431FP	12,70	1/2	15,50	.610	0,4		–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DCMT150408FP	DCMT432FP	12,70	1/2	15,50	.610	0,8		●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–

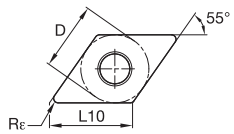




DCMT-FW

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCMT11T304FW	DCMT3251FW	9,53	3/8	11,63	.458	0,2	.007	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DCMT11T308FW	DCMT3252FW	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

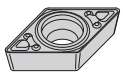


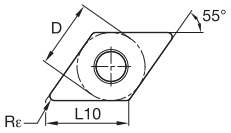


DCMT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCMT070202LF	DCMT21505LF	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–
DCMT070204LF	DCMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	–	●	●	●	●	●	–	–	–	●	–	–	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
DCMT11T302LF	DCMT32505LF	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DCMT11T304LF	DCMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	●	●	●	●	●	●	–	–	●	–	●	●	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
DCMT11T308LF	DCMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	–	–	–	●	●	●	●	●	●	●	●	–	–	●	–	–	●	–	●	●	–	●	–
DCMT11T312LF	DCMT3253LF	9,53	3/8	11,63	.458	1,2	3/64	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT150404LF	DCMT431LF	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DCMT150408LF	DCMT432LF	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● first choice
○ alternate choice

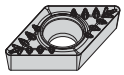


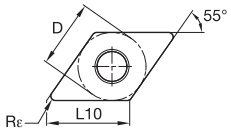


DCMT-MF

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●							
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●							
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●							
N																				●	●	●		●	●	●	●	●									
S																				●	●	●	●	●	●	●	●										
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																														
DCMT11T304MF	DCMT3251MF	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT11T308MF	DCMT3252MF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT11T312MF	DCMT3253MF	9,53	3/8	11,63	.458	1,2	3/64	–	●	●	●	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

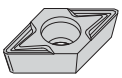


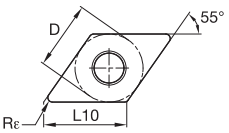


DCMT-MP

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●							
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●							
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●							
N																				●	●	●		●	●	●	●	●									
S																				●	●	●	●	●	●	●	●										
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																														
DCMT11T304MP	DCMT3251MP	9,53	3/8	11,63	.458	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MP	DCMT3252MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T312MP	DCMT3253MP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

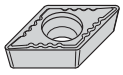


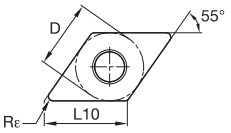


DCMT-MW

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●							
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●							
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●							
N																				●	●	●		●	●	●	●	●									
S																				●	●	●	●	●	●	●	●										
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																														
DCMT11T304MW	DCMT3251MW	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MW	DCMT3252MW	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

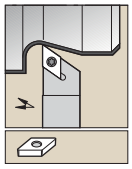


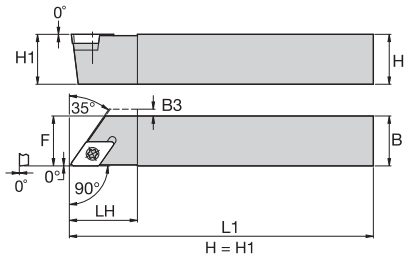


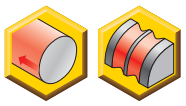
DCMT-UF

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●							
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●							
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●							
N																				●	●	●		●	●	●	●	●									
S																				●	●	●	●	●	●	●	●										
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																														
DCMT070204UF	DCMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T302UF	DCMT32505UF	9,53	3/8	11,63	.458	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T304UF	DCMT3251UF	9,53	3/8	11,63	.458	0,4	1/64	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T308UF	DCMT3252UF	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

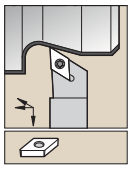


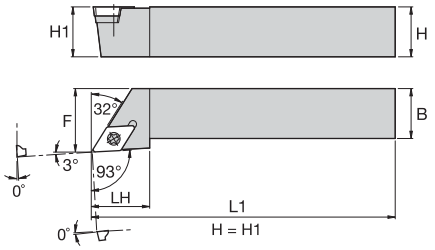


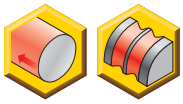


SDAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094595	**SDACR062D**	.38	.38	.375	6.00	.62	–	DC..2151	–	–	–	**MS1153**	T7
1094597	**SDACR082D**	.50	.50	.500	6.00	.62	–	DC..2151	–	–	–	**MS1153**	T7
1094599	**SDACR103B**	.63	.63	.625	4.50	.88	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1771940	**SDACR083D**	.50	.50	.500	6.00	.88	.06	DC..3252	–	–	–	**MS1155**	T15
left hand													
1094596	**SDACL062D**	.38	.38	.375	6.00	.62	–	DC..2151	–	–	–	**MS1153**	T7
1094598	**SDACL082D**	.50	.50	.500	6.00	.62	–	DC..2151	–	–	–	**MS1153**	T7
1094600	**SDACL103B**	.63	.63	.625	4.50	.88	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1771941	**SDACL083D**	.50	.50	.500	6.00	.88	.06	DC..3252	–	–	–	**MS1155**	T15

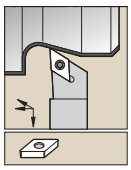


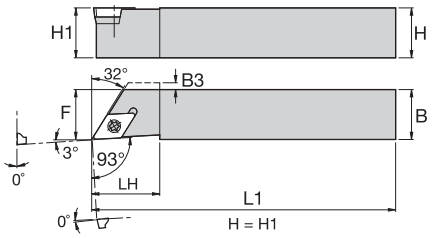


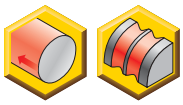


SDJC -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094519	**SDJCR062**	.38	.38	.500	2.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094521	**SDJCR082**	.50	.50	.625	3.50	.62	DC..070204	–	–	–	**MS1153**	T7
1094523	**SDJCR102**	.63	.63	.750	4.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094525	**SDJCR083**	.50	.50	.625	3.50	.88	DC..3252	–	–	–	**MS1155**	T15
1094527	**SDJCR103**	.63	.63	.750	4.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094529	**SDJCR123**	.75	.75	1.000	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094531	**SDJCR163**	1.00	1.00	1.250	6.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094520	**SDJCL062**	.38	.38	.500	2.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094522	**SDJCL082**	.50	.50	.625	3.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094524	**SDJCL102**	.63	.63	.750	4.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094526	**SDJCL083**	.50	.50	.625	3.50	.88	DC..3252	–	–	–	**MS1155**	T15
1094528	**SDJCL103**	.63	.63	.750	4.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094530	**SDJCL123**	.75	.75	1.000	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094532	**SDJCL163**	1.00	1.00	1.250	6.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

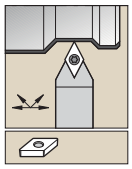


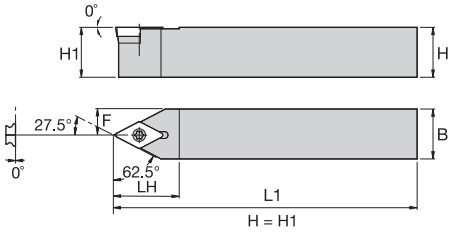




SDJC-F -3°

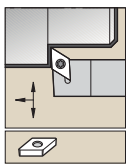
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094601	**SDJCRF062D**	.38	.38	.375	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094603	**SDJCRF082D**	.50	.50	.500	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1232019	**SDJCRF083D**	.50	.50	.500	6.00	.88	DC..3252	–	–	–	**MS1155**	T15
1094605	**SDJCRF103B**	.63	.63	.625	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094602	**SDJCLF062D**	.38	.38	.375	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094604	**SDJCLF082D**	.50	.50	.500	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1886490	**SDJCLF083D**	.50	.50	.500	6.00	.88	DC..3252	–	–	–	**MS1155**	T15
1094606	**SDJCLF103B**	.63	.63	.625	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

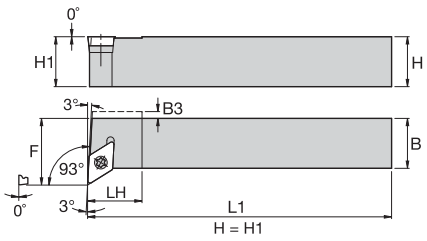




SDPC 27.5°

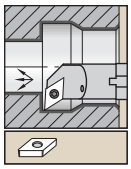
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1771942	**SDPCN062D**	.38	.38	1.875	6.00	.62	DC..2151	**–**	**–**	–	**MS1153**	T7
1772113	**SDPCN082D**	.50	.50	.250	6.00	.62	DC..2151	**–**	**–**	–	**MS1153**	T7
1772114	**SDPCN083D**	.50	.50	.250	6.00	.88	DC..3252	**–**	**–**	–	**MS1155**	T15
1772115	**SDPCN103B**	.63	.63	.313	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15



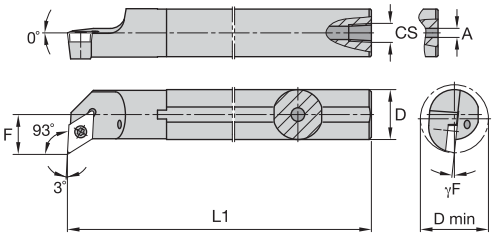


SDUC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1095645	**SDUCR082**	.50	.50	.670	3.50	.50	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1095644	**SDUCR083**	.50	.50	.746	3.50	.62	.12	DC..3252	**–**	**–**	–	**MS1155**	T15
1095647	**SDUCR103**	.63	.63	.871	4.00	.62	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand													
1095649	**SDUCL082**	.50	.50	.670	3.50	.50	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1095648	**SDUCL083**	.50	.50	.746	3.50	.62	.12	DC..3252	**–**	**–**	–	**MS1155**	T15
1095651	**SDUCL103**	.63	.63	.871	4.00	.62	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

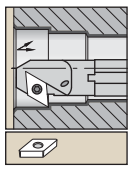


Steel shank with through coolant.

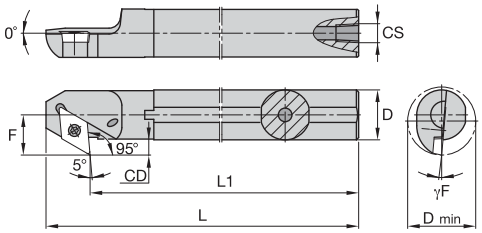


A-SDUC -3°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328616	**A06MSDUCR2**	.375	.600	.375	6.00	.13	—	-7.0	DC..2151	**MS1153**	T7
1328619	**A08RSDUCR2**	.500	.730	.437	8.00	.16	1/16-27 NPT	-5.0	DC..2151	**MS1153**	T7
1328623	**A10SSDUCR2**	.625	.850	.500	10.00	.16	1/8-27 NPT	-4.0	DC..2151	**MS1153**	T7
1328625	**A12SSDUCR3**	.750	.980	.562	10.00	—	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328628	**A16TSDUCR3**	1.000	1.300	.750	12.00	—	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15
left hand											
1328617	**A06MSDUCL2**	.375	.600	.375	6.00	.13	—	-7.0	DC..2151	**MS1153**	T7
1328621	**A08RSDUCL2**	.500	.730	.437	8.00	.16	1/16-27 NPT	-5.0	DC..2151	**MS1153**	T7
1328624	**A10SSDUCL2**	.625	.850	.500	10.00	.16	1/8-27 NPT	-4.0	DC..2151	**MS1153**	T7
1328626	**A12SSDUCL3**	.750	.980	.562	10.00	—	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328629	**A16TSDUCL3**	1.000	1.300	.750	12.00	—	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15



Steel shank with through coolant.

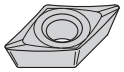


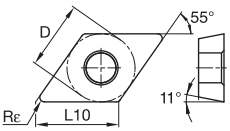
A-SDXC -5°

order number	catalog number	D	D min	F	L1	CD	L	CS	γF°	gage insert	insert screw	Torx
right hand												
1328630	**A08RSDXCR2**	.500	.730	.437	8.00	.187	8.50	1/16-27 NPT	-6.0	DC..2151	**MS1153**	T7
1328637	**A12SSDXCR3**	.750	.980	.562	10.00	.187	10.63	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328639	**A16TSDXCR3**	1.000	1.300	.750	12.00	.250	12.63	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15
left hand												
1328632	**A08RSDXCL2**	.500	.730	.437	8.00	.187	8.50	1/16-27 NPT	-6.0	DC..2151	**MS1153**	T7
1328640	**A16TSDXCL3**	1.000	1.300	.750	12.00	.250	12.63	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15

● first choice
○ alternate choice

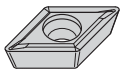
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

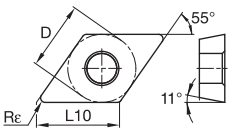




DPGT-HP

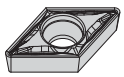
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPGT070202HP	DPGT21505HP	6,35	1/4	7,75	.305	0,2	.008
DPGT070204HP	DPGT2151HP	6,35	1/4	7,75	.305	0,4	1/64
DPGT070208HP	DPGT2152HP	6,35	1/4	7,75	.305	0,8	1/32
DPGT11T304HP	DPGT3251HP	9,53	3/8	11,63	.458	0,4	1/64
DPGT11T308HP	DPGT3252HP	9,53	3/8	11,63	.458	0,8	1/32

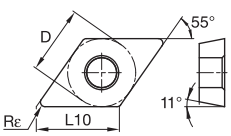




DPGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPGT070201LF	DPGT2150LF	6,35	1/4	7,75	.305	0,1	.004
DPGT070202LF	DPGT21505LF	6,35	1/4	7,75	.305	0,2	.008
DPGT070204LF	DPGT2151LF	6,35	1/4	7,75	.305	0,4	1/64
DPGT11T301LF	DPGT3250LF	9,53	3/8	11,63	.458	0,1	.004
DPGT11T302LF	DPGT32505LF	9,53	3/8	11,63	.458	0,2	.008
DPGT11T304LF	DPGT3251LF	9,53	3/8	11,63	.458	0,4	1/64
DPGT11T308LF	DPGT3252LF	9,53	3/8	11,63	.458	0,8	1/32

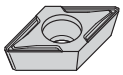


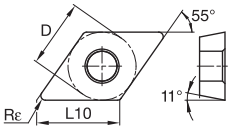


DPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPMT070202FP	DPMT21505FP	6,35	1/4	7,75	.305	0,2	.008
DPMT070204FP	DPMT2151FP	6,35	1/4	7,75	.305	0,4	1/64
DPMT070208FP	DPMT2152FP	6,35	1/4	7,75	.305	0,8	1/32
DPMT11T304FP	DPMT3251FP	9,53	3/8	11,63	.458	0,4	1/64
DPMT11T308FP	DPMT3252FP	9,53	3/8	11,63	.458	0,8	1/32

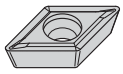
● first choice
○ alternate choice

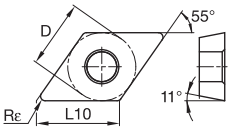




DPMT-FW

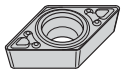
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204FW	DPMT2151FW	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DPMT070208FW	DPMT2152FW	6,35	1/4	7,75	.305	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

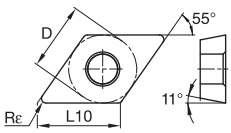




DPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202LF	DPMT21505LF	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DPMT070204LF	DPMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T302LF	DPMT32505LF	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304LF	DPMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T308LF	DPMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–

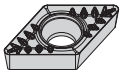


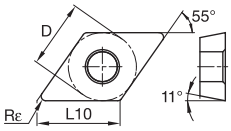


DPMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT11T308MF	DPMT3252MF	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

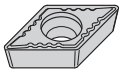
● first choice
○ alternate choice

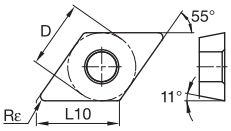




DPMT-MP

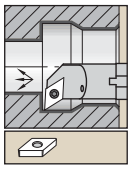
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●		●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
DPMT11T308MP	DPMT3252MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



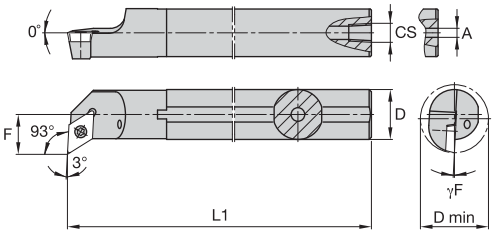


DPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204UF	DPMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304UF	DPMT3251UF	9,53	3/8	11,63	.458	0,4	1/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT11T308UF	DPMT3252UF	9,53	3/8	11,63	.458	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

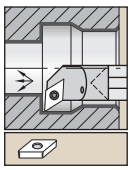


Steel shank with through coolant.

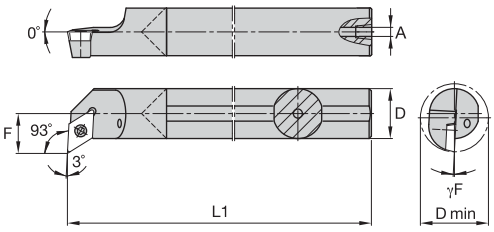


A-SDUP -3°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094689	**A06MSDUPR2**	.375	.600	.375	6.00	.13	—	-3.0	DP..2151	**MS1153**	T7
1094691	**A08RSDUPR2**	.500	.730	.437	8.00	.13	1/16-27 NPT	.0	DP..2151	**MS1153**	T7
1094693	**A10SSDUPR2**	.625	.850	.500	10.00	.13	1/8-27 NPT	.0	DP..2151	**MS1153**	T7
1094695	**A12SSDUPR3**	.750	.980	.562	10.00	.16	1/8-27 NPT	.0	DP..3252	**MS1155**	T15
1094697	**A16TSDUPR3**	1.000	1.300	.750	12.00	.25	1/4-18 NPT	.0	DP..3252	**MS1155**	T15
left hand											
1094690	**A06MSDUPL2**	.375	.600	.375	6.00	.13	—	-3.0	DP..2151	**MS1153**	T7
1094692	**A08RSDUPL2**	.500	.730	.437	8.00	.13	1/16-27 NPT	.0	DP..2151	**MS1153**	T7
1094694	**A10SSDUPL2**	.625	.850	.500	10.00	.13	1/8-27 NPT	.0	DP..2151	**MS1153**	T7
1094696	**A12SSDUPL3**	.750	.980	.562	10.00	.16	1/8-27 NPT	.0	DP..3252	**MS1155**	T15
1094698	**A16TSDUPL3**	1.000	1.300	.750	12.00	.25	1/4-18 NPT	.0	DP..3252	**MS1155**	T15

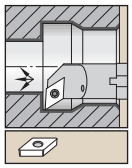


Carbide shank with through coolant.

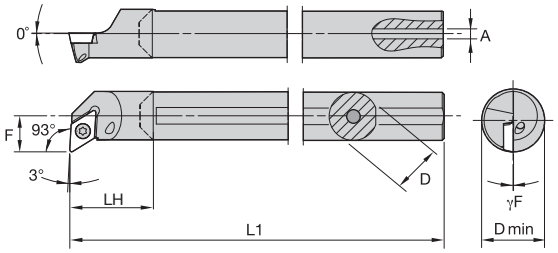


E-SDUP -3°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152738	**E06SDUPR2**	.375	.600	.375	6.00	.13	-2.0	DP..2151	**MS1153**	T7
1152740	**E08SDUPR2**	.500	.730	.437	8.00	.19	.0	DP..2151	**MS1153**	T7
1152742	**E10SDUPR2**	.625	.850	.500	10.00	.22	.0	DP..2151	**MS1153**	T7
1152744	**E12SDUPR2**	.750	.980	.562	10.00	.28	.0	DP..2151	**MS1153**	T7
1152746	**E12SSDUPR3**	.750	.980	.562	10.00	.28	.0	DP..3252	**MS1155**	T15
1152748	**E16TSDUPR3**	1.000	1.300	.750	12.00	.31	.0	DP..3252	**MS1155**	T15
left hand										
1152739	**E06SDUPL2**	.375	.600	.375	6.00	.13	-2.0	DP..2151	**MS1153**	T7
1152741	**E08SDUPL2**	.500	.730	.437	8.00	.19	.0	DP..2151	**MS1153**	T7
1152743	**E10SDUPL2**	.625	.850	.500	10.00	.22	.0	DP..2151	**MS1153**	T7
1152747	**E12SSDUPL3**	.750	.980	.562	10.00	.28	.0	DP..3252	**MS1155**	T15
1152749	**E16TSDUPL3**	1.000	1.300	.750	12.00	.31	.0	DP..3252	**MS1155**	T15

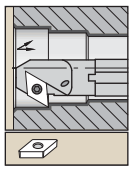


Heavy metal bar with through coolant.

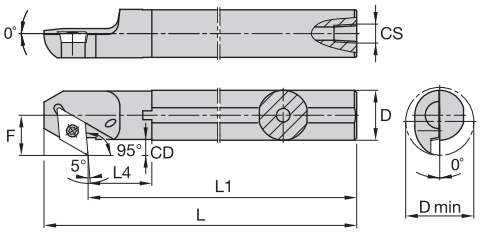


L-SDUP -3°

order number	catalog number	D	D min	F	L1	LH	A	γF°	gage insert	insert screw	Torx
right hand											
3331052	**L06MSDUPR2**	.375	.600	.375	6.06	.91	.13	-2.0	DP..2151..	**MS1153**	T7
3331073	**L08RSDUPR2**	.500	.730	.437	7.93	.93	.16	.0	DP..2151..	**MS1153**	T7
3331074	**L10RSDUPR2**	.625	.850	.500	7.99	1.03	.16	.0	DP..2151..	**MS1153**	T7
3331075	**L12RSDUPR3**	.750	.980	.562	7.96	1.30	.16	.0	DP..3252..	**MS1155**	T15
left hand											
3331048	**L06MSDUPL2**	.375	.600	.375	6.06	.91	.13	-2.0	DP..2151..	**MS1153**	T7
3331049	**L08RSDUPL2**	.500	.730	.437	7.93	.93	.16	.0	DP..2151..	**MS1153**	T7

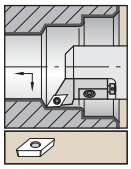


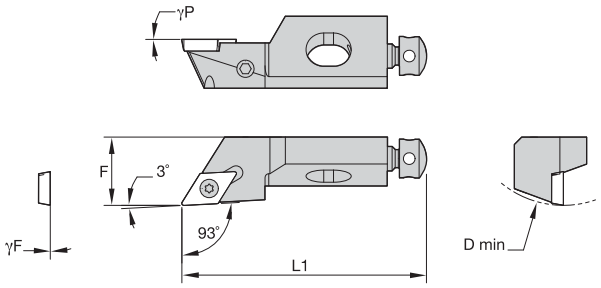
Steel shank with through coolant.



A-SDXP-5°

order number	catalog number	D	D min	F	L1	L	L4	CD	CS	gage insert	insert screw	Torx
right hand												
1094681	**A08RSDXPR2**	.500	.730	.437	8.00	8.50	—	.187	1/16-27 NPT	DP..2151	**MS1153**	T7
1094683	**A10SSDXPR2**	.625	.850	.500	10.00	10.50	—	.187	1/8-27 NPT	DP..2151	**MS1153**	T7
1094685	**A12SSDXPR3**	.750	.980	.562	10.00	10.63	—	.187	1/8-27 NPT	DP..3252	**MS1155**	T15
1094687	**A16TSDXPR3**	1.000	1.300	.750	12.00	12.66	—	.250	1/4-18 NPT	DP..3252	**MS1155**	T15
left hand												
1094682	**A08RSDXPL2**	.500	.730	.437	8.00	8.50	2.79	.187	1/16-27 NPT	DP..2151	**MS1153**	T7
1094684	**A10SSDXPL2**	.625	.850	.500	10.00	10.50	—	.187	1/8-27 NPT	DP..2151	**MS1153**	T7
1094688	**A16TSDXPL3**	1.000	1.300	.750	12.00	12.66	—	.250	1/4-18 NPT	DP..3252	**MS1155**	T15



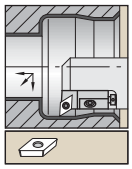


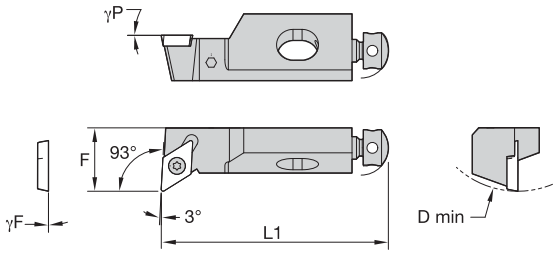
SDJP -3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098757	**SDJPR10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151
left hand							
1098758	**SDJPL10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





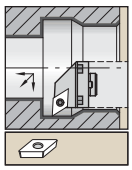
SDUP -3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098728	**SDUPR10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151

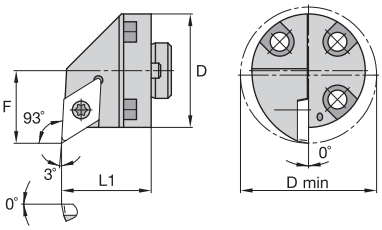
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

Screw-On Boring Heads



With through coolant.

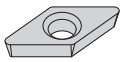


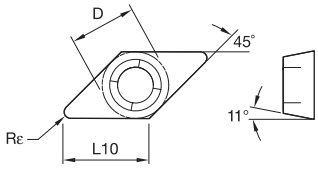
H-SDUP -3°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581689	**H16SDUPR3**	1.000	1.200	.640	.79	DP..3252	**MS1155**	T15
left hand								
1606537	**H16SDUPL3**	1.000	1.200	.640	.79	DP..3252	**MS1155**	T15

● first choice
○ alternate choice

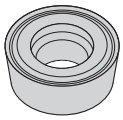
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

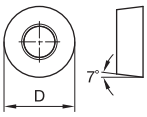




GPCD

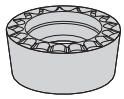
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
GPCD050102	GPCD505	3,97	5/32	5,61	.221	0,2	.007
GPCD050104	GPCD51	3,97	5/32	5,61	.221	0,4	.015

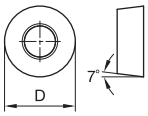




RCGH

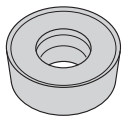
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGH120400	RCGH43	12,70	1/2	—	—	—	—

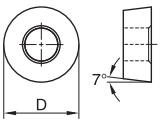




RCGH-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGH120400MP	RCGH43MP	12,70	1/2	—	—	—	—



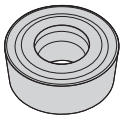


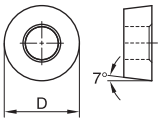
RCGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGT0803M0HP	RCGT0803M0HP	8,00	.315	—	—	—	—
RCGT10T3M0HP	RCGT10T3M0HP	10,00	.394	—	—	—	—
RCGT1204M0HP	RCGT1204M0HP	12,00	.472	—	—	—	—

● first choice
○ alternate choice

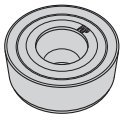
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

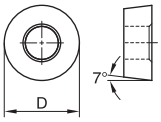




RCGT-MS

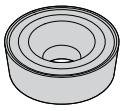
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0803M0MS	RCGT0803M0MS	8,00	.315	—	—	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCGT1204M0MS	RCGT1204M0MS	12,00	.472	—	—	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
RCGT1606M0MS	RCGT1606M0MS	16,00	.6299	—	—	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

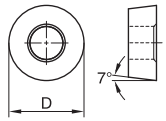




RCGT-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0602M0RP	RCGT0602M0RP	6,00	.2362	—	—	—	—	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT0803M0RP	RCGT0803M0RP	8,00	.315	—	—	—	—	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT1204M0RP	RCGT1204M0RP	12,00	.472	—	—	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

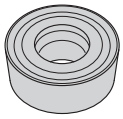


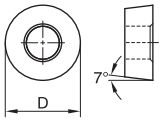


RCMH-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMH190600K	RCMH64K	19,05	3/4	—	—	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

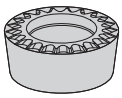
● first choice
○ alternate choice

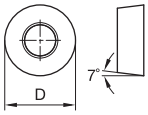




RCMT

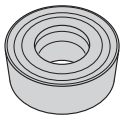
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0602M0	**RCMT0602M0**	6,00	.236	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	●	–	–	–	–
RCMT060200	**RCMT215**	6,35	1/4	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCMT0803M0	**RCMT0803M0**	8,00	.315	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–
RCMT09T300	**RCMT325**	9,53	3/8	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–
RCMT10T3M0	**RCMT10T3M0**	10,00	.394	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
RCMT1204M0	**RCMT1204M0**	12,00	.472	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT120400	**RCMT43**	12,70	1/2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
RCMT1605M0	**RCMT1605M0**	16,00	.630	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT2006M0	**RCMT2006M0**	20,00	.787	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–

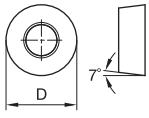




RCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0803M0MP	**RCMT0803M0MP**	8,00	.315	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT10T3M0MP	**RCMT10T3M0MP**	10,00	.394	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1204M0MP	**RCMT1204M0MP**	12,00	.472	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT120400MP	**RCMT43MP**	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1606M0MP	**RCMT1606M0MP**	16,00	.630	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–



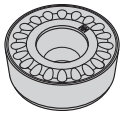


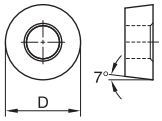
RCMT-M0

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0	**RCMT1204M0**	12,00	.472	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

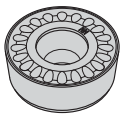
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

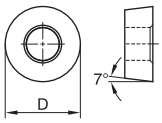




RCMT-RH

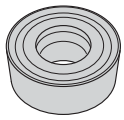
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RH	RCMT2006M0RH	20,00	.787	—	—	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

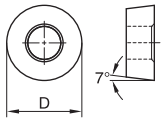




RCMX-RH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX2507M0RH	RCMX2507M0RH	25,00	63/64	—	—	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX3209M0RH	RCMX3209M0RH	32,00	1.2598	—	—	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

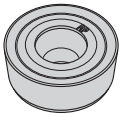


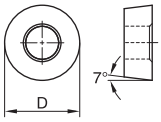


RCMT-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RM	RCMT2006M0RM	20,00	.787	—	—	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

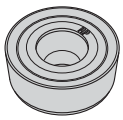
● first choice
○ alternate choice

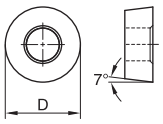




RCMT-RP

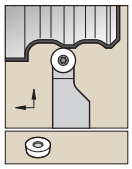
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0RP	RCMT1204M0RP	12,00	.472	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT1606M0RP	RCMT1606M0RP	16,00	.630	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT2006M0RP	RCMT2006M0RP	20,00	.787	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

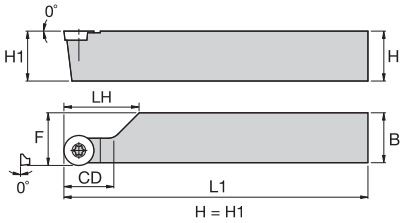




RCMX-RP

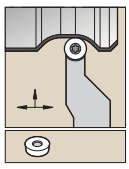
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX1003M0RP	RCMX1003M0RP	10,00	.3937	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX2507M0RP	RCMX2507M0RP	25,00	63/64	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

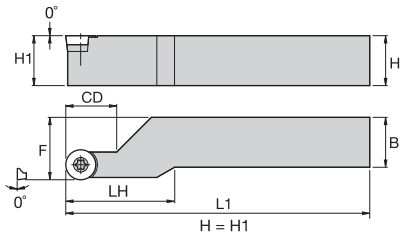




SRAC

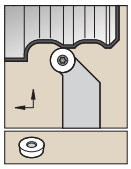
order number	catalog number	H	B	F	L1	LH	CD	gage insert	shim	insert screw	Torx Plus
right hand											
1808538	**SRACR162D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..215	**–**	**MS1153**	T7
1808542	**SRACR202D**	1.25	1.25	1.270	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808536	**SRACR163D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808540	**SRACR203D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808532	**SRACR164D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1808534	**SRACR204D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1909005	**SRACR244D**	1.50	1.50	1.520	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
left hand											
1808539	**SRACL162D**	1.00	1.00	1.020	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808543	**SRACL202D**	1.25	1.25	1.270	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808541	**SRACL203D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808533	**SRACL164D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1808535	**SRACL204D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1909006	**SRACL244D**	1.50	1.50	1.520	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15

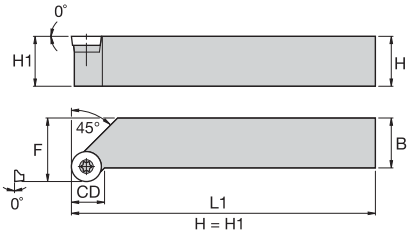




SRCC

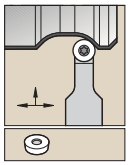
order number	catalog number	CD	H	B	F	L1	LH	gage insert	shim	insert screw	Torx
right hand											
1908976	**SRCCR122B**	.81	.75	.75	1.000	4.50	1.66	RC..215	**–**	**MS1153**	T7
1908978	**SRCCR162D**	.81	1.00	1.00	1.250	6.00	1.66	RC..215	**–**	**MS1153**	T7
1908981	**SRCCR123B**	1.02	.75	.75	1.000	4.50	1.88	RC..325	**SR3**	**MS1156**	T15
1908994	**SRCCR163D**	1.02	1.00	1.00	1.250	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
1908996	**SRCCR203D**	1.02	1.25	1.25	1.500	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
left hand											
1908980	**SRCCL162D**	.81	1.00	1.00	1.250	6.00	1.66	RC..215	**–**	**MS1153**	T7
1908995	**SRCCL163D**	1.02	1.00	1.00	1.250	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
1909002	**SRCCL203D**	1.02	1.25	1.25	1.500	6.00	1.88	RC..325	**SR3**	**MS1156**	T15

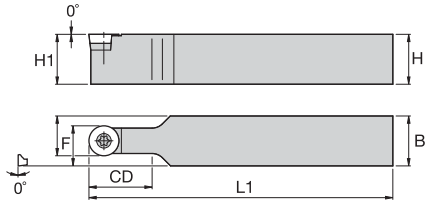




SRGC

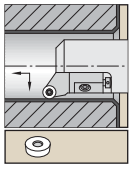
order number	catalog number	H	B	F	L1	CD	gage insert	shim	insert screw	Torx
right hand										
1094548	**SRGCR122**	.75	.75	1.000	4.50	.40	RC..215	**–**	**MS1153**	T7
1094550	**SRGCR162**	1.00	1.00	1.250	6.00	.40	RC..215	**–**	**MS1153**	T7
1094554	**SRGCR163**	1.00	1.00	1.250	6.00	.41	RC..325	**SR3**	**MS1156**	T15
1094556	**SRGCR203**	1.25	1.25	1.500	6.00	.43	RC..325	**SR3**	**MS1156**	T15
left hand										
1094551	**SRGCL162**	1.00	1.00	1.250	6.00	.40	RC..215	**–**	**MS1153**	T7
1094557	**SRGCL203**	1.25	1.25	1.500	6.00	.43	RC..325	**SR3**	**MS1156**	T15

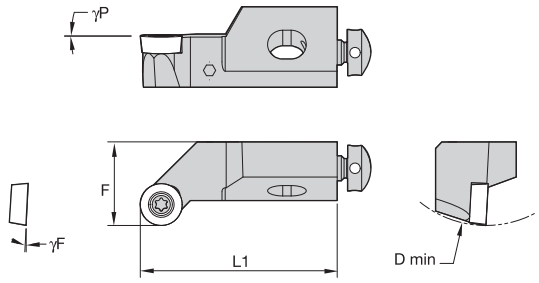




SROC

order number	catalog number	H	B	F	L1	LH	CD	gage insert	shim	insert screw	Torx
1094543	**SROCN102**	.63	.63	.438	4.00	–	.62	RC..215	**–**	**MS1153**	T7
1094544	**SROCN122**	.75	.75	.500	4.50	–	.75	RC..215	**–**	**MS1153**	T7
1094545	**SROCN162**	1.00	1.00	.625	6.00	–	1.00	RC..215	**–**	**MS1153**	T7
1094546	**SROCN123**	.75	.75	.562	4.50	–	.75	RC..325	**SR3**	**MS1156**	T15
1094547	**SROCN163**	1.00	1.00	.688	6.00	–	1.00	RC..325	**SR3**	**MS1156**	T15
1094621	**SROCN203**	1.25	1.25	.813	6.00	1.25	1.25	RC..325	**SR3**	**MS1156**	T15





SRGC

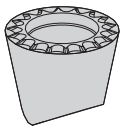
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098711	**SRGCR08CA06**	.984	.394	1.26	-4.0	.0	RC..0602M0/RC..215
1098713	**SRGCR12CA10**	1.969	.787	2.17	-3.0	.0	RC..10T3M0/RC..10T3M0

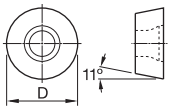
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	–	2.5 mm	**CSWM 040 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**

ISO/ANSI Carbide Inserts

● first choice
○ alternate choice





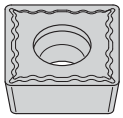
RPGT-MP

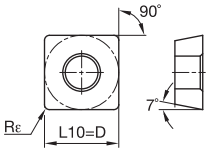
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RPGT060400MP	**RPGT23MP**	6,35	1/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●							●	●	●	●	●	●	●		●	●	●	●		●	●
N																									●	●	●		●	●	●	●	●			
S																									●	●	●	●	●	●	●	●				
H																																				

NOTE: For V-Bottom style holders, please see page B386–B387.

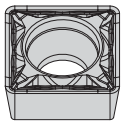
● first choice
○ alternate choice

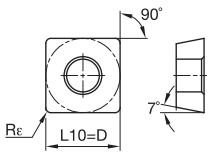




SCMT-11

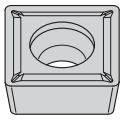
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T30411	SCMT325111	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT09T30811	SCMT325211	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040411	SCMT43111	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040811	SCMT43211	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

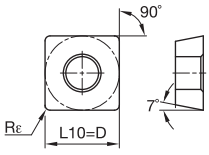




SCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304FP	SCMT3251FP	9,53	3/8	9,53	.375	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
SCMT09T308FP	SCMT3252FP	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
SCMT120404FP	SCMT431FP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408FP	SCMT432FP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412FP	SCMT433FP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

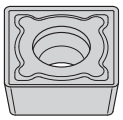


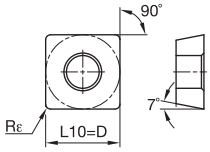


SCMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304LF	SCMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	●	●	●	●	●	–	–	●	●	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
SCMT09T308LF	SCMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120404LF	SCMT431LF	12,70	1/2	12,70	.500	0,4	1/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–
SCMT120408LF	SCMT432LF	12,70	1/2	12,70	.500	0,8	1/32	–	●	–	●	●	●	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120412LF	SCMT433LF	12,70	1/2	12,70	.500	1,2	3/64	–	●	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

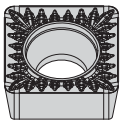
● first choice
○ alternate choice

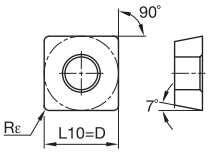




SCMT-MF

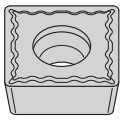
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T312MF	SCMT3253MF	9,53	3/8	9,52	.375	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMT09T308MF	SCMT3252MF	9,53	3/8	9,53	.375	0,8	1/32	–	●	●	●	●	–	–	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
SCMT120408MF	SCMT432MF	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	●	●	–	–	–	●	●	●	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
SCMT120412MF	SCMT433MF	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

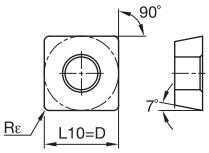




SCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304MP	SCMT3251MP	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT09T308MP	SCMT3252MP	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT120404MP	SCMT431MP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT120408MP	SCMT432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412MP	SCMT433MP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

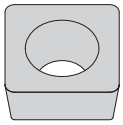


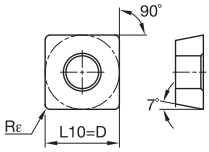


SCMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T308UF	SCMT3252UF	9,53	3/8	9,53	.375	0,8	1/32	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

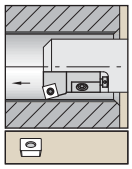
● first choice
○ alternate choice

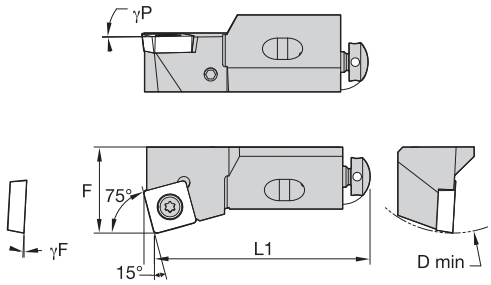




SCMW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
SCMW09T304	**SCMW3251**	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW09T308	**SCMW3252**	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120408	**SCMW432**	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120412	**SCMW433**	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



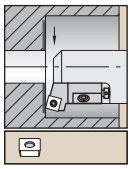


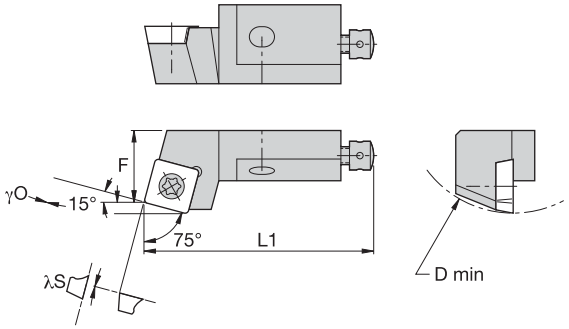
SSKC 15°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098719	**SSKCR12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432
1098720	**SSKCR16CA12**	2.362	.984	2.48	-3.0	.0	SC..120408/SC..432
left hand							
1098721	**SSKCL12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



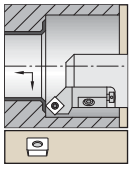


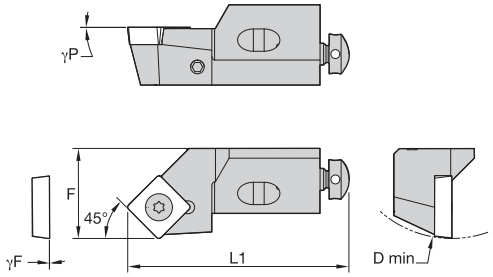
SSRC 15°

order number	catalog number	D min	F	L1	λS°	γO°	gage insert
right hand							
1098723	**SSRCR12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432
left hand							
1098725	**SSRCL12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





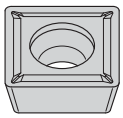
SSSC 45°

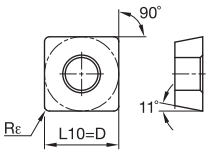
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098737	**SSSCR12CA12**	1.969	.787	1.85	-3.0	.0	SC..120408/SC..432
left hand							
1098739	**SSSCL12CA12**	1.969	.787	1.85	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

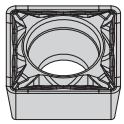
● first choice
○ alternate choice

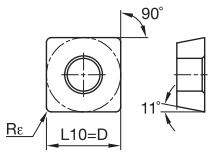




SPGT-LF

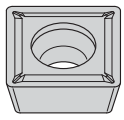
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
SPGT09T304LF	SPGT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
SPGT09T308LF	SPGT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–

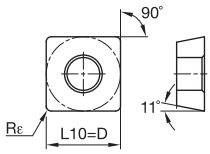




SPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304FP	SPMT3251FP	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
SPMT09T308FP	SPMT3252FP	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

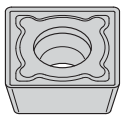


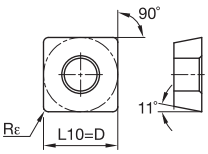


SPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304LF	SPMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	–	●	–	●	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
SPMT09T308LF	SPMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	●	–	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–

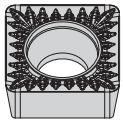
● first choice
○ alternate choice

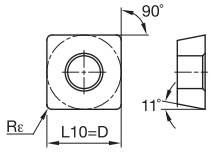




SPMT-MF

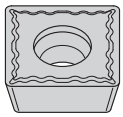
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
SPMT09T308MF	SPMT3252MF	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	●	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SPMT120408MF	SPMT432MF	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	●	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

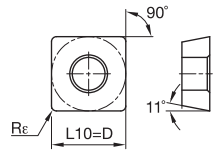




SPMT-MP

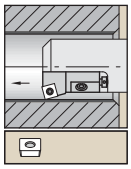
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
SPMT09T308MP	SPMT3252MP	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SPMT120408MP	SPMT432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

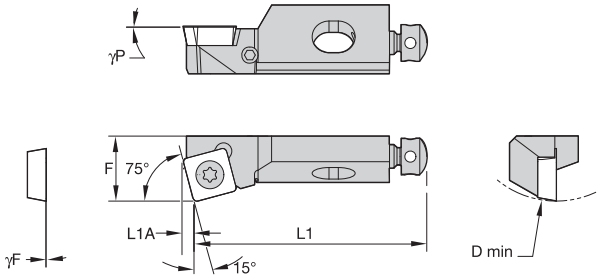




SPMT-UF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
SPMT09T304UF	SPMT3251UF	9,53	3/8	9,53	.375	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–



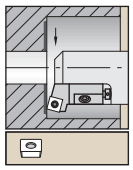


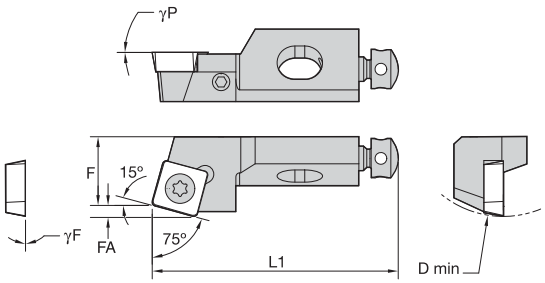
SSKP 15°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
1098570	**SSKPR10CA09**	1.575	.551	1.97	.09	.0	.0	SP..09T308/SP..3252

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



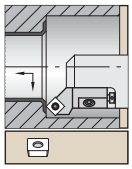


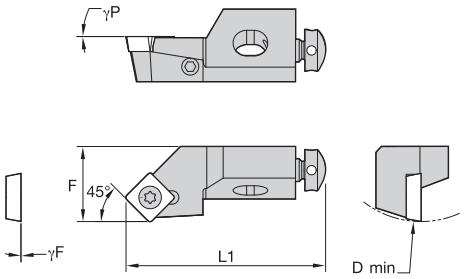
SSRP 15°

order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098574	**SSRPR10CA09**	1.575	.551	.088	1.97	.0	.0	SP..09T308/SP..3252

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SSSP 45°

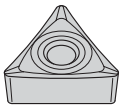
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098572	SSSPR10CA09	1.575	.551	1.73	.0	.0	SP..09T308/SP..3252
left hand							
1098764	SSSPL10CA09	1.575	.551	1.73	.0	.0	SP..09T308/SP..3252

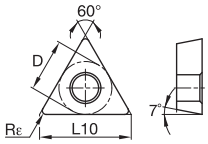
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	MS1155	T15	KUAM28	2 mm	KUAM30	191.405	4 mm	CSWM 060 050

● first choice
○ alternate choice

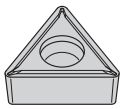
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

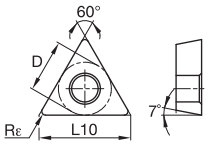




TCGT-HP

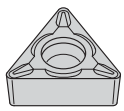
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110202HP	TCGT21505HP	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TCGT110204HP	TCGT2151HP	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
TCGT110208HP	TCGT2152HP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T302HP	TCGT32505HP	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCGT16T304HP	TCGT3251HP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
TCGT16T308HP	TCGT3252HP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–

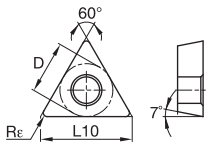




TCGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110201LF	TCGT2150LF	6,35	1/4	11,00	.433	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
TCGT110204LF	TCGT2151LF	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TCGT16T301LF	TCGT3250LF	9,53	3/8	16,50	.650	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCGT16T302LF	TCGT32505LF	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T304LF	TCGT3251LF	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TCGT16T308LF	TCGT3252LF	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



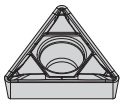


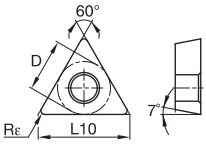
TCMT-11

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT11020411	TCMT215111	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30411	TCMT325111	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30811	TCMT325211	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

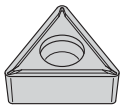


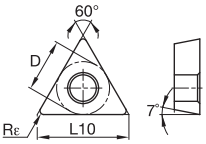


TCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT090204FP	TCMT18151FP	5,56	7/32	9,63	.379	0,4	1/64
TCMT090208FP	TCMT18152FP	5,56	7/32	9,63	.379	0,8	1/32
TCMT110202FP	TCMT21505FP	6,35	1/4	11,00	.433	0,2	.008
TCMT110204FP	TCMT2151FP	6,35	1/4	11,00	.433	0,4	1/64
TCMT110304FP	TCMT221FP	6,35	1/4	11,00	.433	0,4	1/64
TCMT110208FP	TCMT2152FP	6,35	1/4	11,00	.433	0,8	1/32
TCMT110308FP	TCMT222FP	6,35	1/4	11,00	.433	0,8	1/32
TCMT110312FP	TCMT223FP	6,35	1/4	11,00	.433	1,2	3/64
TCMT16T304FP	TCMT3251FP	9,53	3/8	16,50	.650	0,4	1/64
TCMT16T308FP	TCMT3252FP	9,53	3/8	16,50	.650	0,8	1/32
TCMT16T312FP	TCMT3253FP	9,53	3/8	16,50	.650	1,2	3/64
TCMT220408FP	TCMT432FP	12,70	1/2	22,00	.866	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														





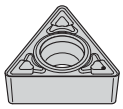
TCMT-LF

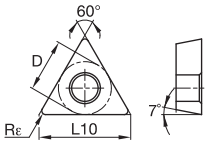
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT110202LF	TCMT21505LF	6,35	1/4	11,00	.433	0,2	.008
TCMT110204LF	TCMT2151LF	6,35	1/4	11,00	.433	0,4	1/64
TCMT110208LF	TCMT2152LF	6,35	1/4	11,00	.433	0,8	1/32
TCMT16T302LF	TCMT32505LF	9,53	3/8	16,50	.650	0,2	.008
TCMT16T304LF	TCMT3251LF	9,53	3/8	16,50	.650	0,4	1/64
TCMT16T308LF	TCMT3252LF	9,53	3/8	16,50	.650	0,8	1/32
TCMT16T312LF	TCMT3253LF	9,53	3/8	16,50	.650	1,2	3/64
TCMT220408LF	TCMT432LF	12,70	1/2	22,00	.866	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110202LF	TCMT21505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT110204LF	TCMT2151LF	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	●	●	–	●	–
TCMT110208LF	TCMT2152LF	–	–	●	●	●	●	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TCMT16T302LF	TCMT32505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT16T304LF	TCMT3251LF	–	●	●	●	●	–	–	–	●	–	●	●	●	–	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T308LF	TCMT3252LF	–	●	●	●	●	●	–	●	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T312LF	TCMT3253LF	–	●	–	–	●	–	–	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
TCMT220408LF	TCMT432LF	–	●	–	●	●	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● first choice
○ alternate choice

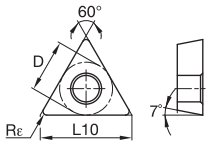
TCMT-MF





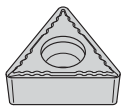
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MF	TCMT2152MF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TCMT16T308MF	TCMT3252MF	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	●	●	●	–	–	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–
TCMT16T312MF	TCMT3253MF	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

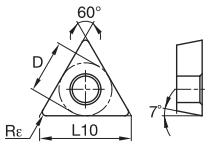
TCMT-MP



ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MP	TCMT2152MP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304MP	TCMT3251MP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T308MP	TCMT3252MP	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T312MP	TCMT3253MP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

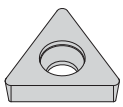
TCMT-UF

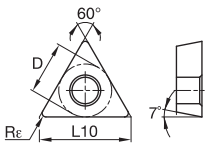




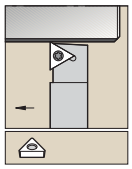
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110204UF	TCMT2151UF	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT110208UF	TCMT2152UF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT16T308UF	TCMT3252UF	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

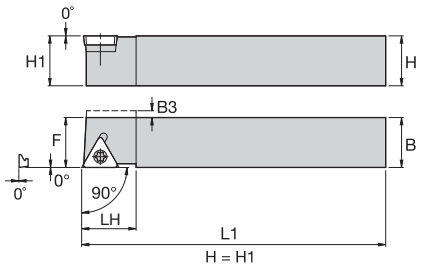
TCMW





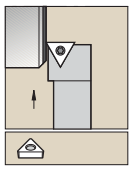
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMW16T304	TCMW3251	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMW16T308	TCMW3252	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

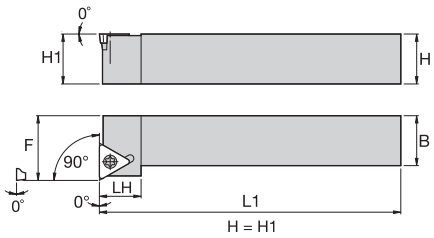


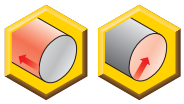


STAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx Plus
right hand													
1772116	**STACR062D**	.38	.38	.375	6.00	.62	.09	TC..2151	**–**	**–**	–	**MS1153**	T7
1772118	**STACR082D**	.50	.50	.500	6.00	.62	–	TC..2151	**–**	**–**	–	**MS1153**	T7
1772122	**STACR103B**	.63	.63	.625	4.50	.75	–	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15

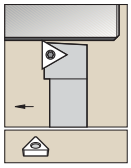


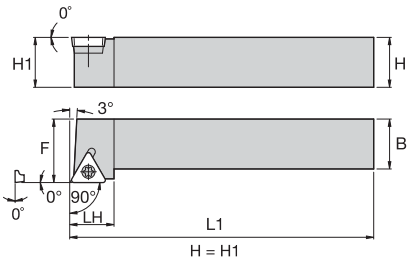




STFC 0°

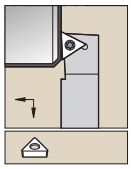
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx Plus
right hand												
1094409	**STFCR062**	.38	.38	.500	2.50	.62	TC..2151	**–**	**–**	–	**MS1153**	T7
1094581	**STFCR163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094410	**STFCL062**	.38	.38	.500	2.50	.62	TC..2151	**–**	**–**	–	**MS1153**	T7

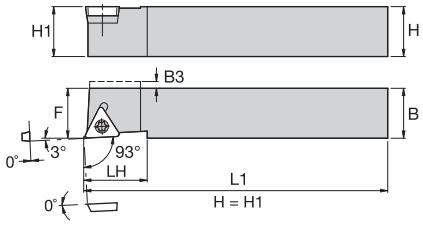


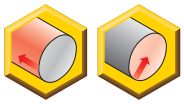


STGC 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094421	**STGCR062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094423	**STGCR082**	.50	.50	.625	3.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094427	**STGCR103**	.63	.63	.750	4.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094429	**STGCR123**	.75	.75	1.000	4.50	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094583	**STGCR163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094422	**STGCL062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094424	**STGCL082**	.50	.50	.625	3.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094428	**STGCL103**	.63	.63	.750	4.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094430	**STGCL123**	.75	.75	1.000	4.50	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094584	**STGCL163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15



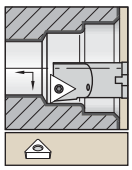




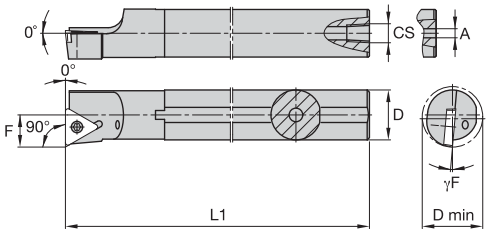
STJC-F -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	insert screw	Torx
right hand										
1772124	**STJCRF062D**	.38	.38	.375	6.00	.62	.09	TC..2151	**MS1153**	T7
1772126	**STJCRF082D**	.50	.50	.500	6.00	.62	—	TC..2151	**MS1153**	T7
1772128	**STJCRF102B**	.63	.63	.625	4.50	.62	—	TC..2151	**MS1153**	T7

Screw-On Boring Bars

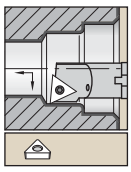


Steel shank with through coolant.

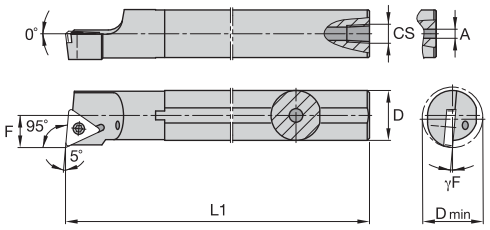


A-STFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328594	**A06MSTFCR2**	.375	.480	.250	6.00	.13	—	-8.0	TC..2151	**MS1153**	T7
1328596	**A08RSTFCR2**	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328599	**A10SSTFCR2**	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	TC..2151	**MS1153**	T7
1328601	**A12SSTFCR3**	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	TC..3252	**MS1155**	T15
1328603	**A16STFCR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15
left hand											
1328598	**A08RSTFCL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328602	**A12SSTFCL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TC..3252	**MS1155**	T15
1328604	**A16STFCL3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15



Steel shank with through coolant.

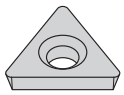


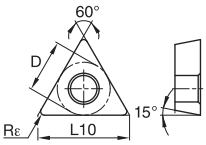
A-STLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328605	**A06MSTLCR2**	.375	.480	.250	6.00	.13	—	-8.0	TC..2151	**MS1153**	T7
1328607	**A08RSTLCR2**	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328610	**A10SSTLCR2**	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	TC..2151	**MS1153**	T7
1328612	**A12SSTLCR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TC..3252	**MS1155**	T15
1328614	**A16STLCR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15
left hand											
1328606	**A06MSTLCL2**	.375	.480	.250	6.00	.13	—	-8.0	TC..2151	**MS1153**	T7
1328608	**A08RSTLCL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328611	**A10SSTLCL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-5.0	TC..2151	**MS1153**	T7
1328613	**A12SSTLCL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TCMT3252	**MS1155**	T15
1328615	**A16STLCL3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15

● first choice
○ alternate choice

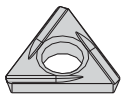
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

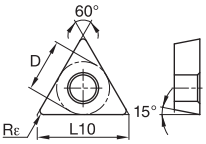




TDHB

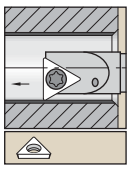
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TDHB07T12S0	TDHB12807501	4,06	.160	7,04	.277	0,1	.002
TDHB07T1202	TDHB12807505	4,06	.160	7,04	.277	0,2	.007
TDHB07T1204	TDHB1280751	4,06	.160	7,04	.277	0,4	.015
TDHB07T1208	TDHB1280752	4,06	.160	7,04	.277	0,8	1/32



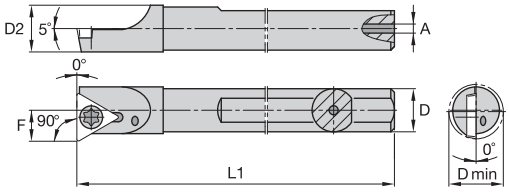


TDHH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TDHH07T1202L	TDHH12807505L	4,06	.160	7,04	.277	0,2	.007
TDHH07T1202R	TDHH12807505R	4,06	.160	7,04	.277	0,2	.007
TDHH07T1204L	TDHH1280751L	4,06	.160	7,04	.277	0,4	.015
TDHH07T1204R	TDHH1280751R	4,06	.160	7,04	.277	0,4	.015

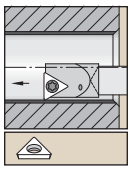


Steel shank with through coolant.

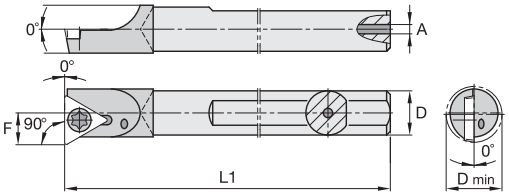


A-STFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288873	**A04HSTFDR128**	.250	.296	.260	.156	4.00	.04	TDHB12807505	**FC14**	T7

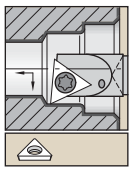


Carbide shank with through coolant.

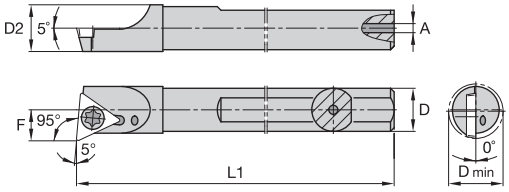


E-STFD 0°

order number	catalog number	D	D min	F	L1	A	gage insert	insert screw	Torx
right hand									
1270956	**E04HSTFDR128**	.250	.296	.156	4.00	.05	TD..130805	**FC14**	T7
1270968	**E05HSTFDR128**	.313	.358	.187	4.00	.09	TD..130805	**FC14**	T7
1270971	**E05MSTFDR128**	.313	.358	.187	6.00	.09	TDHB12807505	**FC14**	T7

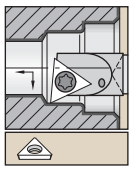


Steel shank with through coolant.

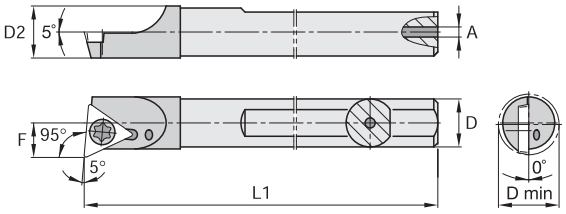


A-STLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288867	**A03GSTLDR128**	.188	.275	—	.123	3.50	.04	TDHB12807505	**FC11**	T7
1288875	**A04HSTLDR128**	.250	.296	.260	.156	4.00	.04	TDHB12807505	**FC14**	T7
1288881	**A05HSTLDR128**	.313	.358	.322	.187	4.00	.06	TDHB12807505	**FC14**	T7



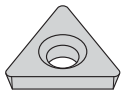
Carbide shank with through coolant.

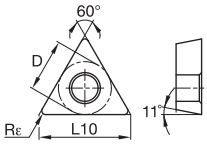


E-STLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1270944	**E03HSTLDR128**	.187	.275	.236	.126	4.00	.04	TD..12807505	**FC11**	T7
1270950	**E03MSTLDR128**	.187	.275	—	.126	6.00	.04	TD..12807505	**FC11**	T7
1270982	**E06MSTLDR07**	.236	.280	—	.146	6.00	.05	TD..07S102	**FC11**	T7
1270958	**E04HSTLDR128**	.250	.296	.260	.156	4.00	.05	TD..130805	**FC14**	T7
1270965	**E04MSTLDR128**	.250	.296	.000	.156	6.00	.05	TD..12807505	**FC14**	T7
1270970	**E05HSTLDR128**	.312	.358	—	.187	4.00	.09	TD..12807505	**FC14**	T7
1270973	**E05MSTLDR128**	.312	.358	—	.187	6.00	.09	TD..12807505	**FC14**	T7
1270992	**E08MSTLDR07**	.315	.362	—	.189	6.00	.09	TD..07S102	**FC11**	T7
1950413	**E06SSTLDR2**	.375	.438	—	.228	10.00	.13	TP..21505	**QC21**	T9
left hand										
1270981	**E06MSTLDL07**	.236	.278	—	.146	6.00	.05	TD..130805	**FC11**	T7
1270964	**E04MSTLDL128**	.250	.296	—	.156	6.00	.05	TD..12807505	**FC14**	T7
1270991	**E08MSTLDL07**	.315	.360	—	.189	6.00	.09	TD..07S102	**FC14**	T7

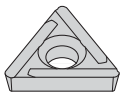
● first choice
○ alternate choice

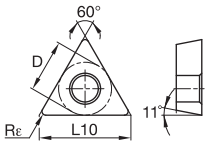




TPCB

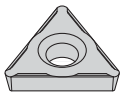
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCB110202	TPCB2205	6,35	1/4	—	—	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160302	TD6P05	9,53	3/8	16,50	.650	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160304	TD6P1	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TD6P	TD6P	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TPCB160308	TD6P2	9,53	3/8	16,50	.650	0,8	.031	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

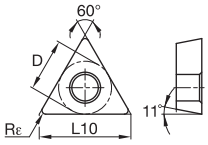




TPCG

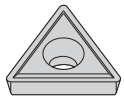
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCG110202L	TPCG2205L	6,35	1/4	11,00	.433	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110204L	TPCG221L	6,35	1/4	11,00	.433	0,4	.15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110208L	TPCG222L	6,35	1/4	11,00	.433	0,8	.31	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

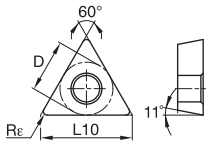




TPCH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCH110202	TPCH2205	6,50	.256	11,26	.443	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCH110204	TPCH221	6,50	.256	11,26	.443	0,4	.015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

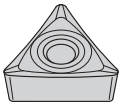


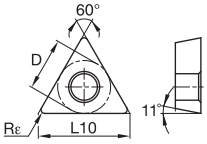


TPGH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGH160304	TPGH321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TPGH160308	TPGH322	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

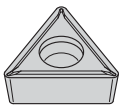
● first choice
○ alternate choice

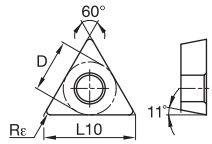




TPGT-HP

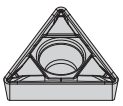
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT110202HP	TPGT21505HP	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204HP	TPGT2151HP	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TPGT110208HP	TPGT2152HP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TPGT16T302HP	TPGT32505HP	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304HP	TPGT3251HP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
TPGT16T308HP	TPGT3252HP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

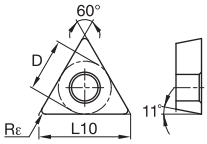




TPGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT090204LF	TPGT18151LF	5,56	7/32	9,62	.379	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT090202LF	TPGT181505LF	5,56	7/32	9,63	.379	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT110201LF	TPGT2150LF	6,35	1/4	11,00	.433	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPGT110202LF	TPGT21505LF	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204LF	TPGT2151LF	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT110208LF	TPGT2152LF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304LF	TPGT3251LF	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TPGT16T308LF	TPGT3252LF	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–

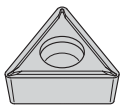


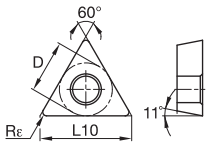


TPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT090204FP	TPMT18151FP	5,56	7/32	9,63	.379	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT090208FP	TPMT18152FP	5,56	7/32	9,63	.379	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110202FP	TPMT21505FP	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110204FP	TPMT2151FP	6,35	1/4	11,00	.433	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110304FP	TPMT221FP	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110208FP	TPMT2152FP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110308FP	TPMT222FP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT16T304FP	TPMT3251FP	9,53	3/8	16,50	.650	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	●	●	–	–	–	–	–
TPMT16T308FP	TPMT3252FP	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

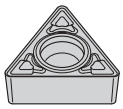
● first choice
○ alternate choice

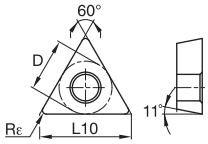




TPMT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
TPMT090202LF	TPMT181505LF	5,56	7/32	9,63	.379	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TPMT090204LF	TPMT18151LF	5,56	7/32	9,63	.379	0,4	1/64	–	●	–	●	●	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT110202LF	TPMT21505LF	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT110204LF	TPMT2151LF	6,35	1/4	11,00	.433	0,4	1/64	–	●	●	●	●	–	–	–	–	●	–	–	●	–	–	●	●	–	–	–	●	–	–	–	●	●	–	●	–
TPMT110208LF	TPMT2152LF	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	●	–
TPMT16T304LF	TPMT3251LF	9,53	3/8	16,50	.650	0,4	1/64	–	●	●	●	●	–	–	–	●	–	●	–	–	–	–	●	●	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T308LF	TPMT3252LF	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	●	●	–	–	–	●	●	●	●	●	–	–	–	–	●	–	–	–	–	–	–	●	●	–	●	–
TPMT220408LF	TPMT432LF	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

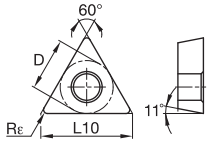




TPMT-MF

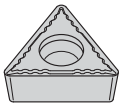
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
TPMT110208MF	TPMT2152MF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MF	TPMT3252MF	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	●	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MF	TPMT3253MF	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	●	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

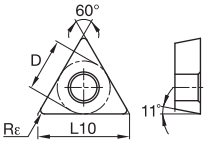
● first choice
○ alternate choice



TPMT-MP

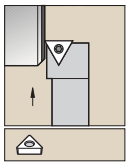
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MP	TPMT2152MP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MP	TPMT3252MP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MP	TPMT3253MP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

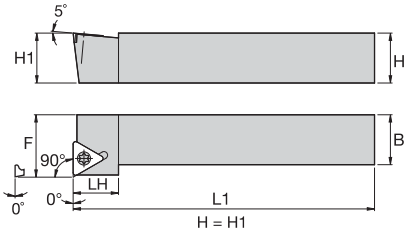


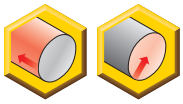


TPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110202UF	TPMT21505UF	6,35	1/4	11,00	.433	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT110204UF	TPMT2151UF	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT16T308UF	TPMT3252UF	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



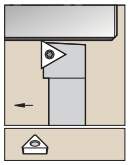


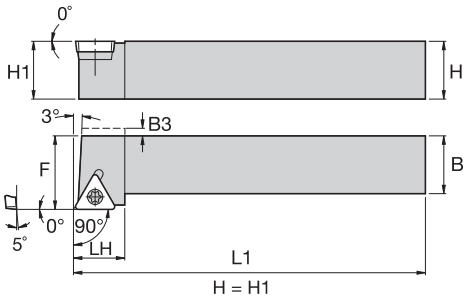


STFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095590	**STFPR062**	.38	.38	.500	2.50	.44	TP..2151	**MS1153**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPMT/TPGM/TPGT/TPGW-21.5_inserts.

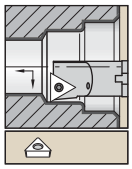




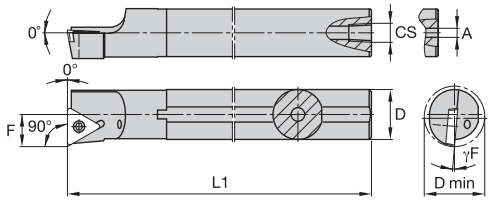
STGP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095588	**STGPR062**	.38	.38	.500	2.50	.56	TP..2151	**MS1153**	T7
1095589	**STGPR082V**	.50	.50	.625	3.50	.56	TP..2151	**MS1153**	T7
left hand									
1095681	**STGPL062**	.38	.38	.500	2.50	.56	TP..2151	**MS1153**	T7
1095682	**STGPL082V**	.50	.50	.625	3.50	.56	TP..2151	**MS1153**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPMT/TPGM/TPGT/TPGW-21.5_inserts.



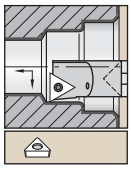
Steel shank with through coolant.



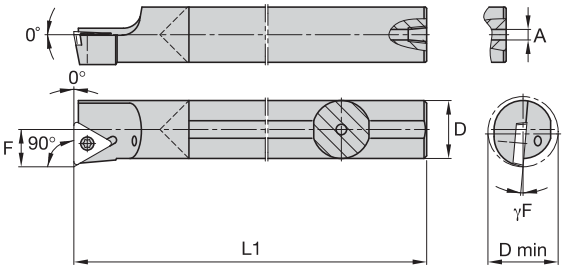
A-STFP 0°

order number	catalog number	D	D min	F	L1	L2	A	CS	γF°	gage insert	insert screw	Torx
right hand												
1094755	**A05KSTFPR18**	.313	.415	.219	5.00	.73	.09	—	-8.0	TP..18151	**MS1933**	T7
1094653	**A06MSTFPR2**	.375	.480	.250	6.00	—	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094655	**A08RSTFPR2**	.500	.600	.312	8.00	—	.16	1/16-27 NPT	-2.0	TP..2151	**MS1153**	T7
1094657	**A10SSTFPR2**	.625	.770	.406	10.00	—	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094659	**A12SSTFPR3**	.750	.930	.500	10.00	1.35	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15
1094661	**A16STFPR3**	1.000	1.200	.640	12.00	—	—	1/4-18 NPT	.0	TP..3252	**MS1155**	T15
left hand												
1094654	**A06MSTFPL2**	.375	.480	.250	6.00	—	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094656	**A08RSTFPL2**	.500	.600	.312	8.00	—	.16	1/16-27 NPT	-2.0	TP..2151	**MS1153**	T7
1094660	**A12SSTFPL3**	.750	.930	.500	10.00	1.35	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



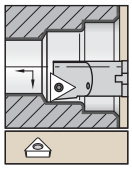
Carbide shank with through coolant.



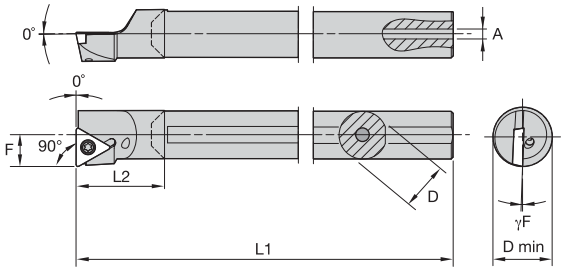
E-STFP 0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152707	**E05STFPR18**	.313	.415	.219	5.00	.09	-5.0	TP..18151	**MS1933**	T7
1152709	**E06STFPR2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152711	**E08STFPR2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152713	**E10STFPR2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1102784	**E12STFPR3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152716	**E16STFPR3**	1.000	1.200	.640	12.00	.31	.0	TP..3252	**MS1155**	T15
left hand										
1152708	**E05STFPL18**	.313	.415	.219	5.00	.09	-5.0	TP..18151	**MS1933**	T7
1152710	**E06STFPL2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152712	**E08STFPL2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152714	**E10STFPL2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152715	**E12STFPL3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



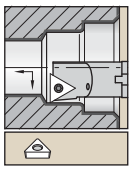
Heavy metal bar with through coolant.



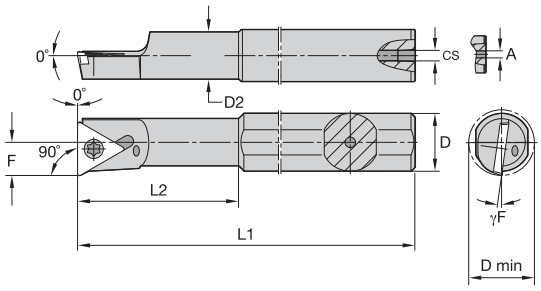
L-STFP 0°

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
3331081	**L06MSTFPR2**	.375	.480	.250	6.06	.91	.13	-4.0	TP..2151	**MS1153**	T7
3331079	**L08RSTFPR2**	.500	.600	.312	7.93	.93	.16	-2.0	TP..2151	**MS1153**	T7
3331080	**L10RSTFPR2**	.625	.770	.406	8.08	1.12	.16	.0	TP..2151	**MS1153**	T7
3331082	**L12RSTFPR3**	.750	.930	.500	8.05	1.39	.16	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



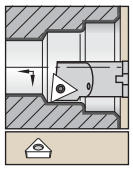
Steel shank with through coolant.



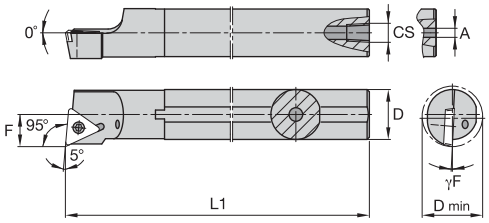
A-STFP 0° Necked

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
1094651	**A0506STFPR18**	.375	.415	.219	5.00	1.63	.09	-8.0	TP..18151	**MS1152**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



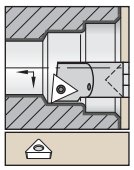
Steel shank with through coolant.



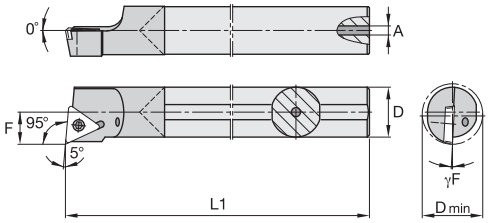
A-STLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094745	**A06MSTLPR2**	.375	.480	.250	6.00	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094747	**A08RSTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	TPMT2151	**MS1153**	T7
1094749	**A10SSTLPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094751	**A12SSTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15
1094753	**A16STLPR3**	1.000	1.220	.640	12.00	.25	1/4-18 NPT	.0	TP..3252	**MS1155**	T15
left hand											
1094746	**A06MSTLPL2**	.375	.480	.250	6.00	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094748	**A08RSTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	TPMT2151	**MS1153**	T7
1094750	**A10SSTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094752	**A12SSTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



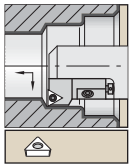
Carbide shank with through coolant.

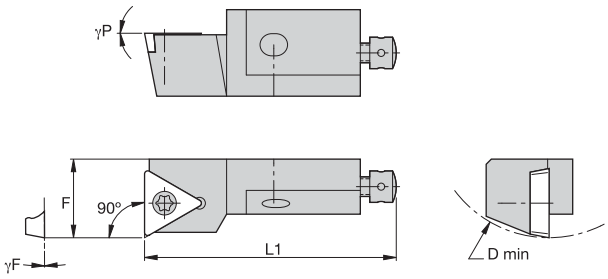


E-STLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152767	**E06STLPR2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152769	**E08STLPR2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152771	**E10STLPR2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152704	**E12STLPR3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152706	**E16STLPR3**	1.000	1.220	.640	12.00	.31	.0	TP..3252	**MS1155**	T15
left hand										
1152768	**E06STLPL2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152770	**E08STLPL2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152772	**E10STLPL2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152705	**E12STLPL3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152766	**E16STLPL3**	1.000	1.220	.640	12.00	.31	.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.





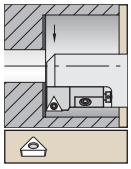
STFP

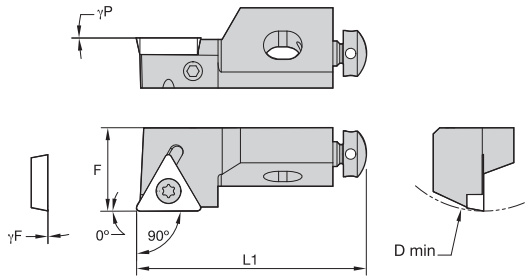
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098565	**STFPR08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098563	**STFPR10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098562	**STFPR12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252
left hand							
1098561	**STFPL08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098559	**STFPL10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098558	**STFPL12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts. This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., TPMT/TPGT/TPGW-32.5_).90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





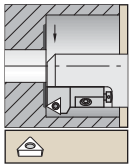
STGP

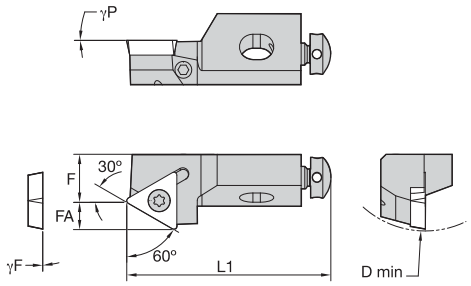
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098567	**STGPR10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098566	**STGPR12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252
left hand							
1098762	**STGPL08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098760	**STGPL10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts. This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., TPMT/TPGT/TPGW-32.5_).90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





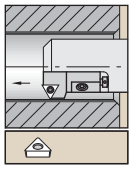
STTP 30°

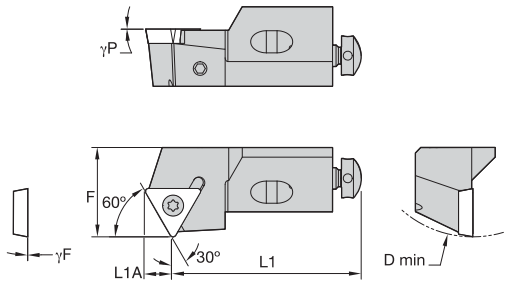
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098744	**STTPR08CA09**	.984	.236	.167	1.26	.0	.0	TP..090204/TP..18151
1098742	**STTPR10CA11**	1.575	.354	.195	1.97	.0	.0	TP..110204/TP..2151
1098741	**STTPR12CA16**	1.969	.512	.282	2.17	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	–	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**





STWP 30°

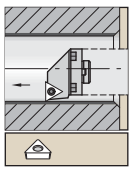
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098750	**STWPR10CA11**	1.575	.551	1.73	.0	.0	TP..110204/TP..2151
1098749	**STWPR12CA16**	1.969	.787	1.85	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.

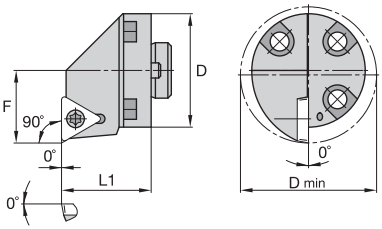
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**

Screw-On Boring Heads



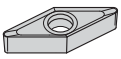
With through coolant.

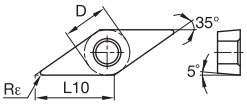


H-STFP 0°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581444	**H16STFPR2**	1.000	1.200	.640	.79	TP..2151	**MS1153**	T7

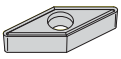
● first choice
○ alternate choice

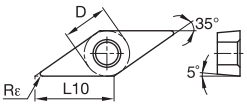




VBGT-HP

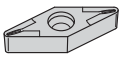
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●				
H																																				
VBGT110302HP	VBGT2205HP	6,35	1/4	11,07	.436	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110304HP	VBGT221HP	6,35	1/4	11,07	.436	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VBGT160404HP	VBGT331HP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	●	–	–
VBGT160408HP	VBGT332HP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

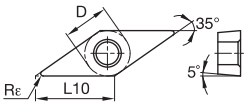




VBGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBGT1103X0LF	VBGT22X0LF	6,35	1/4	11,07	.436	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT110301LF	VBGT220LF	6,35	1/4	11,07	.436	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110302LF	VBGT2205LF	6,35	1/4	11,07	.436	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	–	–	–
VBGT110304LF	VBGT221LF	6,35	1/4	11,07	.436	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–
VBGT1604X0LF	VBGT33X0LF	9,53	3/8	16,61	.654	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT160401LF	VBGT330LF	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
VBGT160402LF	VBGT3305LF	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	●	–	–
VBGT160404LF	VBGT331LF	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–



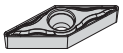


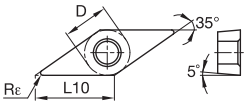
VBMT-11

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT11030211	VBMT220511	6,35	1/4	11,07	.436	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT11030411	VBMT22111	6,35	1/4	11,07	.436	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040411	VBMT33111	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040811	VBMT33211	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● first choice
○ alternate choice

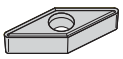
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

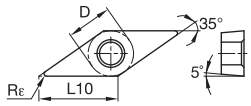




VBMT-FP

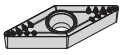
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302FP	VBMT2205FP	6,35	1/4	11,07	.436	0,2	.008	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VBMT110304FP	VBMT221FP	6,35	1/4	11,07	.436	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	●	●	–	–	–	–	●
VBMT110308FP	VBMT222FP	6,35	1/4	11,07	.436	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–
VBMT160402FP	VBMT3305FP	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	●
VBMT160404FP	VBMT331FP	9,53	3/8	16,61	.654	0,4	1/64	●	●	●	●	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	●	●	–	–	–	–	●
VBMT160408FP	VBMT332FP	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160412FP	VBMT333FP	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

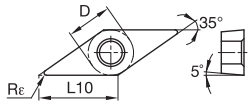




VBMT-LF

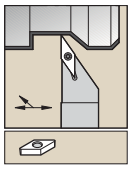
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302LF	VBMT2205LF	6,35	1/4	11,07	.436	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
VBMT110304LF	VBMT221LF	6,35	1/4	11,07	.436	0,4	1/64	●	●	●	●	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT110308LF	VBMT222LF	6,35	1/4	11,07	.436	0,8	1/32	●	–	●	●	●	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–
VBMT160402LF	VBMT3305LF	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160404LF	VBMT331LF	9,53	3/8	16,61	.654	0,4	1/64	–	●	●	●	●	●	–	–	–	●	●	●	–	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160408LF	VBMT332LF	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	●	●	●	–	–	●	●	●	–	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160412LF	VBMT333LF	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	●	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

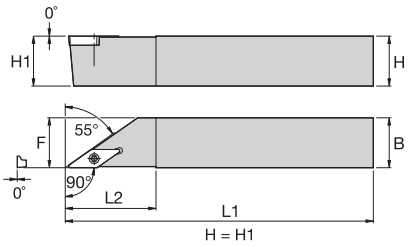


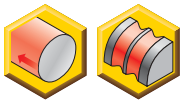


VBMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT160404MP	VBMT331MP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
VBMT160408MP	VBMT332MP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

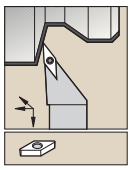


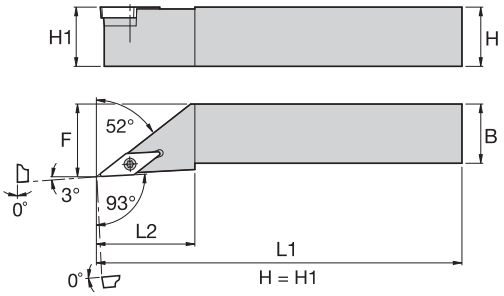


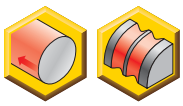


SVAB -0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx Plus
right hand									
1094607	**SVABR062D**	.38	.38	.375	6.00	.88	VB..221	**MS1153**	T7
1094609	**SVABR082D**	.50	.50	.500	6.00	.88	VB..221	**MS1153**	T7
1094611	**SVABR103B**	.63	.63	.625	4.50	1.38	VB..332	**MS1155**	T15
left hand									
1094608	**SVABL062D**	.38	.38	.375	6.00	.88	VB..221	**MS1153**	T7
1094610	**SVABL082D**	.50	.50	.500	6.00	.88	VB..221	**MS1153**	T7
1094612	**SVABL103B**	.63	.63	.625	4.50	1.38	VB..332	**MS1155**	T15

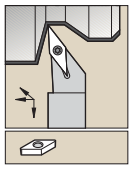


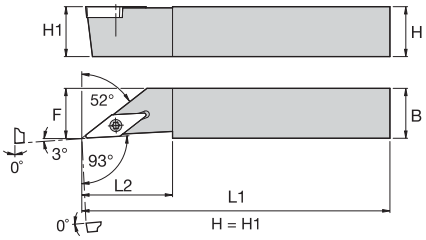




SVJB -3°

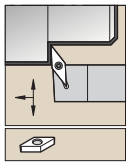
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094533	**SVJBR062**	.38	.38	.500	2.50	.88	VB..221	–	–	–	**MS1153**	T7
1094535	**SVJBR082**	.50	.50	.625	3.50	.88	VB..221	–	–	–	**MS1153**	T7
1094537	**SVJBR102**	.63	.63	.750	4.00	.88	VB..221	–	–	–	**MS1153**	T7
1094539	**SVJBR123**	.75	.75	1.000	4.50	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1094541	**SVJBR163**	1.00	1.00	1.250	6.00	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094534	**SVJBL062**	.38	.38	.500	2.50	.88	VB..221	–	–	–	**MS1153**	T7
1094536	**SVJBL082**	.50	.50	.625	3.50	.88	VB..221	–	–	–	**MS1153**	T7
1094538	**SVJBL102**	.63	.63	.750	4.00	.88	VB..221	–	–	–	**MS1153**	T7
1094540	**SVJBL123**	.75	.75	1.000	4.50	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1094542	**SVJBL163**	1.00	1.00	1.250	6.00	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

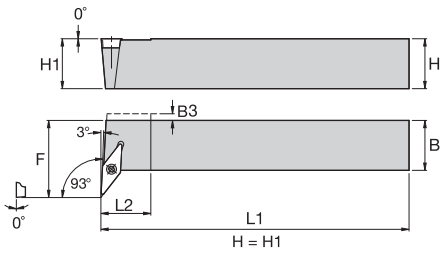




SVJB-F -3°

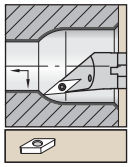
order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx Plus
right hand									
1094615	**SVJBRF062D**	.38	.38	.375	6.00	.93	VB..221	**MS1153**	T7
1094617	**SVJBRF082D**	.50	.50	.500	6.00	.93	VB..221	**MS1153**	T7
1094613	**SVJBRF103B**	.63	.63	.625	4.50	1.43	VB..332	**MS1155**	T15
left hand									
1094616	**SVJBLF062D**	.38	.38	.375	6.00	.93	VB..221	**MS1153**	T7
1094618	**SVJBLF082D**	.50	.50	.500	6.00	.93	VB..221	**MS1153**	T7
1094614	**SVJBLF103B**	.63	.63	.625	4.50	1.43	VB..332	**MS1155**	T15



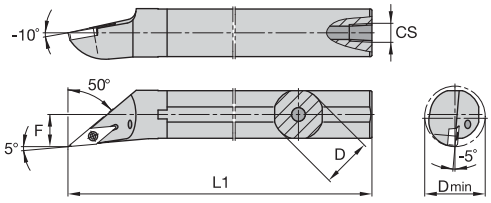


SVUB -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	insert screw	Torx
right hand										
1095632	**SVUBR082**	.50	.50	.830	3.50	.50	.12	VB..221	**MS1153**	T7
1095633	**SVUBR102**	.63	.63	.955	4.00	.50	—	VB..221	**MS1153**	T7
left hand										
1095634	**SVUBL082**	.50	.50	.830	3.50	.50	.12	VB..221	**MS1153**	T7
1095635	**SVUBL102**	.63	.63	.955	4.00	.50	—	VB..221	**MS1153**	T7

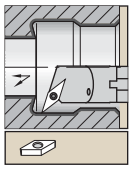


Steel shank with through coolant.

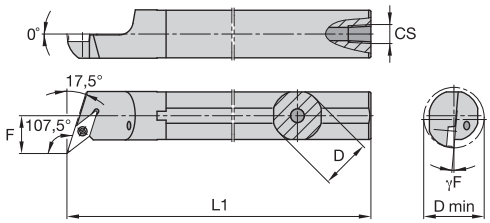


A-SVMB -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1236002	**A08RSVMBR2E**	.500	.980	.312	8.00	1/16-27 NPT	VB..221	**MS1153**	T7
1236006	**A10SSVMBR2E**	.625	.980	.406	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1236007	**A12SSVMBR3E**	.750	1.286	.500	10.00	1/8-27 NPT	VB..332	**MS1155**	T15
1236018	**A16TSVMBR3E**	1.000	1.286	.640	12.00	1/4-18 NPT	VB..332	**MS1155**	T15

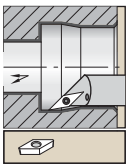


Steel shank with through coolant.

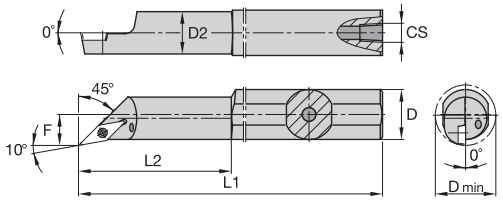


A-SVQB -17.5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094719	**A10SSVQBR2**	.625	.850	.500	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094721	**A12SSVQBR2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094723	**A16TSVQBR3**	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	**MS1155**	T15
left hand									
1094720	**A10SSVQBL2**	.625	.850	.500	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094722	**A12SSVQBL2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094724	**A16TSVQBL3**	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	**MS1155**	T15

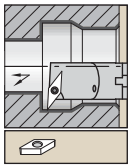


Necked steel shank with through coolant.

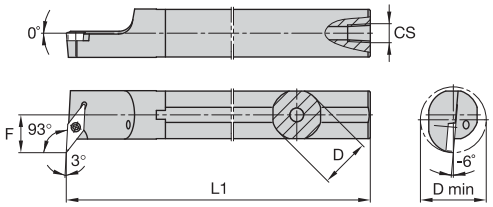


A-SVSP -10°

order number	catalog number	D	D min	F	L1	L4	CS	gage insert	insert screw	Torx
1106715	**A2732SVSPRW4**	2.000	2.200	1.080	14.00	5.31	1/4-18 NPT	VP..443K	**S411**	5/32



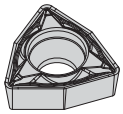
Steel shank with through coolant.

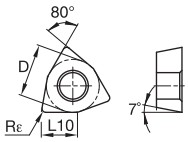


A-SVUB -3°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094699	**A12SSVUBR2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094701	**A16TSVUBR3**	1.000	1.300	.750	12.00	1/4-18 NPT	VBMT332	**MS1155**	T15
left hand									
1094700	**A12SSVUBL2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094702	**A16TSVUBL3**	1.000	1.300	.750	12.00	1/4-18 NPT	VBMT332	**MS1155**	T15

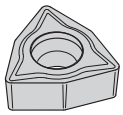
● first choice
○ alternate choice

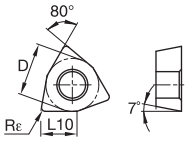




WCMT-FP

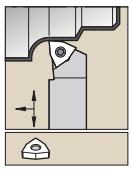
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
WCMT040204FP	WCMT2151FP	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
WCMT06T308FP	WCMT3252FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

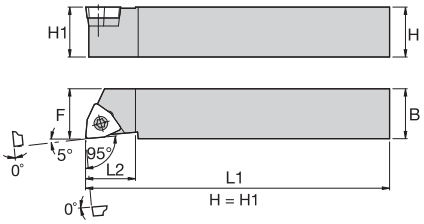




WCMT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
WCMT040204LF	WCMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WCMT06T308LF	WCMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

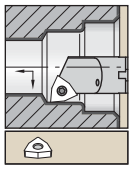




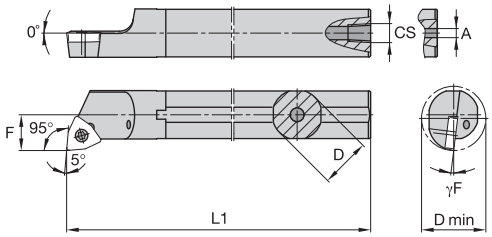
SWLC-F -5°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1772144	**SWLCRF082D**	.50	.50	.500	6.00	.50	WC..2151	**MS1153**	T7

Screw-On Boring Bars



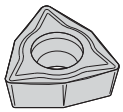
Steel shank with through coolant.

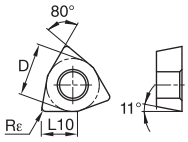


A-SWLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328642	**A06MSWLCR2**	.375	.480	.250	6.00	.13	—	-8.0	WC..2151	**MS1939**	T7
1328644	**A08RSWLCR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-6.0	WC..2151	**MS1153**	T7
1328646	**A10SSWLCR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-7.0	WC..3252	**MS1155**	T15

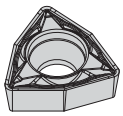
● first choice
○ alternate choice

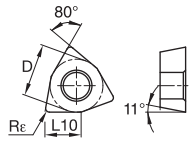




WPGT-UF

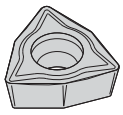
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPGTS30101UF	WPGT1510UF	4,76	3/16	3,26	.128	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGTS30102UF	WPGT15105UF	4,76	3/16	3,26	.128	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGT040202UF	WPGT21505UF	6,35	1/4	4,34	.171	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

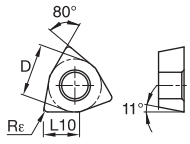




WPMT-FP

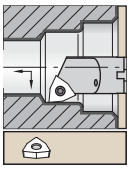
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104FP	WPMT15121FP	4,76	3/16	3,25	.128	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT040204FP	WPMT2151FP	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–
WPMT06T304FP	WPMT3251FP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T308FP	WPMT3252FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



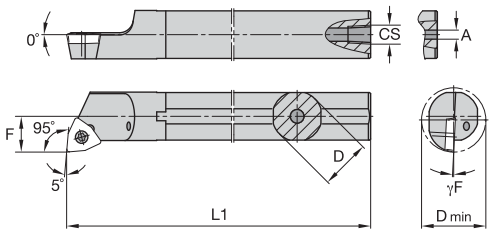


WPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104LF	WPMT15121LF	4,76	3/16	3,25	.128	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WPMT040204LF	WPMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
WPMT06T304LF	WPMT3251LF	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WPMT06T308LF	WPMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–

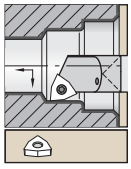


Steel shank with through coolant.

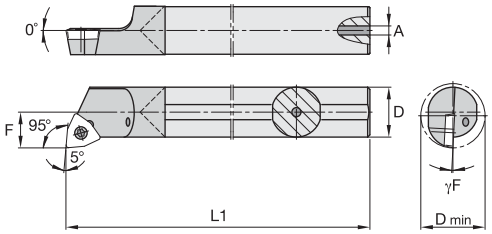


A-SWLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094709	**A06MSWLPR2**	.375	.490	.250	6.00	.13	—	-7.0	WP..2151	**MS1939**	T7
1094711	**A08RSWLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	WPMT2151	**MS1153**	T7
1094713	**A10SSWLPR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	WP..3252	**MS1155**	T15
1094715	**A12SSWLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	WP..3252	**MS1155**	T15
1094717	**A16SWLPR3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	WP..3252	**MS1155**	T15
left hand											
1094712	**A08RSWLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	WP..2151	**MS1153**	T7
1094714	**A10SSWLPL3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	WP..3252	**MS1155**	T15
1094716	**A12SSWLPL3**	.750	.930	.500	10.00	—	1/8-27 NPT	-2.0	WP..3252	**MS1155**	T15

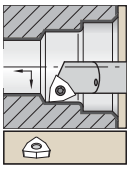


Carbide shank with through coolant.

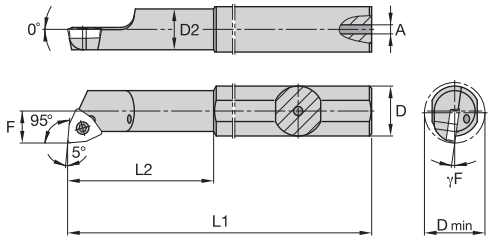


E-SWLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152750	**E03HSWLPR15**	.188	.260	.260	4.00	.04	-10.0	WP..15121	**MS1438**	T5
1152752	**E04HSWLPR15**	.250	.321	.156	4.00	.05	-8.0	WP..15121	**MS1438**	T5
1152754	**E05SWLPR15**	.313	.415	.219	5.00	.09	-4.0	WP..15121	**MS1438**	T5
1152756	**E06SWLPR2**	.375	.480	.250	6.00	.13	-4.0	WP..2151	**MS1153**	T7
1152758	**E08SWLPR2**	.500	.600	.312	8.00	.19	-2.0	WP..2151	**MS1153**	T7
1152760	**E10SWLPR3**	.625	.770	.406	10.00	.22	-3.0	WP..3252	**MS1155**	T15
1152762	**E12SWLPR3**	.750	.930	.500	10.00	.28	-2.0	WP..3252	**MS1155**	T15
1152764	**E16SWLPR3**	1.000	1.200	.640	12.00	.31	.0	WP..3252	**MS1155**	T15
left hand										
1152753	**E04HSWLPL15**	.250	.321	.156	4.00	.05	-8.0	WP..15121	**MS1438**	T5
1152755	**E05SWLPL15**	.313	.415	.219	5.00	.09	-4.0	WP..15121	**MS1438**	T5
1152757	**E06SWLPL2**	.375	.480	.250	6.00	.13	-4.0	WP..2151	**MS1153**	T7
1152759	**E08SWLPL2**	.500	.600	.312	8.00	.19	-2.0	WP..2151	**MS1153**	T7
1152761	**E10SWLPL3**	.625	.770	.406	10.00	.22	-3.0	WP..3252	**MS1155**	T15

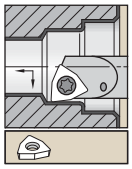


Necked steel shank with through coolant.

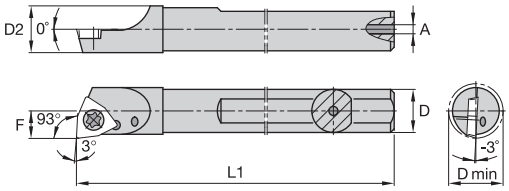


A-SWLP -5° • Stepped

order number	catalog number	D	D min	D2	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand												
1094703	**A0306SWLPR15**	.375	.260	.250	.126	3.50	1.00	.08	-10.0	WP..15121	**MS1438**	T5
1094705	**A0406SWLPR15**	.375	.321	—	.156	4.00	1.25	.08	-8.0	WP..15121	**MS1438**	T5
1094707	**A0506KSWLPR15**	.375	.415	—	.214	5.00	1.61	.09	-4.0	WP..15121	**MS1438**	T5
left hand												
1094704	**A0306SWLPL15**	.375	.260	.250	.126	3.50	1.00	.08	-10.0	WP..15121	**MS1438**	T5

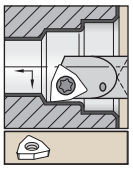


Steel shank with through coolant.

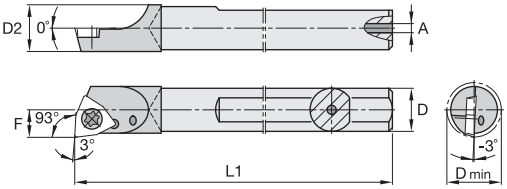


A-SWUP -3°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1950374	**A04HSWUPR15**	.250	.285	.260	.112	4.00	.04	WP..1511	**CT11**	T6
1950376	**A05HSWUPR15**	.313	.347	.322	.174	4.00	.04	WP..1511	**CT15**	T6



Carbide shank with through coolant.



E-SWUP -3°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1950378	**E03MSWUPR15**	.188	.260	.236	.126	6.00	.04	WP..1511	**CT11**	T6
1950380	**E04MSWUPR15**	.250	.285	—	.143	6.00	.05	WP..1511	**CT11**	T6
1950382	**E05MSWUPR15**	.312	.347	—	.174	6.00	.09	WP..1511	**CT15**	T6
1950388	**E06MSWUPR2**	.375	.413	—	.211	6.00	.13	WPMT21505	**MS1153**	T7
1950390	**E08RSWUPR2**	.500	.538	—	.273	8.00	.19	WP..2151	**QTM20**	T7

Beyond™ PVD Grades

Beyond™ advanced PVD coatings are well suited to resist high temperatures associated with machining tough alloys. These coatings offer increased tool life and a boost in productivity to the general engineering, transportation, aerospace, energy, and earthworks markets. Use the strength of Beyond PVD coatings and the broad product offering to perform turning, grooving, and cut-off operations in a wide array of materials and applications. Beyond PVD coatings help to maintain consistent chip control and minimize insert edge wear.

beyond™

KCU10™ Grade

- PVD-coated grade with excellent wear resistance. Finishing to medium applications.
- Use in all materials, especially stainless steels and high-temp alloys.

KCU25™ Grade

- PVD-coated grade with superior edge toughness and excellent wear resistance. Medium to roughing applications.
- Use in all materials.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

KENNAMETAL®

kennametal.com

Turning with Advanced Material Inserts

Ceramic, PcBN, and PCD Inserts

Turning inserts made from advanced materials, such as ceramics, PcBN (polycrystalline cubic boron nitride), and PCD (polycrystalline diamond), can be applied in hard-part turning and machining of cast irons, hardened materials, high-temp alloys, and non-ferrous materials.

Ceramic, PcBN, and PCD inserts offer:
- Improved performance.
- Greater wear resistance.

Ceramic Inserts

- Silicon-nitride based ceramic for cast iron machining.
- Mixed ceramic for hard machining and finishing of cast iron.
- Whisker ceramic for high-temp alloys and hard machining.

KYK25

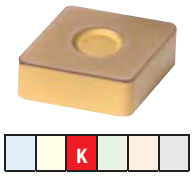
KYS30™

PcBN

Solid Inserts

- Inserts are made only from PcBN.
- No material joint.
- Best heat-absorption capacity.
- Can work at highest temperatures.

KBK45



Tipped Inserts

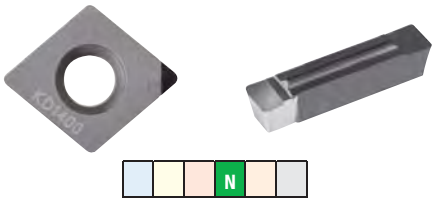
- Require a carrier and a PcBN tip.
- The tips are brazed to a carrier.
- The substrate has to have a pocket that will accommodate and support the tip.

KBH20™

PCD

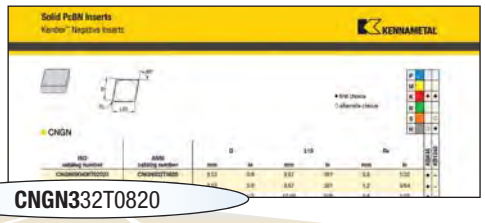
- Targeted machining of non-ferrous materials.
- Significant advantage in hardness over carbide tools.
- Increased productivity through higher speeds and longer tool life.
- Best used in processing materials that are un-machinable with conventional tooling.

KD1400



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

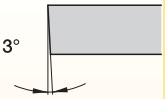
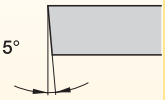
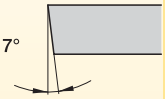
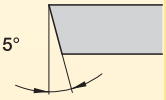
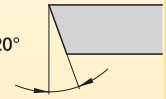
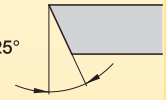
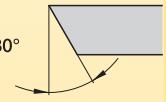
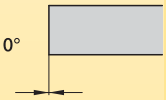
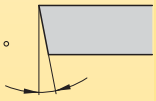


CNGN32T0820

C — Insert Shape

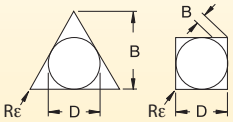
H	Hexagon 120°	
O	Octagon 135°	
P	Pentagon 108°	
R	Round —	
S	Square 90°	
T	Triangular 60°	
C D E M V	Rhomboid 80° 55° 75° 86° 35°	
W	Trigon 80° with enlarged corner angles	
L	Rectangular 90°	
A B N/K	Parallelogram 85° 82° 55°	

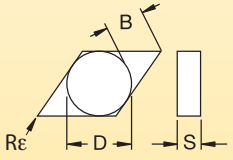
N — Insert Clearance Angle

A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	For other clearance angles requiring descriptions.	

G — Tolerance Class

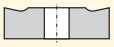
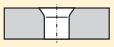
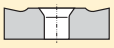
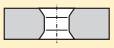
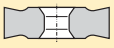
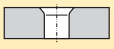
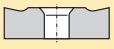
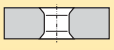
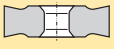
Tolerances apply prior to edge prep and coating





D = Theoretical diameter of the insert inscribed circle
S = Thickness
B = See figures below

N — Insert Features

N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X V	Special Design

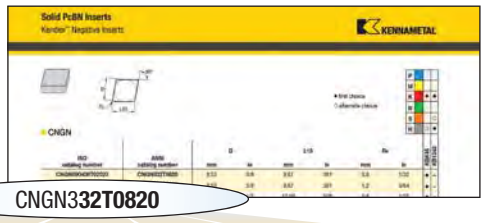
3 — Size

"D" inch	"D" inch	Code for inch cutting edge length "L10" C	D	R	S	T	V	W
1.2 (5)	5/32	S4	04	03	03	06	—	—
1.5 (6)	3/16	04	05	04	04	08	08	S3
1.8 (7)	7/32	05	06	05	05	09	09	03
—	.236	—	—	06	—	—	—	—
2	1/4	06	07	06	06	11	11	04
2.5	5/16	08	09	07	07	13	13	05
—	.315	—	—	08	—	—	—	—
3	3/8	09	11	09	09	16	16	06
—	.394	—	—	10	—	—	—	—
3.5	7/16	11	13	11	11	19	19	07
—	.472	—	—	12	—	—	—	—
4	1/2	12	15	12	12	22	22	08
4.5	9/16	14	17	14	14	24	24	09
5	5/8	16	19	15	15	27	27	10
—	.630	—	—	16	—	—	—	—
5.5	11/16	17	21	17	17	30	30	11
6	3/4	19	23	19	19	33	33	13
—	.787	—	—	20	—	—	—	—
7	7/8	22	27	22	22	38	38	15
—	.984	—	—	25	—	—	—	—
8	1	25	31	25	25	44	44	17
10	1-1/4	32	38	31	31	54	54	21
—	1.260	—	—	32	—	—	—	—

tolerance class*	tolerance on "D"	tolerance on "B"	tolerance on "S"
C	±.0010"	±.0005"	±.001"
H	±.0005"	±.0005"	±.001"
E	±.0010"	±.0010"	±.001"
G	±.0010"	±.0010"	±.005"
M	See tables on next page		±.005"
U	See tables on next page		±.005"

*Tolerances apply prior to edge prep and coating.

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



CNGN3**32T0820**

3	2		T	08	20		
Thickness "S"	Corner Radius "Rε"	Hand of Insert *(optional)*	Cutting Edge *(optional)*	T-Land Width *(optional)*	T-Land Angle *(optional)*	Tip Style *(optional)*	Chipbreaker *(optional)*

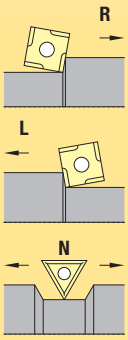
symbol inch	thickness inch
.5 (1)	1/32
.6	.040
1 (2)	1/16
1.2	5.64
1.5 (3)	3/32
2	1/8
2.5	5/32
3	3/16
3.5	7/32
4	1/4
5	5/16
6	3/8
7	7/16
8	1/2

symbol inch	corner radius inch
X0	.0015
0	.004
.5	.008
1	1/64
2	1/32
3	3/64
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
—	round insert
—	

R = Right hand

L = Left hand

N = Neutral



F* Sharp

E Rounded

T* Chamfered

S* Chamfered and Rounded

K Double-Chamfered

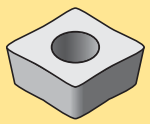
P Double-Chamfered and Rounded

*Also available in wiper style.

symbol ANSI	inch size
04	.004
08	.008

symbol	size
10	10°
15	15°
20	20°
25	25°
30	30°

symbol	usage
C	full top
M	mini tip
MT	multi-tip
ST	single tip



FW = Finishing Wiper

MW = Medium Wiper

"D" inch	± Tolerance on "D" Class M Tolerance Shapes S, T, C, R, & W inch	Shape D inch	Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.002	–	–	–
3/16	.002	–	–	.003
7/32	.002	.002	.002	.003
1/4	.002	.002	.002	.003
5/16	.002	.002	.002	.003
3/8	.002	.002	.002	.003
7/16	.003	.003	.003	.005
1/2	.003	.003	.003	.005
9/16	.003	.003	.003	.005
5/8	.004	.004	.004	.007
11/16	.004	.004	.004	.007
3/4	.004	.004	.004	.007
7/8	.005	–	–	.010
1	.005	–	–	.010
1 1/4	.006	–	–	.010

"D" inch	± Tolerance on "B" Class M Tolerance Shapes S, T, C, R, & W inch	Shape D inch	Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.003	–	–	–
3/16	.003	–	–	.005
7/32	.003	.004	–	.005
1/4	.003	.004	–	.005
5/16	.003	.004	–	.005
3/8	.003	.004	.007	.005
7/16	.005	.006	–	–
1/2	.005	.006	.010	.008
9/16	.005	.006	–	–
5/8	.006	.007	–	.011
11/16	.006	.007	–	.011
3/4	.006	.007	–	.011
7/8	.006	–	–	.015
1	.007	–	–	.015
1 1/4	.008	–	–	.015

Advanced Materials for Cast Iron Machining

Primary Application

The Kennametal advanced materials, utilizing Beyond™ technology, offer greater wear resistance and toughness, depending on the job.

KYK ceramic inserts are the first choice for high-speed, continuous, and lightly interrupted turning applications in cast iron materials. Benefits include improved fracture toughness, better wear resistance, and an extended application range. Combining grades KYK10™ and CVD-coated KYK25™ with our other ceramic grades for cast iron, Kennametal provides a complete high-performance ceramic portfolio that can reduce machining cycle times and lower manufacturing costs.

The Kennametal SiAlON grades, such as KYK10, can be applied at high cutting speeds up to the PcBN range and at varying cast iron material machinability. Combining SiAlON material science, CVD coating technology, and PcBN grades for cast iron machining, Kennametal provides a complete high-performance portfolio that can reduce cycle time and lower machining costs.

Features and Benefits

Solid PcBN Inserts

KBK45™ Grade

- Designed for elevated abrasion-resistance.
- Go-to grade for cost-per-part manufacturing.
- For roughing and finishing.
- Gold color for improved usage monitoring.

KB1340™ Grade

- Designed for elevated abrasion-resistance.
- High-temperature resistance.
- For roughing and finishing.

Tipped PcBN Inserts

KB5630™ Grade

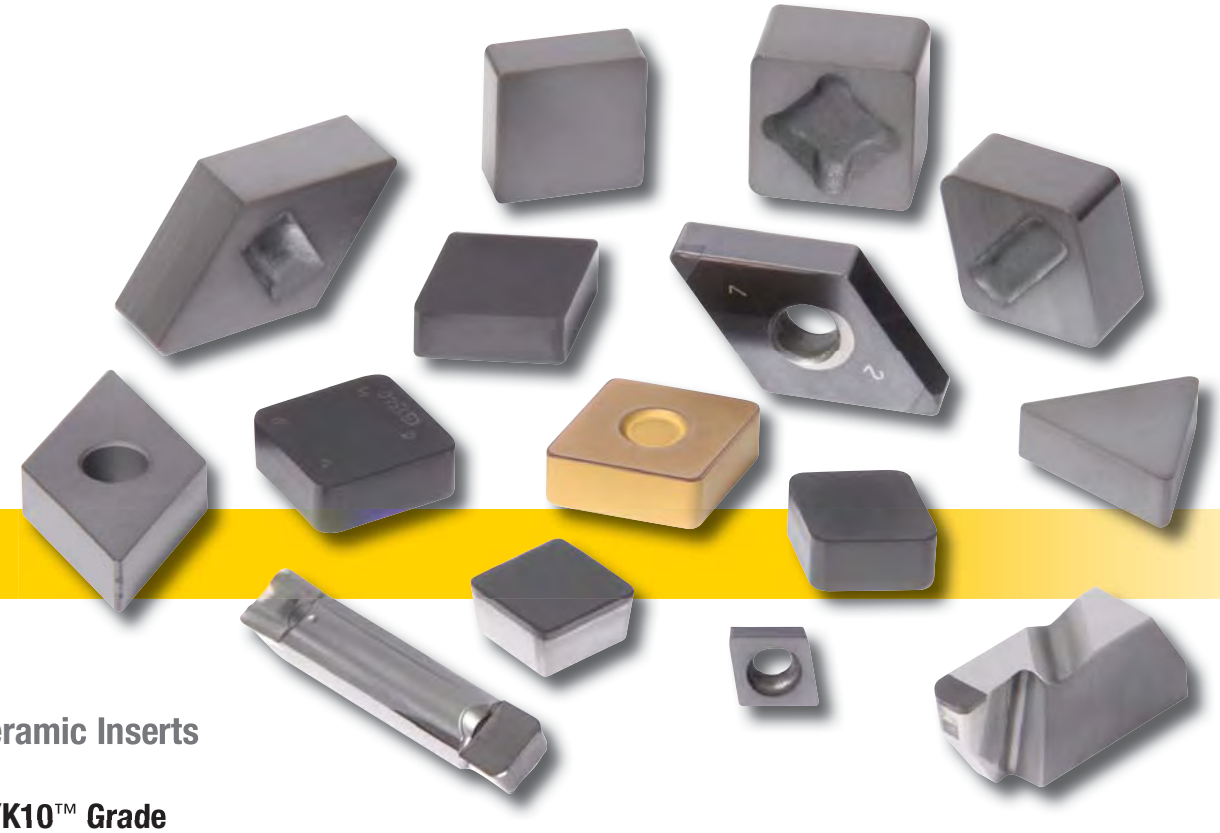
- Laminated material for fine finishing.
- Excellent edge stability.
- PVD coating for reliable tool life, even at varying material machinability.

KB1345™ Grade

- Abrasion-resistant high CBN content tipped grade.
- Very fine PcBN structure suitable for fine finishing applications.

KBK45™ grade provides the best cost-per-part in cast irons.

KB5630™ grade has greater abrasion resistance for chilled and hardened irons.



Ceramic Inserts

KYK10™ Grade

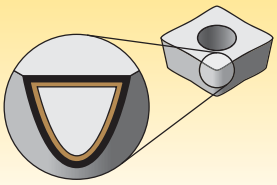
- Improved wear resistance and toughness with up to 20% longer tool life than current KY1310™ grade.
- Best suited for continuous turning of cast iron materials and in lightly interrupted cuts.

KYK25™ Grade

- 12-micron thick coating provides excellent wear resistance, and pre-coat treatment allows for very consistent tool life and performance in cast iron applications.
- Up to 30% longer tool life vs. competitors' CVD-coated ceramic grades.

KY3500™ Grade

- Excellent for roughing to finishing operations in wet or dry cuts with speeds up to 320 SFM (1000 m/min).
- Performs well in difficult interrupted cuts in ductile or malleable cast iron (<70 KSI tensile strength) at speeds of 85–160 SFM (250–450 m/min).



Coatings provide high-speed capability and are engineered for finishing to light roughing.

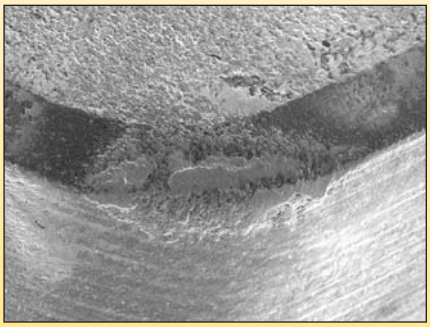
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

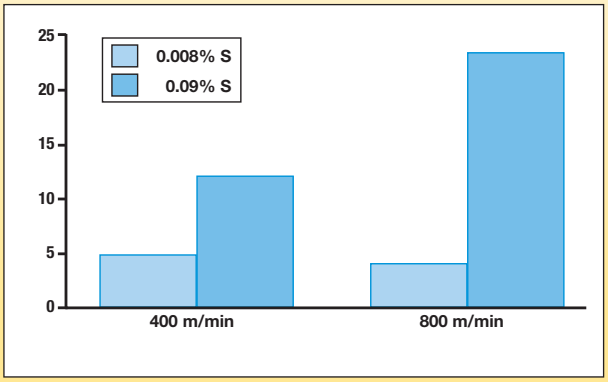
	Coating	Grade Description		05	10	15	20	25	30	35	40	45
Solid PcBN Grades	KBK45	**Composition:** A PVD TiN coated high CBN content, solid PcBN insert having multiple cutting edges. **Application:** Applied in roughing to finishing of gray and hard cast irons. Also used for finishing chilled cast iron and fully pearlitic cast iron. The solid PcBN insert offers better security and shock resistance compared to tipped PcBN inserts, while also enabling deeper depth-of-cut capabilities. beyond	K			■	■	■	■	■	■	
	KB1340	**Composition:** A high CBN content, solid PcBN insert having multiple cutting edges. **Application:** Applied in roughing to finishing of fully pearlitic gray cast iron, chilled irons, high-chrome alloyed steels, and heavy cuts in hardened steels (>45 HRC). The solid PcBN insert offers better security and shock resistance compared to tipped PcBN inserts, while also enabling deeper depth-of-cut capabilities.	K		■	■	■	■	■			
Tipped PcBN Grades	KB1345	**Composition:** A high CBN content, PcBN tip brazed onto a carbide insert. **Application:** Applied in roughing to finishing of fully pearlitic gray cast iron, chilled irons, high-chrome alloyed steels, sintered powdered metals, and heavy cuts in hardened steels (>45 HRC). Also used for finishing chilled cast iron and fully pearlitic cast iron. The tipped PcBN insert is available in a wide range of insert styles including positive rake geometries that are ideally suited for boring applications.	K				■	■	■	■	■	■
			H								■	
	KB5630	**Composition:** A high content PcBN with a PVD AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC), abrasive workpiece materials such as sintered valve seat materials, powder metallurgy steels, and hard high-alloy cast irons. The PVD coating provides resistance to crater wear and increased resistance to chipping. A wide range of styles are available, including Screw-On geometries that are ideal for boring applications.	K	■	■	■						
			S		■	■						
			H					■	■	■		
Ceramic Grades	KYK10	**Composition:** An advanced SiAlON ceramic grade. **Application:** Provides maximum wear resistance. Used for high-speed continuous turning of gray cast iron, including through scale. To be used for varying cast iron machinability. beyond	K	■	■	■						
	KYK25	**Composition:** Pure silicon nitride ceramic with an alumina CVD coating. **Application:** Excellent combination of toughness and edge wear resistance. Used for general purpose machining of gray, ductile, or nodular cast irons. To be used for varying cast iron machinability. beyond	K		■	■	■					
	KY3500	**Composition:** Pure silicon nitride grade. **Application:** Maximum toughness. Used at high feed rates for rough machining of gray cast iron, including machining through interruptions.	K		■	■	■	■	■			

Machinability of Cast Iron

- Unaged casting is difficult to machine and leads to shorter tool life.
- Low sulfur content leads to shorter tool life.
- High titanium content decreases the tool life significantly.
- Increased ferrite content leads to high chemical wear and a substantially shorter tool life.
- Compacted graphite cast iron shows high chemical wear.



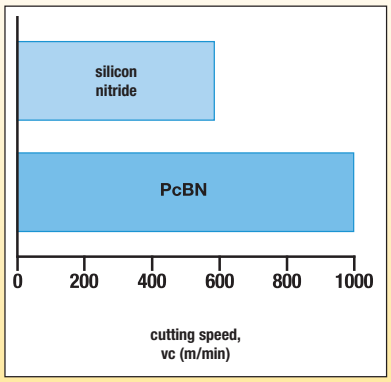
Proper application of KB1340™ — formation of protective layer; tool life should exceed 70 km sliding distance.



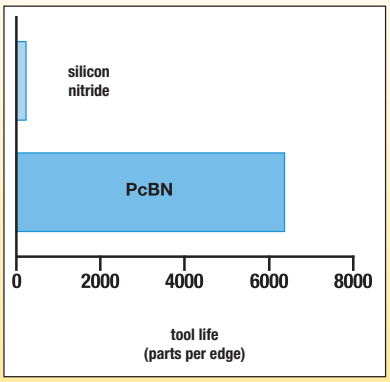
Comparison of the life of PcBN cutting tools in machining two different gray cast irons, primarily differing in sulfur content.

Gray Cast Iron Brake Disk Machining • Ceramic vs. PcBN

(a)



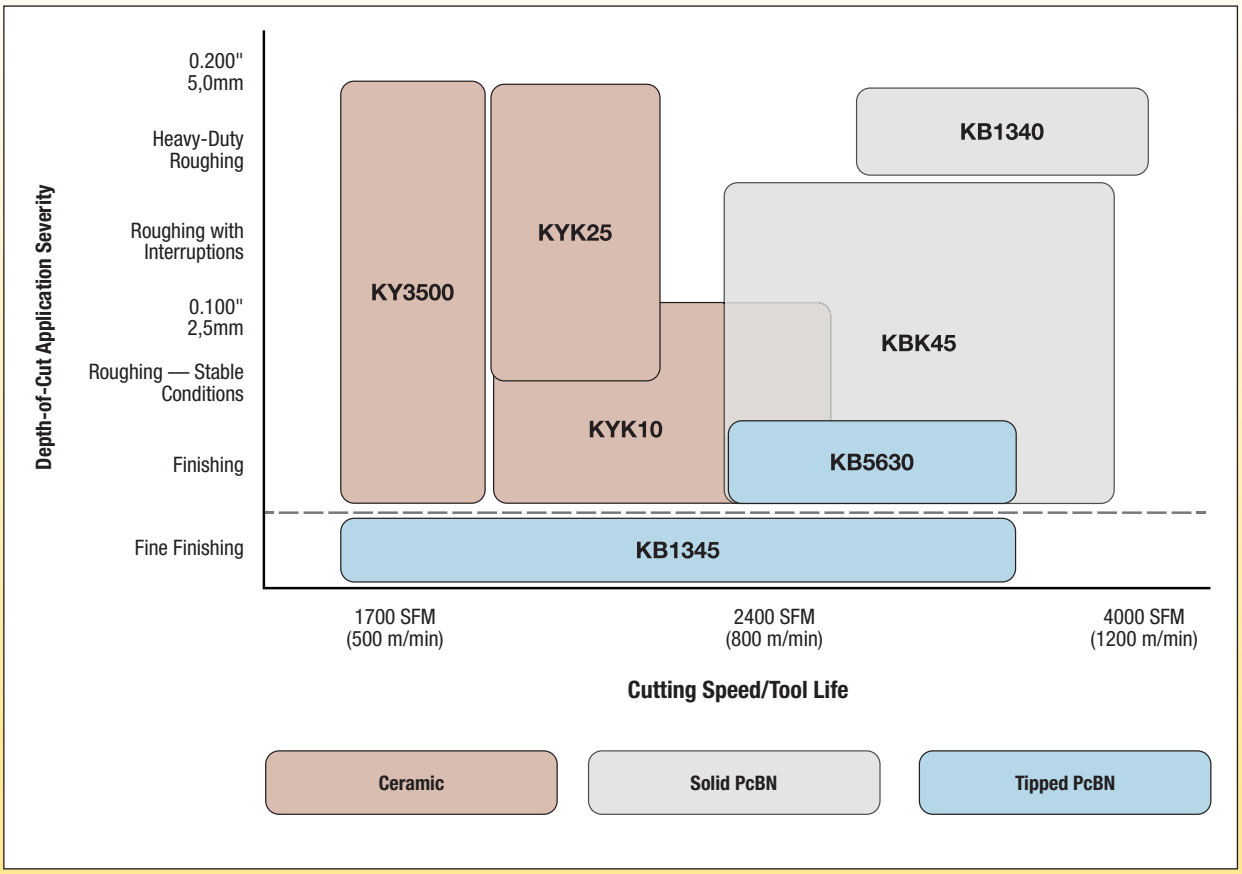
(b)



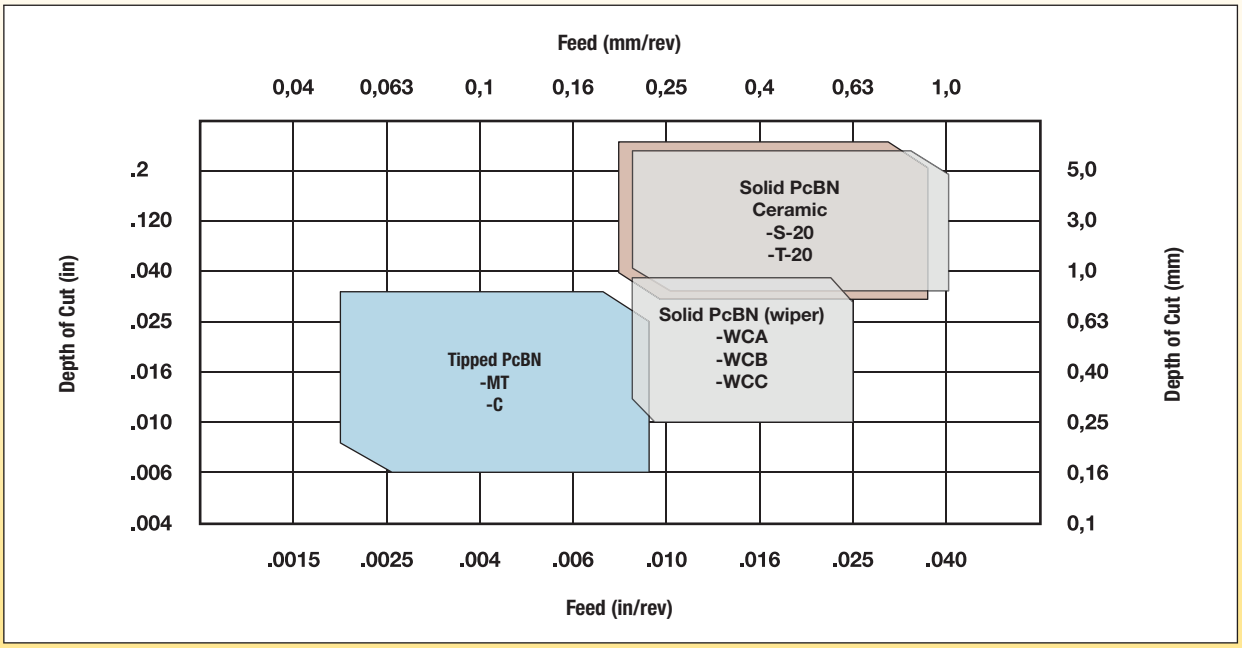
(c)

PcBN increases productivity when machining gray iron brake disks (a) in terms of cutting speed (b) and tool life (c) compared to silicon nitride ceramic.

Select the Cutting Material



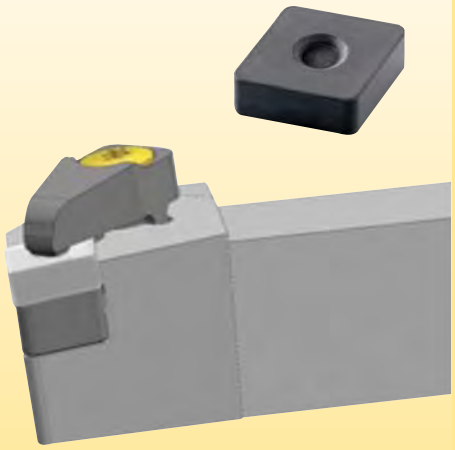
Depth of Cut



Dimple Clamps for Added Stability

Typical Application

Continuous cost pressures force manufacturers of gray cast iron brake disks to look for cost-cutting solutions. CBN inserts deliver high productivity and long tool life. Kennametal has developed the solid, high-content grade KB1340™, which provides superior performance when machining gray cast iron components, such as brake disks or fly wheels. To ensure secure seating in the toolholder, the inserts are available with dimple-design clamping. The clamps fit Ceramtec holders, which makes the conversion to Kennametal tooling easier.



Higher Productivity and Profitability

- Ensures tight and rigid clamping.
- Dimpled insert with special clamping provides increased stability in the pocket.
- Ideal for use in heavy-duty machining applications.
- Cladded clamps for improved resistance against chip wash are available upon request.
- The shallow dimple design enables the use of less expensive 3/16" (4,76mm) inserts.
- Round dimple design works with custom tooling where clamping direction must be offset due to space limitations.

Clamp Selection Chart

insert		clamp	
ANSI Catalog Number	ISO Catalog Number	Catalog Number	Order Number
CNGX433S0415	CNGX120412S01015	551.718–100° Corner	3968904
CNGX433S0415FW	CNGX120412S01015FW	551.718–100° Corner	3968904
CNGX434S0820	CNGX120416S02020	551.718–100° Corner	3968904
CNGF432	CNGF120408	551.718–100° Corner	3968904
DNGX434S0820	DNGX150416S02020	551.720	4094234
SNGX434S0820	SNGX120416S02020	551.718	3968904
SNGX534S0820	SNGX150416S02020	551.718	3968904
VNGX333S0820	VNGX160412S02020	551.721	4094236
TNGX333EFW	TNGX160412EFW	551.733	4094235

Wipers for Cast Iron Machining

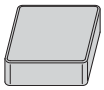
WCA
Wiper for cast iron machining for a feed rate up to f = 0.010/rev (0,25mm/rev).

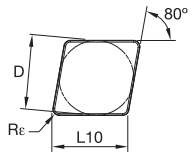
WCB
Wiper for cast iron machining for a feed rate up to f = 0.018/rev (0,45mm/rev).

WCC
Wiper for cast iron machining for a feed rate up to f = 0.025/rev (0,65mm/rev).

● first choice
○ alternate choice

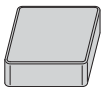
P			
M			
K		●	●
N			
S			○
H		○	●

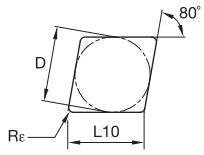




CNGN

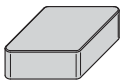
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGN090408T02020	CNGN332T0820	9,53	3/8	9,67	.381	0,8	1/32	●	–
CNGN090412S02020	CNGN333S0820	9,53	3/8	9,67	.381	1,2	3/64	●	–
CNGN120408T02020	CNGN432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGN120412S02020	CNGN433S0820	12,70	1/2	12,90	.508	1,2	3/64	●	–
CNGN120416S02020	CNGN434S0820	12,70	1/2	12,90	.508	1,6	1/16	●	–

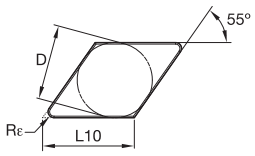




CNMN/CNM

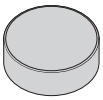
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNMN120408S02020	CNM432S0820	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNMN120412S02020	CNM433S0820	12,70	1/2	12,90	.508	1,2	3/64	–	●

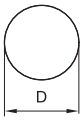




DNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
DNGN120408S02020	DNGN120408S02020	10,00	.394	12,21	.481	0,8	1/32	●	–
DNGN120412S02020	DNGN120412S02020	10,00	.394	12,21	.481	1,2	3/64	●	–



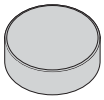


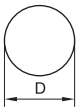
RNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNGN090400S02020	RNGN33S0820	9,53	3/8	–	–	–	–	●	–
RNGN120400S02020	RNGN43S0820	12,70	1/2	–	–	–	–	●	–

● first choice
○ alternate choice

P			
M			
K	●	●	
N			
S			○
H	○	●	





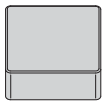
RNMN/RNM

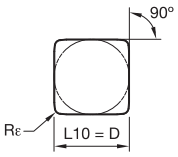
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNMN090300S02020	RNM32S0820	9,53	3/8	–	–	–	–	–	●
RNMN120300S02020	RNM42S0820	12,70	1/2	–	–	–	–	–	●
RNMN120400S02020	RNM43S0820	12,70	1/2	–	–	–	–	–	●

Kendex™ Positive Inserts

● first choice
○ alternate choice

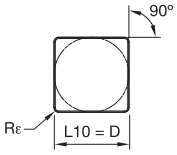
P			
M			
K	●	●	
N			
S			○
H	○	●	



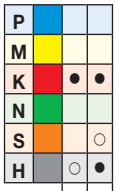


SNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN120408T02020	SNGN432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–
SNGN120412S02020	SNGN433S0820	12,70	1/2	12,70	.500	1,2	3/64	●	–
SNGN120416S02020	SNGN434S0820	12,70	1/2	12,70	.500	1,6	1/16	●	–

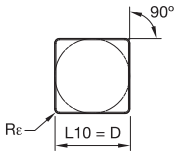


● first choice
○ alternate choice



SNGN-WCB

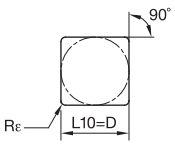
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN090408S01015WCB	SNGN332S0415WCB	9,53	3/8	9,52	.375	0,8	1/32	●	–



SNGN-WCC

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN090408S01015WCC	SNGN332S0415WCC	9,53	3/8	9,53	.375	0,8	1/32	●	–

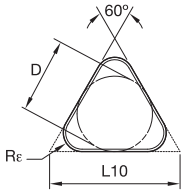
Kendex™ Negative Inserts



● first choice
○ alternate choice

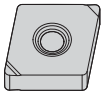
SNMN/SNM

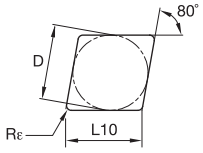
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNMN090308S02020	SNM322S0820	9,53	3/8	9,53	.375	0,8	1/32	–	●
SNMN090316S02020	SNM324S0820	9,53	3/8	9,53	.375	1,6	1/16	–	●
SNMN120316S02020	SNM424S0820	12,70	1/2	12,70	.500	1,6	1/16	–	●
SNMN120416T02020	SNM434S0820	12,70	1/2	12,70	.500	1,6	1/16	–	●



TNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
TNGN110416S02020	TNGN234S0820	6,35	1/4	11,00	.433	1,6	1/16	●	–
TNGN160416S02020	TNGN334S0820	9,53	3/8	16,50	.650	1,6	1/16	●	–



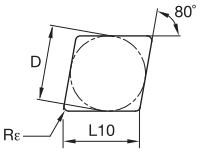


● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

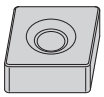
CNGF

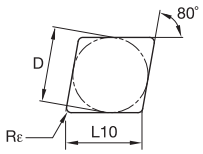
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGF120408	CNGF432	12,70	1/2	12,90	.508	0,8	1/32	–	●



CNGX

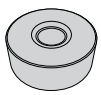
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGX120408T02020	CNGX432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGX120412S01015	CNGX433S0415	12,70	1/2	12,90	.508	1,2	3/64	–	●
CNGX120412S02020	CNGX433S0820	12,70	1/2	12,90	.508	1,2	3/64	●	–
CNGX120416S02020	CNGX434S0820	12,70	1/2	12,90	.508	1,6	1/16	●	●

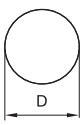




CNGX-FW

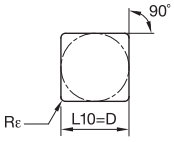
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGX120412S01015FW	CNGX433S0415FW	12,70	1/2	12,90	.508	1,2	3/64	–	●





RNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNGX120400S02020	RNGX43S0820	12,70	1/2	—	—	—	—	●	–

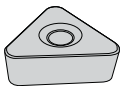


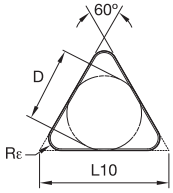
● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGX120408T02020	SNGX432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–
SNGX120412S02020	SNGX433S0820	12,70	1/2	12,70	.500	1,2	3/64	●	–
SNGX120416S02020	SNGX434S0820	12,70	1/2	12,70	.500	1,6	1/16	●	●





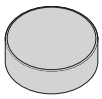
TNGX

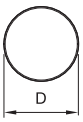
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
TNGX160416S02020	TNGX334S0820	9,53	3/8	16,50	.650	1,6	1/16	●	–

Kendex Positive Inserts

● first choice
○ alternate choice

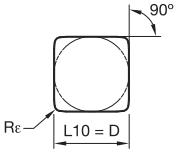
P		
M		
K	●	●
N		
S		○
H	○	●





RCGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RCGN090400T01015	RCGN33T0415	9,53	3/8	–	–	–	–	●	–

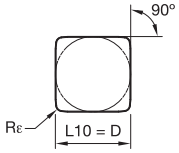


● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

SCGN-WCB

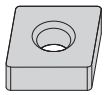
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SCGN090408S01015WCB	**SCGN332S0415WCB**	9,53	3/8	9,52	.375	0,8	1/32	●	–

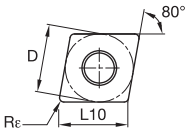


SCGN-WCC

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SCGN090408S01015WCC	**SCGN332S0415WCC**	9,53	3/8	9,52	.375	0,8	1/32	●	–

Kenloc™ Inserts





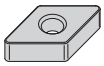
● first choice
○ alternate choice

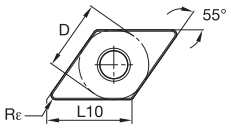
P		
M		
K	●	●
N		
S		○
H	○	●

CNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNMA120408S02020	**CNMA432S0820**	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNMA120412S02020	**CNMA433S0820**	12,70	1/2	12,90	.508	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.

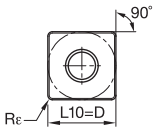




DNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
DNMA110408S02020	**DNMA332S0820**	9,53	3/8	11,63	.458	0,8	1/32	–	●
DNMA110412S02020	**DNMA333S0820**	9,53	3/8	11,63	.458	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.



● first choice
○ alternate choice

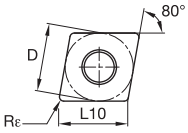
P	M	K	N	S	H
		●		○	○
		●			●

SNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNMA120412S02020	SNMA433S0820	12,70	1/2	12,70	.500	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.

Advanced Material Inserts • Hard Turning Materials



● first choice
○ alternate choice

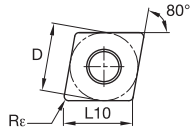
P	M	K	N	S	H
		●		○	●
		●		●	●

CNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CNGA120404S01025FWMT	CNGA431S0425FWMT	12,70	1/2	12,90	.508	0,4	1/64	–	●
CNGA120408S01025FWMT	CNGA432S0425FWMT	12,70	1/2	12,90	.508	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

Tipped PcBN Inserts • Kenloc™ Inserts



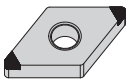
● first choice
○ alternate choice

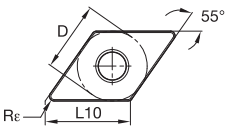
P	M	K	N	S	H
		●		○	●
		●			●

CNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CNGA120404S01025MT	CNGA431S0425MT	12,70	1/2	12,90	.508	0,4	1/64	–	●
CNGA120408S01020MT	CNGA432S0420MT	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGA120408S01025MT	CNGA432S0425MT	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNGA120408S02020MT	CNGA432S0820MT	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGA120412S01020MT	CNGA433S0420MT	12,70	1/2	12,90	.508	1,2	3/64	–	●
CNGA120412S01025MT	CNGA433S0425MT	12,70	1/2	12,90	.508	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

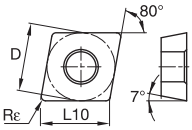




DNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DNGA150404S01025MT	DNGA431S0425MT	12,70	1/2	15,50	.610	0,4	1/64	–	●
DNGA150408S01020MT	DNGA432S0420MT	12,70	1/2	15,50	.610	0,8	1/32	●	–
DNGA150408S01025MT	DNGA432S0425MT	12,70	1/2	15,50	.610	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.



● first choice
○ alternate choice

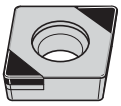
P			
M			
K	●	●	
N			
S	○	●	
H	●	●	

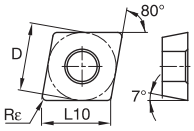
CCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CCGW060202S01015C	CCGW21505S0415C	6,35	1/4	6,45	.254	0,2	.008	–	●
CCGW060204S01015C	CCGW2151S0415C	6,35	1/4	6,45	.254	0,4	1/64	–	●
CCGW09T308EC	CCGW3252EC	9,53	3/8	9,67	.381	0,8	1/32	●	–

NOTE: For toolholders and boring bars, see pages B193–B198.

Kenloc™ Inserts





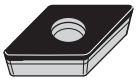
● first choice
○ alternate choice

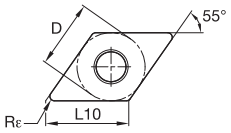
P			
M			
K	●	●	
N			
S	○	●	
H	●	●	

CCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CCGW09T304S01015MT	CCGW3251S0415MT	9,53	3/8	9,67	.381	0,4	1/64	–	●
CCGW09T308S01015MT	CCGW3252S0415MT	9,53	3/8	9,67	.381	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B193–B198.





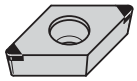
DCGW-C

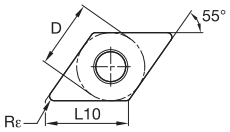
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DCGW070202S01015C	DCGW21505S0415C	6,35	1/4	7,75	.305	0,2	.008	–	●
DCGW070204S01015C	DCGW2151S0415C	6,35	1/4	7,75	.305	0,4	1/64	–	●

NOTE: For toolholders and boring bars, see pages B227–B230.

● first choice
○ alternate choice

P		
M		
K	●	●
N		
S	○	●
H	●	●

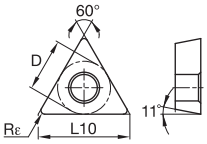




DCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DCGW11T304S01015MT	**DCGW3251S0415MT**	9,53	3/8	11,63	.458	0,4	1/64	●	●
DCGW11T308S01015MT	**DCGW3252S0415MT**	9,53	3/8	11,63	.458	0,8	1/32	●	●

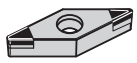
NOTE: For toolholders and boring bars, see pages B227–B230.

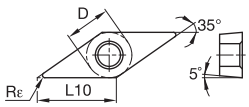


TPGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
TPGW110204EC	**TPGW2151EC**	6,35	1/4	11,00	.433	0,4	1/64	●	–
TPGW110208S01015C	**TPGW2152S0415C**	6,35	1/4	11,00	.433	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B270–B279.





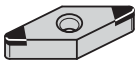
VBGW-MT

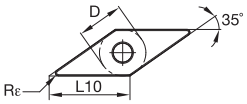
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
VBGW160404S01015MT	**VBGW331S0415MT**	9,53	3/8	16,61	.654	0,4	1/64	–	●
VBGW160408S01015MT	**VBGW332S0415MT**	9,53	3/8	16,61	.654	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

● first choice
○ alternate choice

P			
M			
K		●	●
N			
S		○	●
H		●	●





VNGA-MT

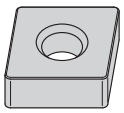
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
VNGA160404S01025MT	VNGA331S0425MT	9,53	3/8	16,61	.654	0,4	1/64	–	●
VNGA160408S01025MT	VNGA332S0425MT	9,53	3/8	16,61	.654	0,8	1/32	–	●

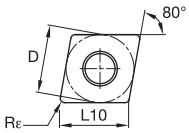
NOTE: For toolholders and boring bars, see pages B282–B285.

ISO/ANSI Ceramic Inserts

● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

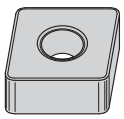


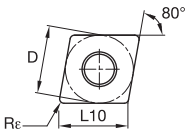


CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGA120408T02020	CNGA432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	●	●
CNGA120412T02020	CNGA433T0820	12,70	1/2	12,90	.508	1,2	3/64	●	●	●
CNGA120416T02020	CNGA434T0820	12,70	1/2	12,90	.508	1,6	1/16	●	●	●
CNGA160612T02020	CNGA543T0820	15,88	5/8	16,12	.635	1,2	3/64	●	–	●
CNGA160616T02020	CNGA544T0820	15,88	5/8	16,12	.635	1,6	1/16	–	–	●
CNGA190612T02020	CNGA643T0820	19,05	3/4	19,34	.762	1,2	3/64	–	–	●
CNGA190616T02020	CNGA644T0820	19,05	3/4	19,34	.762	1,6	1/16	●	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.





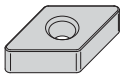
CNGA-FW

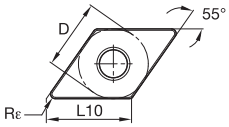
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGA120408T01020FW	CNGA432T0420FW	12,70	1/2	12,90	.508	0,8	1/32	●	–	●
CNGA120412T01020FW	CNGA433T0420FW	12,70	1/2	12,90	.508	1,2	3/64	●	●	●
CNGA120412T02020FW	CNGA433T0820FW	12,70	1/2	12,90	.508	1,2	3/64	–	●	–
CNGA120416T01020FW	CNGA434T0420FW	12,70	1/2	12,90	.508	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.

● first choice
○ alternate choice

P				
M				
K	●	●	●	
N				
S				
H				

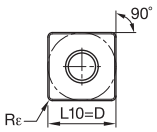




DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
DNGA150408T02020	DNGA432T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGA150412T02020	DNGA433T0820	12,70	1/2	15,50	.610	1,2	3/64	–	–	●
DNGA150416T02020	DNGA434T0820	12,70	1/2	15,50	.610	1,6	1/16	●	●	●
DNGA150608T02020	DNGA442T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGA150612T02020	DNGA443T0820	12,70	1/2	15,50	.610	1,2	3/64	–	–	●

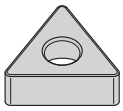
NOTE: For toolholders and boring bars, see pages B87–B96.

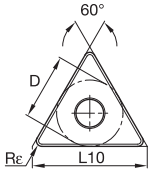


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGA120408T02020	SNGA432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	●	●
SNGA120412T02020	SNGA433T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	●
SNGA120416T02020	SNGA434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGA150612T02020	SNGA543T0820	15,88	5/8	15,88	.625	1,2	3/64	●	–	–
SNGA150612T02020	SNGA543T	15,88	5/8	15,88	.625	1,2	3/64	–	–	●
SNGA150616T02020	SNGA544T	15,88	5/8	15,88	.625	1,6	1/16	–	–	●
SNGA190612T02020	SNGA643T0820	19,05	3/4	19,05	.750	1,2	3/64	–	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.





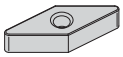
TNGA

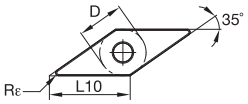
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TNGA160408T02020	TNGA332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	●	●
TNGA160412T02020	TNGA333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	●
TNGA160416T02020	TNGA334T0820	9,53	3/8	16,50	.650	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.

● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

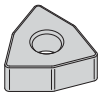


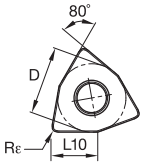


VNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
VNGA160408T02020	**VNGA332T0820**	9,53	3/8	16,61	.654	0,8	1/32	–	–	●
VNGA220408T02020	**VNGA432T0820**	12,70	1/2	22,14	.872	0,8	1/32	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.

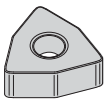


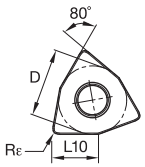


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGA080408T02020	**WNGA432T0820**	12,70	1/2	8,69	.342	0,8	1/32	●	–	●
WNGA080412T02020	**WNGA433T0820**	12,70	1/2	8,69	.342	1,2	3/64	●	–	●
WNGA080416T02020	**WNGA434T0820**	12,70	1/2	8,69	.342	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see page B163.





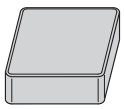
WNGA-FW

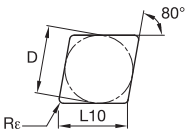
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGA080408T01020FW	**WNGA432T0420FW**	12,70	1/2	8,69	.342	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see page B163.

● first choice
○ alternate choice

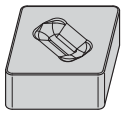
P			
M			
K	●	●	●
N			
S			
H			

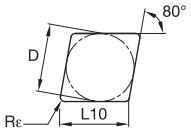




CNGN/CNG

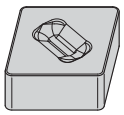
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGN120408T02020	CNG432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNGN120412T02020	CNG433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGN120416T02020	CNG434T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	●
CNGN120712T02020	CNG453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGN120716T02020	CNG454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	●	–

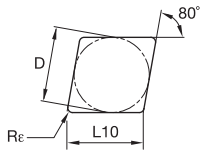




CNGX-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGX120708T01020FW	CNGX452T0420FW	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNGX120712T01020FW	CNGX453T0420FW	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGX120716T01020FW	CNGX454T0420FW	12,70	1/2	12,90	.508	1,6	1/16	–	–	●



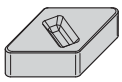


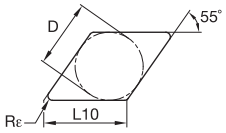
CNMX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNMX120708T02020	CNMX452T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNMX120712T02020	CNMX453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNMX120716T02020	CNMX454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	●

● first choice
○ alternate choice

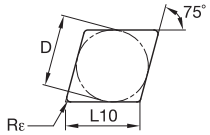
P				
M				
K	●	●	●	
N				
S				
H				





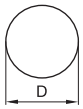
DNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
DNGX120708T02020	DNGX120708T02020	10,00	.3937	12,21	.481	0,8	1/32	–	–	●
DNGX120712T02020	DNGX120712T02020	10,00	.3937	12,21	.481	1,2	3/64	●	–	●
DNGX120716T02020	DNGX120716T02020	10,00	.3937	12,21	.481	1,6	1/16	–	–	●
DNGX150708T02020	DNGX452T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGX150712T02020	DNGX453T0820	12,70	1/2	15,50	.610	1,2	3/64	●	–	●
DNGX150716T02020	DNGX454T0820	12,70	1/2	15,50	.610	1,6	1/16	–	–	●



ENGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
ENGX130716T02020	ENGX454T0820	12,70	1/2	13,15	.518	1,6	1/16	–	–	●

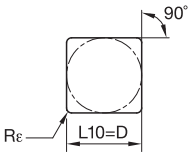


● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

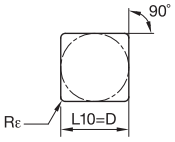
RNGN/RNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
RNGN120400T02020	RNG43T0820	12,70	1/2	–	–	–	–	–	●	●
RNGN120700T02020	RNG45T0820	12,70	1/2	–	–	–	–	–	–	●
RNGN190700T02020	RNG65T0820	19,05	3/4	–	–	–	–	–	–	●



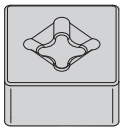
SNGN/SNG

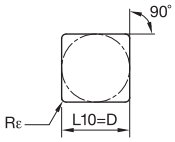
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGN090308T02020	SNG322T0820	9,53	3/8	9,53	.375	0,8	1/32	–	–	●
SNGN120408T02020	SNG432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–	●
SNGN120412T02020	SNG433T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	●
SNGN120416T02020	SNG434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGN120432T02020	SNG438T0820	12,70	1/2	12,70	.500	3,2	1/8	–	–	●
SNGN120712T02020	SNG453T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	–
SNGN120716T02020	SNG454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGN190416T02020	SNG634T0820	19,05	3/4	19,05	.750	1,6	1/16	–	–	●



SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGX120712T02020	SNGX453T0820	12,70	1/2	12,70	.500	1,2	3/64	●	●	●
SNGX120716T02020	SNGX454T0820	12,70	1/2	12,70	.500	1,6	1/16	●	●	●
SNGX150716T02020	SNGX554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	●
SNGX150724T02020	SNGX556T0820	15,88	5/8	15,88	.625	2,4	3/32	–	–	●



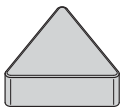


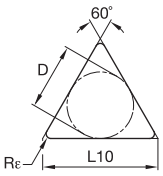
● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

SNMX

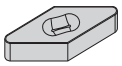
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNMX120712T02020	SNMX453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	●
SNMX120716T02020	SNMX454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNMX150716T02020	SNMX554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	●

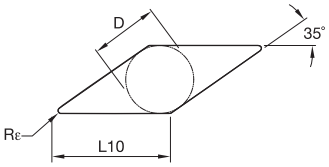




TNGN/TNG

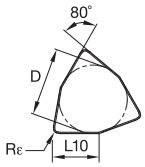
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TNGN160408T02020	TNG332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TNGN220416T02020	TNG434T0820	12,70	1/2	22,00	.866	1,6	1/16	–	–	●





VNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
VNGX160712T02020	VNGX353T0820	9,52	3/8	16,61	.654	1,2	3/64	–	–	●
VNGX160716T02020	VNGX354T0820	9,53	3/8	16,61	.654	1,6	1/16	–	–	●

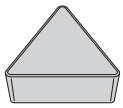


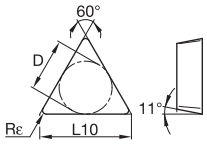
WNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGX080712T02020	WNGX453T0820	12,70	1/2	8,69	.342	1,2	3/64	–	●	●

● first choice
○ alternate choice

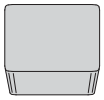
P			
M			
K	●	●	●
N			
S			
H			

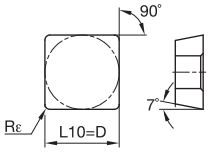




TPGN/TPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TPGN160308T02020	TPG322T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TPGN160312T02020	TPG323T0820	9,53	3/8	16,50	.650	1,2	3/64	–	●	●
TPGN220408T02020	TPG432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	●
TPGN220412T02020	TPG433T0820	12,70	1/2	22,00	.866	1,2	3/64	–	–	●





SCGN-FW/SCG-FW

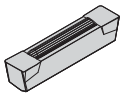
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SCGN090408EFW	SCG332FW	9,53	3/8	9,53	.375	0,8	1/32	–	–	●

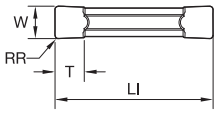
Clamp Selection Chart

order number	catalog number	clamp	
3960807	CNGX120412S01015	551.718–100° Corner	551.716–80° Corner
3960808	CNGX120412S01015FW	551.718–100° Corner	551.716–80° Corner
3960806	CNGX120416S02020	551.718–100° Corner	551.716–80° Corner
3960811	DNGX150416S02020	551.720	551.720
3960812	SNGX120416S02020	551.718	551.718
3960823	SNGX150416S02020	551.718	551.718
3876843	CNGF120408	551.718–100° Corner	551.716–80° Corner
3960825	TNGX160412EFW	551.733	551.733

● first choice
○ alternate choice

P		
M		
K		●
N		
S		
H		

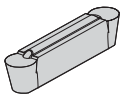


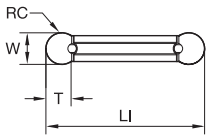


A4G-P-T

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KY3500
A4G0300M03P04T01025	**A4G0300M03P04T01025**	3	3,00	.118	0,4	.016	20	.79	3,4	.134	●
A4G125I03P1T0425	**A4G125I03P1T0425**	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●
A4G0400M04P04T01025	**A4G0400M04P04T01025**	4	4,00	.157	0,4	.016	20	.79	3,4	.134	●
A4G0500M05P08T01025	**A4G0500M05P08T01025**	5	5,00	.197	0,8	.031	25	.98	4,2	.165	●
A4G0600M06P08T01025	**A4G0600M06P08T01025**	6	6,00	.236	0,8	.031	30	1.18	4,8	.189	●
A4G250I06P2T0425	**A4G250I06P2T0425**	6	6,35	.250	0,8	.031	30	1.18	4,9	.193	●
A4G0800M08P08T01025	**A4G0800M08P08T01025**	8	8,00	.315	0,8	.031	30	1.18	6,4	.250	●

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.





A4R-P-T

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KY3500
A4R0300M03P00T01025	**A4R0300M03P00T01025**	3	3,00	.118	1,5	.059	20	.79	2,4	.095	●
A4R0500M05P00T01025	**A4R0500M05P00T01025**	5	5,00	.197	2,5	.098	25	.98	4,1	.163	●
A4R0600M06P00T01025	**A4R0600M06P00T01025**	6	6,00	.236	3,0	.118	30	1.18	4,3	.167	●
A4R250I06P00T0425	**A4R250I06P00T0425**	6	6,35	.250	3,2	.125	30	1.18	4,8	.191	●
A4R0800M08P00T01025	**A4R0800M08P00T01025**	8	8,00	.315	4,0	.157	30	1.18	6,4	.250	●

NOTE: For toolholders and boring bars, see page B163.

Hard Turning

High- and Low-Content PcBN Inserts

The current global metalcutting climate has put increased focus on high productivity and cost reductions coming from cutting tools. These requirements lead to the rapid growth and implementation of cutting tools using superhard materials. As the name implies, these materials have a significant advantage in hardness over conventional tool materials. For the end user this translates into increased productivity (higher cutting speeds, longer tool life, etc.), lower tooling cost per part, and the ability to process materials that were previously not machinable with conventional tooling.

Kennametal is at the forefront of developing and implementing superhard materials in our standard and special tooling solutions across all our product lines. Our approach to superhard tooling starts with customer needs and constraints. We then develop the best superhard solutions for the customer's specific needs.

PcBN is thermally stable up to approximately 2,190º F and has high resistance to chemical attack. As a result, extreme temperatures like those that occur when machining hard ferrous metals do not cause difficulties and can be used to promote self-induced hot cutting. This adds technical and productivity benefits, especially when compared with grinding. In most cases, performance is significantly better than that attained with conventional tool materials, such as tungsten carbides and ceramics.

There are limitations for PcBN, however, in the machining of austenitic steels and ferritic cast irons, which can cause increased PcBN edge wear.

PcBN Inserts

KBH10™ Grade

High Volume

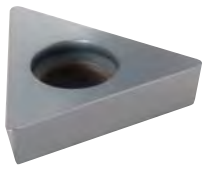
- A new patented low PcBN content grade for continuous turning operations.
- Excellent performance in the machining of hardened steels with lower carbide inclusion content.
- Available as tipped and solid PcBN inserts.

KBH20™ Grade

Higher Productivity and Profitability

- Newly developed substrate allows application in a wide variety of demanding applications.
- Nano-composite coating enhances speed capabilities and tool life. Improved edge preparation technology for longer tool life, reliable performance, better surface finish, and tighter workpiece tolerances.
- Large standard portfolio.
- CB1 chipbreaker in positive and negative geometry, solving chipbreaking and chip control issues.

KB5630™ Grade

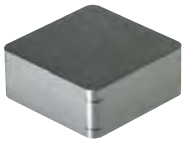


- Best applied in severe cutting conditions and heavy interruptions.
- Excellent abrasion resistance.
- PVD coating provides a thermal barrier to reduce crater wear and extend tool life.
- Excellent performance in machining of hardened steels and powder metals.
- Available as tipped and full face PcBN inserts.

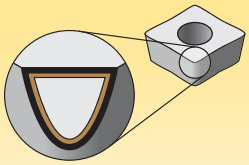
Ceramic Inserts

KY1615 Grade

Low Volume and Higher Process Variations



- Mixed (black) ceramic.
- Excellent wear resistance combined with good toughness properties.
- Excellent performance in the finishing and semi-finishing of hardened steels and iron-based materials.

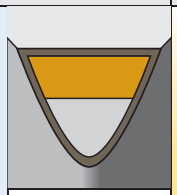
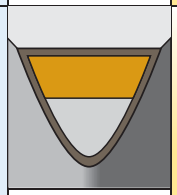
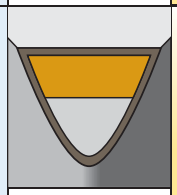


Coatings provide high-speed capability and are engineered for finishing to light roughing.

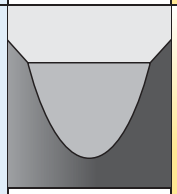
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

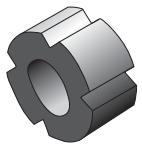
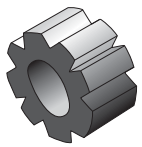
PcBN — Polycrystalline Cubic Boron Nitride Grades

Coating	Grade	Grade Description	05	10	15	20	25	30	35	40	45
	KBH20	**Composition:** A low content PcBN grade with a PVD TiN/AlTiN coating for added wear resistance. **Application:** KBH20™ is the ideal PcBN hard turning grade for continuous to lightly interrupted cutting applications. The structure, as well as the different edge preparations, enable repeatable workpiece tolerances, excellent surface finishes, and surface integrity. Typical applications are case-hardened steel components such as gears, shafts, and other drive-train components.									
	KBH10	**Composition:** A low content PcBN grade with a patented binder structure. **Application:** Designed for the precision machining of hardened steels (>45 HRC). It can be effectively applied on bearing steels, hot and cold work tool steels, high speed steels, die steels, case hardened steels, carburized and nitrided irons, and some hard coatings. Available in a multi-tip format with a wide range of edge preps, insert styles, and wiper geometries.									
	KB5630	**Composition:** A high content PcBN with a PVD AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC), abrasive workpiece materials such as sintered valve seat materials, powder metallurgy steels, and hard high-alloy cast irons. The PVD coating provides resistance to crater wear and increased resistance to chipping. A wide range of styles are available, including Screw-On geometries that are ideal for boring applications.									

Ceramic Grades

Coating	Grade	Grade Description	05	10	15	20	25	30	35	40	45
	KY1615	**Composition:** An advanced lumina/TiC black ceramic grade. **Application:** Great combination of toughness and wear resistance; used for machining alloy steels, tool steels, and stainless steels to 60 HRC (653 HB). It is also applied in finish turning and boring of cast irons.									

Tool Testing Information

	Grade	Sharp	Light Cut Edge Metric Inch	Standard Cut Edge Metric Inch	Strong Cut Edge Metric Inch
	KBH10*	E	10 15 04 15	12 25 05 25	custom
	KBH20*	custom	10 15 04 15	12 25 05 25	17 35 07 35
	KB5630***	custom	custom	10 25 04 25	17 35 07 35

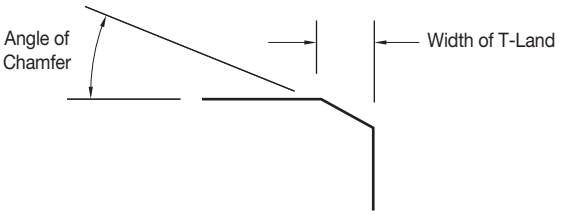
- ✔ Crater Wear
- ✔ Chipping
- ✔ Breakages
- ✔ Stability

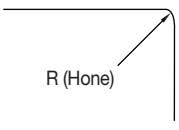
- ✔ Crater Wear
- X Chipping
- ✔ Breakages
- X Stability

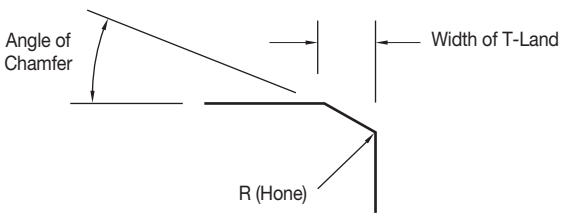
NOTE: KBH20™ Inserts with 1225 (0525 in inch) are the inserts of choice for initial testing.
For fine tuning, stay in the same grade but use either sharper edges in light cuts or heavier edges if need to overcome interruptions and variations.
If KBH20 is failing, change grade to either a more wear–resistant or fracture–resistant grade.
* Lowest toughness
** Medium toughness
*** Highest toughness

E = Hone
T = T-land with angle
S = T-land with angle and hone

Example : S01015 is a 100 µm
T-land at 15 degrees with honing.







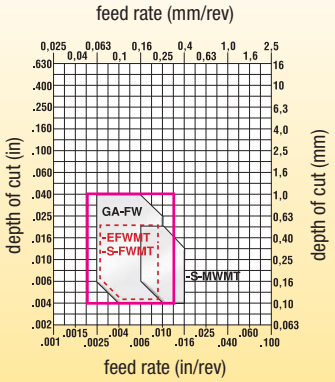
Step 1 • Select the insert geometry

Negative Wiper Inserts

-S..MWMT (multitipped) Medium Wiper

..MS (multitipped) Finishing Wiper

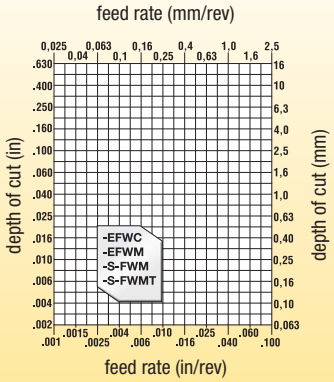
-S..FWMT (multitipped) Finishing Wiper



Positive Wiper Inserts

-EFWC (full face) -EFWM (single tipped) Finishing Wiper

-S..FWM (single tipped) -S..FWMT (multitipped) Fine Finishing Wiper



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -S..FWMT	Negative Insert Geometry -EFWMT	Positive Insert Geometry -S..FWMT	Positive Insert Geometry -S..FWM -S..FWMT	Positive Insert Geometry -EFWM -EFWC
heavily interrupted cut	KB5630	KB5630	–	–	–
lightly interrupted cut	KB5630/ KBH20	KBH20	KBH20	KBH20	KBH20
varying depth of cut, casting, or forging skin	KBH20	KB1610/ KBH10	KBH20	KBH20	KBH20
smooth cut, pre-turned surface	KBH10	KBH10	KBH10	KBH10	KBH10

Step 1 • Select the insert geometry

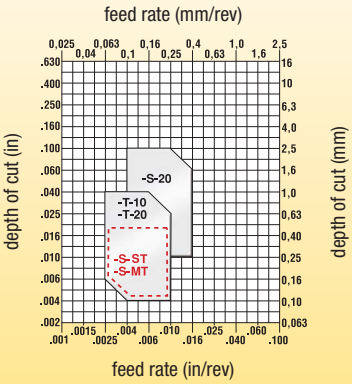
Negative Wiper Inserts

-S-20 Medium Machining

-S..ST (single tipped) -S..MT (multitipped) Finishing

-T..10 -T.20 Fine Finishing

-T..10 -T.20 Fine Finishing



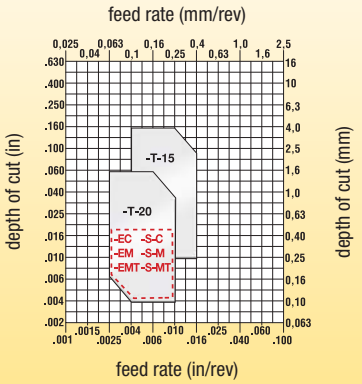
Positive Wiper Inserts

-T-15 Medium Machining

-EC (full face) -EM (single tipped) -EMT (multitipped) Finishing

-T-20

-S....C (full face) -S....M (single tipped) -S....MT (multitipped) Fine Finishing



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -T.10 -T.20	Positive Insert Geometry -T-15
heavily interrupted cut	–	–
lightly interrupted cut	–	KY1615
varying depth of cut, casting, or forging skin	KY1615	KY1615
smooth cut, pre-turned surface	KY1615	KY1615

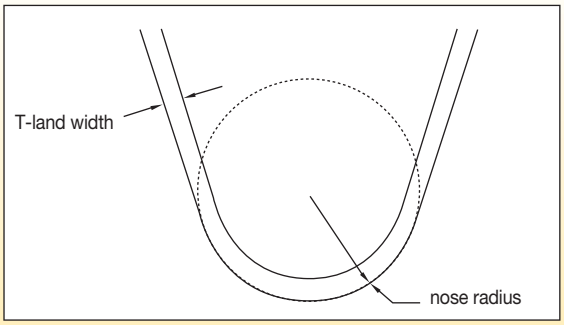
Step 1 • Select the cutting speed

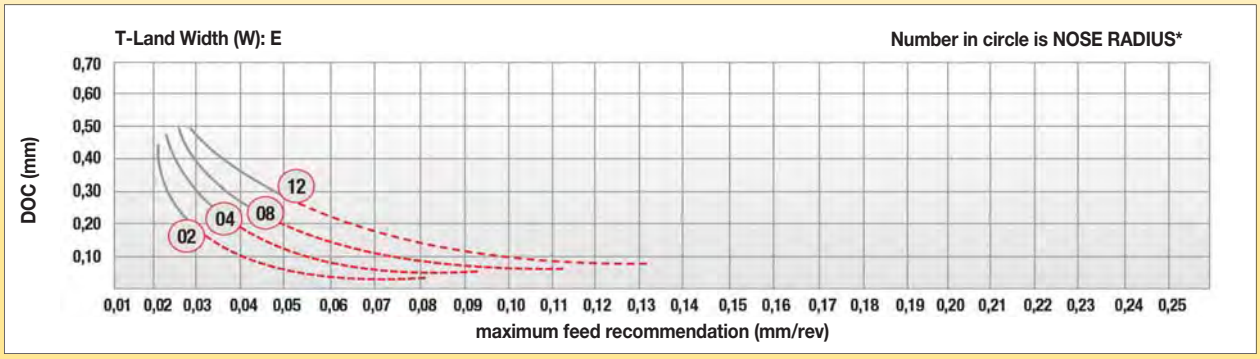
material group	grade	speed — m/min (SFM) 15 (50)	45 (150)	75 (250)	110 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	Starting Conditions m/min	SFM
H1	KBH20				◁▷						155	510
	KBH10					◁▷					150	490
	KB5630			◁▷							105	345
	KY1615			◁▷							100	325

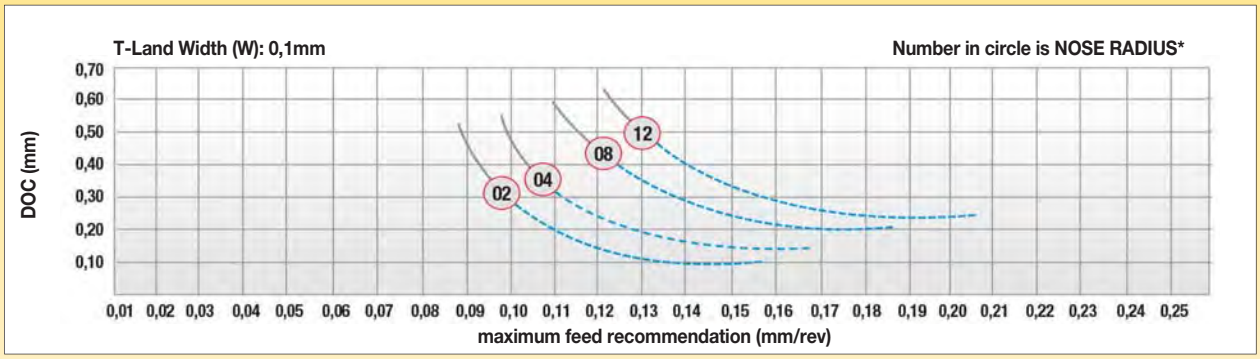
T-Land Width

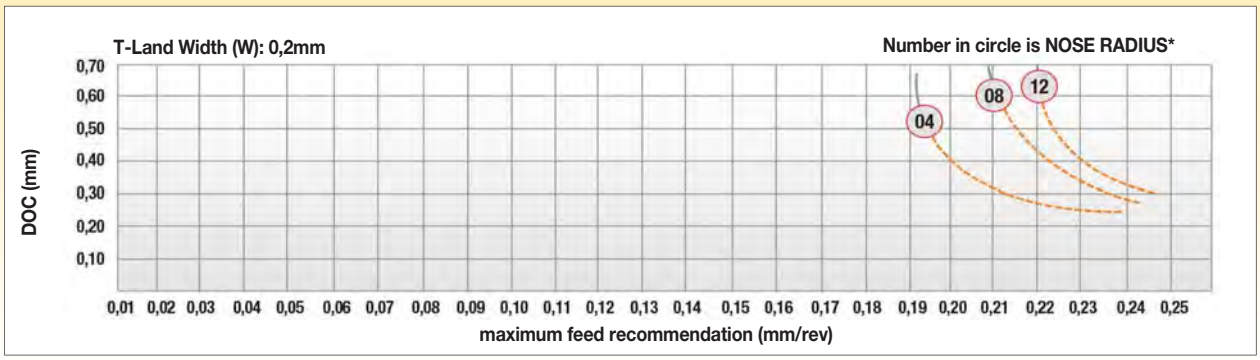
Example 1: If the feed, depth of cut, and the tool nose radius are fixed, use these values to see what T-land width should be used.

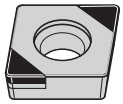
Example 2: If you want to use a specific T-land width or hone only edge, use the chart below to see what maximum feeds and depths of cut are recommended for different nose radii.

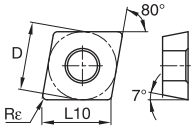












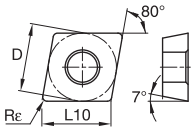
● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	

CCGM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGM09T304S01325MTCB1	CCGM3251S0525MTCB1	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	–
CCGM09T308S01325MTCB1	CCGM3252S0525MTCB1	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	–

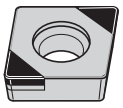
NOTE: For toolholders and boring bars, see pages B193–B198.

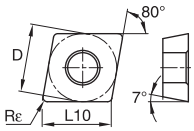


CCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015C	CCGW21505S0415C	6,35	1/4	6,45	.254	0,2	.008	–	–	●	–
CCGW060204S01015C	CCGW2151S0415C	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	–

NOTE: For toolholders and boring bars, see pages B193–B198.

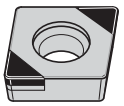


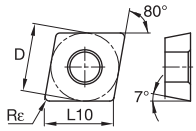


CCGW-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW09T304S01015FWMT	CCGW3251S0415FWMT	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	–
CCGW09T308S01015FWMT	CCGW3252S0415FWMT	9,53	3/8	9,67	.381	0,8	1/32	●	●	–	–

NOTE: For toolholders and boring bars, see pages B193–B198.





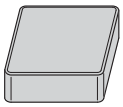
CCGW-MT

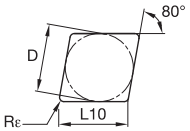
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015MT	CCGW21505S0415MT	6,35	1/4	6,45	.254	0,2	.008	●	–	–	–
CCGW060202S01225MT	CCGW21505S0525MT	6,35	1/4	6,45	.254	0,2	.008	–	●	–	–
CCGW060204S01015MT	CCGW2151S0415MT	6,35	1/4	6,45	.254	0,4	1/64	●	–	–	–
CCGW060204S01225MT	CCGW2151S0525MT	6,35	1/4	6,45	.254	0,4	1/64	–	●	–	–
CCGW09T302S01015MT	CCGW32505S0415MT	9,53	3/8	9,67	.381	0,2	.008	●	–	–	–
CCGW09T302S01225MT	CCGW32505S0525MT	9,53	3/8	9,67	.381	0,2	.008	–	●	–	–
CCGW09T304S01015MT	CCGW3251S0415MT	9,53	3/8	9,67	.381	0,4	1/64	●	●	●	–
CCGW09T304S01225MT	CCGW3251S0525MT	9,53	3/8	9,67	.381	0,4	1/64	●	●	–	–
CCGW09T308S01015MT	CCGW3252S0415MT	9,53	3/8	9,67	.381	0,8	1/32	●	●	●	–
CCGW09T308S01225MT	CCGW3252S0525MT	9,53	3/8	9,67	.381	0,8	1/32	●	●	–	–
CCGW120408S01015MT	CCGW432S0415MT	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see pages B193–B198.

● first choice
○ alternate choice

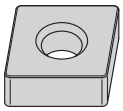
P	●
M	
K	●
N	
S	●
H	● ● ● ●

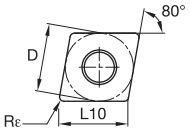




CNGN/CNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGN120404T02020	CNG431T0820	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●
CNGN120408T02020	CNG432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGN120708T02020	CNG452T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGN120412T02020	CNG433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGN120712T02020	CNG453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGN120716T02020	CNG454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●
CNGN160716T02020	CNG554T0820	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	●
CNGN160716T05015	CNG554T2015	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	●

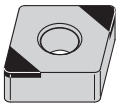


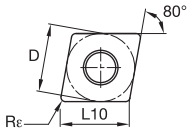


CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404T02020	CNGA431T0820	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●
CNGA120408T00520	CNGA432T0220	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGA120408T02020	CNGA432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGA120412T02020	CNGA433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGA120416T02020	CNGA434T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●
CNGA160612T02020	CNGA543T0820	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	●
CNGA190612T02020	CNGA643T0820	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	●
CNGA190616T02020	CNGA644T0820	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.





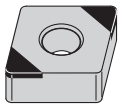
● first choice
○ alternate choice

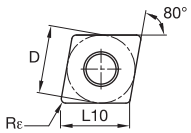
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

CNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015FWMT	CNGA431S0415FWMT	12,70	1/2	12,90	.508	0,4	1/64	●	●	–	–
CNGA120404S01025FWMT	CNGA431S0425FWMT	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–
CNGA120408S01015FWMT	CNGA432S0415FWMT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01025FWMT	CNGA432S0425FWMT	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–
CNGA120408S01225FWMT	CNGA432S0525FWMT	12,70	1/2	12,90	.508	0,8	1/32	●	–	–	–
CNGA120412S01015FWMT	CNGA433S0415FWMT	12,70	1/2	12,90	.508	1,2	3/64	–	●	–	–
CNGA120412S01225FWMT	CNGA433S0525FWMT	12,70	1/2	12,90	.508	1,2	3/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.

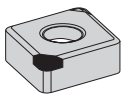


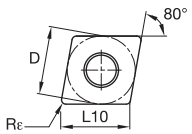


CNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015MT	CNGA431S0415MT	12,70	1/2	12,90	.508	0,4	1/64	●	●	–	–
CNGA120404S01025MT	CNGA431S0425MT	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–
CNGA120404S01225MT	CNGA431S0525MT	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGA120404S01735MT	CNGA431S0735MT	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGA120408S01015MT	CNGA432S0415MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01025MT	CNGA432S0425MT	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–
CNGA120408S01225MT	CNGA432S0525MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01735MT	CNGA432S0735MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120412S01015MT	CNGA433S0415MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–
CNGA120412S01020MT	CNGA433S0420MT	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–
CNGA120412S01025MT	CNGA433S0425MT	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–
CNGA120412S01225MT	CNGA433S0525MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–
CNGA120412S01735MT	CNGA433S0735MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.

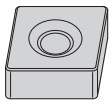


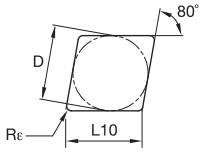


CNGM-CB1

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGM120404S01325MTCB1	CNGM431S0525MTCB1	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGM120408S01325MTCB1	CNGM432S0525MTCB1	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	–
CNGM120412S01325MTCB1	CNGM433S0525MTCB1	12,70	1/2	12,90	.508	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.





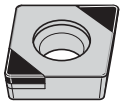
● first choice
○ alternate choice

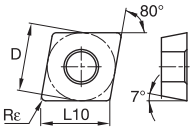
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

CNGX

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
CNGX120708T02020	**CNGX452T0820**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGX120712T02020	**CNGX453T0820**	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.

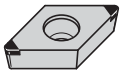


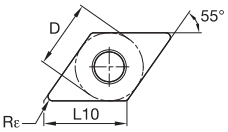


CPGW-MT

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
CPGW09T304S01015MT	**CPGW3251S0415MT**	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–
CPGW09T308S01015MT	**CPGW3252S0415MT**	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	–

NOTE: For toolholders and boring bars, see pages B209–B223.

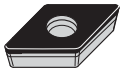


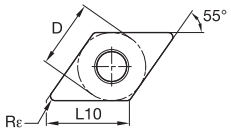


DCGM

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
DCGM11T304S01325MTCB1	**DCGM3251S0525MTCB1**	9,53	3/8	11,63	.458	0,4	1/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.





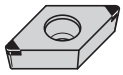
● first choice
○ alternate choice

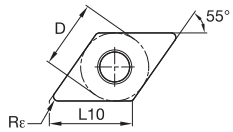
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

DCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW070202S01015C	DCGW21505S0415C	6,35	1/4	7,75	.305	0,2	.008	–	–	●	–
DCGW070204S01015C	DCGW2151S0415C	6,35	1/4	7,75	.305	0,4	1/64	–	–	●	–

NOTE: For toolholders and boring bars, see pages B227–B230.

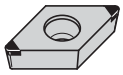


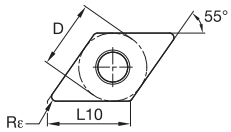


DCGW-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW11T308S01015FWMT	DCGW3252S0415FWMT	9,53	3/8	11,63	.458	0,4	.016	●	●	–	–
DCGW11T308S01225FWMT	DCGW3252S0525FWMT	9,53	3/8	11,63	.458	0,4	1/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.

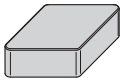


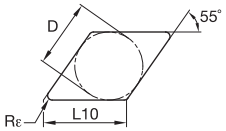


DCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW070202S01225MT	DCGW21505S0525MT	6,35	1/4	7,75	.305	0,2	.008	–	●	–	–
DCGW70202S01015MT	DCGW21505S0415MT	6,35	1/4	7,75	.305	0,4	.0156	●	–	–	–
DCGW70204S01015MT	DCGW2151S0415MT	6,35	1/4	7,75	.305	0,4	1/64	●	–	–	–
DCGW070204S01015MT	DCGW2151S0415MT	6,35	1/4	7,75	.305	0,4	1/64	–	●	–	–
DCGW70204S01225MT	DCGW2151S0525MT	6,35	1/4	7,75	.305	0,4	1/64	●	–	–	–
DCGW070204S01225MT	DCGW2151S0525MT	6,35	1/4	7,75	.305	0,4	1/64	–	●	–	–
DCGW11T302S01015MT	DCGW32505S0415MT	9,53	3/8	11,63	.458	0,2	.008	●	–	–	–
DCGW11T302S01225MT	DCGW32505S0525MT	9,53	3/8	11,63	.458	0,2	.008	–	●	–	–
DCGW11T304S01015MT	DCGW3251S0415MT	9,53	3/8	11,63	.458	0,4	1/64	●	●	●	–
DCGW11T304S01225MT	DCGW3251S0525MT	9,53	3/8	11,63	.458	0,4	1/64	●	●	–	–
DCGW11T308S01015MT	DCGW3252S0415MT	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	–
DCGW11T308S01225MT	DCGW3252S0525MT	9,53	3/8	11,63	.458	0,8	1/32	●	●	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.



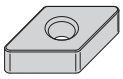


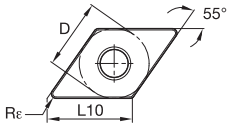
● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DNGN/DNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGN150704T02020	**DNG451T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGN150708T02020	**DNG452T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGN150712T02020	**DNG453T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGN150716T02020	**DNG454T0820**	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●

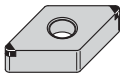


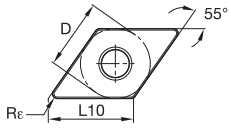


DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150404T02020	**DNGA431T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGA150604T02020	**DNGA441T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGA150408T02020	**DNGA432T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGA150608T02020	**DNGA442T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGA150412T02020	**DNGA433T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGA150612T02020	**DNGA443T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGA150416T02020	**DNGA434T0820**	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

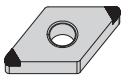


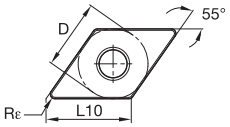


DNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150408S01015FWMT	**DNGA432S0415FWMT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150408S01225FWMT	**DNGA432S0525FWMT**	12,70	1/2	15,50	.610	0,4	1/32	●	–	–	–
DNGA150412S01015FWMT	**DNGA433S0415FWMT**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGA150412S01225FWMT	**DNGA433S0525FWMT**	12,70	1/2	15,50	.610	0,8	3/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.





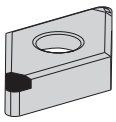
● first choice
○ alternate choice

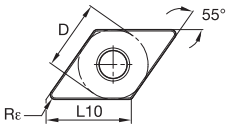
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

DNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150404S01015MT	**DNGA431S0415MT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150404S01025MT	**DNGA431S0425MT**	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	–
DNGA150404S01225MT	**DNGA431S0525MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150404S01735MT	**DNGA431S0735MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150604S01015MT	**DNGA441S0415MT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150604S01225MT	**DNGA441S0525MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150604S01735MT	**DNGA441S0735MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150408S01735MT	**DNGA432S0735MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150408S01015MT	**DNGA432S0415MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150408S01025MT	**DNGA432S0425MT**	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–
DNGA150408S01225MT	**DNGA432S0525MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01015MT	**DNGA442S0415MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01225MT	**DNGA442S0525MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01735MT	**DNGA442S0735MT**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGA150412S01015MT	**DNGA433S0415MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150412S01225MT	**DNGA433S0525MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150412S01735MT	**DNGA433S0735MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01015MT	**DNGA443S0415MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01225MT	**DNGA443S0525MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01735MT	**DNGA443S0735MT**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.





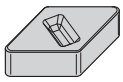
DNGM-CB1

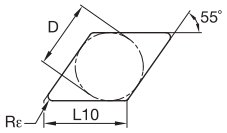
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGM150408S01325MTCB1	**DNGM432S0525MTCB1**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGM150412S01325MTCB1	**DNGM433S0525MTCB1**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–
DNGM150608S01325MTCB1	**DNGM442S0525MTCB1**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGM150612S01325MTCB1	**DNGM443S0525MTCB1**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.

● first choice
○ alternate choice

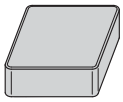
P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	●

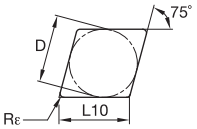




DNGX

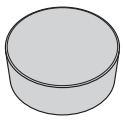
ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
DNGX150708T02020	DNGX452T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●

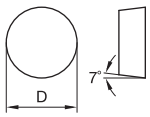




ENGN/ENG

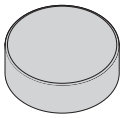
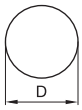
ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
ENGN130704T02020	ENG451T0820	12,70	1/2	13,15	.518	0,4	1/64	–	–	–	●
ENGN130708T02020	ENG452T0820	12,70	1/2	13,15	.518	0,8	1/32	–	–	–	●
ENGN130712T02020	ENG453T0820	12,70	1/2	13,15	.518	1,2	3/64	–	–	–	●
ENGN130716T02020	ENG454T0820	12,70	1/2	13,15	.518	1,6	1/16	–	–	–	●





RCGX/RCGV

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
RCGX090700T01020	RCGV35T0420	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T02020	RCGV35T0820	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T10015	RCGV35T4015	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T20015	RCGV35T8015	9,53	3/8	–	–	–	–	–	–	–	●
RCGX120700T02020	RCGV45T0820	12,70	1/2	–	–	–	–	–	–	–	●
RCGX120700T10015	RCGV45T4015	12,70	1/2	–	–	–	–	–	–	–	●
RCGX120700T20015	RCGV45T8015	12,70	1/2	–	–	–	–	–	–	–	●
RCGX151000T20015	RCGX151000T20015	15,88	5/8	–	–	–	–	–	–	–	●
RCGX191000T20015	RCGX191000T20015	19,05	3/4	–	–	–	–	–	–	–	●
RCGX251200T20015	RCGV88T8015	25,40	1	–	–	–	–	–	–	–	●

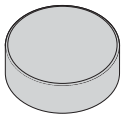
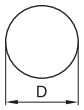



● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

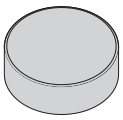
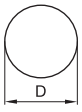
RCGW-T

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RCGW1204M0T01020	RCGW1204M0T01020	12,00	—	—	—	—	—	–	–	–	●

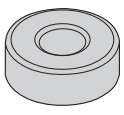
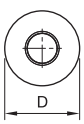
RCGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RCGX0907-001	RCGX0907-001	9,53	3/8	—	—	—	—	–	–	–	●

RNGN/RNG

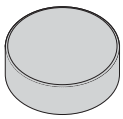
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGN090300T02020	RNG32T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGN090400T02020	RNG33T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGN120300T02020	RNG42T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120400T02020	RNG43T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T02020	RNG45T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T10015	RNG45T4015	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T20015	RNG45T8015	12,70	1/2	—	—	—	—	–	–	–	●
RNGN190700T02020	RNG65T0820	19,05	3/4	—	—	—	—	–	–	–	●

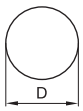



RNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGA090300T02020	RNGA32T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGA120400T02020	RNGA43T0820	12,70	1/2	—	—	—	—	–	–	–	●

NOTE: For toolholders and boring bars, see pages B98–B99.



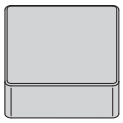


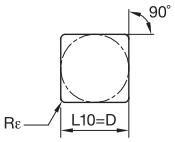
● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

RNGN-C/RNG-C

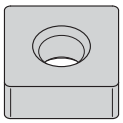
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGN090300S02015C	RNG32S0815C	9,53	3/8	—	—	—	—	–	–	●	–

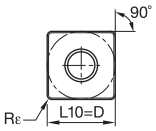




SNGN/SNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGN090308T02020	SNG322T0820	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●
SNGN120704T02020	SNG451T0820	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	●
SNGN120408T00520	SNG432T0220	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120408T02020	SNG432T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120708T02020	SNG452T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120412T02020	SNG433T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●
SNGN120712T02020	SNG453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●
SNGN120416T02020	SNG434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●
SNGN120716T02020	SNG454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●
SNGN120720T02020	SNG455T0820	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN120720T10015	SNG455T4015	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN120720T20015	SNG455T8015	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN150716T02020	SNG554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●

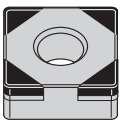


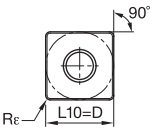


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGA120408T02020	SNGA432T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGA120412T02020	SNGA433T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.

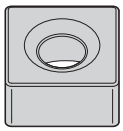


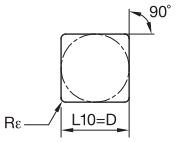


SNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGA120408S01015MT	SNGA432S0415MT	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–
SNGA120408S01225MT	SNGA432S0525MT	12,70	1/2	12,70	.500	0,8	1/32	●	●	–	–
SNGA120412S01225MT	SNGA433S0525MT	12,70	1/2	12,70	.500	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B109–B120.





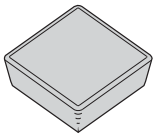
● first choice
○ alternate choice

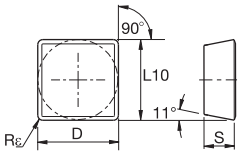
P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	

SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGX120712T02020	SNGX453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●

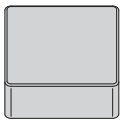
NOTE: For toolholders and boring bars, see pages B109–B120.

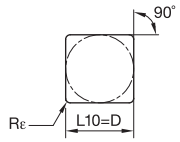




SPG-T

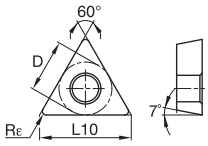
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SPGN090308T01020	SPG322T0420	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●
SPGN120308T01020	SPG422T0420	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●





SPU-T

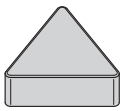
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SPUN120308T00520	SPU422T0220	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●

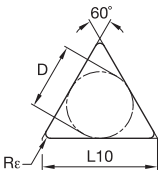


TCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TCGW090202S01015MT	TCGW181505S0415MT	5,56	7/32	9,62	.379	0,2	.008	–	●	–	–
TCGW090204S01015 MT	TCGW18151S0415MT	5,56	7/32	9,62	.379	0,4	1/64	–	●	–	–
TCGW110202S01015MT	TCGW21505S0415MT	6,35	1/4	11,00	.433	0,2	.008	●	●	–	–
TCGW110204S01015MT	TCGW2151S0415MT	6,35	1/4	11,00	.433	0,4	1/64	●	●	–	–
TCGW110204S01225MT	TCGW2151S0525MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TCGW110208S01015MT	TCGW2152S0415MT	6,35	1/4	11,00	.433	0,8	1/32	●	●	–	–
TCGW110208S01225MT	TCGW2152S0525MT	6,35	1/4	11,00	.433	0,8	1/32	●	–	–	–

NOTE: For toolholders and boring bars, see pages B259–B262.



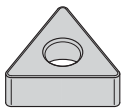


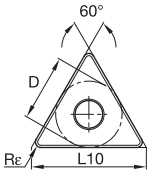
● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

TNGN/TNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGN110308T02020	TNG222T0820	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TNGN160404T02020	TNG331T0820	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TNGN160408T02020	TNG332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGN160708T02020	TNG352T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGN160412T02020	TNG333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGN160712T02020	TNG353T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGN160416T02020	TNG334T0820	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	●
TNGN220408T02020	TNG432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	●

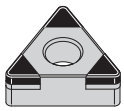


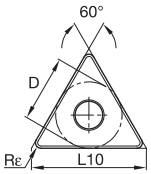


TNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGA160408T02020	TNGA332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGA160412T02020	TNGA333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGA220408T02020	TNGA432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	●
TNGA220412T02020	TNGA433T0820	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.

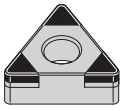


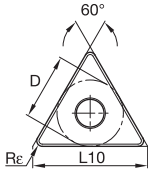


TNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGA160404S01015MT	TNGA331S0415MT	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–
TNGA160404S01225MT	TNGA331S0525MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TNGA160404S01735MT	TNGA331S0735MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TNGA160408S01015MT	TNGA332S0415MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160408S01225MT	TNGA332S0525MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160408S01735MT	TNGA332S0735MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160412S01015MT	TNGA333S0415MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–
TNGA160412S01225MT	TNGA333S0525MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–
TNGA160412S01735MT	TNGA333S0735MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B131–B143.





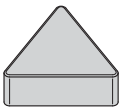
● first choice
○ alternate choice

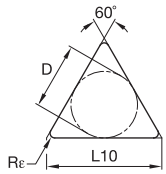
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

TNGM • Medium Machining

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGM160408S01325MTCB1	**TNGM332S0525MTCB1**	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–

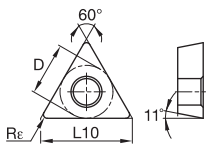
NOTE: For toolholders and boring bars, see pages B131–B143.





TPGN/TPG

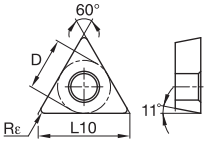
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGN110304T01020	**TPG221T0420**	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●
TPGN110308T01020	**TPG222T0420**	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TPGN110312T01020	**TPG223T0420**	6,35	1/4	11,00	.433	1,2	3/64	–	–	–	●
TPGN160304T00520	**TPG321T0220**	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPGN160304T01020	**TPG321T0420**	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPGN160308T00520	**TPG322T0220**	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPGN160308T01020	**TPG322T0420**	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPGN160312T01020	**TPG323T0420**	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●



TPGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGW110208S01015C	**TPGW2152S0415C**	6,35	1/4	11,00	.433	0,8	1/32	–	–	●	–

NOTE: For toolholders and boring bars, see pages B270–B279.



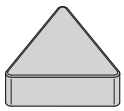
● first choice
○ alternate choice

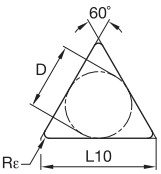
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

TPGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGW110308S01225MT	TPGW222S0525MT	6,35	1/4	10,96	.432	0,8	1/32	●	–	–	–
TPGW110202S01015MT	TPGW21505S0415MT	6,35	1/4	11,00	.433	0,2	.008	–	●	–	–
TPGW110304S01015MT	TPGW221S0415MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TPGW110304S01225MT	TPGW221S0525MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TPGW110204S01015MT	TPGW2151S0415MT	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–
TPGW110208S01015MT	TPGW2152S0415MT	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	–
TPGW16T304S01015MT	TPGW3251S0415MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TPGW160404S01015MT	TPGW331S0415MT	9,53	3/8	16,50	.650	0,4	1/64	●	–	–	–
TPGW160404S01225MT	TPGW331S0525MT	9,53	3/8	16,50	.650	0,4	1/64	●	–	–	–
TPGW16T308S01015MT	TPGW3252S0415MT	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–
TPGW16T308S01225MT	TPGW3252S0525MT	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–
TPGW160408S01015MT	TPGW332S0415MT	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–
TPGW160408S01225MT	TPGW332S0525MT	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–

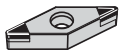
NOTE: For toolholders and boring bars, see pages B270–B279.

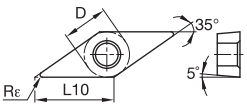




TPU-T

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPUN110304T00520	TPU221T0220	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●
TPUN110308T00520	TPU222T0220	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TPUN160304T00520	TPU321T0220	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPUN160308T00520	TPU322T0220	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPUN160312T00520	TPU323T0220	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●

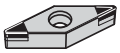


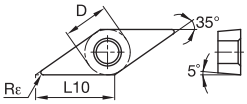


VBGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VBGW110304S01015MT	VBGW221S0415MT	6,35	1/4	11,07	.436	0,4	1/64	●	●	–	–
VBGW110304S01225MT	VBGW221S0525MT	6,35	1/4	11,07	.436	0,4	1/64	–	●	–	–
VBGW110308S01015MT	VBGW222S0415MT	6,35	1/4	11,07	.436	0,8	1/32	●	–	–	–
VBGW110308S01225MT	VBGW222S0525MT	6,35	1/4	11,07	.436	0,8	1/32	–	●	–	–
VBGW160404S01015MT	VBGW331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	●	–	●	–
VBGW160408S01015MT	VBGW332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	–
VBGW160412S01015MT	VBGW333S0415MT	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B282–B285.





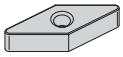
● first choice
○ alternate choice

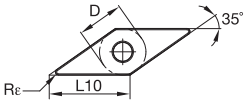
P				●
M				
K				●
N				
S				●
H	●	●	●	●

VCGW • Light Machining

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VCGW160404S01015MT	VCGW331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VCGW160404S01225MT	VCGW331S0525MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VCGW160408S01015MT	VCGW332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VCGW160408S01225MT	VCGW332S0525MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see pages B270–B279.

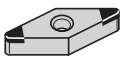


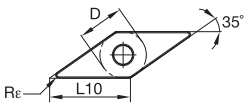


VNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGA160404T02020	VNGA331T0820	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	●
VNGA160408T02020	VNGA332T0820	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●
VNGA160412T02020	VNGA333T0820	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●
VNGA220408T02020	VNGA432T0820	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

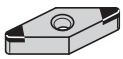


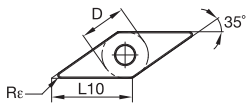


VNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGA160404S01015MT	VNGA331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	●	●	–	–
VNGA160404S01025MT	VNGA331S0425MT	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	–
VNGA160404S01225MT	VNGA331S0525MT	9,53	3/8	16,61	.654	0,4	1/64	●	●	–	–
VNGA160404S01735MT	VNGA331S0735MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VNGA160408S01015MT	VNGA332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	–	–
VNGA160408S01025MT	VNGA332S0425MT	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	–
VNGA160408S01225MT	VNGA332S0525MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	–	–
VNGA160408S01735MT	VNGA332S0735MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VNGA160412S01225MT	VNGA333S0525MT	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.





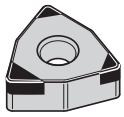
VNGM

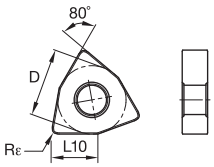
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGM160408S01325MTCB1	VNGM332S0525MTCB1	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VNGM160412S01325MTCB1	VNGM333S0525MTCB1	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.

● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

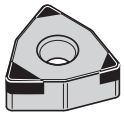


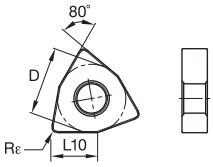


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWMT	WNGA432S0415FWMT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.

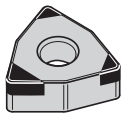


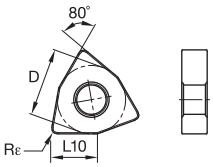


WNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWHBMT	WNGA432S0415FWHBMT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.





WNGA-MT

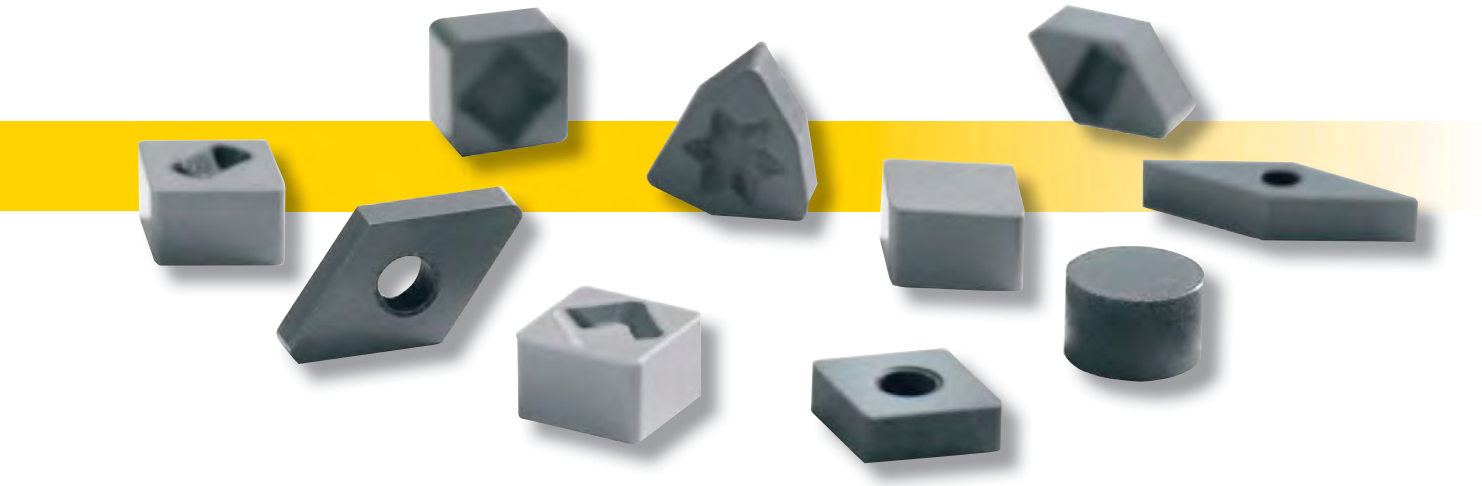
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080404S01015MT	WNGA431S0415MT	12,70	1/2	8,69	.342	0,4	1/64	–	●	–	–
WNGA80408S01015MT	WNGA432S0415MT	12,70	1/2	8,69	.342	0,8	1/32	●	–	–	–
WNGA080408S01015MT	WNGA432S0415MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–
WNGA80408S01225MT	WNGA432S0525MT	12,70	1/2	8,69	.342	0,8	1/32	●	–	–	–
WNGA080408S01225MT	WNGA432S0525MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–
WNGA080408S01735MT	WNGA432S0735MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.

Machining High-Temp Alloys with **Ceramics** and **PcBN**

Kennametal advanced materials, utilizing Beyond™ technology, offer greater wear resistance and toughness, depending on the job.

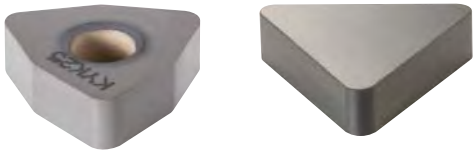
KYS ceramic inserts are the first choice for high-speed applications in high-temp alloys. The multilayer coating offers enhanced chemical wear resistance versus uncoated grades. A superior SiAlON ceramic substrate provides excellent depth of cut notching resistance versus whisker-reinforced ceramics.



Ceramic Inserts

KYS25™ Grade

- Excellent surface finish, lower cutting forces, and higher speeds.
- Advanced CVD coating provides excellent chemical and depth-of-cut notch resistance.



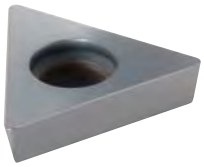
KYS30™ Grade

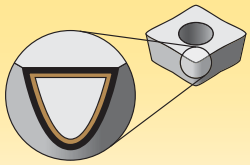
- Long, consistent tool life.
- Excellent toughness and depth-of-cut notch resistance.
- Performs in a wide variety of machining conditions, including interrupted cuts and applications involving scale.

Tipped PcBN Inserts

KB1630 Grade

- Long, consistent tool life.
- Excellent toughness and depth-of-cut notch resistance.
- Performs in a wide variety of machining conditions, including interrupted cuts and applications involving scale.

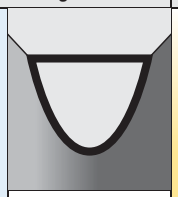
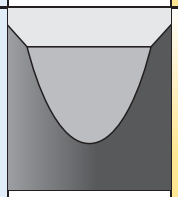
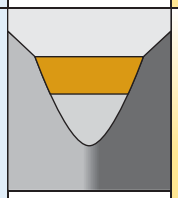




Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

	Coating	Grade	Grade Description	05	10	15	20	25	30	35	40	45
Ceramic Grades		KYS25	**Composition:** SiAlON ceramic with a multilayered alumina-TiCN CVD coating. **Application:** Complements the KYS30™ grade when machining high-temp and nickel-based alloys and cast materials with high Brinell hardness. This advanced CVD coating provides excellent chemical and depth-of-cut notch resistance compared to whisker ceramics.									
		KYS30	**Composition:** Latest and most advanced SiAlON material developed. **Application:** Combines excellent wear properties, fracture toughness, and thermal shock resistance for general-purpose to finish machining of high-temp alloys. Provides superior depth-of-cut notch resistance compared to whisker ceramics.									
PcBN – Polycrystalline Cubic Boron Nitride Grades		KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.									

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

SELECT

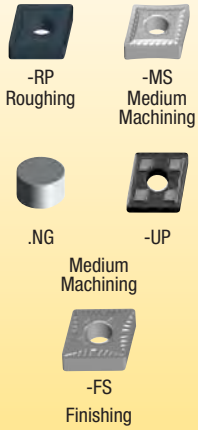
A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

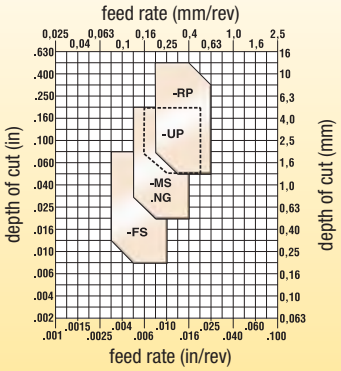
- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**

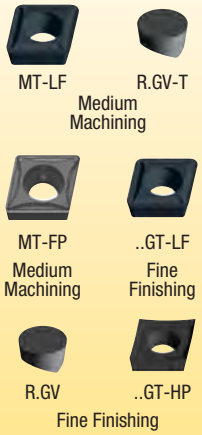
Step 1 • Select the insert geometry

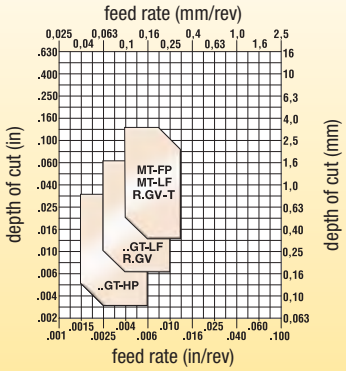
Negative Inserts





Positive Inserts





Step 2 • Select the grade

cutting condition	Negative Insert Geometry .NG
heavily interrupted cut	–
lightly interrupted cut	KYS30/KY1540
varying depth of cut, casting, or forging skin	KYS30/KY1540/KYS25/KY4300
smooth cut, pre-turned surface	KYS25/KY4300

cutting condition	Positive Insert Geometry R.GV-T
heavily interrupted cut	–
lightly interrupted cut	KYS30/KY1540
varying depth of cut, casting, or forging skin	KYS30/KY1540/KYS25/KY4300
smooth cut, pre-turned surface	KYS25/KY4300

Step 3 • Select the cutting speed

Iron-Based, Heat-Resistant Alloys (135–320 HB) (≤34 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

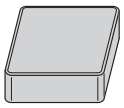
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						200	650
	KYS30/KY1540							◁▷							170	550

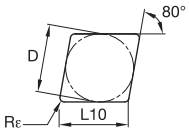
Cobalt-Based, Heat-Resistant Alloys (150–425 HB) (≤45 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						220	720
	KYS30/KY1540							◁▷							185	600

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	KB1630									◁▷					260	850
	KYS25/KY4300									◁▷					250	820
	KYS30/KY1540							◁▷							215	700



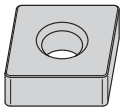


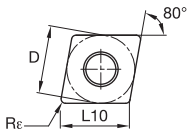
● first choice
○ alternate choice

P			
M			
K			
N			
S	●	●	○
H	○		●

CNGN/CNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGN120416T01020	CNG434T0420	12,70	1/2	12,90	.508	1,6	1/16	●	–	–
CNGN120712T01020	CNG453T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–
CNGN120716T01020	CNG454T0420	12,70	1/2	12,90	.508	1,6	1/16	–	●	–

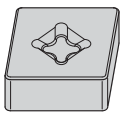


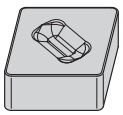


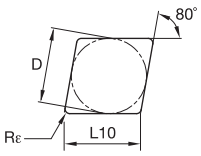
CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGA120408E	CNGA432E	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGA120408T01020	CNGA432T0420	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGA120412T01020	CNGA433T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–

NOTE: For toolholders and boring bars, see pages B58–B76.

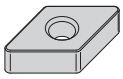


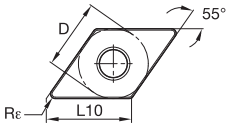




CNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGX120708T01020	CNGX452T0420	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGX120712T01020	CNGX453T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–
CNGX120716E	CNGX454E	12,70	1/2	12,90	.508	1,6	1/16	–	●	–





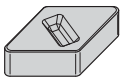
● first choice
○ alternate choice

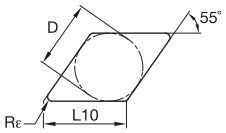
P			
M			
K			
N			
S	●	●	○
H	○		●

DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
DNGA150408T01020	DNGA432T0420	12,70	1/2	15,50	.610	0,8	1/32	–	●	–
DNGA150412T01020	DNGA433T0420	12,70	1/2	15,50	.610	1,2	3/64	–	●	–

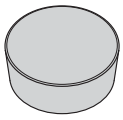
NOTE: For toolholders and boring bars, see pages B87–B96.

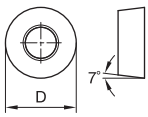




DNGX

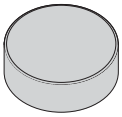
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
DNGX150708T01020	DNGX452T0420	12,70	1/2	15,50	.610	0,8	1/32	●	–	–
DNGX150712T01020	DNGX453T0420	12,70	1/2	15,50	.610	1,2	3/64	●	●	–
DNGX150716T01020	DNGX454T0420	12,70	1/2	15,50	.610	1,6	1/16	–	●	–

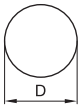




RCGX/RCGV

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
RCGX060400E	RCGV23E	6,35	1/4	–	–	–	–	●	●	–
RCGX090700E	RCGV35E	9,53	3/8	–	–	–	–	●	●	–
RCGX090700T00525	RCGV35T0225	9,53	3/8	–	–	–	–	–	●	–
RCGX090700T01020	RCGV35T0420	9,53	3/8	–	–	–	–	●	●	–
RCGX120700E	RCGV45E	12,70	1/2	–	–	–	–	●	●	–
RCGX120700T01020	RCGV45T0420	12,70	1/2	–	–	–	–	●	●	–
RCGX120700T01025	RCGV45T0425	12,70	1/2	–	–	–	–	●	●	–



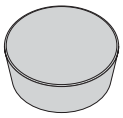


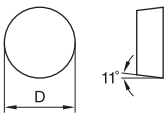
● first choice
○ alternate choice

P			
M			
K			
N			
S	●	●	○
H	○		●

RNGN/RNG

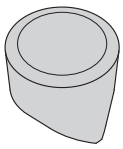
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY25	KY30	KB1630
RNGN120400T01020	RNG43T0420	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T00525	RNG45T0225	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T01020	RNG45T0420	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T01025	RNG45T0425	12,70	1/2	–	–	–	–	●	●	–
RNGN190700T01020	RNG65T0420	19,05	3/4	–	–	–	–	–	●	–

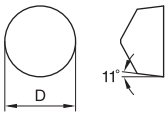




RPGN/RPG

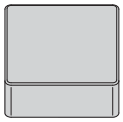
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY25	KY30	KB1630
RPGN060200E	RPG2150E	6,35	1/4	–	–	–	–	–	●	–
RPGN090300E	RPG32E	9,53	3/8	–	–	–	–	–	●	–
RPGN090300T01020	RPG32T0420	9,53	3/8	–	–	–	–	–	●	–
RPGN120400E	RPG43E	12,70	1/2	–	–	–	–	–	●	–
RPGN120400T01020	RPG43T0420	12,70	1/2	–	–	–	–	–	●	–

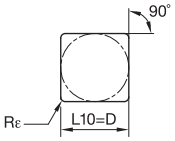




RPGX/RPGV

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY25	KY30	KB1630
RPGX090700E	RPGV35E	9,53	3/8	–	–	–	–	●	●	–
RPGX090700T01020	RPGV35T0420	9,53	3/8	–	–	–	–	–	●	–
RPGX120700E	RPGV45E	12,70	1/2	–	–	–	–	●	●	–
RPGX120700T01020	RPGV45T0420	12,70	1/2	–	–	–	–	–	●	–



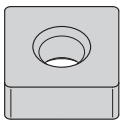


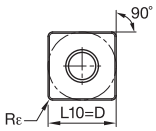
● first choice
○ alternate choice

P			
M			
K			
N			
S	●	●	○
H	○		●

SNGN/SNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGN120408T01020	SNG432T0420	12,70	1/2	12,70	.500	0,8	1/32	–	●	–
SNGN120412T01020	SNG433T0420	12,70	1/2	12,70	.500	1,2	3/64	–	●	–
SNGN120416T01020	SNG434T0420	12,70	1/2	12,70	.500	1,6	1/16	●	●	–
SNGN120716T01020	SNG454T0420	12,70	1/2	12,70	.500	1,6	1/16	–	●	–
SNGN190616E	SNG644E	19,05	3/4	19,05	.750	1,6	1/16	●	–	–
SNGN190616T01020	SNG644T0420	19,05	3/4	19,05	.750	1,6	1/16	–	●	–
SNGN190724E	SNG656E	19,05	3/4	19,05	.750	2,4	3/32	–	●	–

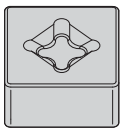


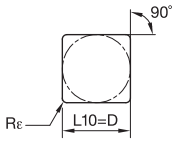


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGA120412T01020	SNGA433T0420	12,70	1/2	12,70	.500	1,2	3/64	●	●	–

NOTE: For toolholders and boring bars, see pages B109–B120.



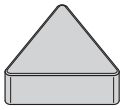


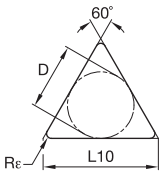
SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGX120712T01020	SNGX453T0420	12,70	1/2	12,70	.500	1,2	3/64	–	●	–
SNGX120716T01020	SNGX454T0420	12,70	1/2	12,70	.500	1,6	1/16	–	●	–

● first choice
○ alternate choice

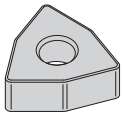
P			
M			
K			
N			
S	●	●	○
H	○		●

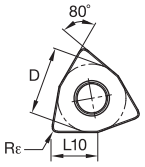




TNGN/TNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
TNGN220412T01020	**TNG433T0420**	12,70	1/2	22,00	.866	1,2	3/64	●	–	–
TNGN220416T01020	**TNG434T0420**	12,70	1/2	22,00	.866	1,6	1/16	●	–	–

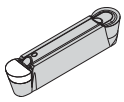


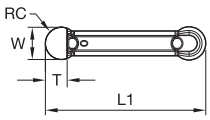


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
WNGA080408T01020	**WNGA432T0420**	12,70	1/2	8,69	.342	0,8	1/32	–	●	–
WNGA080416T01020	**WNGA434T0420**	12,70	1/2	8,69	.342	1,6	1/16	–	●	–

NOTE: For toolholders and boring bars, see page B163.





● first choice
○ alternate choice

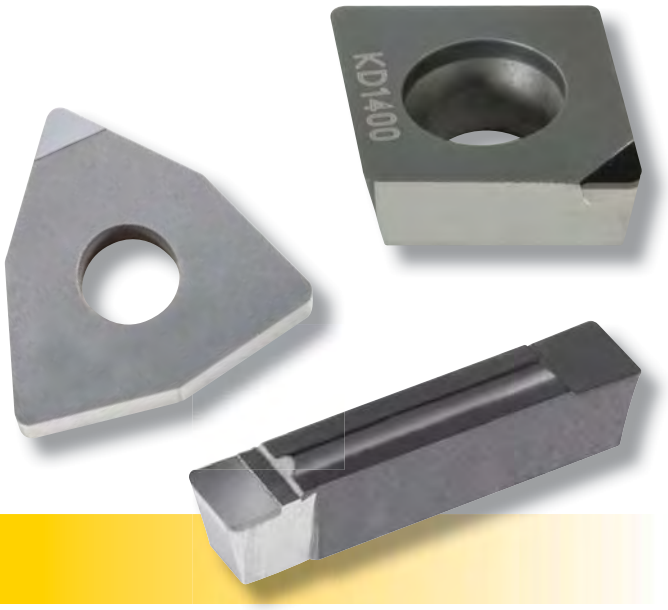
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Flat Top Full Radius Precision Ground • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	.118	1,5	.059	20	.78	2,2	.087	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	.157	2,0	.079	20	.78	2,9	.114	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	.197	2,5	.099	25	.98	3,7	.146	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	.236	3,0	.118	30	1.18	4,4	.173	–	–	–	–	–	–	–	–	–	–	●	–	–

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.

Polycrystalline Diamond Inserts



Polycrystalline Diamond (PCD) Inserts

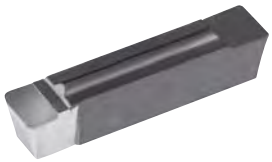
- Use for machining high-temperature alloys and in targeted machining of non-ferrous materials.
- Significant hardness advantage compared to carbide inserts.
- Increased productivity through higher speeds and longer tool life.
- Best used in processing materials that cannot be machined with conventional tooling.

KD1400™ Grade

- Ideal for general-purpose turning of non-ferrous materials.
- Use on low to medium silicon-content aluminum alloys, non-metallics, copper, and brass- and zinc-based alloys.
- Excellent mechanical shock resistance.
- Use in a wide range of continuous to interrupted cuts where superior surface finished is needed.

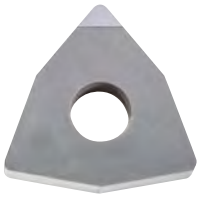
KD1405™ Grade

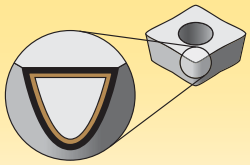
- The most abrasion-resistant tool material for non-ferrous and non-metallic materials from Kennametal.
- Use when abrasion resistance is needed in the application.
- CVD diamond grade.



KD1425™ Grade

- Engineered for extreme abrasion resistance.
- Good edge strength in demanding applications.
- Ideal choice for high-silicon aluminum alloys, bi-metallic materials, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.



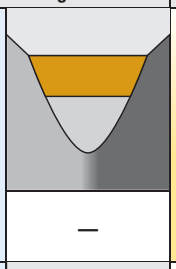
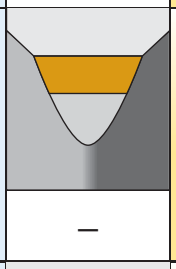
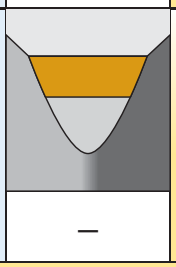


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

PCD — Polycrystalline Diamond Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KD1400 	**Composition:** An ultra-fine-grain, polycrystalline diamond (PCD) tip brazed onto a carbide substrate. **Application:** Designed for general-purpose turning of primarily non-ferrous materials. It can be applied over a wide range of continuous to interrupted cuts where superior surface finish is needed. Use on low to medium silicon-content aluminum alloys, non-metallics, copper, and brass- and zincbased alloys. The ultra-fine-grain diamond particle size enables superior surface finishes while ensuring the best mechanical shock resistance of any PCD cutting tool.										
		N									
		S									
KD1405 	**Composition:** A pure CVD-deposited diamond-sheet tool brazed directly to a carbide substrate. **Application:** KD1405™ is the best Kennametal abrasion-resistant tool material for non-ferrous and non-metallic materials. Best applied when abrasion resistance is the desired benefit.										
		N									
		S									
KD1425 	**Composition:** A multimodal PCD grade with a range of grain sizes brazed onto a carbide substrate. **Application:** Engineered for extreme abrasion resistance, combined with good edge strength for demanding applications. An ideal choice for high-silicon aluminum alloys, bi-metallic (AL/GCI) materials, MMC, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.										
		N									

Beyond™ PVD Grades

Beyond™ advanced PVD coatings are well suited to resist high temperatures associated with machining tough alloys. These coatings offer increased tool life and a boost in productivity to the general engineering, transportation, aerospace, energy, and earthworks markets. Use the strength of Beyond PVD coatings and the broad product offering to perform turning, grooving, and cut-off operations in a wide array of materials and applications. Beyond PVD coatings help to maintain consistent chip control and minimize insert edge wear.

beyond™

KCU10™ Grade

- PVD-coated grade with excellent wear resistance. Finishing to medium applications.
- Use in all materials, especially stainless steels and high-temp alloys.

KCU25™ Grade

- PVD-coated grade with superior edge toughness and excellent wear resistance. Medium to roughing applications.
- Use in all materials.

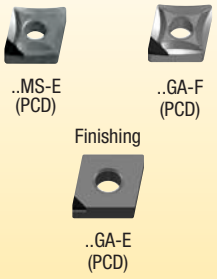
Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

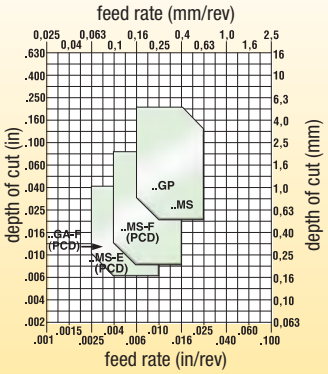
KENNAMETAL®

kennametal.com

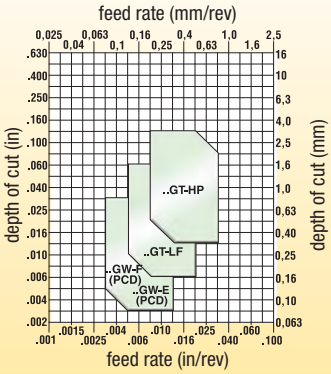
Step 1 • Select the insert geometry

Negative Inserts





Positive Inserts



Step 2 • Select the grade

		Negative Insert Geometry			Positive Insert Geometry	
cutting condition		**..GA-E (PCD)**	**..MS-E (PCD)**	**..GA-F (PCD)**	**..GW-E (PCD)**	**..GW-F (PCD)**
heavily interrupted cut		–	–	**KD1400**	–	**KD1400**
lightly interrupted cut		**KD1405**	**KD1405**	**KD1400**	**KD1405**	**KD1400**
varying depth of cut, casting, or forging skin		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**
smooth cut, pre-turned surface		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**

Step 3 • Selecting the cutting speed

Low-Silicon Aluminum Alloys
(hypoeutectic <12.2% Si) and Magnesium Alloys

		speed — m/min (SFM)										Starting Conditions	
material group	**grade**	**250 (800)**	**500 (1600)**	**750 (2400)**	**1000 (3200)**	**1250 (4000)**	**1500 (4800)**	**1750 (5600)**	**2000 (6400)**	**2250 (7200)**	**2500 (8000)**	**m/min**	**SFM**
N1	**KD1400**			◁▷								765	2500

High-Silicon Aluminum Alloys
(hypereutectic >12.2% Si) and Magnesium Alloys

		speed — m/min (SFM)				Starting Conditions	
material group	**grade**	**250 (800)**	**500 (1600)**	**750 (2400)**	**1000 (3200)**	**m/min**	**SFM**
N3	**KD1405**		◁▷			550	1800
	KD1425		◁▷			765	2500

Additional cutting speed recommendations for miscellaneous workpiece materials

Copper-, Brass-, Zinc-Based on a Machinability Index Range of 70–100 — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KD1400/KD1405		◁▷			520	1700
	KD1425		◁▷			500	1600

Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass, and Glass — speed — m/min (SFM) — Starting Conditions ◁▷

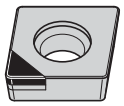
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KD1400/KD1405		◁▷			400	1300
	KD1425	◁▷				365	1200

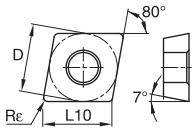
Carbon and Graphite Composites: Brush Alloys, Kevlar, and Graphite (280–400 HB) (30–43 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KD1400/KD1405			◁▷		760	2500

MMCs (Aluminum-Based Metal Matrix Composites) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N7	KD1405		◁▷			460	1500
	KD1400		◁▷			365	1200





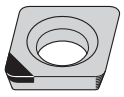
● first choice
○ alternate choice

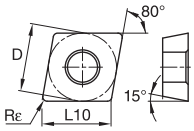
P			
M			
K			
N	●	○	●
S		●	●
H			

CCGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CCGW060204FST	CCGW2151FST	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CCGW09T304FST	CCGW3251FST	9,53	3/8	9,67	.381	0,4	1/64	●	–	●
CCGW09T308FST	CCGW3252FST	9,53	3/8	9,67	.381	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B193–B198.

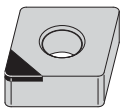


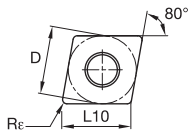


CDHB-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CDHBS4T002FST	CDHB120605FST	3,97	.1562	4,03	.159	0,2	.007	●	–	●
CDHBS4T0X0FST	CDHB1206X0FST	3,97	5/32	4,03	.159	0,1	.002	●	–	–

NOTE: For toolholders and boring bars, see pages B200–B204.

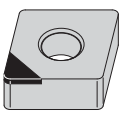


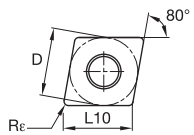


CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNGA120404E	CNGA431E	12,70	1/2	12,90	.508	0,4	1/64	–	●	–
CNGA120408E	CNGA432E	12,70	1/2	12,90	.508	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B58–B76.

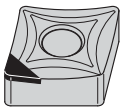


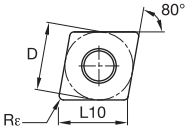


CNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNGA120404FST	CNGA431FST	12,70	1/2	12,90	.508	0,4	1/64	●	–	●
CNGA120408FST	CNGA432FST	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.





● first choice
○ alternate choice

P			
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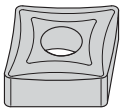
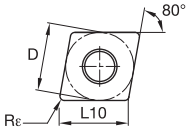
H			

CNMS-E

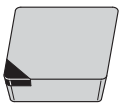
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNMS120408E	CNMS432E	12,70	1/2	12,90	.508	0,8	1/32	–	●	–

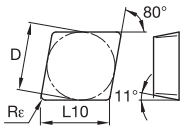




CNMS-FST

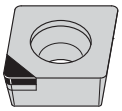
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNMS120404FST	CNMS431FST	12,70	1/2	12,90	.508	0,4	1/64	●	–	–
CNMS120408FST	CNMS432FST	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

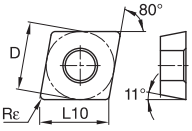




CPGN/CPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGN120304F	CPG421F	12,70	1/2	12,90	.508	0,4	1/64	–	–	●
CPGN120308F	CPG422F	12,70	1/2	12,90	.508	0,8	1/32	–	–	●

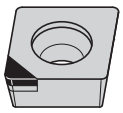


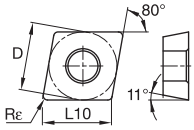


CPGW-E-F

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060204E	CPGW2151E	6,35	1/4	6,45	.254	0,4	1/64	–	●	–
CPGW09T304E	CPGW3251E	9,53	3/8	9,67	.381	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B209–B223.





● first choice
○ alternate choice

P			
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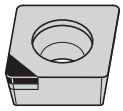
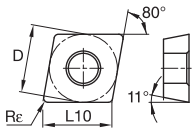
S		●	●
H			

CPGW-FWST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060204FWST	CPGW2151FWST	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CPGW09T308FWST	CPGW3252FWST	9,53	3/8	9,67	.381	0,8	1/32	●	–	●
CPGW120408FWST	CPGW432FWST	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B209–B223.

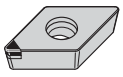


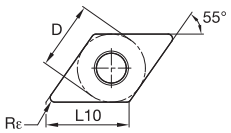


CPGW-ST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060202FST	CPGW21505FST	6,35	1/4	6,45	.254	0,2	.008	●	–	●
CPGW060204FST	CPGW2151FST	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CPGW060208FST	CPGW2152FST	6,35	1/4	6,45	.254	0,8	1/32	●	–	●
CPGW09T304FST	CPGW3251FST	9,53	3/8	9,67	.381	0,4	1/64	●	–	●
CPGW09T308FST	CPGW3252FST	9,53	3/8	9,67	.381	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B209–B223.

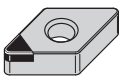


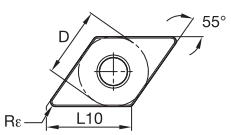


DCGW-ST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DCGW070204FST	DCGW2151FST	6,35	1/4	7,75	.305	0,4	1/64	●	–	●
DCGW11T304FST	DCGW3251FST	9,53	3/8	11,63	.458	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B227–B230.

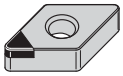


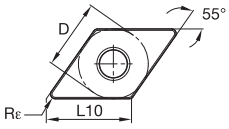


DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNGA150404E	DNGA431E	12,70	1/2	15,50	.610	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B87–B96.





● first choice
○ alternate choice

P			
M			
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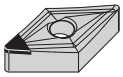
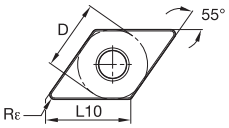
N	●	○	●
S		●	●
H			

DNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNGA150404FST	**DNGA431FST**	12,70	1/2	15,50	.610	0,4	1/64	●	–	●
DNGA150408FST	**DNGA432FST**	12,70	1/2	15,50	.610	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

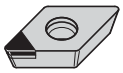


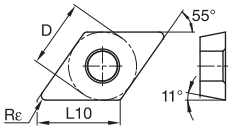


DNMS-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNMS150404FST	**DNMS431FST**	12,70	1/2	15,50	.610	0,4	1/64	●	–	–
DNMS150408FST	**DNMS432FST**	12,70	1/2	15,50	.610	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.





DPGW-E

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW11T304E	**DPGW3251E**	9,53	3/8	11,63	.458	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B234–B237.

● first choice
○ alternate choice

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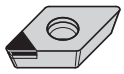
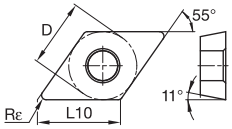
N	●	○	●
S		●	●
H			

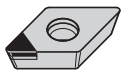


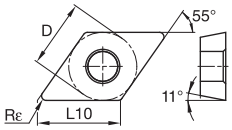


DPGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW070202FST	**DPGW21505FST**	6,35	1/4	7,75	.305	0,2	.008	●	–	●
DPGW070204FST	**DPGW2151FST**	6,35	1/4	7,75	.305	0,4	1/64	●	–	●
DPGW11T304FST	**DPGW3251FST**	9,53	3/8	11,63	.458	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B234–B237.

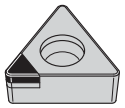


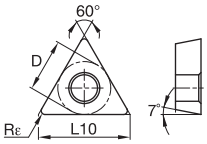


DPGW-FWST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW11T304FWST	**DPGW3251FWST**	9,53	3/8	11,63	.458	0,2	.007	–	–	●

NOTE: For toolholders and boring bars, see pages B234–B237.

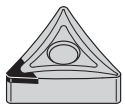


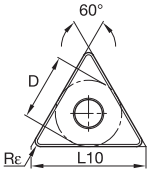


TCGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TCGW110204FST	**TCGW2151FST**	6,35	1/4	11,00	.433	0,4	1/64	●	–	●
TCGW16T304FST	**TCGW3251FST**	9,53	3/8	16,50	.650	0,4	1/64	●	–	–

NOTE: For toolholders and boring bars, see pages B259–B262.

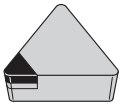


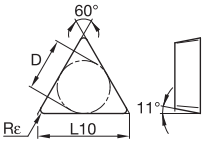


TNMS-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TNMS160404FST	**TNMS331FST**	9,53	3/8	16,50	.650	0,4	1/64	●	–	●
TNMS160408FST	**TNMS332FST**	9,53	3/8	16,50	.650	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.





● first choice
○ alternate choice

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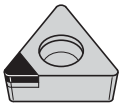
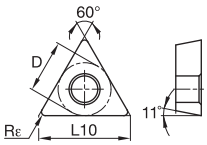
S		●	●
H			

TPGN/TPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TPGN110304F	TPG221F	6,35	1/4	11,00	.433	0,4	1/64	–	–	●
TPGN160304F	TPG321F	9,53	3/8	16,50	.650	0,4	1/64	–	–	●
TPGN160308F	TPG322F	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TPGN220408F	TPG432F	12,70	1/2	22,00	.866	0,8	1/32	–	–	●

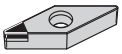


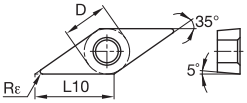


TPGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TPGW110204FST	TPGW2151FST	6,35	1/4	11,00	.433	0,4	1/64	●	–	●
TPGW110208FST	TPGW2152FST	6,35	1/4	11,00	.433	0,8	1/32	●	–	–
TPGW16T304FST	TPGW3251FST	9,53	3/8	16,50	.650	0,4	1/64	–	–	●
TPGW16T308FST	TPGW3252FST	9,53	3/8	16,50	.650	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B270–B279.





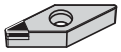
VBGW-E

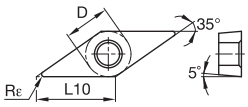
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VBGW160408E	VBGW332E	9,53	3/8	16,61	.654	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B282–B285.

● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

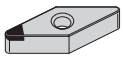


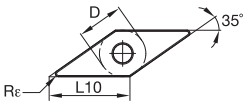


VBGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VBGW110304FST	**VBGW221FST**	6,35	1/4	11,07	.436	0,4	1/64	●	–	●
VBGW160404FST	**VBGW331FST**	9,53	3/8	16,61	.654	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

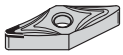


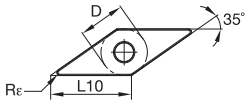


VNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNGA160404FST	**VNGA331FST**	9,53	3/8	16,61	.654	0,4	1/64	●	–	–
VNGA160408FST	**VNGA332FST**	9,53	3/8	16,61	.654	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

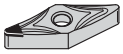


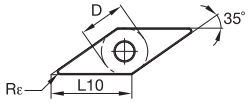


VNMS-E

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNMS160404E	**VNMS331E**	9,53	3/8	16,61	.654	0,4	1/64	–	●	–
VNMS160408E	**VNMS332E**	9,53	3/8	16,61	.654	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B150–B155.





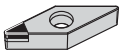
VNMS-FST

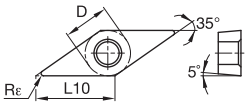
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNMS160404FST	**VNMS331FST**	9,53	3/8	16,61	.654	0,4	1/64	●	–	●
VNMS160408FST	**VNMS332FST**	9,53	3/8	16,61	.654	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

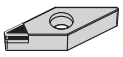


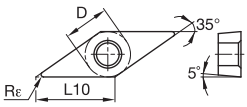


VPGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VCGN160404	VPGN331	9,53	3/8	16,61	.654	0,4	1/64	–	–	●
VCGN160408	VPGN332	9,53	3/8	16,61	.654	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

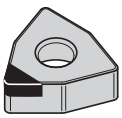


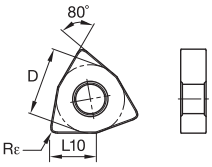


VPGR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VCGR160404	VPGR331	9,53	3/8	16,61	.654	0,4	1/64	–	–	●
VCGR160408	VPGR332	9,53	3/8	16,61	.654	0,8	1/32	–	–	●
VCGR160412	VPGR333	9,53	3/8	16,61	.654	1,2	3/64	–	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.



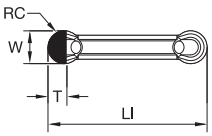


WNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
WNGA080408FST	WNGA432FST	12,70	1/2	8,69	.342	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see page B163.

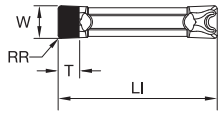
● first choice
○ alternate choice



Flat Top Full Radius Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	.197	2,5	.099	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

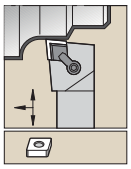
NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.

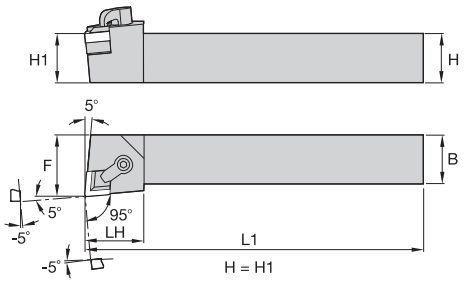


Flat Top Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	.118	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	.158	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	.197	0,8	.031	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

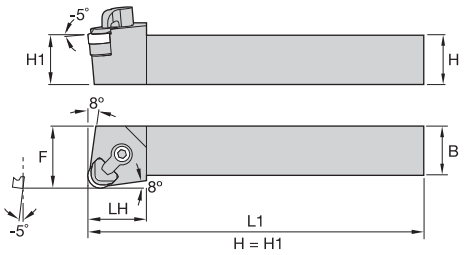
NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.





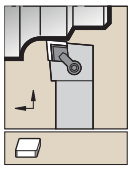
MCLN-C -5°

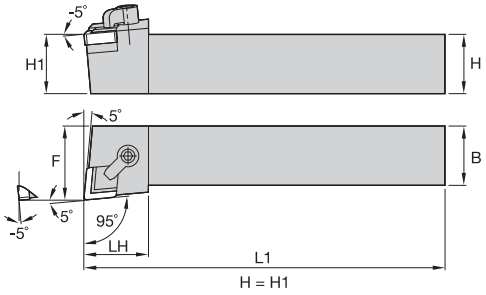
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096643	**MCLNRC164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN442**	**KL46L**	3/32	**CK21**	**STC20**	1/8



MRGN-C

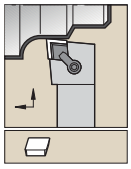
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096647	**MRGNRC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096648	**MRGNRC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096646	**MRGNRC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
left hand													
1096673	**MRGNLC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096674	**MRGNLC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096672	**MRGNLC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8

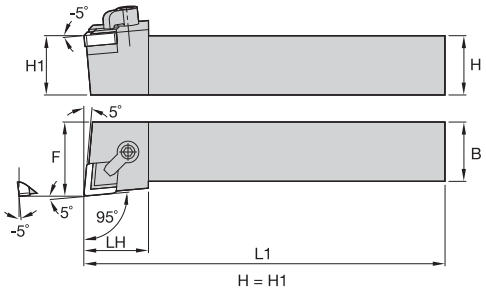




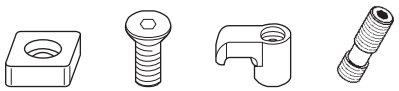
CCLN -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096722	**CCLNR164**	1.00	1.00	1.250	6.00	1.00	CN.422	**SM396**	**S111**	1/16	**CK21**	**STC20**	1/8
left hand													
1096717	**CCLNL164**	1.00	1.00	1.250	6.00	1.00	CN.422	**SM396**	**S111**	1/16	**CK21**	**STC20**	1/8

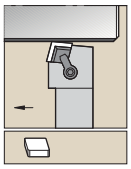


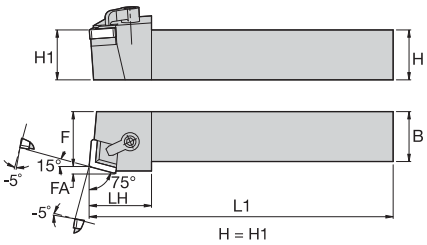


CCLN-P -5°



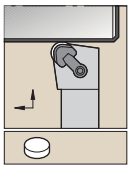
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand												
1096699	**CCLNRP163D**	1.00	1.00	1.250	6.00	1.25	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8
left hand												
1096698	**CCLNLP163D**	1.00	1.00	1.250	6.00	1.25	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8

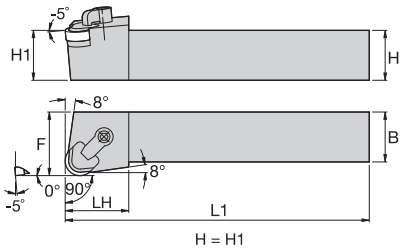




CCRN-P 15°

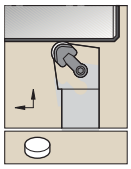
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand													
1096701	**CCRNRP163D**	1.00	1.00	1.161	6.00	1.25	.09	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8

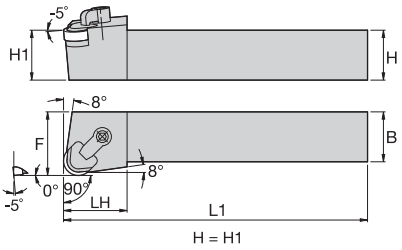




CRGN

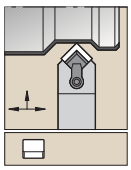
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096733	**CRGNR123**	.75	.75	.875	4.50	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096734	**CRGNR163**	1.00	1.00	1.125	6.00	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096735	**CRGNR164**	1.00	1.00	1.125	6.00	1.00	RN.42	**SM218**	**S111**	1/16	**CK12**	**STC4**	5/32
3870038	**CRGNR244F**	1.50	1.50	2.000	8.00	1.25	RNG45	**SM45**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096728	**CRGNL123**	.75	.75	.875	4.50	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096729	**CRGNL163**	1.00	1.00	1.125	6.00	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096730	**CRGNL164**	1.00	1.00	1.125	6.00	1.00	RN.42	**SM218**	**S111**	1/16	**CK12**	**STC4**	5/32

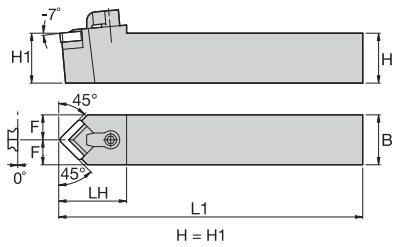




CRGN-P

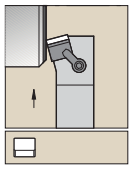
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand												
1096703	**CRGNRP163D**	1.00	1.00	1.250	6.00	.75	RNM32	**SM434**	**SL344**	**CK20**	**STC20**	1/8
1096705	**CRGNRP164D**	1.00	1.00	1.250	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32
1096707	**CRGNRP204D**	1.25	1.25	1.500	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32
left hand												
1096706	**CRGNLP204D**	1.25	1.25	1.500	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32

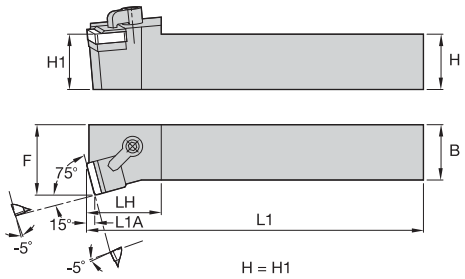




CSDN 45°

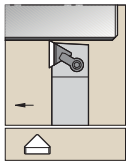
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096772	**CSDNN124**	.75	.75	.375	4.50	1.31	SN.422	**SM47**	**S111**	1/16	**CK10**	**STC4**	5/32
1096739	**CSDNN164**	1.00	1.00	.500	6.00	1.31	SN.422	**SM47**	**S111**	1/16	**CK9**	**STC4**	5/32

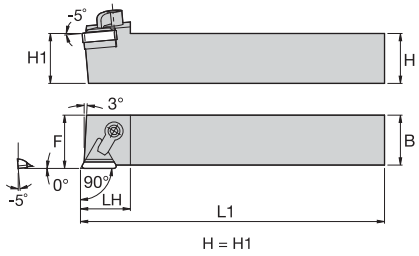




CSKN 15°

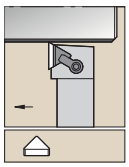
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096750	**CSKNR856**	1.25	1.00	1.190	6.00	1.50	.18	SN.633	**SM216**	**S125**	3/32	**CK9**	**STC4**	5/32

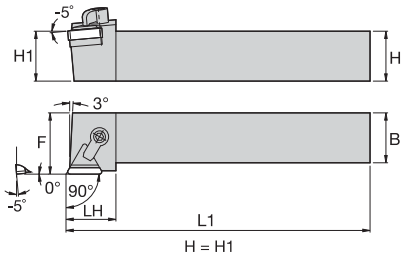




CTAN 0°

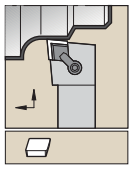
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096798	**CTANR123**	.75	.75	.75	4.50	1.06	TN.322	**SM48**	**S111**	1/16	**CK10**	**STC4**	5/32

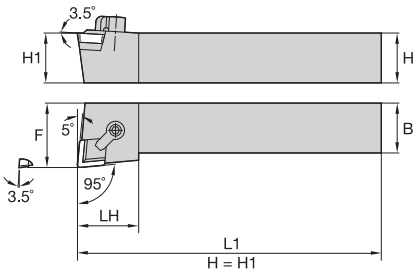




CTGN 0°

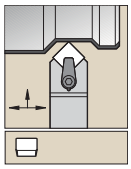
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096887	**CTGNR164**	1.00	1.00	1.250	6.00	1.19	TN.432	**SM26**	**S125**	3/32	**CK9**	**STC4**	5/32

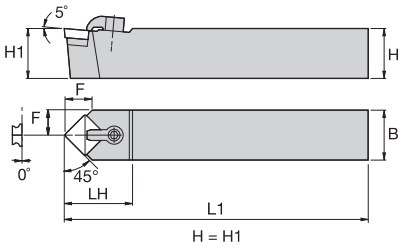




CCLP -5°

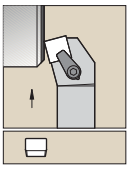
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096902	**CCLPR084V**	.50	.50	.750	3.50	1.00	CP.422	**SM369**	**S19**	1/16	**CK7**	**STC9**	3/32
1096903	**CCLPR124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096904	**CCLPR164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096898	**CCLPL124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096899	**CCLPL164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32

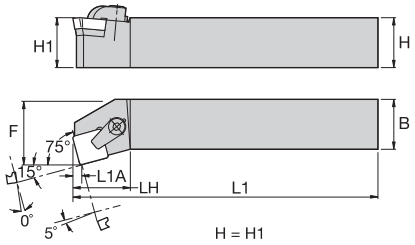




CSDP 45°

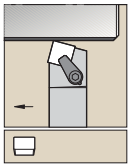
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096909	**CSDPN103**	.63	.63	.312	4.50	.94	SP.322	**SM120**	**SL344**	—	**CK7**	**STC5**	3/32
1096910	**CSDPN124**	.75	.75	.375	4.50	1.38	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096912	**CSDPN644**	1.00	.75	.375	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096911	**CSDPN164**	1.00	1.00	.500	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096914	**CSDPN856**	1.25	1.00	.500	6.00	1.82	SP.633	**SM36**	**S125**	3/32	**CK29**	**STC19**	3/16

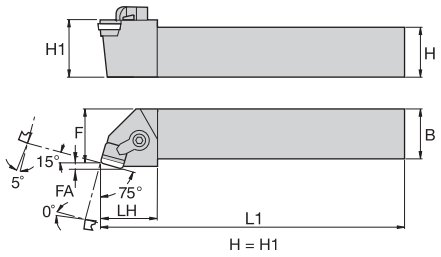




CSKP 15°

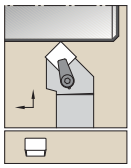
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096920	CSKPR164D	1.00	1.00	1.250	6.00	1.13	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
left hand														
1096917	CSKPL164D	1.00	1.00	1.250	6.00	1.13	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32

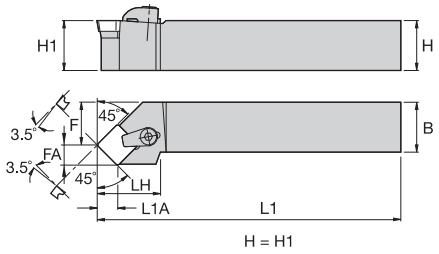




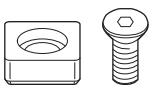
CSRP 15°

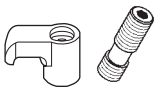
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096932	CSRPR164D	1.00	1.00	1.048	6.00	1.19	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
1096934	CSRPR866E	1.50	1.00	1.060	7.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32
left hand														
1096925	CSRPL124B	.75	.75	.855	4.50	1.19	.12	SP.422	SM40	S111	1/16	CK10	STC8	5/32
1096926	CSRPL164D	1.00	1.00	1.048	6.00	1.19	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
1096927	CSRPL856D	1.25	1.00	1.060	6.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32
1096928	CSRPL866E	1.50	1.00	1.060	7.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32



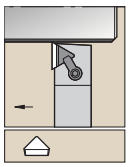


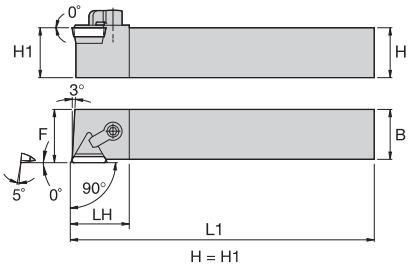
CSSP 45°



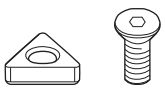


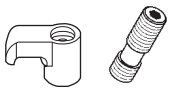
order number	catalog number	H	B	F	L1	LH	FA	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1085234	**CSwSPR164D**	1.00	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096937	**CSSPR854D**	1.25	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand															
1096691	**CSSPL164D**	1.00	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096935	**CSSPL854D**	1.25	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096693	**CSSPL856D**	1.25	1.00	1.020	6.00	1.50	.48	.53	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32



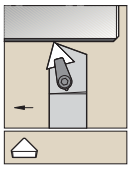


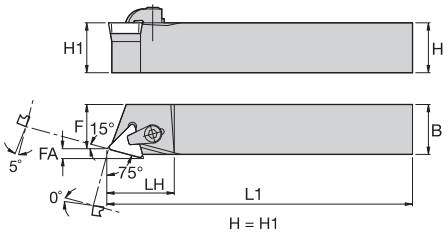
CTAP 0°





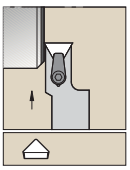
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096948	**CTAPR082B**	.50	.50	.500	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1096949	**CTAPR102B**	.63	.63	.625	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC5**	3/32
1096950	**CTAPR123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096951	**CTAPR163D**	1.00	1.00	1.000	6.00	1.06	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096952	**CTAPR854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096941	**CTAPL123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096946	**CTAPL854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

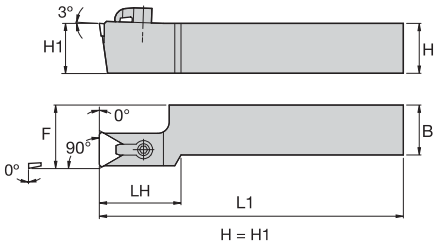




CTBP 15°

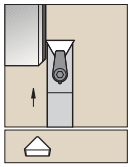
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096959	**CTBPR123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096960	**CTBPR163D**	1.00	1.00	.850	6.00	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand														
1096955	**CTBPL123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32

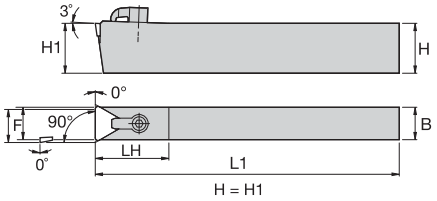




CTCP 0°

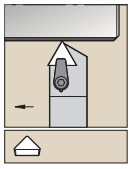
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096976	**CTCPR123B**	.75	.75	1.000	4.50	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096977	**CTCPR163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096978	**CTCPR164C**	1.00	1.00	1.250	5.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096979	**CTCPR164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096980	**CTCPR204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096982	**CTCPR244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
left hand													
1096963	**CTCPL163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096965	**CTCPL164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096966	**CTCPL204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096968	**CTCPL244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

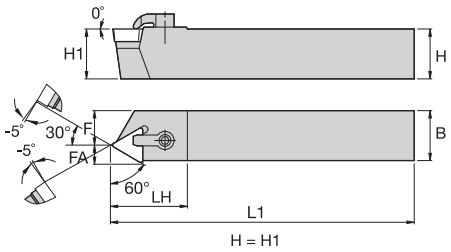




CTCPN 0°

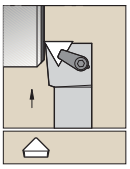
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096972	**CTCPN443**	1.00	.50	.542	8.00	1.19	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096971	**CTCPN124**	.75	.75	.782	6.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC8**	5/32
1096973	**CTCPN644**	1.00	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096974	**CTCPN664**	1.50	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

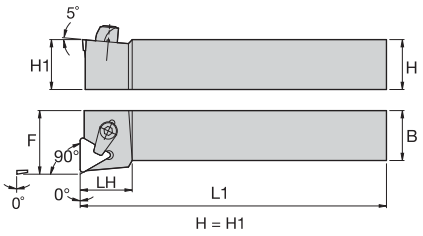




CTEP 30°

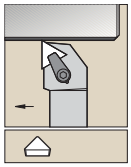
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096985	**CTEPR123B**	.75	.75	.460	4.50	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096992	**CTEPR163D**	1.00	1.00	.700	6.00	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096993	**CTEPR854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096989	**CTEPL854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

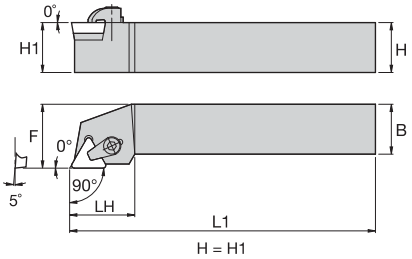




CTFP 0°

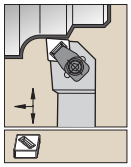
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1097008	**CTFPR082V**	.50	.50	.750	3.50	.56	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097011	**CTFPR123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097013	**CTFPR163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097014	**CTFPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097015	**CTFPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097018	**CTFPR854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097016	**CTFPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096997	**CTFPL123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096999	**CTFPL163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097001	**CTFPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097004	**CTFPL854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

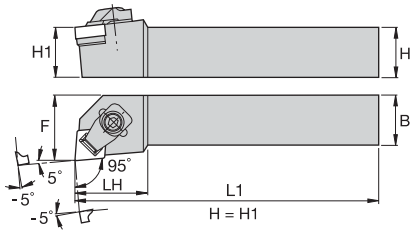




CTGP 0°

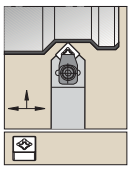
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096696	**CTGPR082B**	.50	.50	.750	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097035	**CTGPR102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097036	**CTGPR123A**	.75	.75	1.000	4.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097037	**CTGPR123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097038	**CTGPR163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097039	**CTGPR163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097041	**CTGPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097042	**CTGPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097043	**CTGPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1097021	**CTGPL102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097022	**CTGPL123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097023	**CTGPL163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097024	**CTGPL163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097026	**CTGPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097027	**CTGPL204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

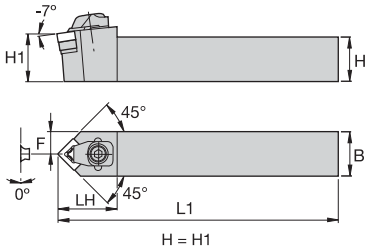




CCLN-MX -5°

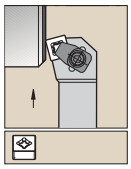
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1540438	**CCLNR164DMX5**	1.00	1.00	1.250	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540445	**CCLNR204DMX5**	1.25	1.25	1.500	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
left hand												
1540443	**CCLNL164DMX5**	1.00	1.00	1.250	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540447	**CCLNL204DMX5**	1.25	1.25	1.500	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25

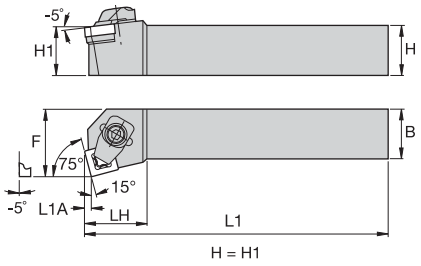




CSDN-MX 45°

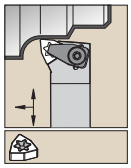
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
1540492	**CSDNN164DMX5**	1.00	1.00	.500	6.00	1.38	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25

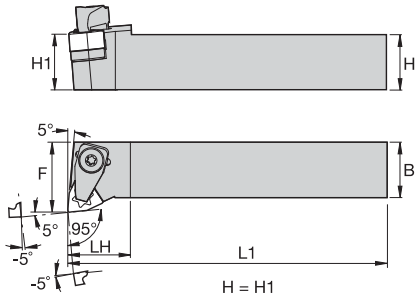




CSKN-MX 15°

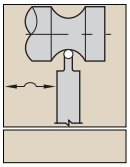
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand													
1540495	**CSKNR164DMX5**	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25
left hand													
1541374	**CSKNL164DMX5**	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25

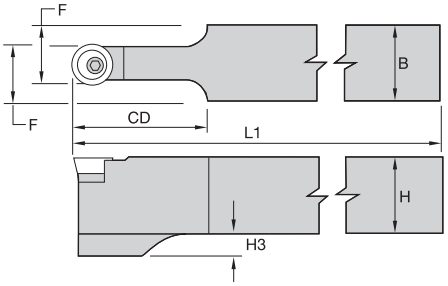




CWLN-MX -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1873125	**CWLNR164DMX5**	1.00	1.00	1.250	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
1873184	**CWLNR204DMX5**	1.25	1.25	1.500	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
left hand												
1873128	**CWLNL164DMX5**	1.00	1.00	1.250	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
1873185	**CWLNL204DMX5**	1.25	1.25	1.500	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25

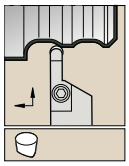


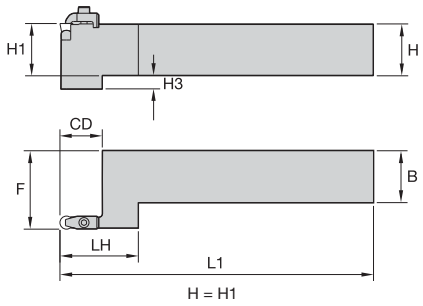


Bevel Lock

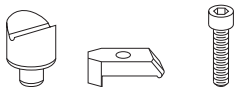
order number	catalog number	H	B	F	L1	CD	H3	gage insert	shim	lock pin	hex
1095802	**PROON164D**	1.00	1.00	.750	6.00	1.86	—	RC..43	**SMRN42B**	**BP46**	3/32
1095803	**PROON204D**	1.25	1.25	.875	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095806	**PROON244D**	1.50	1.50	1.000	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095804	**PROON206D**	1.25	1.25	1.000	6.00	2.36	—	RC..64	**SMRN63B**	**BP68**	1/8
1095808	**PROON246**	1.50	1.50	1.125	8.00	2.37	—	RC..64	**SMRN63B**	**BP68**	1/8
1095805	**PROON208D**	1.25	1.25	1.125	6.00	2.32	.25	RC..86	**SMRN84B**	**BP812**	9/64

NOTE: Order numbers 1095802, 1095803, and 1095806 accept RCGH-43 inserts only. RCMH-43 inserts will not fit.

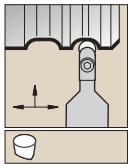


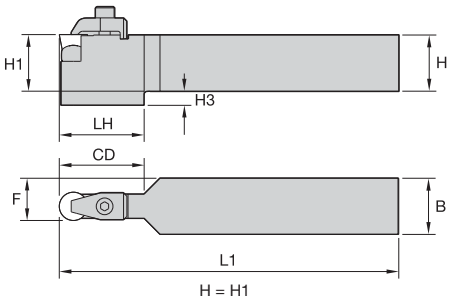


411-VRS

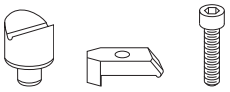


order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
right hand													
1298873	**4111492VRS**	1.00	1.00	1.500	6.00	1.50	.75	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
1298876	**4111573VRS**	1.00	1.00	1.000	6.00	1.19	1.13	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1156449	**4111593VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298882	**4111654VRS**	1.00	1.00	1.000	6.00	1.56	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
1298884	**4111674VRS**	1.25	1.25	1.250	6.00	1.56	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand													
1298879	**4111603VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298883	**4111664VRS**	1.00	1.00	1.000	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm



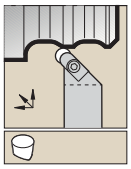


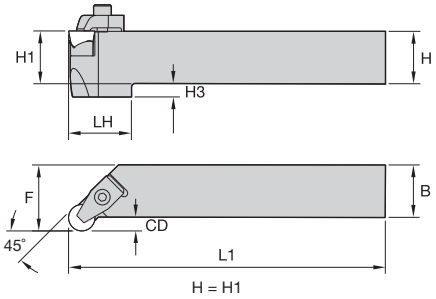
CRDP



order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
3641572	**CRDPN162DV**	1.00	1.00	.496	6.00	—	.75	—	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641593	**CRDPN163DV**	1.00	1.00	.496	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641594	**CRDPN203DV**	1.25	1.25	.621	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641595	**CRDPN164DV**	1.00	1.00	.496	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
3641597	**CRDPN204DV**	1.25	1.25	.621	6.00	—	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm

NOTE: CRDP toolholders are able to use RPGX and RCGX insert styles.

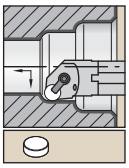




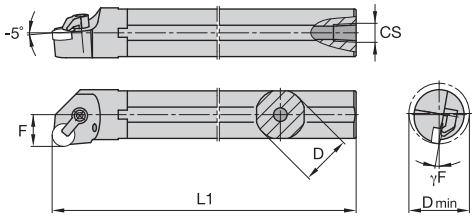
CRGP

order number	catalog number	H	B	F	L1	CD	gage insert	nest	clamp	clamp screw	hex
right hand											
3641603	**CRGPR162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641611	**CRGPR204DV**	1.25	1.25	1.500	6.00	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand											
3641604	**CRGPL162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641608	**CRGPL203DV**	1.25	1.25	1.500	6.00	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm

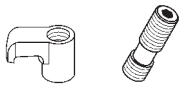
NOTE: CRGP toolholders are able to use RPGX and RCGX insert styles.



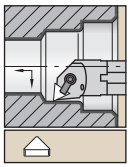
Steel shank with through coolant.



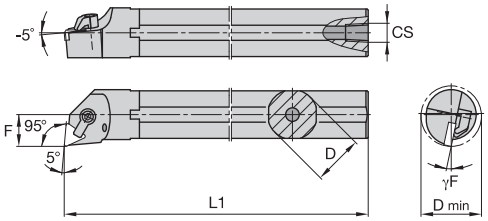
A-CRGN



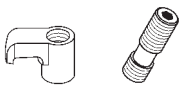
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp	clamp screw	hex
right hand											
1094792	**A16CRGNR3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	RN.32	**CK7LP**	**STC9**	3/32
left hand											
1094793	**A16CRGNL3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	RN.32	**CK7LP**	**STC9**	3/32



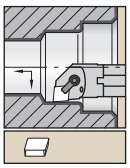
Steel shank with through coolant.



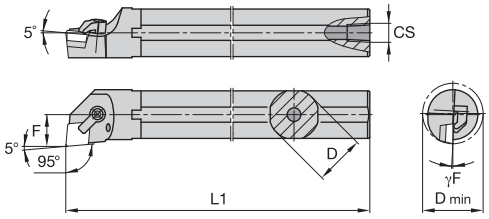
A-CTLN-5°



order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp	clamp screw	hex
right hand											
1094818	**A10SCTLNR2**	.625	.770	.406	10.00	1/8-27 NPT	-12.0	TN.221	**CK7LP**	**STC9**	3/32
left hand											
1094816	**A08RCTLNR2**	.500	.600	.312	8.00	1/16-27 NPT	-14.0	TN.221	**CK27**	**STC27**	5/64
1094819	**A10CTLNL2**	.625	.770	.406	10.00	1/8-27 NPT	-12.0	TN.221	**CK7LP**	**STC9**	3/32

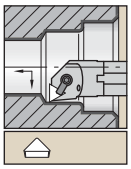


Steel shank with through coolant.

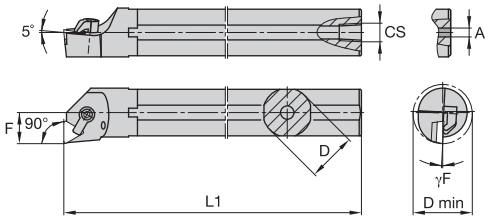


A-CCLP-5°

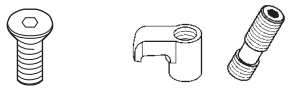
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1094896	**A16CCLPR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-3.0	CP.422	**SM369**	**S19**	1/16	**CK20**	**STC11**	1/8
1094900	**A24CCLPR4**	1.500	1.760	.890	14.00	1/4-18 NPT	.0	CP.422	**SM369**	**S19**	1/16	**CK22**	**STC26**	1/8



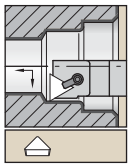
Steel shank with through coolant.



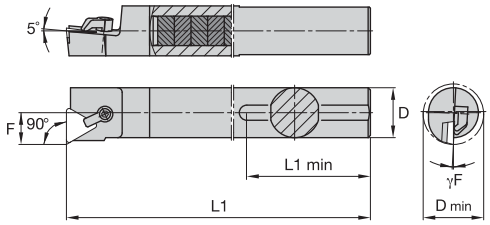
A-CTFP 0°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1094872	**A06RCTFPR2**	.375	.480	.250	6.00	.13	—	-3.0	TPG.2151	**—**	**—**	**—**	**CK27**	**STC27**	5/64
1094874	**A08RCTFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	**—**	**CK27**	**STC27**	5/64
1094876	**A10SCTFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	**—**	**CK19**	**STC9**	3/32
1094878	**A12SCTFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	**—**	**CK7**	**STC9**	3/32
1094880	**A16TCTFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	TP.322	**—**	**—**	**—**	**CK20**	**STC11**	1/8
1094882	**A20UCTFPR3**	1.250	1.470	.765	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094884	**A24CTFPR3**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094888	**A24CTFPR4**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1094892	**A32CTFPR4**	2.000	2.400	1.281	16.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand															
1094875	**A08RCTFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	**—**	**CK27**	**STC27**	5/64
1094877	**A10CTFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	**—**	**CK19**	**STC9**	3/32
1094879	**A12SCTFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	**—**	**CK7**	**STC9**	3/32
1094889	**A24CTFPL4**	1.500	1.760	.890	14.00	—	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32

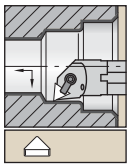


DeVibrator shank.

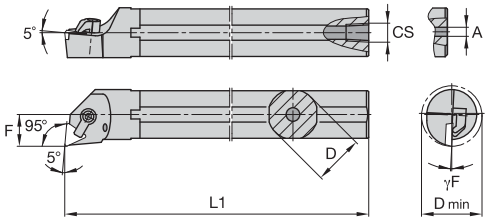


B-CTFP 0°

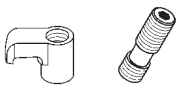
order number	catalog number	D	D min	F	L1	L1 min	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1095829	**B10CTFPR2**	.625	.770	.406	10.00	5.25	.0	TP.221	—	—	—	**CK19**	**STC9**	3/32
1095830	**B12CTFPR3**	.750	.930	.500	10.00	5.75	.0	TP.322	—	—	—	**CK7**	**STC9**	3/32
1095831	**B14CTFPR3**	.875	1.060	.516	10.00	6.25	.0	TP.322	—	—	—	**CK20**	**STC11**	1/8
1095832	**B16CTFPR3**	1.000	1.200	.640	12.00	6.50	.0	TP.322	—	—	—	**CK20**	**STC11**	1/8
1095833	**B20CTFPR3**	1.250	1.470	.765	14.00	8.25	-3.0	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095834	**B24CTFPR4**	1.500	1.760	.890	15.50	9.75	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1095836	**B32CTFPR4**	2.000	2.400	1.281	21.50	12.25	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



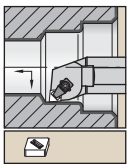
Steel shank with through coolant.



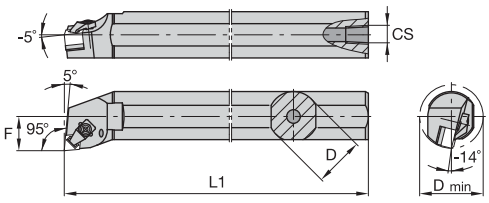
A-CTLP -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	clamp	clamp screw	hex
right hand												
1094904	**A06MCTLPR2**	.375	.480	.250	6.00	.13	—	-3.0	TP.2151	**CK27**	**STC27**	5/64
1094906	**A08RCTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
1094908	**A12SCTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094910	**A16CTLPR3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8
left hand												
1094907	**A08RCTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
3994022	**A10SCTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	TP.221	**CK19**	**STC9**	3/32
1094909	**A12SCTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094863	**A16CTLPL3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8

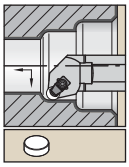


Steel shank with through coolant.

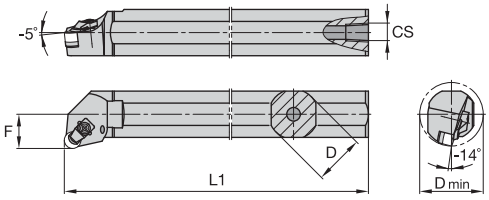


A-CCLN-MX -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1540531	**A24CCLNR4MX5**	1.500	2.165	.890	14.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540552	**A32CCLNR4MX5**	2.000	2.323	1.281	16.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
left hand												
1541742	**A24CCLNL4MX5**	1.500	2.165	.890	14.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1541743	**A32CCLNL4MX5**	2.000	2.323	1.281	16.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25

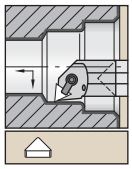


Steel shank with through coolant.

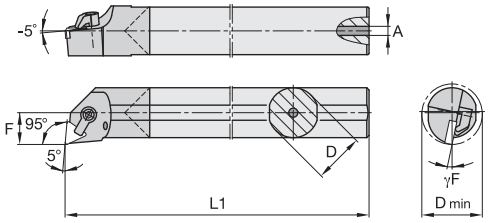


A-CRGN-MN

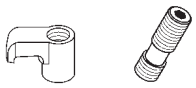
order number	catalog number	D	D min	F	L1	CS	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1558021	**A32CRGNR4MN5**	2.000	2.559	1.281	16.00	1/4-18 NPT	RN.45	**552.230**	**554.260**	T20	**551.343**	T25



Carbide shank with through coolant.

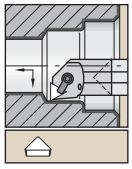


E-CTLN-5°

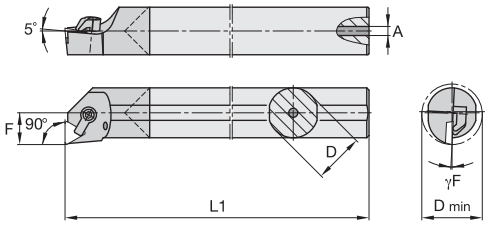


order number	catalog number	D	D min	F	L1	A	gage insert	clamp	clamp screw	hex
right hand										
1152668	**E12CTLNR2**	.750	.930	.500	10.00	.28	TN.221	**CK7LP**	**STC9**	3/32

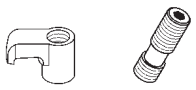
Kendex Positive Inserts



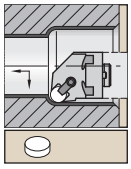
Carbide shank with through coolant.



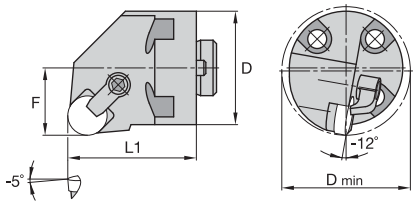
E-CTFP 0°



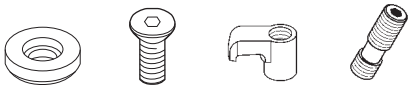
order number	catalog number	D	D min	F	L1	A	γF°	gage insert	clamp	clamp screw	hex
right hand											
1152584	**E08KCTFPR2**	.500	.600	.312	5.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152586	**E08RCTFPR2**	.500	.600	.312	8.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152588	**E10MCTFPR2**	.625	.770	.406	6.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152590	**E10SCTFPR2**	.625	.770	.406	10.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152592	**E12QCTFPR3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152594	**E12SCTFPR3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152598	**E16TCTFPR3**	1.000	1.200	.640	12.00	.31	.0	TP.322	**CK20**	**STC11**	1/8
left hand											
1152593	**E12QCTFPL3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152595	**E12SCTFPL3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32



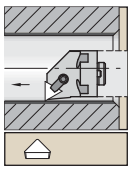
With through coolant.



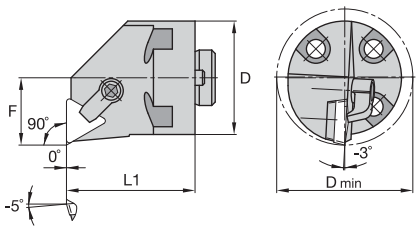
H-CRGN



order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand											
1095001	**H24CRGNR4**	1.500	1.760	.890	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32
1095003	**H32CRGNR4**	2.000	2.400	1.281	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32

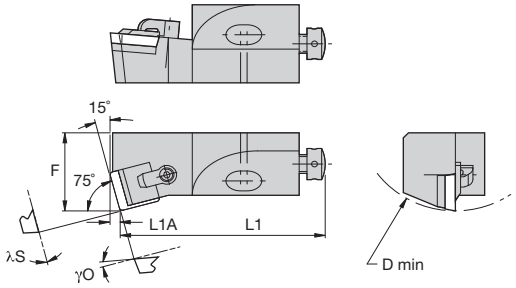


With through coolant.



H-CTFP 0°

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand												
1095321	**H20CTFPR3W**	1.250	1.470	.765	1.63	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095542	**H40CTFPR4W**	2.500	3.030	1.531	1.63	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC4**	5/32

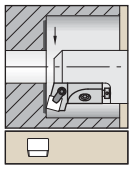


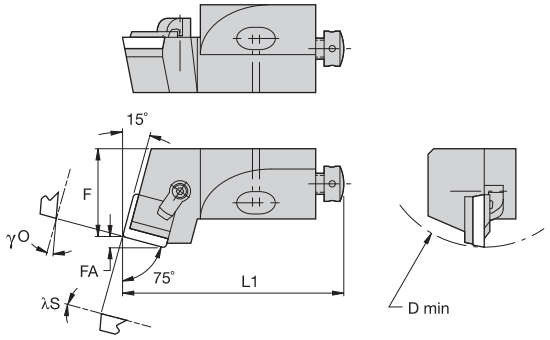
CSKP 15°

order number	catalog number	D min	F	L1	L1A	λS°	γO°	gage insert
right hand								
1261328	**CSKPR12CA4**	1.969	.787	2.17	.12	.0	5.0	SP..120308/SP..422

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	—	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



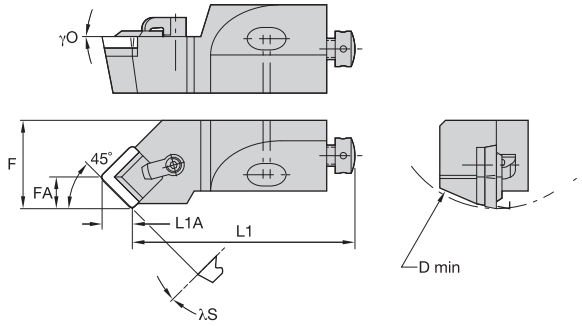


CSRP -15°

order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331132	**CSRPR10CA3**	1.575	.551	.087	1.97	.0	.0	SP..090308/SP..322

Spare Parts

D min	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



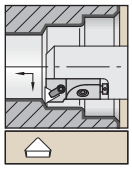
CSSP 45°

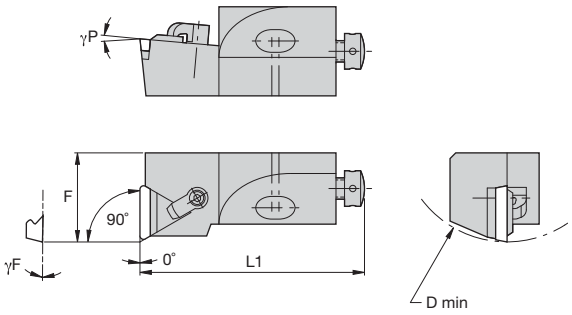
order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1261379	**CSSPR10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322
left hand									
3331143	**CSSPL10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322

NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	—	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

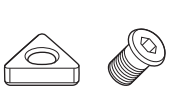




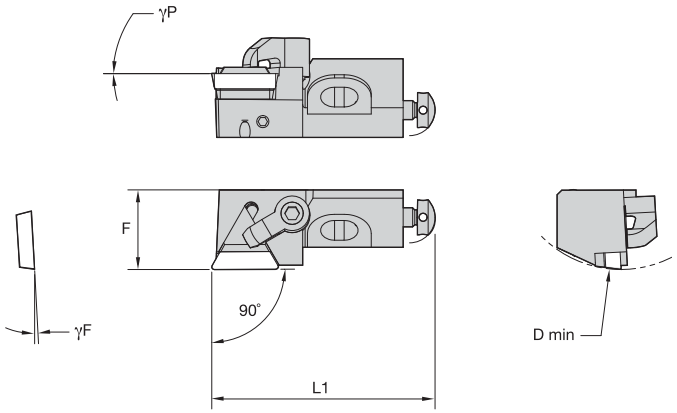
CTFP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2116588	**CTFPR10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA3**	1.969	.787	2.17	.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA4**	2.756	.984	2.76	.0	5.0	TP..220408/TP..432
left hand							
2114034	**CTFPL10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221

Spare Parts



D min	shim	shim screw	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
2.756	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**



CTGP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330191	**CTGPR12CA3**	1.969	.787	2.17	3.0	.0	TP..160308/TP..322

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

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kennametal.com

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Tunable Boring Bars

With Front End KM™ Quick-Change Adapter

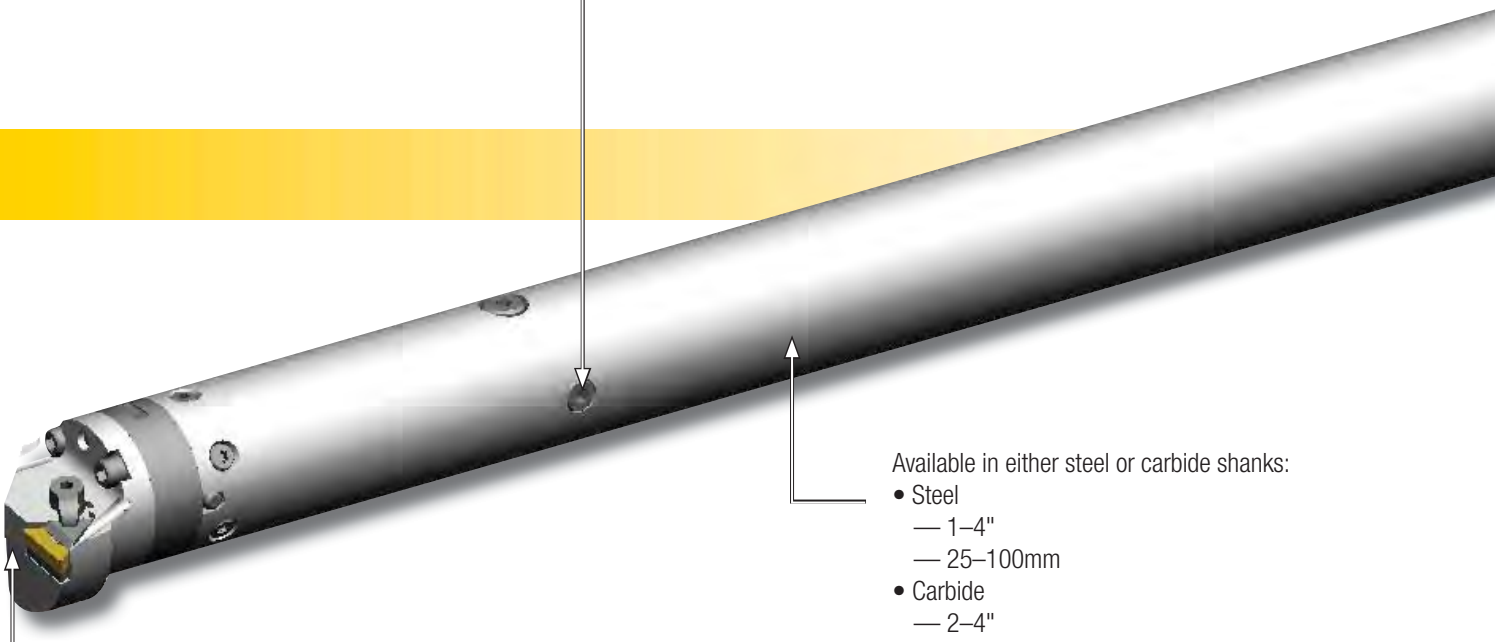
Kennametal offers a portfolio of tunable boring bars to increase productivity and solve chatter and other issues in long-boring operations.

Features, Functions, and Benefits

Features	Functions	Benefits
Robust internal clamping package	• Eliminates chatter and vibration. • Higher metal removal rate. • Larger depths of cut.	• High surface quality. • Low scrap rate. • Increased productivity. • Reduced noise exposure.
Tunable clamping mechanism	Bar can be tuned on the machine with just the turn of a screw.	Optimized damping characteristics for all kinds of machining conditions.
KM Quick-Change front end adapter	• Ridged clamping system. • Wide selection of KM Quick-Change cutting units.	Flexible system reduces tooling inventory and setup times.

Kennametal has made several key improvements to our current tunable boring bar portfolio:

- Enhanced standardized tuning process at the manufacturing plant ensures bars are accurately tuned at the maximum overhang.
- Nitriding of steel tunable boring bars to eliminate the effects of chip wash.
- Elimination of flats on tunable boring bars enhances stability and promotes proper toolholding.
- Addition of a small flat on the connection collar enables the use of a center-height tool.
- Enhanced assembly process.



Appearance of the Tunable Boring Bars

- NEW All tunable boring bars are tuned at the manufacturing plant and delivered to the customer with the tune specified at the maximum overhang of the bar.
- NEW All steel tunable bars undergo a nitriding process to help prevent chip wash damage to the bar and extend the bar's tool life.
- The nitride process of the black oxide steel tunable boring bars gives the shanks a bluish tint. These bars are through-coolant capable and use bolt-on heads or KM™ Quick-Change cutting adapters. There is a set screw to tune the bar.
- Tunable boring bars with carbide shanks will appear gray in color. They are through-coolant capable and use KM Quick-Change cutting adapters. There is a set screw to tune the bar.

Application Recommendations

- Choose a boring bar as big as possible, but make sure there is adequate space for the chip evacuation.
- Balance the machining settings to avoid uncontrollable vibrations.
- Keep the L/D ratio as small as possible.
- Bar comes pre-tuned, but can be adjusted by hand.

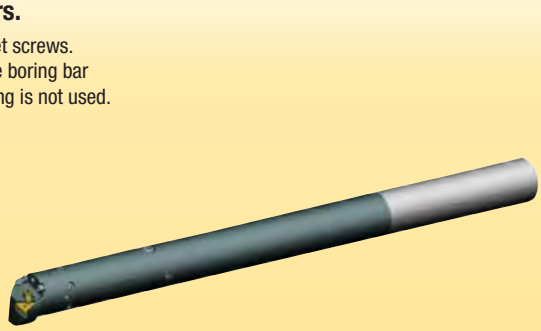
1 Holding the Bar

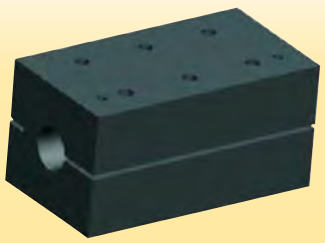
- Hold the bar correctly. Kennametal recommends holding the bar at 4 x D.

2 Kennametal recommends holding the boring bar in a split-style holder, with a split-style reducer if needed, with an ISO H7 diametral tolerance.

3 NEW: All flats have been removed from steel tunable boring bars.

- Do not clamp the bars with set screws.
- Kennametal cannot guarantee boring bar performance if proper clamping is not used.



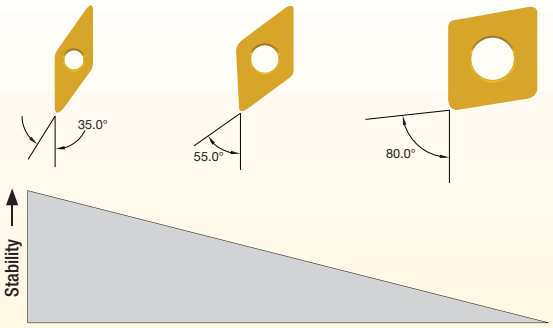


4 Tunable boring bars are designed and pre-tuned at the maximum overhang.

- Steel bars: pre-tuned to 10 x D; use as low as 6 x D.
- Carbide composite bars: pre-tuned to 15 x D; use as low as 12 x D.
- Re-tuning may be necessary if the boring bar is not used at its pre-tuned overhang.
- Never clamp or use the boring bar below its minimum overhang.

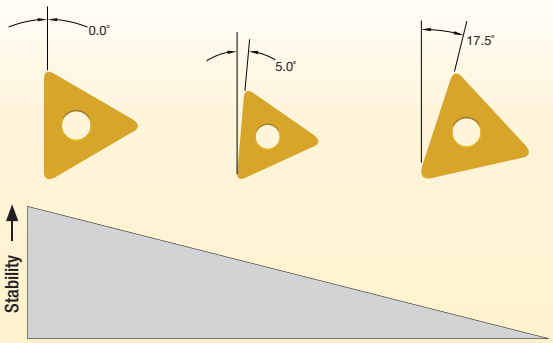
5 Insert Angle

- Smaller point angles produce consistent chip sizes and increase bore clearance for better chip evacuation.
- Larger point angles may cause rubbing due to larger cutting edge, which can result in vibration.



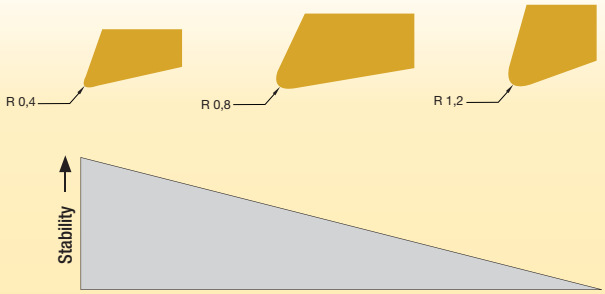
6 Lead Angle

- Choose a lead angle as close to 0º as possible for increased stability.



7 Nose Radius

- Choose a small nose radius for better stability.
- Depth of cut should be larger than the nose radius.



8 Insert Geometries

- Use positive, free-flowing insert geometries and sharp edge preps to reduce cutting forces.
- Use PVD inserts as a first choice because thinner coating keeps edge prep smaller.

9 Center Cutting Height

- Cutting height tolerances are +/-.005".
- Kennametal recommends using our new center height alignment tool kit. The kit includes a magnet, a seat, and an angle finder that can be mounted onto a small flat located on the connection collar of the tunable boring bar.

10 Chip Evacuation

- Chip packing and re-cutting can cause unwanted vibration while boring.
- Use coolant to flush out chips and to keep the damping element cool.
- Use insert geometries and cutting parameters that produce small chips.
- The boring bar can be used upside down to improve chip evacuation.

Tuning Recommendations

- Loosen the two locking screws on the bar.
- Turn the adjusting screw clockwise until the screw stops turning freely and the mass is in the locked-down position.
- You are now ready to tune the bar.
- Turn the adjusting screw in the counter-clockwise direction in quarter turn increments to adjust.
- After the adjustment has been completed, tighten the locking screws.

Kennametal Tunable Boring Bar Center Height Alignment Procedure

The following procedure will walk the user through setting up a tunable boring bar on center without the use of flats on the shank.

Equipment

- Digital angle finder
- Angle finder seat
- Boring bar to be used

Figure 1: Angle finder seat (left) and digital angle finder (right)

Assembly

- Clean any dirt, chips, debris, etc. from the mounting surfaces of the digital angle finder and the corresponding surfaces of the angle finder seat.
- Assemble the digital angle finder onto the angle finder seat, making sure it is flush against the back of the angle finder seat.

Calibration

- Clean an area on the X-axis of the lathe to create a reference surface for calibration.
- Clean any dirt, chips, debris, etc. from the magnet on the bottom of the angle finder seat.
- Place the angle finder assembly onto the X-axis of the lathe.
  - — Keep the angle finder assembly parallel to the axis.
  - — It is helpful to butt the assembly up against the turret housing to keep it parallel to the X-axis.
- Turn the digital angle finder on by pressing the on/off button.
- Zero the digital angle finder by pressing the zero button.

NOTE: The angle finder is now calibrated to the X-axis of the lathe and will measure angles corresponding to this axis.

Figure 2: X-axis calibration

Boring Bar Alignment

- With the boring bar already placed in the holder and set to the correct overhang, clean any dirt, chips, debris, etc. from the small flat on the collar of the boring bar.
- Place the angle finder assembly onto the boring bar by aligning the small magnet on the bottom of the assembly with the small flat on the collar of the boring bar.
  - — Be sure the angle finder assembly is perpendicular to the axis of the boring bar.
  - — Be sure the angle finder assembly is oriented in the same direction it was when it was calibrated to the X-axis of the lathe.

Figure 3: Boring bar collar flat

- Rotate the boring bar until the digital angle finder reads zero degrees.

Figure 4: Aligning the boring bar

- Tighten the boring bar holder to lock the boring bar position.
  - — Be sure the digital angle finder still reads zero after clamping the bar.
- The boring bar should now be on center.

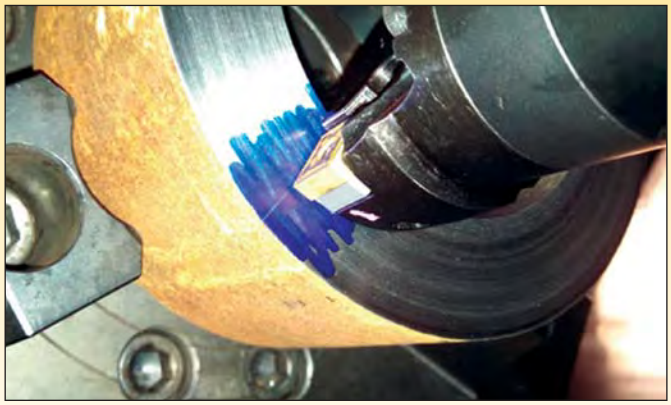
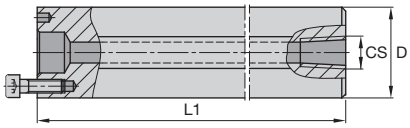
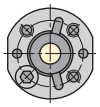


Figure 5: Boring bar center height

Order the Kennametal Center Height Alignment Tool Kit

The center height alignment tool kit is available to order. Use order number 6141867, or catalog number KIT-BB-AF.

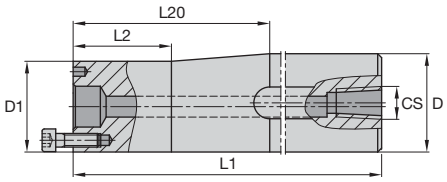


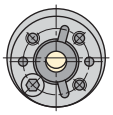


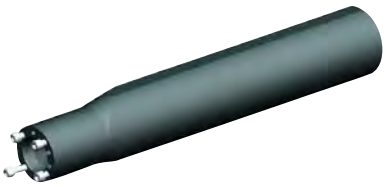
Steel shank with through coolant.
Max 4:1 overhang ratio.

S-4400W

order number	catalog number	D	L1	CS	screw 3 required	screw	hex
1094941	**S4416W**	1.000	9.00	1/4-18 NPT	**S319PKG**	**S322**	9/64
1094942	**S4420W**	1.250	9.00	1/4-18 NPT	**S327**	**S330**	5/32
1094943	**S4424W**	1.500	10.00	1/4-18 NPT	**S327**	**S330**	5/32
1094944	**S4428W**	1.750	12.00	1/4-18 NPT	**S337**	**S340**	3/16
1094945	**S4432W**	2.000	13.00	1/4-18 NPT	**S337**	**S340**	3/16
1080487	**S4440W**	2.500	17.00	1/4-18 NPT	**S350**	**S353**	1/4



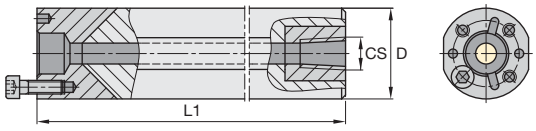




Steel shank with through coolant.
Max 4:1 overhang ratio.

S-4400W48

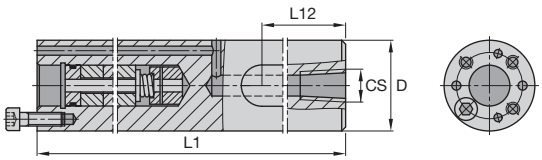
order number	catalog number	D	L1	CS	L2	L20	D1	screw 3 required	screw	hex
1094947	**S4440W48**	3.000	18.00	3/8-18 NPT	3.00	6.00	2.50	**S350**	**S353**	1/4



Carbide shank with through coolant.
Max 6:1 overhang ratio.

C-11800W

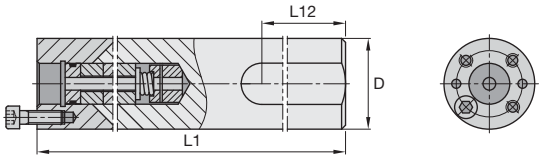
order number	catalog number	D	L1	CS	screw 3 required	screw	hex
1152783	**C11816W**	1.000	11.00	1/4-18 NPT	**S319PKG**	**S322**	9/64
1152784	**C11820W**	1.250	11.00	1/4-18 NPT	**S412**	**S415**	5/32



Steel shank DeVibrator with through coolant.
Max 6:1 overhang ratio.

D-5400W

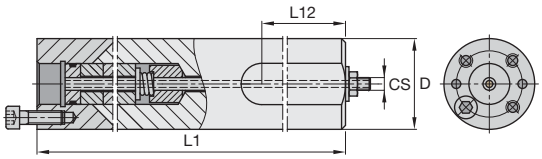
order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1095839	**D5420W**	1.250	10.00	3/8-18 NPT	7.75	7.00	**S327**	**S330**	5/32
1095840	**D5424W**	1.500	12.00	3/8-18 NPT	9.25	8.00	**S327**	**S330**	5/32
1095841	**D5428W**	1.750	14.00	3/8-18 NPT	10.12	9.00	**S337**	**S340**	3/16
1095842	**D5432W**	2.000	16.00	3/8-18 NPT	12.75	10.00	**S337**	**S340**	3/16
1095844	**D5440W**	2.500	20.00	3/8-18 NPT	14.87	12.00	**S350**	**S353**	1/4



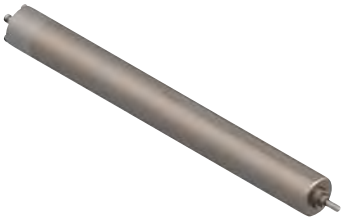
Carbide shank DeVibrator without through coolant.
Max 8:1 overhang ratio.

C-6400

order number	catalog number	D	L1	L12	L1 min	screw 3 required	screw	hex
1152790	**C6420**	1.250	11.00	8.75	7.00	**S412**	**S415**	5/32

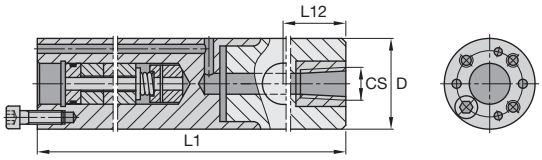


Carbide shank DeVibrator with through coolant.
Max 8:1 overhang ratio.

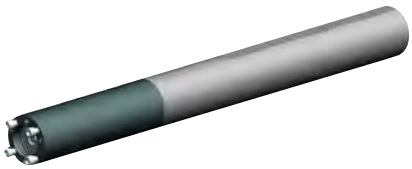


C-6400W

order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1152777	**C6420W**	1.250	11.00	1/4-28 UNF	8.75	7.00	**S412**	**S415**	5/32
1152778	**C6424W**	1.500	14.00	1/4-28 UNF	11.25	8.00	**S412**	**S415**	5/32
1152779	**C6428W**	1.750	16.00	3/8-24UNF	11.38	9.00	**S422**	**S425**	3/16
1152780	**C6432W**	2.000	19.00	3/8-24UNF	15.75	10.00	**S422**	**S425**	3/16
1152782	**C6440W**	2.500	24.00	3/8-24UNF	18.00	12.00	**S432**	**S435**	1/4

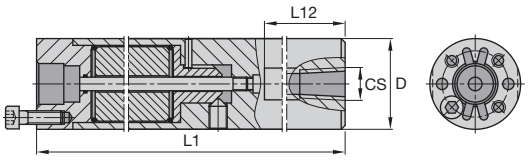


Composite shank DeVibrator with through coolant.
Max 10:1 overhang ratio.



C-11900W

order number	catalog number	D	L1	CS	L12	screw 3 required	screw	hex
1152787	**C11932W**	2.000	20.00	3/8-18 NPT	9.75	**S337**	**S340**	3/16
1152789	**C11940W**	2.500	25.00	3/8-18 NPT	11.75	**S350**	**S353**	1/4

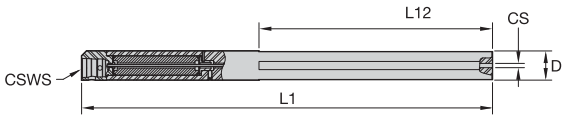


Tunable steel shank with through coolant.

D...TTB • Inch

order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1091551	**D16TTB16**	1.000	15.00	1/4-18 NPT	8.00	9.09	**S316**	**S321**	9/64
1085914	**D20TTB18**	1.250	16.13	1/4-18 NPT	10.00	9.59	**S325**	**S329**	5/32
1082075	**D24TTB21**	1.500	19.38	1/4-18 NPT	12.00	11.04	**S327**	**S330**	5/32
1086694	**D28TTB25**	1.750	23.38	1/4-18 NPT	15.75	12.35	**S337**	**S340**	3/16
1024853	**D32TTB28**	2.000	26.37	1/4-18 NPT	18.50	12.27	**S337**	**S340**	3/16
1091555	**D40TTB35**	2.500	33.38	1/4-18 NPT	24.75	14.88	**S350**	**S353**	1/4
1309256	**D48TTB42**	3.000	40.37	1/4-18 NPT	24.00	20.00	**S350**	**S353**	1/4
1909159	**D64TTB56**	4.000	54.48	3/8-18 NPT	20.00	25.76	**S350**	**S353**	1/4

NOTE: Order number 1309256 and order number 1909159 use 2.5" diameter heads.

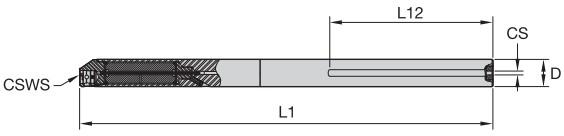


Tunable steel shank with through coolant and front end KM™ clamping unit.

KM QUICK CHANGE

D...TTB-KM • Inch

order number	catalog number	D	L1	CS	L12	L1 min	CSWS system size
3637915	**D28TTB26KM40**	1.750	24.44	1/4-18 NPT	15.75	13.50	KM40
3637916	**D32TTB29KM40**	2.000	27.44	1/4-18 NPT	18.50	13.38	KM40
3637917	**D40TTB36KM40**	2.500	34.45	1/4-18 NPT	24.75	16.00	KM40
3638033	**D48TTB45KM63**	3.000	42.23	1/4-18 NPT	24.00	21.70	KM63
3638034	**D64TTB58KM63**	4.000	56.24	3/8-18 NPT	20.00	27.62	KM63



Carbide tunable boring bar with KM™ Quick-Change connection.

KM QUICK CHANGE

G-TTB-KM • Inch

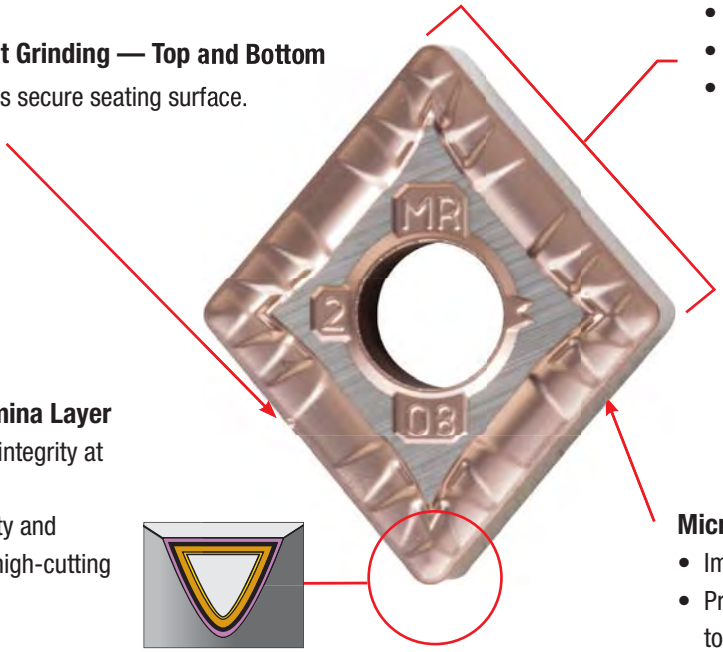
order number	catalog number	D	L1	CS	L12	CSWS system size
3954294	**G32TTB41KM40**	2.000	39.45	3/8-18 NPT	12.00	KM40
3954295	**G40TTB51KM40**	2.500	49.45	3/8-18 NPT	15.00	KM40
3954296	**G48TTB63KM63**	3.000	58.56	3/8-18 NPT	18.00	KM63

Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Post-Coat Treatment
- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom
- Provides secure seating surface.



Fine-Grained Alumina Layer
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges
- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

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Grooving and Cut-Off

Beyond Evolution • Grooving, Turning, and Cut-Off C2–C85

Application Guidelines C84–C85

A4 Groove and Turn C86–C151

Top Notch • Shallow Grooving C152–C204

Application Guidelines C197–C204

Getting started made **EASY**

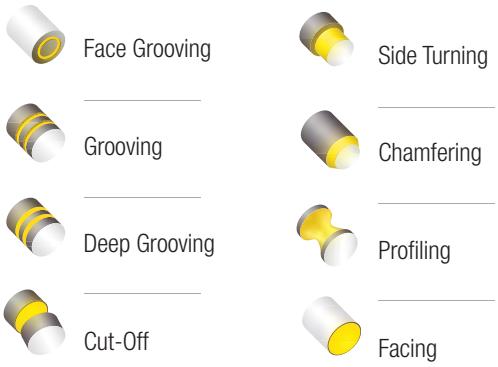
beyond™ EVOLUTION™

Your day made **EASY**

Choosing the right tooling can be complicated and time-consuming. Built on simplicity, we have engineered a new tool that makes every machine operator's life EASY.

Unwilling to sacrifice performance or applications, Kennametal introduces Beyond™ Evolution™.

Beyond™ Evolution™ is the new single-side grooving and cut-off tool that also performs multi-directional turning.



Productivity made **EASY**

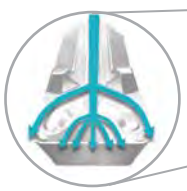
Active Coolant Control

If your coolant delivery is typical to the market, you may be applying more heat to the cutting edge than you think. This reduces tool life and increases cycle time.

With Beyond™ Evolution™, you won't have to change your existing equipment. Whether you are using a high-pressure or low-pressure coolant supply, Beyond™ Evolution™, featuring Active Coolant Control, delivers more tool life and higher Metal Removal Rates (MRR).

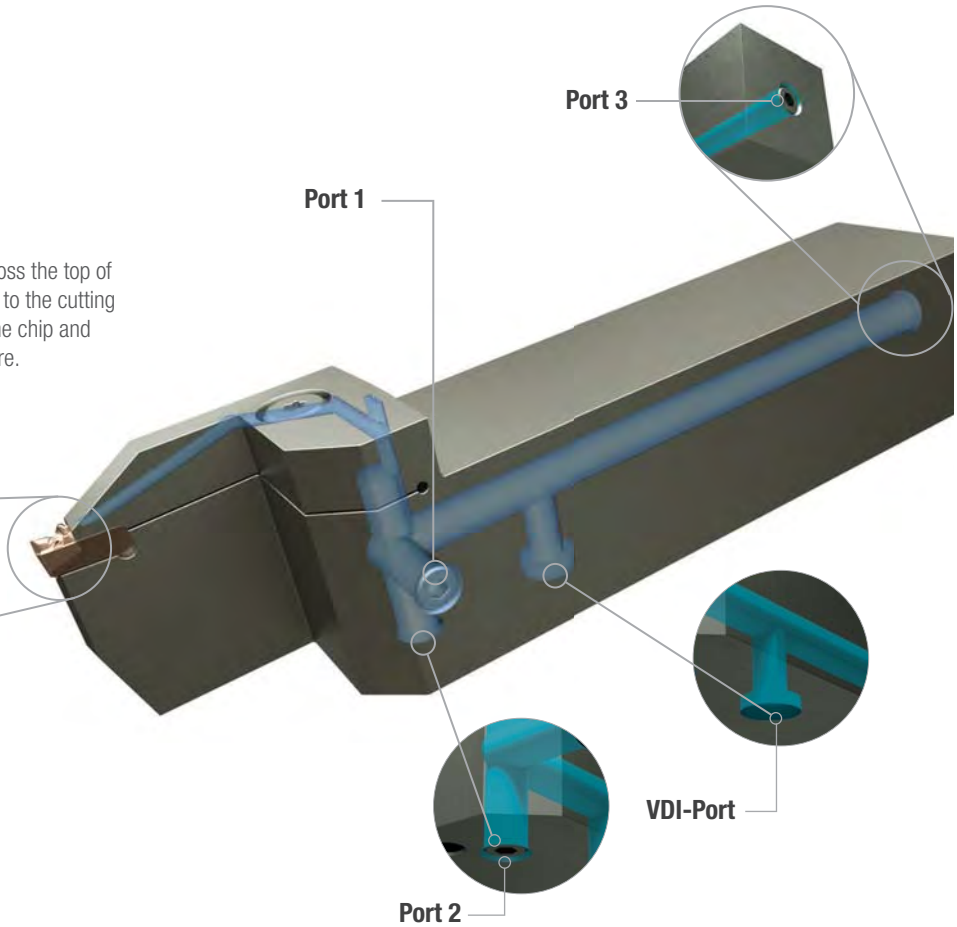
Fan Effect

Directs coolant across the top of the insert precisely to the cutting zone underneath the chip and controls temperature.



Chipbreaking Effect

Improve chip control in all grooving, cut-off, and multi-directional turning applications.



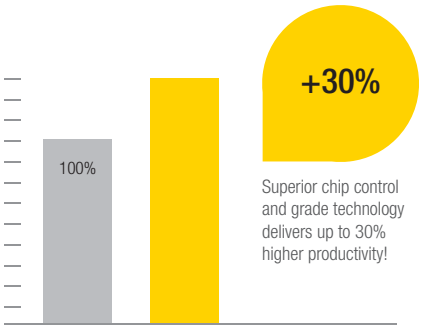
Smooth surface finish made **EASY**

Triple-V Seating

Problem: Traditional single-sided grooving and cut-off systems cannot deliver smooth surface finish due to lack of stability.

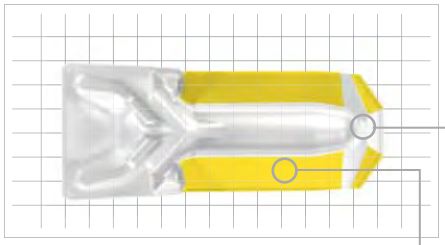
Solution: The Beyond™ Evolution™ proprietary new Triple-V Seating feature provides functional stability and minimizes vibration.

Three contact surfaces provide unmatched stability: When combined with GUP and CF chipbreakers, Triple-V Seating provides excellent surface finish.



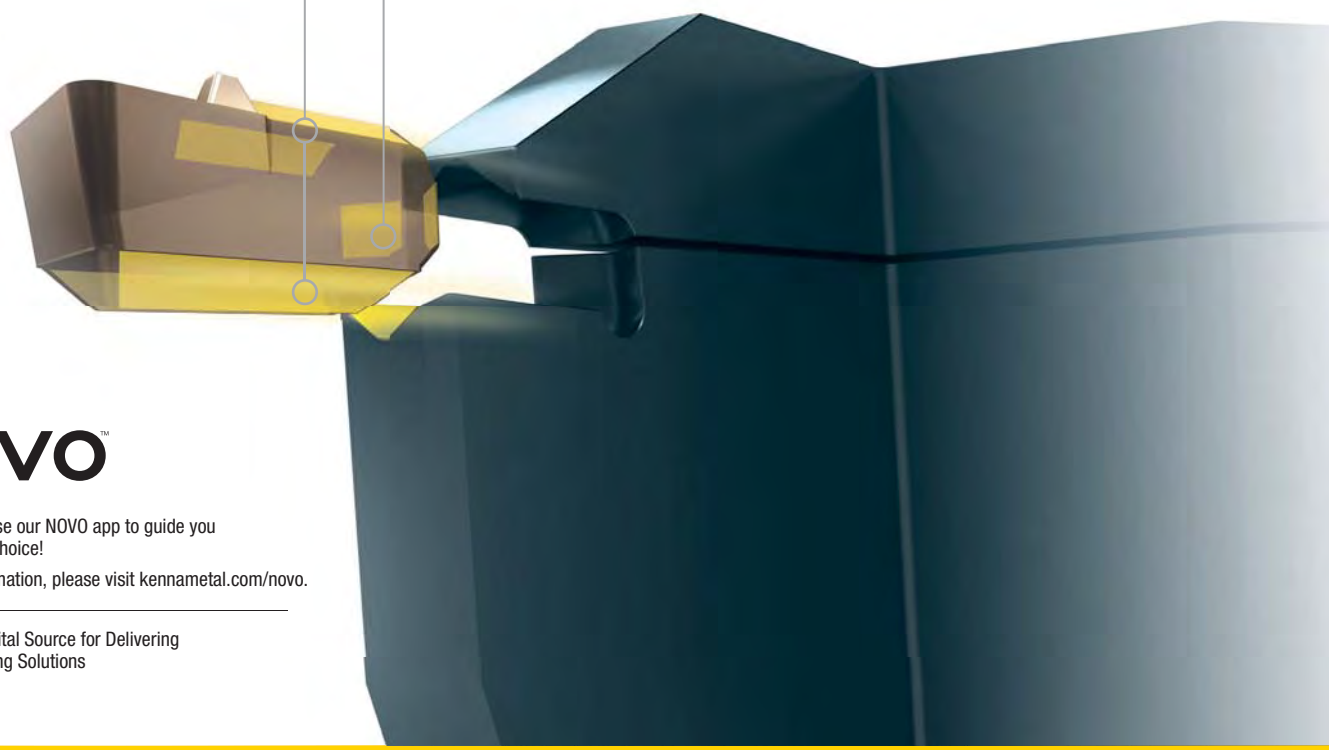
Saving money made EASY

Beyond™ Evolution™, featuring Active Coolant Control, Triple-V Seating, and Beyond™ Drive™ grades with Wear Detection Technology, provides longer tool life, maximum stability, and higher Metal Removal Rates (MRR), resulting in up to 30% higher productivity.



V-Back Design
Unsurpassed grooving, cut-off, and multi-directional turning load stability.

Top and Bottom-V
Precise and secure insert positioning for increased rigidity and dimensional accuracy.



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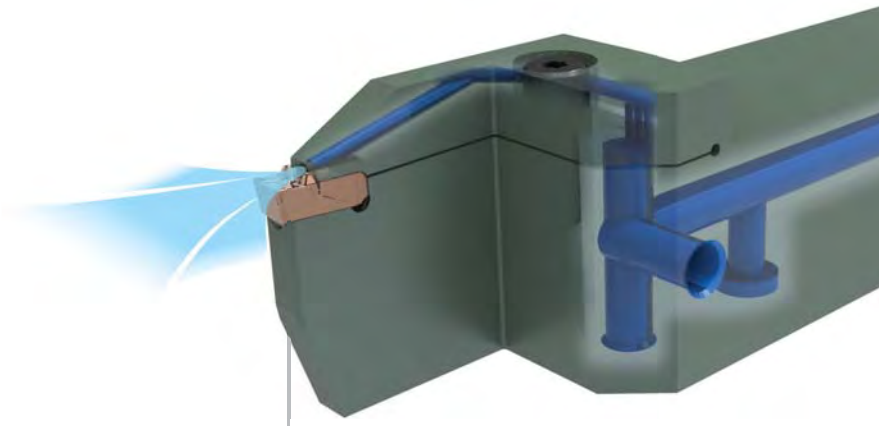
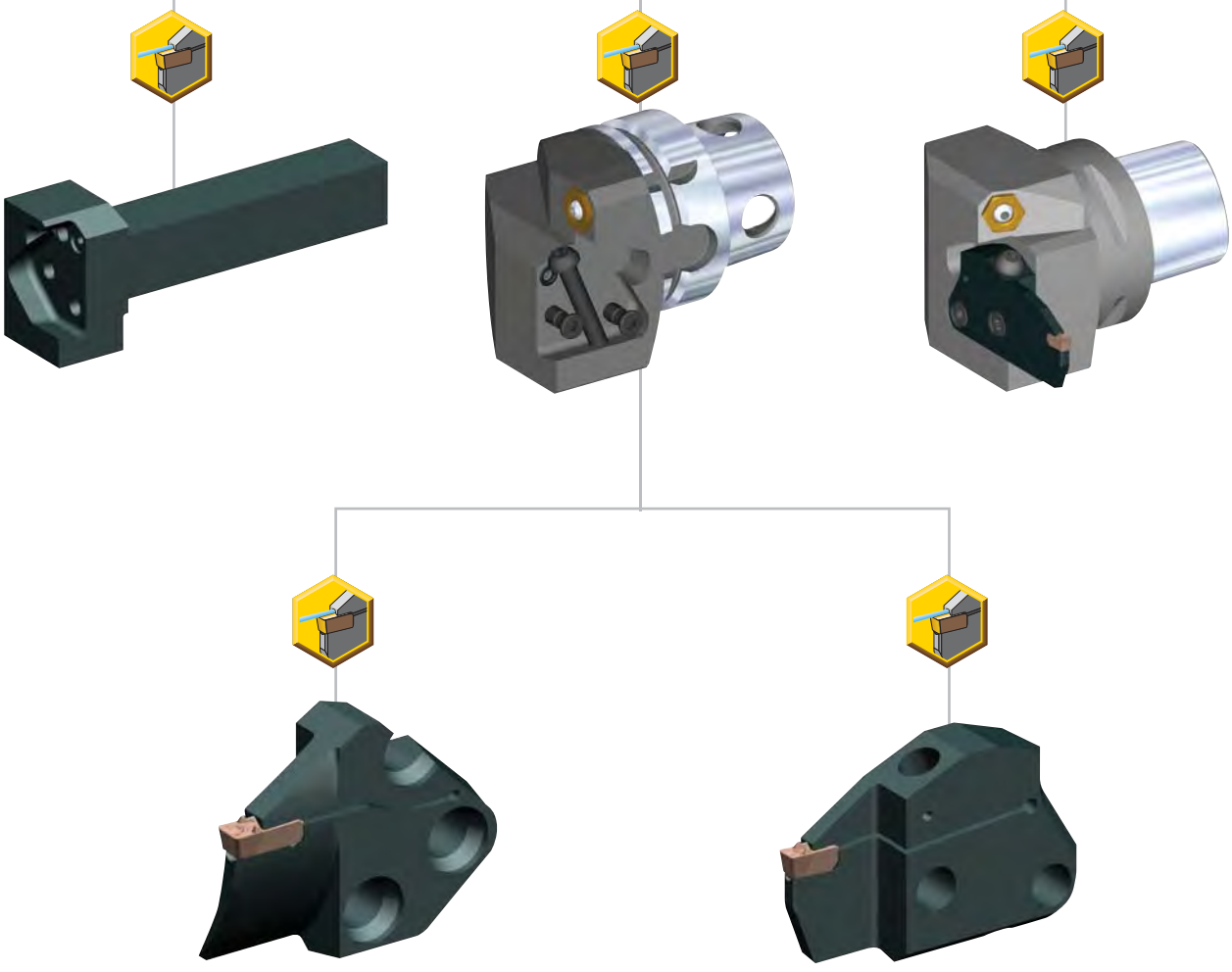
NOVO: The Digital Source for Delivering Smart Machining Solutions

Your day made **EASY** —

Efficient coolant delivery. Available in seat sizes 3 and higher.

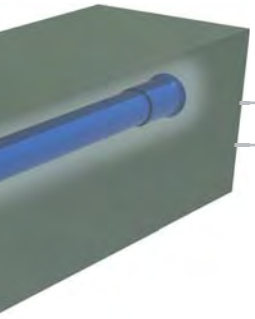


Modular with through coolant



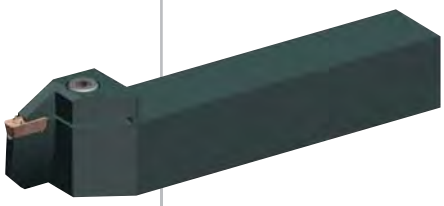
beyond™ EVOLUTION™

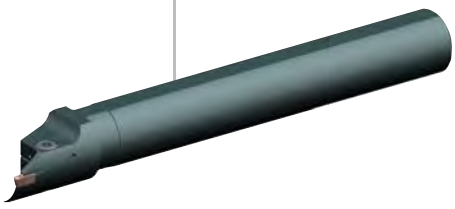
high-performance system.



Face grooving
with through coolant

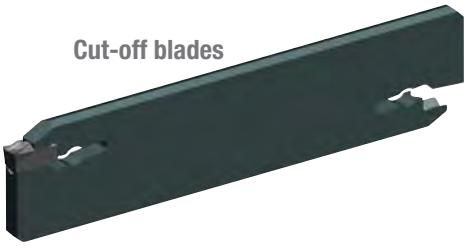
I.D. Boring Bar





Square shank
with through coolant

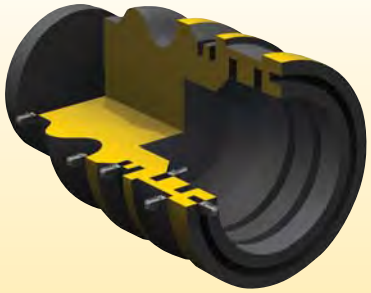
Cut-off blades



Step 1 • Identify your grooving or cut-off application

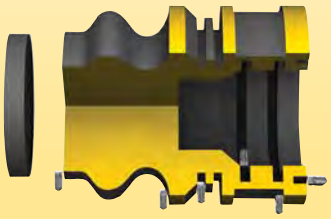
What you need to know:

- Groove depth, width, and profile.
- Material being machined.
- Application to be performed (O.D. and I.D. grooving, turning, face grooving, and cut-off).
- Shank size requirements of the machine.



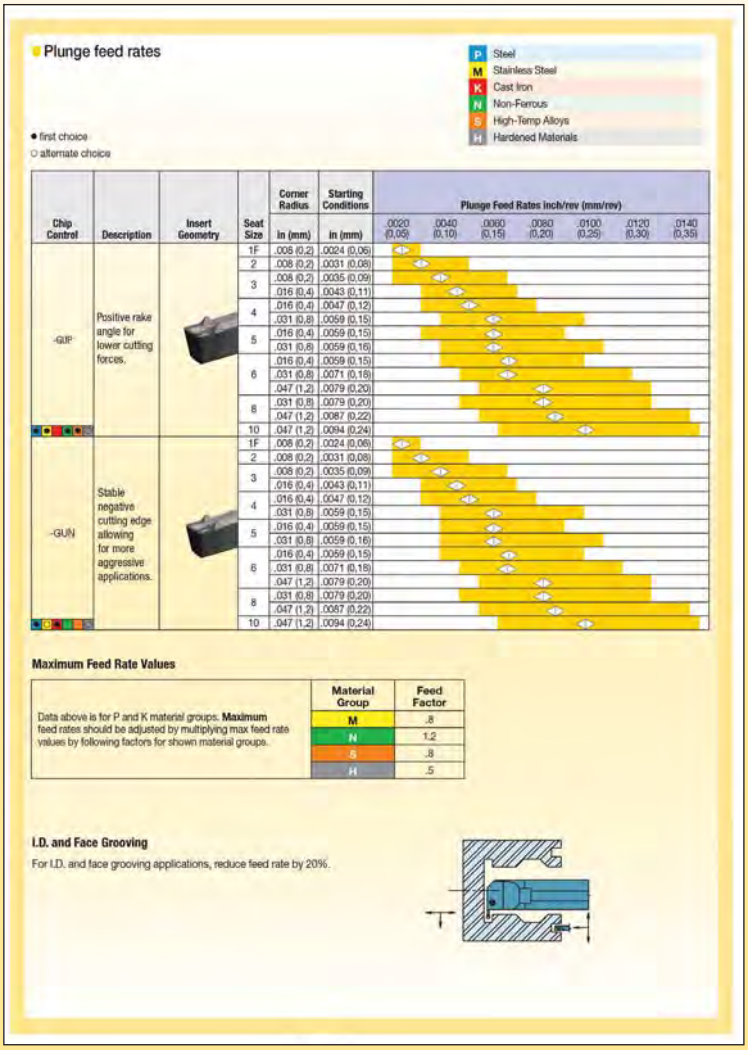
General Recommendation to Select the Insert Size

for workpiece diameters	insert seat size
<25mm	3
25–50mm	4
>50mm	5–10



Step 2 • Select chipbreaker style and feed rate

Based on the application and seat size, determine the recommended geometry and starting feed rate.



Plunge feed rates

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05) .0040 (0,10) .0060 (0,15) .0080 (0,20) .0100 (0,25) .0120 (0,30) .0140 (0,35)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0,2)	.0024 (0,06)	
			2	.008 (0,2)	.0031 (0,08)	
			3	.008 (0,2)	.0035 (0,09)	
				.016 (0,4)	.0043 (0,11)	
			4	.016 (0,4)	.0047 (0,12)	
				.031 (0,8)	.0059 (0,15)	
			5	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0059 (0,15)	
			6	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0071 (0,18)	
				.047 (1,2)	.0079 (0,20)	
			8	.031 (0,8)	.0079 (0,20)	
				.047 (1,2)	.0087 (0,22)	
			10	.047 (1,2)	.0094 (0,24)	
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	.008 (0,2)	.0024 (0,06)	
			2	.008 (0,2)	.0031 (0,08)	
			3	.008 (0,2)	.0035 (0,09)	
				.016 (0,4)	.0043 (0,11)	
			4	.016 (0,4)	.0047 (0,12)	
				.031 (0,8)	.0059 (0,15)	
			5	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0059 (0,16)	
			6	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0071 (0,18)	
				.047 (1,2)	.0079 (0,20)	
			8	.031 (0,8)	.0079 (0,20)	
				.047 (1,2)	.0087 (0,22)	
			10	.047 (1,2)	.0094 (0,24)	

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

Step 3 • Select the starting speed

Based on material and grade, identify starting speed (vc). First choice is in **bold** type.

A Based on material group and grade, identify starting speed (vc).
B First choice starting speed is in **bold.**

Recommended Starting Speeds [SFM]

Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		A
P	0-1	–	–	–	450	**925**	1180	360	**740**	880	290	**590**	700	600	**1320**	1475	475	**925**	1200	660	**1450**	1620
	2	–	–	–	450	**650**	1000	360	**520**	880	290	**420**	510	600	**880**	1150	475	**650**	1000	660	**970**	1260
	3	–	–	–	450	**510**	800	360	**410**	800	290	**330**	510	550	**630**	850	450	**510**	800	600	**700**	920
	4	–	–	–	250	**360**	550	200	**290**	540	160	**230**	350	300	**480**	650	250	**360**	600	330	**530**	710
	5	–	–	–	400	**660**	850	320	**530**	680	260	**420**	540	500	**720**	1000	400	**650**	875	550	**800**	1100
	6	–	–	–	350	**500**	750	280	**400**	600	220	**320**	480	400	**600**	900	350	**500**	750	440	**660**	990
M	1	200	**300**	400	450	**700**	940	300	**550**	800	250	**400**	450	–	–	–	–	–	–	–	–	–
	2	150	**250**	350	400	**650**	800	300	**500**	800	250	**350**	450	–	–	–	–	–	B –	–	–	–
	3	120	**220**	320	400	**600**	800	300	**450**	700	250	**300**	450	–	–	–	–	–	–	–	–	–
K	1	100	**250**	400	400	**600**	800	320	**480**	760	–	–	–	560	**800**	1440	455	**650**	1170	700	**1000**	1800
	2	75	**225**	350	300	**500**	800	240	**400**	560	–	–	–	400	**640**	1120	325	**520**	910	500	**800**	1400
	3	65	**190**	300	200	**350**	500	160	**280**	400	–	–	–	400	**560**	880	325	**455**	715	500	**700**	1100
N	1-2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	400	**900**	1400	400	**1200**	2360	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–

Step 4 • Select toolholder based on application

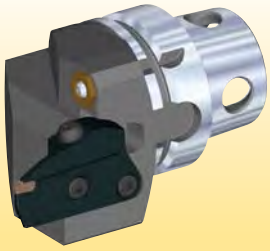
Choose the high-performance holder based on your specific grooving or cut-off application, with the corresponding seat size.

Style		Application
	Boring Bar	• For use in I.D. grooving applications.
	Cut-Off Blade	• Allows user to vary the depth of cut.
	Toolholder — Integral	• Offers the most stability over other styles.
	Toolholder — Modular	• Interchangeable blades for versatility.
	KM™ — Modular **KM4X™ — Modular**	• Best-in-class KM™ Quick-Change platform.
	PSC — Modular	• The modular system in the PSC Quick-Change platform.

Step 5 • Select the insert and holder from catalog page

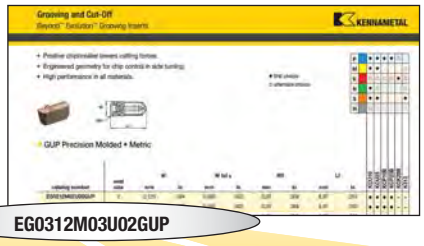
Congratulations!

You have successfully maximized your productivity by selecting the best insert geometry, grade, and cutting specifications for your application!



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



EG0312M03U02GUP

E	G	0312	M	03	U	02	GUP
Family Name	Insert Type	Groove Width	Unit	Seat Size	Tolerance	Corner Radius	Chipbreaker/ Edge Condition
Beyond™ Evolution™	**G** = Square **R** = Full Radius	**Metric** = 1/100 mm **Inch** = 1/1000"	**M** = Metric **I** = Inch		**U** = Precision Molded **P** = Precision Ground		**GUP** = Groove-Turn Universal Positive **GUN** = Groove-Turn Universal Negative **FB** = Flat Top Blank **PB** = Positive Chip Control Blank

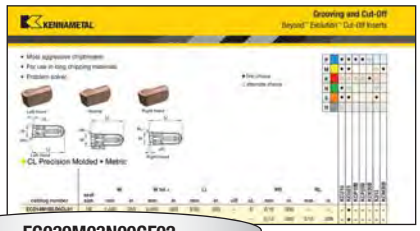
seat size	groove width	
	mm	inch
1B	1,40	.055
1F	1,60–1,99	.063–.078
02	2,00–2,99	.079–.117
03	3,00–3,99	.118–.156
04	4,00–4,99	.157–.196
05	5,00–5,99	.197–.235
06	6,00–7,99	.236–.314
08	8,00–8,99	.315–.353
10	9,00–10,12	.354–.398

*.312" = seat size 08

mm	
00	full radius
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2

inch	
00	full radius
05	.008
1	.016
2	.032
3	.047

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



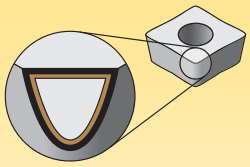
EC030M03N00CF02

E	C	030	M	03	N	00	CF	02
Family Name	Insert Type	Cutting Edge Width	Unit	Seat Size	Hand of Insert	Approach Angle	Chipbreaker	Corner Radius
Beyond™ Evolution™	**C** = Cut-Off		**M** = Metric **I** = Inch		**N** = Neutral **L** = Left hand **R** = Right hand	**00** = Neutral **06** = 6°	**CL** = Cut-Off Low Feed **CF** = Cut-Off Fine **CM** = Cut-Off Medium **CR** = Cut-Off Rough	

Cutting Edge Width	mm	inch
014	1,4	.055
020	2,0	.079
030	3,0	.118
040	4,0	.157
050	5,0	.197
060	6,0	.236
070	7,0	.279
080	8,0	.315

Seat Size	mm	inch
1B	1,4	.055
1F	2,0	.079
02	3,0	.118
03	4,0	.157
04	5,0	.197
05	6,0	.236
06	7,0	.279
08	8,0	.315

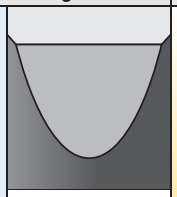
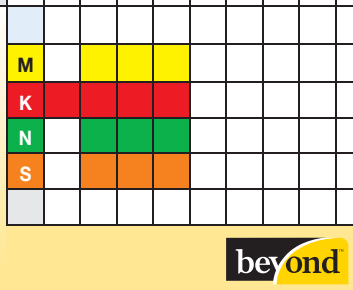
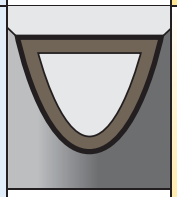
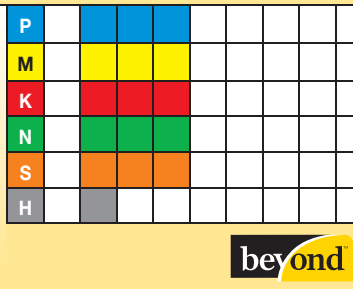
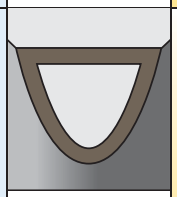
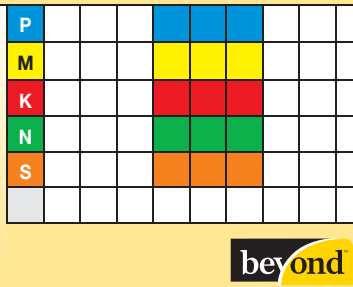
Corner Radius	mm	inch
01	0,1	.004
02	0,2	.008
04	0,4	.016

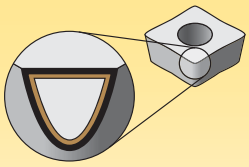


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Grades

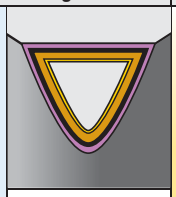
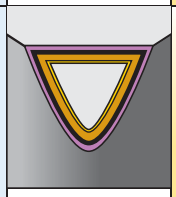
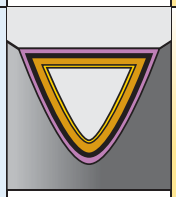
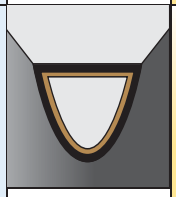
Coating	Grade Description	wear resistance ← → toughness: 05 10 15 20 25 30 35 40 45
K313  —	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.	
KCU10  —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and super alloys with improved edge toughness and higher cutting speed/feed capability.	
KCU25  —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cuts and high feed rates.	



Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

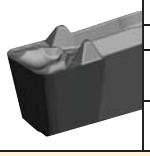
CVD-Coated Carbide Grades

Coating	Grade Description	wear resistance ← → toughness: 05 10 15 20 25 30 35 40 45
KCP10B  —	**Composition:** A specially engineered wear-resistant carbide grade with a newly designed multilayer MTCVD-TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.	P ■ ■ ■ K ■ ■ beyond DRIVE
KCP25B  —	**Composition:** A tough cobalt-enriched carbide grade with a newly designed multilayer MTCVD-TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.	P ■ ■ ■ K ■ ■ ■ beyond DRIVE
KCK20B  —	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3-TiOCN layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in straight and lightly interrupted cuts.	P ■ ■ K ■ ■ ■ beyond DRIVE
KCM35B  —	**Composition:** A multilayer TiN-MT-TiCN-Al_2O_3-TiOCN CVD coating over a super-tough substrate. **Application:** KCM35B is an excellent general purpose to roughing grade for machining stainless steels and roughing steels in turning and cut-off applications. The substrate provides improved toughness while the coating layers offer improved abrasion resistance and dependability at high cutting temperatures, along with wear identification. The polished surface improves edge toughness and provides a smooth outer surface to reduce forces and resist workpiece build-up on the cutting edge even at low cutting speeds. The grade is available in multiple sizes and geometries appropriate for increased feeds and large depths of cut.	P ■ ■ ■ M ■ ■ ■ S ■ ■ beyond DRIVE

Select the geometry

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0,2)	.0024 (0,06)						
			2	.008 (0,2)	.0031 (0,08)						
			3	.008 (0,2)	.0035 (0,09)						
				.016 (0,4)	.0043 (0,11)						
			4	.016 (0,4)	.0047 (0,12)						
				.031 (0,8)	.0059 (0,15)						

Recommended Starting Feed Rate

Pictorial View of Insert

Corner Radius

Plunge Feed Rates

Seat Size

Recommended Feed Rate Range

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control Geometry Designation

Maximum Feed Rate Values

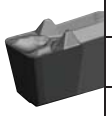
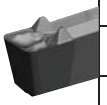
Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

Plunge feed rates

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

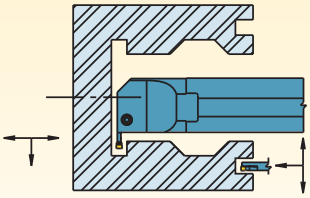
Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05) .0040 (0,10) .0060 (0,15) .0080 (0,20) .0100 (0,25) .0120 (0,30) .0140 (0,35)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0,2)	.0024 (0,06)	
			2	.008 (0,2)	.0031 (0,08)	
			3	.008 (0,2)	.0035 (0,09)	
				.016 (0,4)	.0043 (0,11)	
			4	.016 (0,4)	.0047 (0,12)	
				.031 (0,8)	.0059 (0,15)	
			5	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0059 (0,16)	
			6	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0071 (0,18)	
				.047 (1,2)	.0079 (0,20)	
			8	.031 (0,8)	.0079 (0,20)	
				.047 (1,2)	.0087 (0,22)	
			10	.047 (1,2)	.0094 (0,24)	
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	.008 (0,2)	.0024 (0,06)	
			2	.008 (0,2)	.0031 (0,08)	
			3	.008 (0,2)	.0035 (0,09)	
				.016 (0,4)	.0043 (0,11)	
			4	.016 (0,4)	.0047 (0,12)	
				.031 (0,8)	.0059 (0,15)	
			5	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0059 (0,16)	
			6	.016 (0,4)	.0059 (0,15)	
				.031 (0,8)	.0071 (0,18)	
				.047 (1,2)	.0079 (0,20)	
			8	.031 (0,8)	.0079 (0,20)	
				.047 (1,2)	.0087 (0,22)	
			10	.047 (1,2)	.0094 (0,24)	

Maximum Feed Rate Values

	Material Group	Feed Factor
Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.	M	.8
	N	1.2
	S	.8
	H	.5

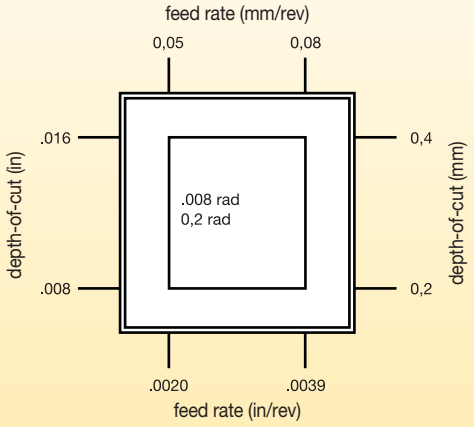
I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

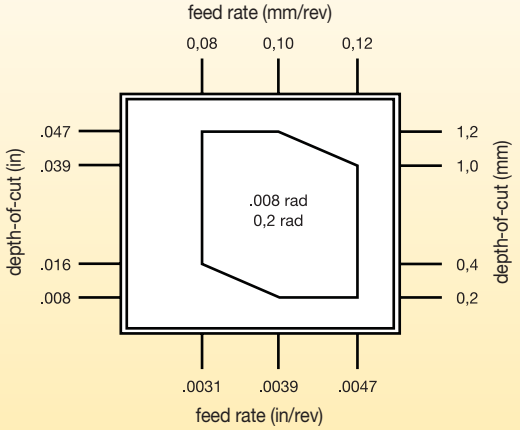


Turn and profile feed rates

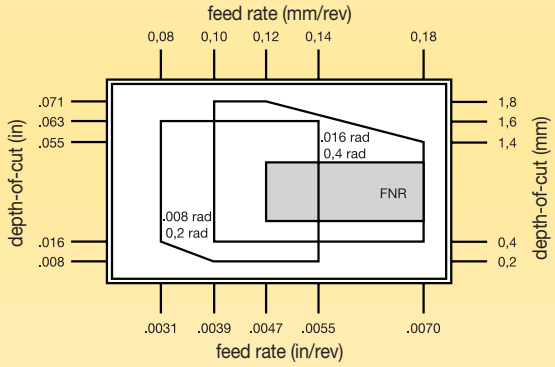
Seat Size 1F



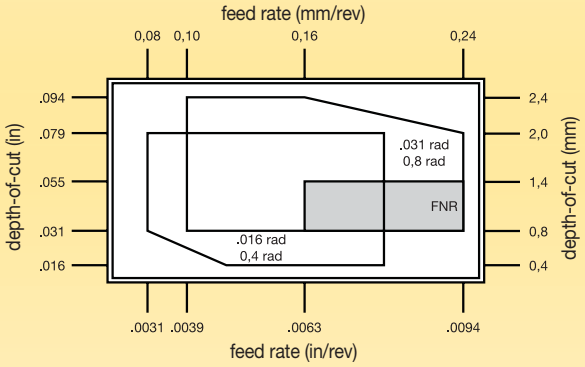
Seat Size 2



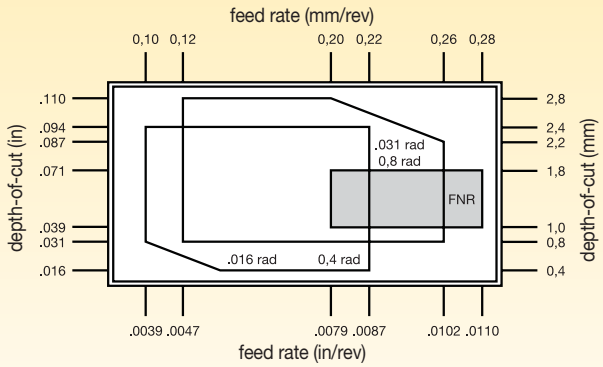
Seat Size 3



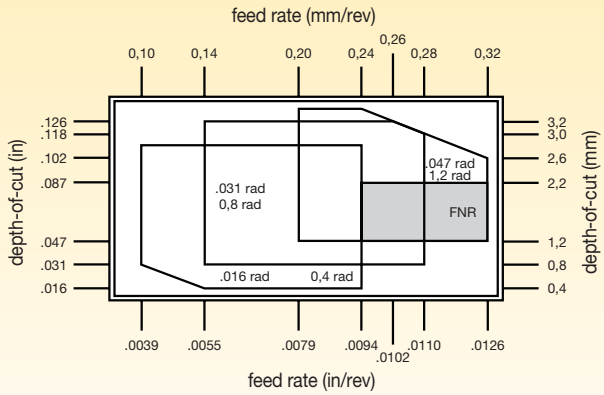
Seat Size 4



Seat Size 5



Seat Size 6

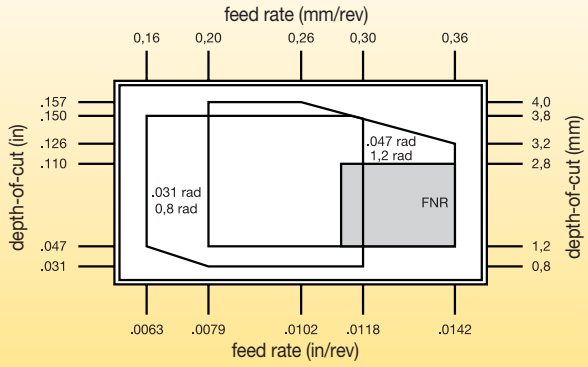


* **FNR** = Full Nose Radius

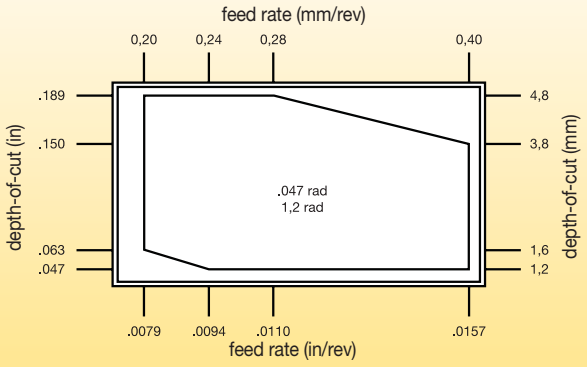
(continued)

(Turn and profile feed rates — continued)

Seat Size 8



Seat Size 10

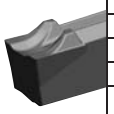
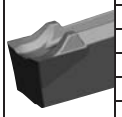
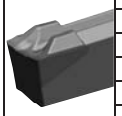
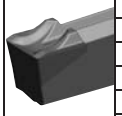


Cut-Off Feed Rates

Plunge feed rates

● first choice
○ alternate choice

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Geometry	Description	Insert Geometry	Seat Size	Starting Conditions in (mm)	Cut-Off Feed Rates inch/rev (mm/rev) .0020 (0,05) – .0160 (0,40)
-CL	Aggressive geometry for hard to break chips.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0031 (0,08)	
			4	.0035 (0,09)	
-CF	Positive geometry for reduced cutting forces.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	
			5	.0051 (0,13)	
-CM	Stable cutting edge for aggressive feed rates. Primarily in cast iron.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	
			5	.0055 (0,14)	
			6	.0063 (0,16)	
			8	.0067 (0,17)	
-CR	Most stable cutting edge for steel.		2	.0039 (0,10)	
			3	.0055 (0,14)	
			4	.0063 (0,16)	
			5	.0075 (0,19)	
			6	.0083 (0,21)	
			8	.0090 (0,23)	

NOTE: For cut-off inserts with a lead angle, maximum feed rate should be reduced by up to 40%.

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	–	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	200	**440**	490
	2	–	–	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	200	**300**	380
	3	–	–	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	600	**200**	280
	4	–	–	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	100	**160**	220
	5	–	–	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	165	**240**	330
	6	–	–	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	130	**190**	300
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	–	–	170	**245**	440	140	**200**	360	210	**305**	550
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	–	–	120	**195**	340	100	**160**	280	150	**245**	430
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	–	–	120	**170**	270	100	**140**	220	150	**210**	335
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	700	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	8	**35**	60	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	8	**30**	60	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	150	15	**40**	75	15	**35**	60	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	15	**45**	90	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Recommended Starting Speeds [SFM]

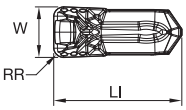
Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	–	–	450	**925**	1180	360	**740**	880	290	**590**	700	600	**1320**	1475	475	**925**	1200	660	**1450**	1620
	2	–	–	–	450	**650**	1000	360	**520**	880	290	**420**	510	600	**880**	1150	475	**650**	1000	660	**970**	1260
	3	–	–	–	450	**510**	800	360	**410**	800	290	**330**	510	550	**630**	850	450	**510**	800	600	**700**	920
	4	–	–	–	250	**360**	550	200	**290**	540	160	**230**	350	300	**480**	650	250	**360**	600	330	**530**	710
	5	–	–	–	400	**660**	850	320	**530**	680	260	**420**	540	500	**720**	1000	400	**650**	875	550	**800**	1100
	6	–	–	–	350	**500**	750	280	**400**	600	220	**320**	480	400	**600**	900	350	**500**	750	440	**660**	990
M	1	200	**300**	400	450	**700**	940	300	**550**	800	250	**400**	450	–	–	–	–	–	–	–	–	–
	2	150	**250**	350	400	**650**	800	300	**500**	800	250	**350**	450	–	–	–	–	–	–	–	–	–
	3	120	**220**	320	400	**600**	800	300	**450**	700	250	**300**	450	–	–	–	–	–	–	–	–	–
K	1	100	**250**	400	400	**600**	800	320	**480**	760	–	–	–	560	**800**	1440	455	**650**	1170	700	**1000**	1800
	2	75	**225**	350	300	**500**	800	240	**400**	560	–	–	–	400	**640**	1120	325	**520**	910	500	**800**	1400
	3	65	**190**	300	200	**350**	500	160	**280**	400	–	–	–	400	**560**	880	325	**455**	715	500	**700**	1100
N	1–2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	400	**900**	1400	400	**1200**	2360	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–
	6	120	**250**	500	400	**700**	1000	320	**560**	800	–	–	–	–	–	–	–	–	–	–	–	–
S	1	25	**100**	250	50	**180**	450	25	**125**	200	25	**125**	200	–	–	–	–	–	–	–	–	–
	2	25	**110**	250	50	**195**	450	25	**100**	250	25	**100**	200	–	–	–	–	–	–	–	–	–
	3	25	**125**	250	50	**225**	500	50	**125**	250	50	**125**	200	–	–	–	–	–	–	–	–	–
	4	25	**150**	250	50	**225**	550	25	**175**	350	50	**150**	300	–	–	–	–	–	–	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

- Positive chipbreaker lowers cutting forces.
- Engineered geometry for chip control in side turning.
- High performance in all materials.

● first choice
○ alternate choice

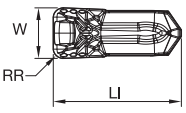
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUP	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	–	–	–
EG0251M02U02GUP	2	2,511	.099	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	–	–	–
EG0312M03U02GUP	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●	●	●	–	–	–	–
EG0312M03U04GUP	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	–	–	–
EG0412M04U04GUP	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	–	–	–
EG0412M04U08GUP	4	4,125	.162	0,075	.003	0,80	.031	10,19	.401	●	●	●	●	–	–	–
EG0512M05U04GUP	5	5,125	.202	0,075	.003	0,40	.016	12,25	.482	●	●	●	●	–	–	–
EG0512M05U08GUP	5	5,125	.202	0,075	.003	0,80	.031	12,25	.482	●	●	●	●	–	–	–
EG0612M06U04GUP	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●	●	●	●	–	–	–
EG0612M06U08GUP	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●	●	●	●	–	–	–
EG0712M06U08GUP	6	7,125	.281	0,075	.003	0,80	.032	14,60	.574	●	●	●	●	–	–	–
EG0812M08U08GUP	8	8,125	.320	0,075	.003	0,80	.031	17,47	.688	●	●	●	●	–	–	–
EG0812M08U12GUP	8	8,125	.320	0,075	.003	1,18	.046	17,45	.687	●	●	●	●	–	–	–
EG1012M10U12GUP	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	–	–	–

- More precise widths and better repeatability.



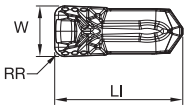
GUP Precision Ground • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0200M02P02GUP	2	2,000	.079	0,025	.001	0,20	.008	8,80	.347	●	●	–	–	–	–	●
EG0300M03P02GUP	3	3,000	.118	0,025	.001	0,20	.008	9,40	.372	●	●	–	–	–	–	●
EG0300M03P04GUP	3	3,000	.118	0,025	.001	0,40	.016	9,60	.376	●	●	–	–	–	–	●
EG0400M04P04GUP	4	4,000	.157	0,025	.001	0,40	.016	10,10	.399	●	●	–	–	–	–	●
EG0400M04P08GUP	4	4,000	.158	0,025	.001	0,80	.032	10,10	.399	●	●	–	–	–	–	●
EG0500M05P04GUP	5	5,000	.197	0,025	.001	0,40	.016	12,20	.480	●	●	–	–	–	–	●
EG0500M05P08GUP	5	5,000	.197	0,025	.001	0,80	.032	12,20	.480	●	●	–	–	–	–	●
EG0600M06P04GUP	6	6,000	.236	0,025	.001	0,40	.016	14,50	.572	●	●	–	–	–	–	●
EG0600M06P08GUP	6	6,000	.236	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG0700M06P08GUP	6	7,000	.276	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG0800M08P08GUP	8	8,000	.315	0,025	.001	0,80	.031	17,40	.685	●	●	–	–	–	–	●
EG0800M08P12GUP	8	8,000	.315	0,025	.001	1,20	.047	17,40	.685	●	●	–	–	–	–	●
EG1000M10P12GUP	10	10,000	.394	0,025	.001	1,20	.047	20,70	.815	●	●	–	–	–	–	●

- Positive chipbreaker lowers cutting forces.
- Engineered geometry for chip control in side turning.
- High performance in all materials.

● first choice
○ alternate choice

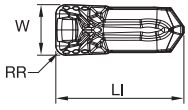
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG130I03U05GUP	3	3,301	.130	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	–	–	–
EG130I03U1GUP	3	3,301	.130	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	–	–	–
EG192I04U1GUP	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	–	–	–
EG192I04U2GUP	4	4,877	.192	0,075	.003	0,79	.031	10,19	.401	●	●	●	●	–	–	–
EG255I06U1GUP	6	6,478	.255	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	–	–	–
EG255I06U2GUP	6	6,478	.255	0,075	.003	0,80	.031	14,58	.574	●	●	●	●	–	–	–
EG317I08U3GUP	8	8,051	.317	0,075	.003	1,19	.047	17,46	.687	●	●	●	●	–	–	–
EG380I10U3GUP	10	9,651	.380	0,075	.003	1,19	.047	20,80	.817	●	●	●	●	–	–	–

- More precise widths and better repeatability.



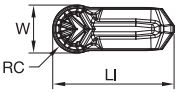
GUP Precision Ground • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FP05GUP	1F	1,600	.063	0,025	.001	0,20	.008	9,00	.353	●	●	–	–	–	–	●
EG094I02P05GUP	2	2,388	.094	0,025	.001	0,20	.008	8,88	.350	●	●	–	–	–	–	●
EG125I03P05GUP	3	3,175	.125	0,025	.001	0,20	.008	9,40	.371	●	●	–	–	–	–	●
EG125I03P1GUP	3	3,175	.125	0,025	.001	0,40	.016	9,40	.372	●	●	–	–	–	–	●
EG187I04P1GUP	4	4,760	.188	0,025	.001	0,40	.016	10,10	.399	●	●	–	–	–	–	●
EG187I04P2GUP	4	4,762	.188	0,025	.001	0,79	.031	10,10	.399	●	●	–	–	–	–	●
EG250I06P1GUP	6	6,350	.250	0,025	.001	0,40	.016	14,50	.572	●	●	–	–	–	–	●
EG250I06P2GUP	6	6,350	.250	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG312I08P3GUP	8	7,920	.312	0,025	.001	1,20	.047	17,40	.685	●	●	–	–	–	–	●
EG375I10P3GUP	10	9,525	.375	0,025	.001	1,20	.047	20,70	.815	●	●	–	–	–	–	●

- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.

● first choice
○ alternate choice

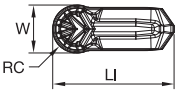
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Full Radius Precision Molded • Metric

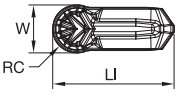
catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0212M02U00GUP	2	2,120	.084	0,050	.002	1,060	.04	8,97	.353	●	●	●	●	–	–	–
ER0312M03U00GUP	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●	●	●	●	–	–	–
ER0412M04U00GUP	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●	●	●	●	–	–	–
ER0512M05U00GUP	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●	●	●	●	–	–	–
ER0612M06U00GUP	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●	●	●	●	–	–	–
ER0812M08U00GUP	8	8,125	.320	0,075	.003	4,060	.16	17,50	.688	●	●	●	●	–	–	–

- More precise widths and better repeatability.



GUP Full Radius Precision Ground • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0200M02P00GUP	2	2,000	.079	0,025	.001	1,000	.04	8,91	.351	●	●	–	–	–	–	–
ER0300M03P00GUP	3	3,000	.118	0,025	.001	1,500	.06	9,50	.376	●	●	–	–	–	–	●
ER0400M04P00GUP	4	4,000	.157	0,025	.001	2,000	.08	10,10	.399	●	●	–	–	–	–	●
ER0500M05P00GUP	5	5,000	.197	0,025	.001	2,500	.10	12,20	.480	●	●	–	–	–	–	●
ER0600M06P00GUP	6	6,000	.236	0,025	.001	3,000	.12	14,50	.572	●	●	–	–	–	–	●
ER0800M08P00GUP	8	8,000	.315	0,025	.001	4,000	.16	17,40	.685	●	●	–	–	–	–	●



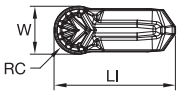
GUP Full Radius Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER130I03U00GUP	3	3,302	.130	0,075	.003	1,650	.07	9,60	.378	●	●	●	●	–	–	–
ER192I04U00GUP	4	4,878	.192	0,075	.003	2,440	.10	10,20	.401	●	●	●	●	–	–	–
ER255I06U00GUP	6	6,478	.255	0,075	.003	3,240	.13	14,60	.575	●	●	●	●	–	–	–
ER317I08U00GUP	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●	●	●	●	–	–	–

- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.
- More precise widths and better repeatability.

● first choice
○ alternate choice

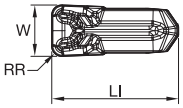
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Full Radius Precision Ground • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER125I03P00GUP	3	3,175	.125	0,025	.001	1,590	.06	9,50	.376	●	●	–	–	–	–	●
ER187I04P00GUP	4	4,762	.187	0,025	.001	2,380	.09	10,10	.399	●	●	–	–	–	–	●
ER250I06P00GUP	6	6,350	.250	0,025	.001	3,170	.13	14,50	.572	●	●	–	–	–	–	●
ER312I08P00GUP	8	7,920	.312	0,025	.001	3,960	.16	17,40	.685	●	●	–	–	–	–	●

- Negative rake face for strongest cutting edge.
- More aggressive applications.
- Advantages in low-feed and depth-of-cut applications.



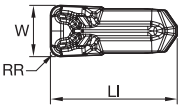
GUN Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUN	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG0251M02U02GUN	2	2,510	.099	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG0312M03U02GUN	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG0312M03U04GUN	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG0412M04U04GUN	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	●	–	–
EG0412M04U08GUN	4	4,125	.162	0,075	.003	0,80	.031	10,19	.401	●	●	●	●	●	–	–
EG0512M05U04GUN	5	5,125	.202	0,075	.003	0,40	.016	12,20	.481	●	●	●	●	●	–	–
EG0512M05U08GUN	5	5,125	.202	0,075	.003	0,80	.031	12,20	.481	●	●	●	●	●	–	–
EG0612M06U04GUN	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●	●	●	–	●	–	–
EG0612M06U08GUN	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●	●	–	●	●	–	–
EG0812M08U08GUN	8	8,125	.320	0,075	.003	0,80	.031	17,50	.687	●	●	●	●	●	–	–
EG0812M08U12GUN	8	8,125	.320	0,075	.003	1,20	.047	17,50	.687	●	●	●	●	●	–	–
EG1012M10U12GUN	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- More aggressive applications.
- Advantages in low-feed and depth-of-cut applications.

● first choice
○ alternate choice

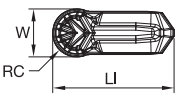
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUN Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FU05GUN	1F	1,600	.063	0,050	.002	0,20	.008	9,00	.355	●	●	●	●	●	–	–
EG094I02U05GUN	2	2,388	.094	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG125I03U05GUN	3	3,175	.125	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG125I03U1GUN	3	3,175	.125	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG130I03U05GUN	3	3,302	.130	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG130I03U1GUN	3	3,302	.130	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG187I04U1GUN	4	4,750	.187	0,075	.003	0,40	.016	10,20	.401	●	●	●	●	●	–	–
EG187I04U2GUN	4	4,750	.187	0,075	.003	0,80	.032	10,19	.401	●	●	●	●	●	–	–
EG192I04U1GUN	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	●	–	–
EG192I04U2GUN	4	4,878	.192	0,075	.003	0,79	.031	10,19	.401	●	●	●	●	●	–	–
EG250I06U1GUN	6	6,350	.250	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	●	–	–
EG250I06U2GUN	6	6,350	.250	0,075	.003	0,80	.032	14,58	.574	●	●	●	●	●	–	–
EG255I06U1GUN	6	6,477	.255	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	●	–	–
EG255I06U2GUN	6	6,477	.255	0,075	.003	0,80	.031	14,58	.574	●	●	●	●	●	–	–
EG312I08U3GUN	8	7,925	.312	0,075	.003	1,20	.047	17,46	.687	●	●	●	●	●	–	–
EG317I08U3GUN	8	8,052	.317	0,075	.003	1,19	.047	17,46	.687	●	●	●	●	●	–	–
EG375I10U3GUN	10	9,525	.375	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–
EG380I10U3GUN	10	9,651	.380	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.



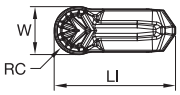
GUN Full Radius Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0212M02U00GUN	2	2,120	.083	0,050	.002	1,060	.04	8,97	.353	●	●	●	●	●	–	–
ER0312M03U00GUN	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●	●	●	●	●	–	–
ER0412M04U00GUN	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●	●	●	●	●	–	–
ER0512M05U00GUN	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●	●	●	●	●	–	–
ER0612M06U00GUN	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●	●	●	●	●	–	–
ER0812M08U00GUN	8	8,125	.320	0,075	.003	4,060	.16	17,47	.688	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUN Full Radius Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER094I02U00GUN	2	2,387	.094	0,050	.002	1,190	.05	8,97	.353	●	●	●	●	●	–	–
ER125I03U00GUN	3	3,177	.125	0,075	.003	1,590	.06	9,60	.378	●	●	●	●	●	–	–
ER130I03U00GUN	3	3,300	.130	0,075	.003	1,650	.07	9,60	.378	●	●	●	●	●	–	–
ER187I04U00GUN	4	4,750	.187	0,075	.003	2,370	.09	10,20	.401	●	●	●	●	●	–	–
ER192I04U00GUN	4	4,873	.192	0,075	.003	2,440	.10	10,20	.401	●	●	●	●	●	–	–
ER250I06U00GUN	6	6,346	.250	0,075	.003	3,170	.13	14,60	.575	●	●	●	●	●	–	–
ER255I06U00GUN	6	6,473	.255	0,075	.003	3,240	.13	14,60	.575	●	●	●	●	●	–	–
ER312I08U00GUN	8	7,925	.312	0,075	.003	3,960	.16	17,50	.688	●	●	●	●	●	–	–
ER317I08U00GUN	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●	●	●	●	●	–	–

Beyond™ Evolution™ Cut-Off Inserts

- Positive chipbreaker lowers cutting forces.
- First choice for steel and stainless steel.
- Excellent surface finish.

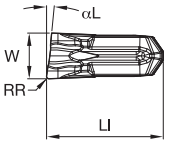
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

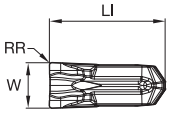
Left Hand

Neutral

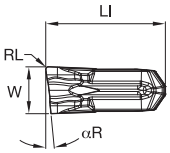
Right Hand



Left Hand



Neutral



Right Hand

CF Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CF01	1B	1,404	.055	0,050	.002	9,00	.355	–	6	0,15	.006	–	–	–	●	–	–	–	●	–
EC014M1BN00CF01	1B	1,400	.055	0,050	.002	9,00	.355	–	–	0,15	.006	0,15	.006	–	●	–	–	–	●	–
EC014M1BR06CF01	1B	1,404	.055	0,050	.002	9,00	.355	6	–	–	–	0,15	.006	–	●	–	–	–	●	–
EC020M02L06CF02	2	2,000	.079	0,050	.002	8,97	.353	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC020M02N00CF02	2	2,000	.079	0,050	.002	8,97	.353	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC020M02R06CF02	2	2,000	.079	0,050	.002	8,97	.353	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC030M03L06CF02	3	3,000	.118	0,075	.003	9,60	.378	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC030M03N00CF02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC030M03R06CF02	3	3,000	.118	0,075	.003	9,60	.378	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC040M04L06CF02	4	4,000	.157	0,075	.003	10,19	.401	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC040M04N00CF02	4	4,000	.158	0,075	.003	10,19	.401	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC040M04R06CF02	4	4,000	.158	0,075	.003	10,19	.401	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC050M05N00CF03	5	5,000	.197	0,075	.003	12,20	.482	–	–	0,30	.012	0,30	.012	–	●	–	–	–	●	–

- Most aggressive chipbreaker.
- For use in long chipping materials.
- Problem solver.

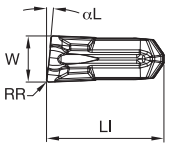
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

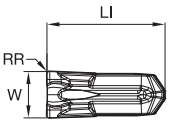
Left Hand

Neutral

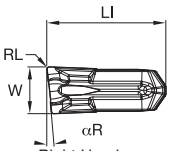
Right Hand



Left Hand



Neutral



Right Hand

CL Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in
EC014M1BL06CL01	1B	1,400	.055	0,050	.002	9,00	.355	—	6	0,15	.006	—	—
EC014M1BN00CL01	1B	1,400	.055	0,050	.002	9,00	.355	—	—	0,15	.006	0,15	.006
EC014M1BR06CL01	1B	1,400	.055	0,050	.002	9,00	.355	6	—	—	—	0,15	.006
EC020M02L06CL02	2	2,000	.079	0,050	.002	8,96	.353	—	6	0,20	.008	—	—
EC020M02N00CL02	2	2,000	.079	0,050	.002	8,97	.353	—	—	0,20	.008	0,20	.008
EC020M02R06CL02	2	2,000	.079	0,050	.002	8,96	.353	6	—	—	—	0,20	.005
EC030M03L06CL02	3	3,000	.118	0,075	.003	9,59	.378	—	6	0,20	.008	—	—
EC030M03N00CL02	3	3,000	.118	0,075	.003	9,60	.378	—	—	0,20	.008	0,20	.008
EC030M03R06CL02	3	3,000	.118	0,075	.003	9,59	.378	6	—	—	—	0,20	.008
EC040M04L06CL02	4	4,000	.158	0,075	.003	10,19	.401	—	6	0,20	.008	—	—
EC040M04N00CL02	4	4,000	.157	0,075	.003	10,20	.401	—	—	0,20	.008	0,20	.008
EC040M04R06CL02	4	4,000	.158	0,075	.003	10,19	.401	6	—	—	—	0,20	.008

- Ultimate solution in edge stability.
- Leverage for interrupted cuts or hardened skin.
- First choice for cast iron.

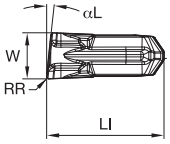
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

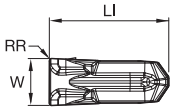
Left Hand

Neutral

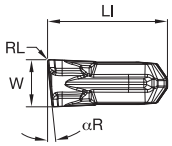
Right Hand



Left Hand



Neutral



Right Hand

CM Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in
EC014M1BL06CM01	1B	1,400	.055	0,050	.002	9,00	.355	–	6	0,20	.008	–	–
EC014M1BN00CM01	1B	1,400	.055	0,050	.002	9,00	.355	–	–	0,15	.006	0,15	.006
EC014M1BR06CM01	1B	1,400	.055	0,050	.002	9,00	.355	6	–	–	–	0,20	.008
EC020M02L06CM02	2	2,000	.079	0,050	.002	9,00	.353	–	6	0,20	.008	–	–
EC020M02N00CM02	2	2,000	.079	0,050	.002	8,98	.353	–	–	0,20	.008	0,20	.008
EC020M02R06CM02	2	2,000	.079	0,050	.002	9,00	.353	6	–	–	–	0,20	.008
EC030M03L06CM02	3	3,000	.118	0,075	.003	9,60	.378	–	6	0,20	.008	–	–
EC030M03N00CM02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008
EC030M03R06CM02	3	3,000	.118	0,075	.003	9,60	.378	6	–	–	–	0,20	.008
EC040M04L06CM02	4	4,000	.157	0,075	.003	10,20	.401	–	6	0,20	.008	–	–
EC040M04N00CM02	4	4,000	.158	0,075	.003	10,20	.402	–	–	0,20	.008	0,20	.008
EC040M04R06CM02	4	4,000	.157	0,075	.003	10,20	.401	6	–	–	–	0,20	.008
EC050M05N00CM03	5	5,000	.197	0,075	.003	12,20	.482	–	–	0,30	.012	0,30	.012
EC060M06N00CM03	6	6,000	.236	0,075	.003	14,59	.574	–	–	0,30	.012	0,30	.012
EC070M06N00CM04	6	7,000	.276	0,075	.003	14,60	.574	–	–	0,40	.016	0,40	.016
EC080M08N00CM04	8	8,000	.315	0,075	.003	17,50	.688	–	–	0,40	.016	0,40	.016

- Strong chip control due to concave edge.
- First choice in steel when additional stability is required.
- Can apply most aggressive speed rates.

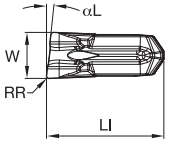
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

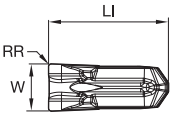
Left Hand

Neutral

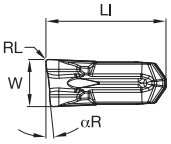
Right Hand



Left Hand



Neutral



Right Hand

CR Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC020M02L06CR02	2	2,000	.079	0,050	.002	9,00	.353	–	6	0,20	.008	–	–	–	●	–	–	–	–	–
EC020M02N00CR02	2	2,000	.079	0,050	.002	8,98	.353	–	–	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC020M02R06CR02	2	2,000	.079	0,050	.002	9,00	.353	6	–	–	–	0,20	.008	–	●	–	–	–	–	–
EC030M03L06CR02	3	3,000	.118	0,075	.003	9,60	.378	–	6	0,20	.008	–	–	–	●	–	–	–	–	–
EC030M03N00CR02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC030M03R06CR02	3	3,000	.118	0,075	.003	9,60	.378	6	–	–	–	0,20	.008	–	●	–	–	–	–	–
EC040M04L06CR02	4	4,000	.157	0,075	.003	10,20	.402	–	6	0,20	.008	–	–	–	●	–	–	–	–	–
EC040M04N00CR02	4	4,000	.158	0,075	.003	10,20	.402	–	–	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC040M04R06CR02	4	4,000	.157	0,075	.003	10,20	.402	6	–	–	–	0,20	.008	–	●	–	–	–	–	–
EC050M05N00CR03	5	5,000	.197	0,075	.003	12,25	.482	–	–	0,30	.012	0,30	.012	–	●	–	–	–	–	–
EC060M06L06CR04	6	6,000	.236	0,075	.003	14,59	.574	–	6	0,40	.016	–	–	–	●	–	–	–	–	–
EC060M06N00CR03	6	6,000	.236	0,075	.003	14,59	.574	–	–	0,30	.012	0,30	.012	–	●	–	–	–	–	–
EC060M06R06CR04	6	6,000	.236	0,075	.003	14,59	.574	6	–	–	–	0,40	.016	–	●	–	–	–	–	–
EC070M06N00CR04	6	7,000	.276	0,075	.003	14,60	.574	–	–	0,40	.016	0,40	.016	–	●	–	–	–	–	–
EC080M08L06CR04	8	8,000	.315	0,075	.003	17,50	.687	–	6	0,40	.016	–	–	–	●	–	–	–	–	–
EC080M08N00CR04	8	8,000	.315	0,075	.003	17,50	.687	–	–	0,40	.016	0,40	.016	–	●	–	–	–	–	–
EC080M08R06CR04	8	8,000	.315	0,075	.003	17,50	.687	6	–	–	–	0,40	.016	–	●	–	–	–	–	–

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

EVSML2525M0316030035C

EVSML160316030035C

Metric								
EV	**S**	**M**	**L**	**2525M**	**03**	**16**	**030035**	**C**
Inch								
EV	**S**	**M**	**L**	**16**	**03**	**16**	**030035**	**C**
Family Name	Tool Style	Support Type	Hand	Shank Size	Seat Size	Max Groove Depth	Face Grooving Diameters	Coolant
Beyond™ Evolution™	**S** = Straight mount		**L** = Left hand **R** = Right hand		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**030** = Minimum diameter in mm **035** = Maximum diameter in mm	**C** = Through the pocket coolant capable

M = Maximum support for specific groove width and straight clearance for unlimited workpiece diameter

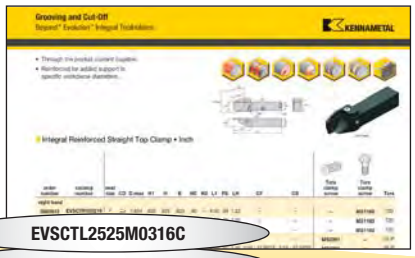
A = Face grooving-inboard sweep

B = Face grooving-outboard sweep

Metric = Height x Width in mm letter indicates tool length according to ISO

Inch = Height x Width in 1/16" increments

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



EVSCTL2525M0316C

EVSCTL160316C

Metric	EV	S	C	T	L	2525M	03	16	C
Inch	EV	S	C	T	L	16	03	16	C
	Family Name	Tool Style	Support Type	Clamping Screw Position	Hand	Shank Size	Seat Size	Max Groove Depth	Coolant
	Beyond™ Evolution™	**S** = Straight mount		**T** = Top **F** = Front	**L** = Left hand **R** = Right hand		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**C** = Through the pocket coolant capable

C = Reinforced support

Metric = Height x Width in mm letter indicates tool length according to ISO

Inch = Height x Width in 1/16" increments

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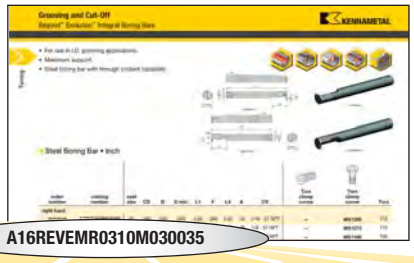
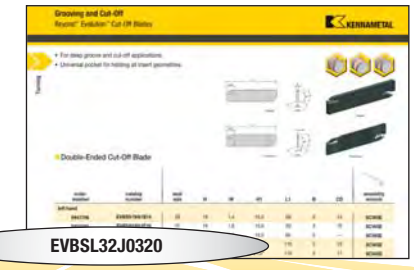


A16REVEMR0310M030035

A	16	R	EV	E	M	R	03	10	M	030035
Steel Bar with Coolant	Bar Diameter	Bar Length	Platform	Tool Type	Support Type	Hand of Tool	Insert Seat Size	Max Cutting Depth	Tool Units	Face Grooving Diameters
Steel boring bar with through coolant capability.	**Metric** = Diameter in mm **Inch** = Diameter in 1/16" increments		Beyond™ Evolution™	**E** = End mount (90°) **S** = Straight Mount	**M** = Maximum support **A** = Face Grooving-inboard sweep	**R** = Right hand **L** = Left hand	**1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**M** = Metric **I** = Inch	**030** = Minimum diameter in mm **035** = Maximum diameter in mm

symbol	mm	inch
K	125	5
M	150	6
Q	180	7
R	200	8
S	250	10
T	300	12



EVBSL32J0320

EV	B	S	L	32	J	03	20
Family Name	Tool Style	Support Type	Hand	Blade Height	Overall Length	Seat Size	Max Cutting Depth
Beyond™ Evolution™	**B** = 2 pocket blade	**S** = Standard **C** = Reinforced	**N** = Neutral **L** = Left hand **R** = Right hand	in millimeters	According to ISO **G** = 90mm **J** = 110mm **M** = 150mm **X** = Special	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters

How Do Catalog Numbers Work?

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KGMSL2525M50C

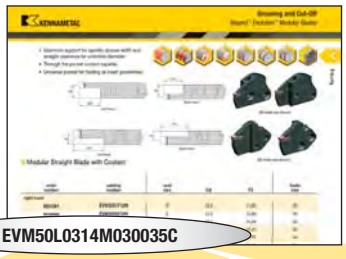
KGMSL1650C

Metric

KGM	S	L	2525M	50	C

Inch

KGM	S	L	16	50	C
Family Name	Tool Style	Hand	Shank Size	Blade Size	Coolant
Grooving Modular System	**S** = Straight mount **E** = End mount (90°)	**L** = Left hand **R** = Right hand	**Metric** = Height x Width in mm letter indicates tool length according to ISO **Inch** = Height x Width in 1/16" increments	**50** **65**	**C** = Through coolant capable



EVM50L0314M030035C

EVM	50	L	03	14	M	030035	C
Family Name	Blade Size	Hand	Seat Size	Max Groove Depth	Support Type	Face Grooving Diameters	Coolant
Beyond™ Evolution™ Modular Blade	**50** **65**	**L** = Left hand **R** = Right hand	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**M** = Maximum support for specific groove width and straight clearance for unlimited diameter **A** = Face grooving-inboard sweep **B** = Face grooving-outboard sweep	**030** = Minimum diameter in mm **035** = Maximum diameter in mm	**C** = Through the pocket coolant capable

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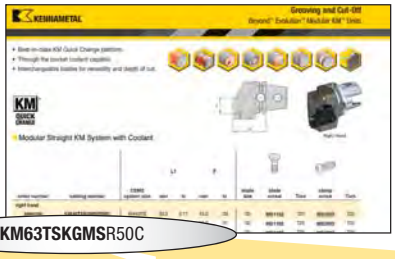
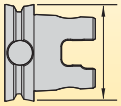
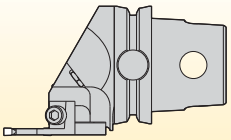
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

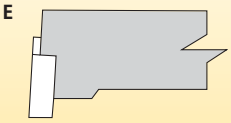


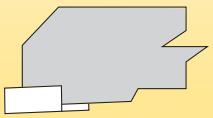
KM63TSKGMSR50C

KM	63	TS	KGM	S
KM™ Quick-Change	System Size	Feature	Insert Holding Method	Insert Location
KM™ **KM4X™** **PSC**	**40** = 40mm **50** = 50mm **63** = 63mm **80** = 80mm **100** = 100mm	**TS** **XMZ**	**KGM** **Modular Grooving**	**E** = End mount **S** = Side mount

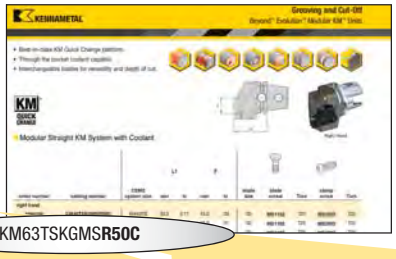








By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

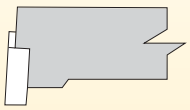


KM63TSKGMS**R50C**

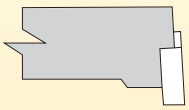
R	50	C	
Hand of Tool	Blade Size	Coolant	Special Features
R = Right hand **L** = Left hand	**50** **60**	**C** = Through the pocket coolant capable	**Y** = Mazak® INTEGREX®

End Mount

R

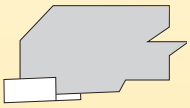


L

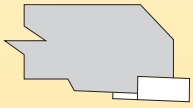


Side Mount

R

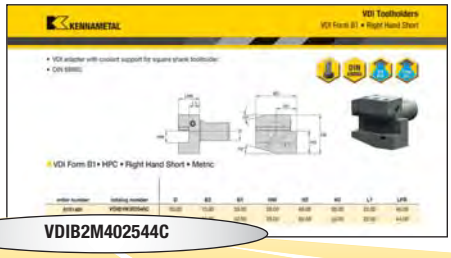


L



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



VDIB2M402544C

VDI	B2	M	40	25	44	C
Connection	Style	Metric	VDI Shank Diameter	Toolholder Shank Size	Projection Length	Internal Coolant

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

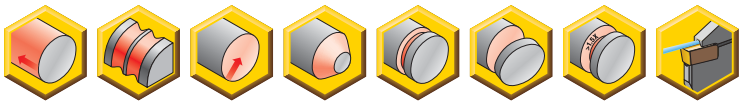
SELECT

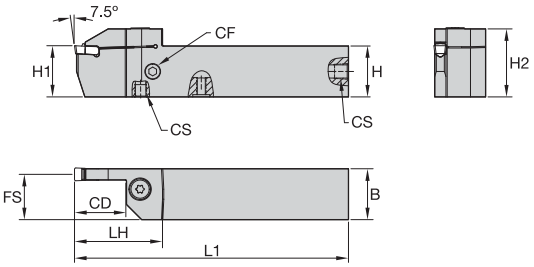
A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

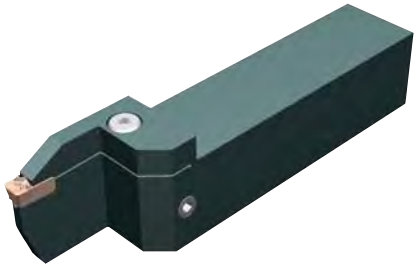
- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**

- Offers the greatest stability.
- Straight clearance for unlimited workpiece diameters.
- Through the pocket coolant capable.

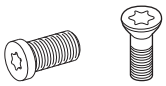






Left Hand

Integral Straight • Inch



order number	catalog number	seat size	CD	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand														
5956542	**EVSMR120216**	2	.63	.750	.750	1.03	4.50	.71	1.22	–	–	–	**MS1160**	T20
5956450	**EVSMR160216**	2	.63	1.000	1.000	1.28	6.00	.96	1.22	–	–	–	**MS1160**	T20
6401859	**EVSMR160216C**	2	.63	1.000	1.000	1.33	6.00	.96	1.39	G1/8 - 28	G1/8 - 28	**MS2091**	–	25 IP
5956541	**EVSMR120222**	2	.87	.750	.750	1.10	4.50	.71	1.50	–	–	**MS2091**	–	25 IP
6401860	**EVSMR120222C**	2	.87	.750	.750	1.09	4.50	.71	1.63	M8X1	M8X1	**MS2091**	–	25 IP
5956449	**EVSMR160226**	2	1.02	1.000	1.000	1.35	6.00	.96	1.65	–	–	**MS2091**	–	25 IP
6401858	**EVSMR160226C**	2	1.02	1.000	1.000	1.34	6.00	.96	1.78	G1/8 - 28	G1/8 - 28	**MS2091**	–	25 IP
5939462	**EVSMR120316C**	3	.63	.750	.750	1.09	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939458	**EVSMR160316C**	3	.63	1.000	1.000	1.34	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939461	**EVSMR120322C**	3	.87	.750	.750	1.10	4.50	.69	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939457	**EVSMR160326C**	3	1.02	1.000	1.000	1.35	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939460	**EVSMR120416C**	4	.63	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939456	**EVSMR160416C**	4	.63	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939459	**EVSMR120422C**	4	.87	.750	.750	1.10	4.50	.68	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939455	**EVSMR160426C**	4	1.02	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939454	**EVSMR200426C**	4	1.02	1.250	1.250	1.62	6.00	1.18	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5939463	**EVSMR200432C**	4	1.26	1.250	1.250	1.62	6.00	1.18	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955445	**EVSMR120516C**	5	.63	.750	.750	1.09	4.50	.66	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955441	**EVSMR160516C**	5	.63	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955444	**EVSMR120522C**	5	.87	.750	.750	1.10	4.50	.66	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955430	**EVSMR160526C**	5	1.02	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955446	**EVSMR200526C**	5	1.02	1.250	1.250	1.62	6.00	1.16	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955447	**EVSMR200532C**	5	1.26	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955443	**EVSMR120616C**	6	.63	.750	.750	1.09	4.50	.64	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955429	**EVSMR160616C**	6	.63	1.000	1.000	1.34	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955442	**EVSMR120622C**	6	.87	.750	.750	1.10	4.50	.64	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955428	**EVSMR160626C**	6	1.02	1.000	1.000	1.35	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955448	**EVSMR200626C**	6	1.02	1.250	1.250	1.62	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955449	**EVSMR200632C**	6	1.26	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955450	**EVSMR240640C**	6	1.58	1.500	1.500	1.93	7.00	1.39	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955427	**EVSMR160826C**	8	1.02	1.000	1.000	1.39	6.00	.86	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955451	**EVSMR200826C**	8	1.02	1.250	1.250	1.66	6.00	1.11	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955452	**EVSMR200832C**	8	1.26	1.250	1.250	1.66	6.00	1.11	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955453	**EVSMR240840C**	8	1.58	1.500	1.500	1.93	7.00	1.36	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955454	**EVSMR201032C**	10	1.26	1.250	1.250	1.69	6.00	1.08	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955455	**EVSMR241040C**	10	1.58	1.500	1.500	1.94	7.00	1.33	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45

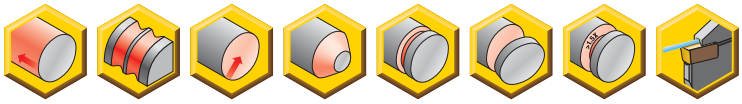
(continued)

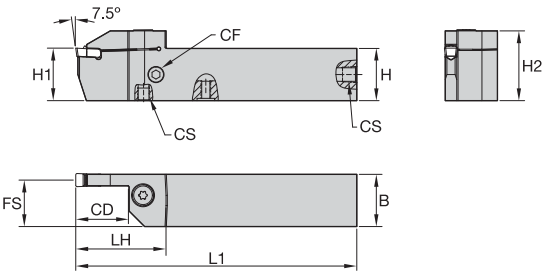
(Integral Straight • Inch — continued)

order number	catalog number	seat size	CD	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand														
5956543	EVSML120216	2	.63	.750	.750	1.03	4.50	.71	1.22	–	–	–	MS1160	T20
5956545	EVSML160216	2	.63	1.000	1.000	1.28	6.00	.96	1.22	–	–	–	MS1160	T20
5956544	EVSML120222	2	.87	.750	.750	1.10	4.50	.71	1.50	–	–	MS2091	–	25 IP
5956546	EVSML160226	2	1.02	1.000	1.000	1.35	6.00	.96	1.65	–	–	MS2091	–	25 IP
5939464	EVSML120316C	3	.63	.750	.750	1.09	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939466	EVSML160316C	3	.63	1.000	1.000	1.34	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939465	EVSML120322C	3	.87	.750	.750	1.10	4.50	.69	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939467	EVSML160326C	3	1.02	1.000	1.000	1.35	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939468	EVSML120416C	4	.63	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939470	EVSML160416C	4	.63	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939469	EVSML120422C	4	.87	.750	.750	1.10	4.50	.68	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939471	EVSML160426C	4	1.02	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939472	EVSML200426C	4	1.02	1.250	1.250	1.62	6.00	1.18	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5939453	EVSML200432C	4	1.26	1.250	1.250	1.62	6.00	1.18	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955456	EVSML120516C	5	.63	.750	.750	1.09	4.50	.66	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955459	EVSML160516C	5	.63	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955457	EVSML120522C	5	.87	.750	.750	1.10	4.50	.66	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955460	EVSML160526C	5	1.02	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955426	EVSML200526C	5	1.02	1.250	1.250	1.62	6.00	1.16	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955461	EVSML200532C	5	1.26	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955462	EVSML120616C	6	.63	.750	.750	1.09	4.50	.64	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955464	EVSML160616C	6	.63	1.000	1.000	1.34	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955463	EVSML120622C	6	.87	.750	.750	1.10	4.50	.64	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955465	EVSML160626C	6	1.02	1.000	1.000	1.35	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955466	EVSML200626C	6	1.02	1.250	1.250	1.62	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955467	EVSML200632C	6	1.26	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955468	EVSML240640C	6	1.58	1.500	1.500	1.93	7.00	1.39	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955469	EVSML160826C	8	1.02	1.000	1.000	1.39	6.00	.86	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955470	EVSML200826C	8	1.02	1.250	1.250	1.66	6.00	1.11	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955471	EVSML200832C	8	1.26	1.250	1.250	1.66	6.00	1.11	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955472	EVSML240840C	8	1.58	1.500	1.500	1.93	7.00	1.36	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955473	EVSML201032C	10	1.26	1.250	1.250	1.69	6.00	1.08	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955474	EVSML241040C	10	1.58	1.500	1.500	1.94	7.00	1.33	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

- Offers the greatest stability.
- Straight clearance for unlimited workpiece diameters.
- Through the pocket coolant capable.





Left Hand

Integral Straight • Metric

order number	catalog number	seat size	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand															
5953960	EVSMR2020K0216	2	16	20	20	20	27	125	19	31	–	–	–	MS1160	T20
5953958	EVSMR2525M0216	2	16	25	25	25	32	150	24	31	–	–	–	MS1160	T20
6401854	EVSMR2020K0216C	2	16	20	20	20	28	125	19	35	M8X1	M8X1	MS2091	–	25 IP
6401855	EVSMR2525M0216C	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	MS2091	–	25 IP
5953959	EVSMR2020K0222	2	22	20	20	20	29	125	19	38	–	–	MS2091	–	25 IP
6401857	EVSMR2020K0222C	2	22	20	20	20	29	125	19	41	M8X1	M8X1	MS2091	–	25 IP
5953957	EVSMR2525M0226	2	26	25	25	25	34	150	24	42	–	–	MS2091	–	25 IP
6401856	EVSMR2525M0226C	2	26	25	25	25	34	150	24	45	G1/8 - 28	G1/8 - 28	MS2091	–	25 IP
5939452	EVSMR2020K0316C	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939448	EVSMR2525M0316C	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939451	EVSMR2020K0322C	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939447	EVSMR2525M0326C	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939450	EVSMR2020K0416C	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939446	EVSMR2525M0416C	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939449	EVSMR2020K0422C	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939445	EVSMR2525M0426C	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939444	EVSMR3232P0426C	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5939443	EVSMR3232P0432C	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954258	EVSMR2020K0516C	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954254	EVSMR2525M0516C	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954257	EVSMR2020K0522C	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954253	EVSMR2525M0526C	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954249	EVSMR3232P0526C	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954248	EVSMR3232P0532C	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954256	EVSMR2020K0616C	6	16	20	20	20	29	125	20	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954252	EVSMR2525M0616C	6	16	25	25	25	34	150	25	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954255	EVSMR2020K0622C	6	22	20	20	20	29	125	20	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954251	EVSMR2525M0626C	6	26	25	25	25	34	150	25	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954247	EVSMR3232P0626C	6	26	32	32	32	42	170	32	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954246	EVSMR3232P0632C	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954242	EVSMR4040R0640C	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954250	EVSMR2525M0826C	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954245	EVSMR3232P0826C	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954244	EVSMR3232P0832C	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954241	EVSMR4040R0840C	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954243	EVSMR3232P1032C	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954240	EVSMR4040R1040C	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45

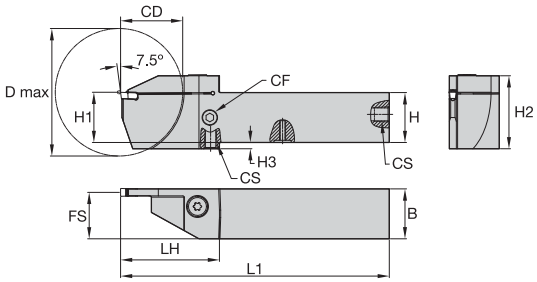
(continued)

(Integral Straight • Metric — continued)

order number	catalog number	seat size	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand															
5953956	EVSML2020K0216	2	16	20	20	20	27	125	19	31	—	—	—	MS1160	T20
5953954	EVSML2525M0216	2	16	25	25	25	32	150	24	31	—	—	—	MS1160	T20
6401881	EVSML2525M0216C	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	MS2091	—	25 IP
5953955	EVSML2020K0222	2	22	20	20	20	29	125	19	38	—	—	MS2091	—	25 IP
5953953	EVSML2525M0226	2	26	25	25	25	34	150	24	42	—	—	MS2091	—	25 IP
5939442	EVSML2020K0316C	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939438	EVSML2525M0316C	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939441	EVSML2020K0322C	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939437	EVSML2525M0326C	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939440	EVSML2020K0416C	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939436	EVSML2525M0416C	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939439	EVSML2020K0422C	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939435	EVSML2525M0426C	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939433	EVSML3232P0426C	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5939432	EVSML3232P0432C	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954239	EVSML2020K0516C	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954235	EVSML2525M0516C	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954238	EVSML2020K0522C	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954234	EVSML2525M0526C	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954220	EVSML3232P0526C	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954219	EVSML3232P0532C	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954237	EVSML2020K0616C	6	16	20	20	20	29	125	17	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954233	EVSML2525M0616C	6	16	25	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954236	EVSML2020K0622C	6	22	20	20	20	29	125	17	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954232	EVSML2525M0626C	6	26	25	25	25	34	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954218	EVSML3232P0626C	6	26	32	32	32	42	170	29	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954217	EVSML3232P0632C	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954213	EVSML4040R0640C	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954231	EVSML2525M0826C	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954216	EVSML3232P0826C	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954215	EVSML3232P0832C	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954212	EVSML4040R0840C	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954214	EVSML3232P1032C	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954211	EVSML4040R1040C	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

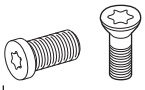
- Through the pocket coolant capable.
- Reinforced for added support in specific workpiece diameters.



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.

Left Hand

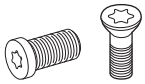
Integral Reinforced Straight Top Clamp • Inch



order number	catalog number	seat size	CD	D max	H1	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand																
6179398	**EVSCTR081B16**	1B	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179399	**EVSCTR081F16**	1F	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179400	**EVSCTR080216**	2	.63	1.654	.500	.500	.93	—	4.50	.46	1.22	—	—	**—**	**MS1160**	T20
5980815	**EVSCTR100216**	2	.63	1.654	.625	.625	.90	—	4.50	.59	1.22	—	—	**—**	**MS1160**	T20
5980818	**EVSCTR120216**	2	.63	1.654	.750	.750	1.03	—	4.50	.71	1.22	—	—	**—**	**MS1160**	T20
5980913	**EVSCTR160216**	2	.63	1.654	1.000	1.000	1.28	—	6.00	.96	1.22	—	—	**—**	**MS1160**	T20
5980914	**EVSCTR160226**	2	1.02	2.441	1.000	1.000	1.35	—	6.00	.96	1.65	—	—	**MS2091**	**—**	25 IP
6179721	**EVSCTR080316C**	3	.63	2.047	.500	.500	.93	.16	4.50	.45	1.32	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980816	**EVSCTR100316C**	3	.63	2.047	.625	.625	.92	—	4.50	.57	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980819	**EVSCTR120316C**	3	.63	2.047	.750	.750	1.09	—	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980915	**EVSCTR160316C**	3	.63	2.441	1.000	1.000	1.34	—	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980820	**EVSCTR120326C**	3	1.02	2.441	.750	.750	1.26	.16	4.50	.69	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980916	**EVSCTR160326C**	3	1.02	2.441	1.000	1.000	1.35	—	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980817	**EVSCTR100416C**	4	.63	2.047	.625	.625	.92	—	4.50	.55	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980911	**EVSCTR120416C**	4	.63	2.047	.750	.750	1.09	—	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980912	**EVSCTR120426C**	4	1.02	2.441	.750	.750	1.26	.16	4.50	.70	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980917	**EVSCTR160426C**	4	1.02	2.441	1.000	1.000	1.35	—	6.00	.92	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980918	**EVSCTR160432C**	4	1.26	2.520	1.000	1.000	1.51	.16	6.00	.92	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980932	**EVSCTR200432C**	4	1.26	2.520	1.250	1.250	1.62	—	6.00	1.25	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980919	**EVSCTR160526C**	5	1.02	2.441	1.000	1.000	1.35	—	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980920	**EVSCTR160532C**	5	1.26	2.441	1.000	1.000	1.53	.16	6.00	.91	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980933	**EVSCTR200540C**	5	1.58	3.228	1.250	1.250	1.82	.16	6.00	1.25	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
left hand																
6179722	**EVSCTL081B16**	1B	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179723	**EVSCTL081F16**	1F	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179724	**EVSCTL080216**	2	.63	1.654	.500	.500	.93	—	4.50	.46	1.22	—	—	**—**	**MS1160**	T20
5980938	**EVSCTL100216**	2	.63	1.654	.625	.625	.90	—	4.50	.59	1.22	—	—	**—**	**MS1160**	T20

(*continued*)

(Integral Reinforced Straight Top Clamp • Inch — continued)

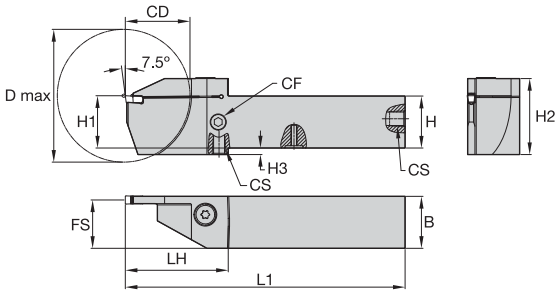


order number	catalog number	seat size	CD	D max	H1	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
5981011	**EVSCTL120216**	2	.63	1.654	.750	.750	1.03	—	4.50	.71	1.22	—	—	**—**	**MS1160**	T20
5981016	**EVSCTL160216**	2	.63	1.654	1.000	1.000	1.28	—	6.00	.96	1.22	—	—	**—**	**MS1160**	T20
5981017	**EVSCTL160226**	2	1.02	2.441	1.000	1.000	1.35	—	6.00	.96	1.65	—	—	**MS2091**	**—**	25 IP
6179725	**EVSCTL080316C**	3	.63	2.047	.500	.500	.93	.16	4.50	.45	1.32	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980939	**EVSCTL100316C**	3	.63	2.047	.625	.625	.92	—	4.50	.57	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5981012	**EVSCTL120316C**	3	.63	2.047	.750	.750	1.09	—	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981018	**EVSCTL160316C**	3	.63	2.441	1.000	1.000	1.34	—	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981013	**EVSCTL120326C**	3	1.02	2.441	.750	.750	1.26	.16	4.50	.69	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981019	**EVSCTL160326C**	3	1.02	2.441	1.000	1.000	1.35	—	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980940	**EVSCTL100416C**	4	.63	2.047	.625	.625	.92	—	4.50	.55	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5981014	**EVSCTL120416C**	4	.63	2.047	.750	.750	1.09	—	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981015	**EVSCTL120426C**	4	1.02	2.441	.750	.750	1.26	.16	4.50	.70	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981020	**EVSCTL160426C**	4	1.02	2.441	1.000	1.000	1.35	—	6.00	.92	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981021	**EVSCTL160432C**	4	1.26	2.520	1.000	1.000	1.51	.16	6.00	.92	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981024	**EVSCTL200432C**	4	1.26	2.520	1.250	1.250	1.62	—	6.00	1.25	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981022	**EVSCTL160526C**	5	1.02	2.441	1.000	1.000	1.35	—	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981023	**EVSCTL160532C**	5	1.26	2.520	1.000	1.000	1.53	.16	6.00	.91	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981025	**EVSCTL200540C**	5	1.58	3.228	1.250	1.250	1.82	.16	6.00	1.25	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Through the pocket coolant capable.
- Reinforced for added support in specific workpiece diameters.



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.

Left Hand

Integral Reinforced Straight Top Clamp • Metric

order number	catalog number	seat size	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand																	
6179757	**EVSCTR1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
6179758	**EVSCTR1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
6179759	**EVSCTR1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
5980139	**EVSCTR1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	—	**MS1160**	T20
5980762	**EVSCTR2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	—	**MS1160**	T20
5980767	**EVSCTR2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	—	**MS1160**	T20
5980768	**EVSCTR2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	—	25 IP
6179755	**EVSCTR1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	—	T25
5980140	**EVSCTR1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	—	25 IP
5980763	**EVSCTR2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980138	**EVSCTR2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980764	**EVSCTR2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980769	**EVSCTR2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980761	**EVSCTR1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	—	25 IP
5980765	**EVSCTR2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980766	**EVSCTR2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980770	**EVSCTR2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980771	**EVSCTR2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980774	**EVSCTR3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980772	**EVSCTR2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980773	**EVSCTR2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980775	**EVSCTR3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	—	T45

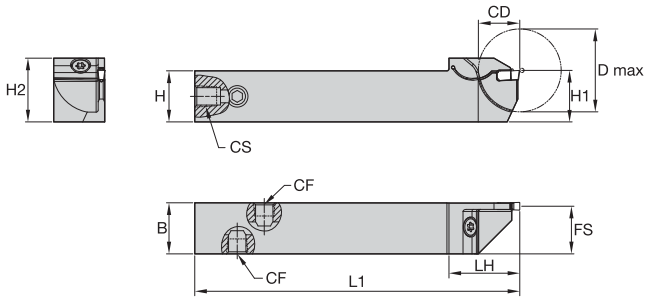
(continued)

(Integral Reinforced Straight Top Clamp • Metric — continued)

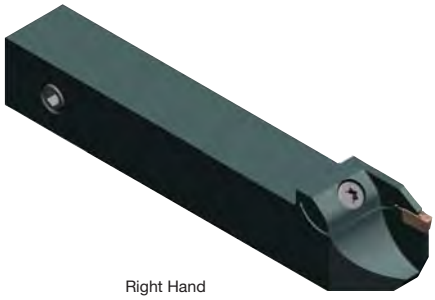
order number	catalog number	seat size	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand																	
6179760	**EVSCTL1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179761	**EVSCTL1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179762	**EVSCTL1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
5980777	**EVSCTL1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	**—**	**MS1160**	T20
5980780	**EVSCTL2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	**—**	**MS1160**	T20
5980805	**EVSCTL2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	**—**	**MS1160**	T20
5980806	**EVSCTL2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	**—**	25 IP
6179756	**EVSCTL1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980778	**EVSCTL1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980801	**EVSCTL2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980776	**EVSCTL2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980802	**EVSCTL2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980807	**EVSCTL2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980779	**EVSCTL1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980803	**EVSCTL2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980804	**EVSCTL2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980808	**EVSCTL2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980809	**EVSCTL2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980812	**EVSCTL3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980810	**EVSCTL2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980811	**EVSCTL2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980813	**EVSCTL3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.



Right Hand

Integral Reinforced Front Clamp • Inch

order number	catalog number	seat size	CD	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand														
6180116	**EVSCFR061B10**	1B	.39	.787	.375	.375	.53	4.50	.35	.81	—	—	**191.916**	T15
6180119	**EVSCFR081B10**	1B	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6180120	**EVSCFR081B13**	1B	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6180129	**EVSCFR101B16**	1B	.63	1.260	.625	.625	.80	4.50	.60	1.04	—	—	**MS1160**	T20
6180143	**EVSCFR121B16**	1B	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6180117	**EVSCFR061F10**	1F	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6180121	**EVSCFR081F10**	1F	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6180124	**EVSCFR081F13**	1F	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6180130	**EVSCFR101F16**	1F	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6180144	**EVSCFR121F16**	1F	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6180118	**EVSCFR060210**	2	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6180125	**EVSCFR080210**	2	.39	.787	.500	.500	.66	4.50	.46	.81	—	—	**191.916**	T15
6180126	**EVSCFR080216**	2	.63	1.260	.500	.500	.66	4.50	.46	1.04	—	—	**191.916**	T15
6180141	**EVSCFR100216**	2	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6180146	**EVSCFR120216**	2	.63	1.260	.750	.750	.93	4.50	.71	1.04	—	—	**MS1160**	T20
6180127	**EVSCFR080310C**	3	.39	.787	.500	.500	.69	4.50	.44	.85	M8X1.25	M8X1.25	**191.916**	T15
6180128	**EVSCFR080316C**	3	.63	1.260	.500	.500	.69	4.50	.44	1.08	M8X1.25	M8X1.25	**191.916**	T15
6180142	**EVSCFR100316C**	3	.63	1.260	.625	.625	.81	4.50	.57	1.08	M8X1.25	M8X1.25	**MS1160**	T20
6180147	**EVSCFR120316C**	3	.63	1.260	.750	.750	.94	4.50	.69	1.08	M8X1.25	M8X1.25	**MS1160**	T20

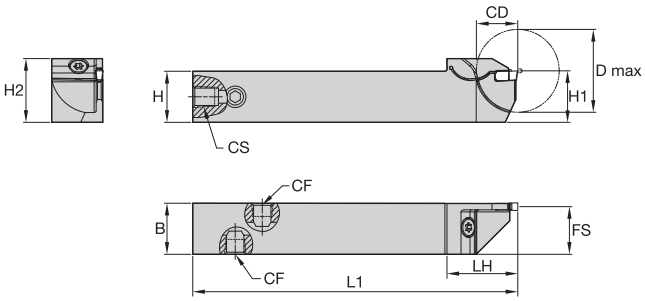
(continued)

(Integral Reinforced Front Clamp • Inch — continued)

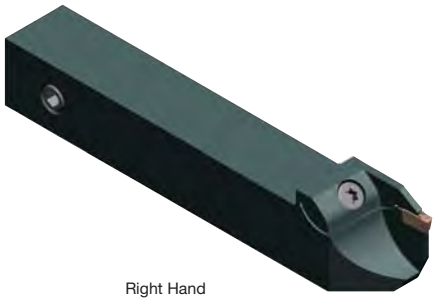
order number	catalog number	seat size	CD	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
left hand														
6179726	**EVSCFL061B10**	1B	.39	.787	.375	.375	.53	4.50	.35	.81	—	—	**191.916**	T15
6179729	**EVSCFL081B10**	1B	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6179730	**EVSCFL081B13**	1B	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6179737	**EVSCFL101B16**	1B	.63	1.260	.625	.625	.80	4.50	.60	1.04	—	—	**MS1160**	T20
6179751	**EVSCFL121B16**	1B	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6179727	**EVSCFL061F10**	1F	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6179731	**EVSCFL081F10**	1F	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6179732	**EVSCFL081F13**	1F	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6179738	**EVSCFL101F16**	1F	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6179752	**EVSCFL121F16**	1F	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6179728	**EVSCFL060210**	2	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6179733	**EVSCFL080210**	2	.39	.787	.500	.500	.66	4.50	.46	.81	—	—	**191.916**	T15
6179734	**EVSCFL080216**	2	.63	1.260	.500	.500	.66	4.50	.46	1.04	—	—	**191.916**	T15
6179739	**EVSCFL100216**	2	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6179753	**EVSCFL120216**	2	.63	1.260	.750	.750	.93	4.50	.71	1.04	—	—	**MS1160**	T20
6179735	**EVSCFL080310C**	3	.39	.787	.500	.500	.69	4.50	.44	.85	M8X1.25	M8X1.25	**191.916**	T15
6179736	**EVSCFL080316C**	3	.63	1.260	.500	.500	.69	4.50	.44	1.08	M8X1.25	M8X1.25	**191.916**	T15
6179740	**EVSCFL100316C**	3	.63	1.260	.625	.625	.81	4.50	.57	1.08	M8X1.25	M8X1.25	**MS1160**	T20
6179754	**EVSCFL120316C**	3	.63	1.260	.750	.750	.94	4.50	.69	1.08	M8X1.25	M8X1.25	**MS1160**	T20

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.



Right Hand

Integral Reinforced Front Clamp • Metric

order number	catalog number	seat size	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6179763	**EVSCFR1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179766	**EVSCFR1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179767	**EVSCFR1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179774	**EVSCFR1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179778	**EVSCFR2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179764	**EVSCFR1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179768	**EVSCFR1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179769	**EVSCFR1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179775	**EVSCFR1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179779	**EVSCFR2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179765	**EVSCFR1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179770	**EVSCFR1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179771	**EVSCFR1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179776	**EVSCFR1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179780	**EVSCFR2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179772	**EVSCFR1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1.25	M8X1.25	**191.916**	T15
6179773	**EVSCFR1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1.25	M8X1.25	**191.916**	T15
6179777	**EVSCFR1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1.25	M8X1.25	**MS1160**	T20
6179781	**EVSCFR2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1.25	M8X1.25	**MS1160**	T20

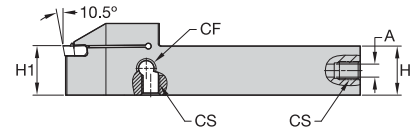
(continued)

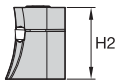
(Integral Reinforced Front Clamp • Metric — continued)

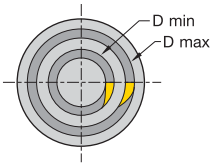
order number	catalog number	seat size	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
left hand															
6179709	**EVSCFL1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179922	**EVSCFL1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179923	**EVSCFL1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179930	**EVSCFL1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179934	**EVSCFL2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179710	**EVSCFL1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179924	**EVSCFL1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179925	**EVSCFL1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179931	**EVSCFL1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179935	**EVSCFL2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179921	**EVSCFL1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179926	**EVSCFL1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179927	**EVSCFL1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179932	**EVSCFL1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179936	**EVSCFL2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179928	**EVSCFL1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1.25	M8X1.25	**191.916**	T15
6179929	**EVSCFL1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1.25	M8X1.25	**191.916**	T15
6179933	**EVSCFL1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1.25	M8X1.25	**MS1160**	T20
6179937	**EVSCFL2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1.25	M8X1.25	**MS1160**	T20

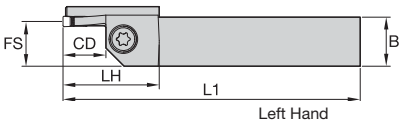
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

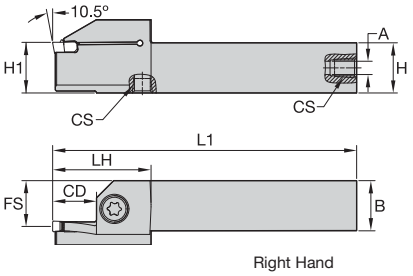


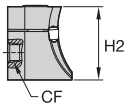


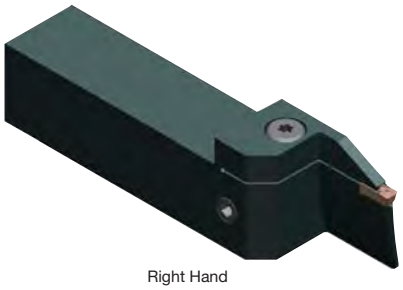




Left Hand






Right Hand

Integral Face Grooving Straight Outboard • Inch

order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6080418	**EVSBR1203120350 40C**	3	.47	1.378	1.575	.751	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117117	**EVSBR1203120400 50C**	3	.47	1.575	1.969	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117119	**EVSBR1203120500 60C**	3	.47	1.969	2.362	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117351	**EVSBR1203120600 75C**	3	.47	2.362	2.953	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117353	**EVSBR1203120750 100C**	3	.47	2.953	3.937	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080489	**EVSBR1603121001 80C**	3	.47	3.937	7.087	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080491	**EVSBR1603121802 50C**	3	.47	7.087	9.843	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080477	**EVSBR1603200600 75C**	3	.79	2.362	2.953	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080479	**EVSBR1603200751 00C**	3	.79	2.953	3.937	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080481	**EVSBR1603201001 80C**	3	.79	3.937	7.087	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080483	**EVSBR1603201802 50C**	3	.79	7.087	9.843	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080419	**EVSBR1204160400 50C**	4	.63	1.575	1.969	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080475	**EVSBR1204160500 60C**	4	.63	1.969	2.362	.750	.750	1.34	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117355	**EVSBR1204160600 75C**	4	.63	2.362	2.953	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117357	**EVSBR1204160751 00C**	4	.63	2.953	3.937	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117402	**EVSBR1604161001 80C**	4	.63	3.937	7.087	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117404	**EVSBR1604161802 50C**	4	.63	7.087	9.843	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117359	**EVSBR1604260600 75C**	4	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117381	**EVSBR1604260751 00C**	4	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117383	**EVSBR1604261001 80C**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117386	**EVSBR1604261802 50C**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080420	**EVSBR1605160500 60C**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117166	**EVSBR1605160600 75C**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117170	**EVSBR1605160751 00C**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117264	**EVSBR1605161001 80C**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117268	**EVSBR1605161802 50C**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117272	**EVSBR1605162503 50C**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

(continued)

(Integral Face Grooving Straight Outboard • Inch — continued)

order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6117276	**EVSBR160516350999C**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117164	**EVSBR160526050060C**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117168	**EVSBR160526060075C**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117262	**EVSBR160526075100C**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117280	**EVSBR200532100180C**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117282	**EVSBR200532180250C**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117284	**EVSBR200532250350C**	5	1.26	9.843	13.780	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117286	**EVSBR200532350999C**	5	1.26	13.780	39.331	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079180	**EVSBR160616060075C**	6	.63	2.362	2.953	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079354	**EVSBR160616075100C**	6	.63	2.953	3.937	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079358	**EVSBR160616100180C**	6	.63	3.937	7.087	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079362	**EVSBR160616180250C**	6	.63	7.087	9.843	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079366	**EVSBR160616250350C**	6	.63	9.843	13.780	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079370	**EVSBR160616350999C**	6	.63	13.780	39.331	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079352	**EVSBR160626060075C**	6	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079356	**EVSBR160626075100C**	6	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079374	**EVSBR200632100180C**	6	1.26	3.937	7.087	1.250	1.000	1.66	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079376	**EVSBR200632180250C**	6	1.26	7.087	9.843	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079378	**EVSBR200632250350C**	6	1.26	9.843	13.780	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079380	**EVSBR200632350999C**	6	1.26	13.780	39.331	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
left hand															
6117118	**EVSBL120312040050C**	3	.47	1.575	1.969	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117120	**EVSBL120312050060C**	3	.47	1.969	2.362	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117352	**EVSBL120312060075C**	3	.47	2.362	2.953	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117354	**EVSBL120312075100C**	3	.47	2.953	3.937	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080472	**EVSBL120312035040C**	3	.47	1.378	1.575	.751	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080490	**EVSBL160312100180C**	3	.47	3.937	7.087	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080492	**EVSBL160312180250C**	3	.47	7.087	9.843	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080480	**EVSBL160320075100C**	3	.79	2.953	3.937	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080482	**EVSBL160320100180C**	3	.79	3.937	7.087	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080484	**EVSBL160320180250C**	3	.79	7.087	9.843	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080478	**EVSBL160320060075C**	3	.79	2.362	2.953	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080473	**EVSBL120416040050C**	4	.63	1.575	1.969	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080476	**EVSBL120416050060C**	4	.63	1.969	2.362	.750	.750	1.34	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117356	**EVSBL120416060075C**	4	.63	2.362	2.953	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117358	**EVSBL120416075100C**	4	.63	2.953	3.937	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117403	**EVSBL160416100180C**	4	.63	3.937	7.087	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117405	**EVSBL160416180250C**	4	.63	7.087	9.843	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117360	**EVSBL160426060075C**	4	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117382	**EVSBL160426075100C**	4	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117384	**EVSBL160426100180C**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117387	**EVSBL160426180250C**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080474	**EVSBL160516050060C**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117167	**EVSBL160516060075C**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117261	**EVSBL160516075100C**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117265	**EVSBL160516100180C**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117269	**EVSBL160516180250C**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117273	**EVSBL160516250350C**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117277	**EVSBL160516350999C**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117165	**EVSBL160526050060C**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117169	**EVSBL160526060075C**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117263	**EVSBL160526075100C**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117281	**EVSBL200532100180C**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117283	**EVSBL200532180250C**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

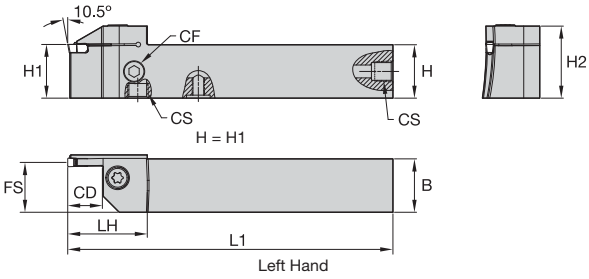
(continued)

(Integral Face Grooving Straight Outboard • Inch — continued)

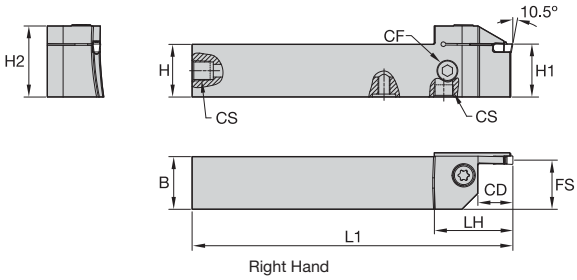
order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6117384	**EVSBL1604261001800**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117387	**EVSBL1604261802500**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080474	**EVSBL1605160500600**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117167	**EVSBL1605160600750**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117261	**EVSBL1605160751000**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117265	**EVSBL1605161001800**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117269	**EVSBL1605161802500**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117273	**EVSBL1605162503500**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117277	**EVSBL1605163509990**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117165	**EVSBL1605260500600**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117169	**EVSBL1605260600750**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117263	**EVSBL1605260751000**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117281	**EVSBL2005321001800**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117283	**EVSBL2005321802500**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117285	**EVSBL2005322503500**	5	1.26	9.843	13.780	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117287	**EVSBL2005323509990**	5	1.26	13.780	39.331	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079351	**EVSBL1606160600750**	6	.63	2.362	2.953	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079355	**EVSBL1606160751000**	6	.63	2.953	3.937	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079359	**EVSBL1606161001800**	6	.63	3.937	7.087	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079363	**EVSBL1606161802500**	6	.63	7.087	9.843	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079367	**EVSBL1606162503500**	6	.63	9.843	13.780	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079371	**EVSBL1606163509990**	6	.63	13.780	39.331	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079353	**EVSBL1606260600750**	6	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079357	**EVSBL1606260751000**	6	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079375	**EVSBL2006321001800**	6	1.26	3.937	7.087	1.250	1.000	1.66	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079377	**EVSBL2006321802500**	6	1.26	7.087	9.843	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079379	**EVSBL2006322503500**	6	1.26	9.843	13.780	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079381	**EVSBL2006323509990**	6	1.26	13.780	39.331	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45

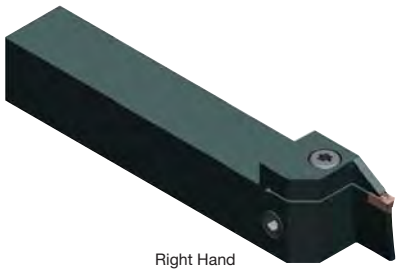
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



Left Hand




Right Hand

Integral Face Grooving Straight Outboard • Metric

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6080031	EVSBR2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116561	EVSBR2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T20
6116563	EVSBR2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116567	EVSBR2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116569	EVSBR2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080067	EVSBR2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080069	EVSBR2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080053	EVSBR2525M0320060075C	3	20	75	60	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080055	EVSBR2525M0320075100C	3	20	100	75	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080057	EVSBR2525M0320100180C	3	20	180	100	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080060	EVSBR2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080033	EVSBR2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080040	EVSBR2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116571	EVSBR2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116573	EVSBR2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116587	EVSBR2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116589	EVSBR2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116575	EVSBR2525M0426060075C	4	26	75	60	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116577	EVSBR2525M0426075100C	4	26	100	75	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116579	EVSBR2525M0426100180C	4	26	180	100	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116581	EVSBR2525M0426180250C	4	26	250	180	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080035	EVSBR2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124200	EVSBR2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124214	EVSBR2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124218	EVSBR2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124222	EVSBR2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124226	EVSBR2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(continued)

(Integral Face Grooving Straight Outboard • Metric — continued)

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6124230	EVSBR2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124198	EVSBR2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124212	EVSBR2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124216	EVSBR2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124235	EVSBR3232P0532100180C	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124237	EVSBR3232P0532180250C	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124239	EVSBR3232P0532250350C	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124241	EVSBR3232P0532350999C	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124605	EVSBR2525M0616060075C	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124609	EVSBR2525M0616075100C	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124673	EVSBR2525M0616100180C	6	16	180	100	25	25	31	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124677	EVSBR2525M0616180250C	6	16	250	180	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124681	EVSBR2525M0616250350C	6	16	350	250	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124685	EVSBR2525M0616350999C	6	16	999	350	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124607	EVSBR2525M0626060075C	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124671	EVSBR2525M0626075100C	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124689	EVSBR3232P0632100180C	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124691	EVSBR3232P0632180250C	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124693	EVSBR3232P0632250350C	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124695	EVSBR3232P0632350999C	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
left hand															
6080037	EVSBL2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116562	EVSBL2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116564	EVSBL2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116568	EVSBL2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116570	EVSBL2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080068	EVSBL2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080070	EVSBL2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080054	EVSBL2525M0320060075C	3	20	75	60	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080056	EVSBL2525M0320075100C	3	20	100	75	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080059	EVSBL2525M0320100180C	3	20	180	100	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080061	EVSBL2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080038	EVSBL2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080051	EVSBL2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116572	EVSBL2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116574	EVSBL2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116588	EVSBL2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116590	EVSBL2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116576	EVSBL2525M0426060075C	4	26	75	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116578	EVSBL2525M0426075100C	4	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116580	EVSBL2525M0426100180C	4	26	180	100	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116582	EVSBL2525M0426180250C	4	26	250	180	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080039	EVSBL2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124211	EVSBL2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124215	EVSBL2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124219	EVSBL2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124223	EVSBL2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124227	EVSBL2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124232	EVSBL2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124199	EVSBL2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124213	EVSBL2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124217	EVSBL2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(continued)

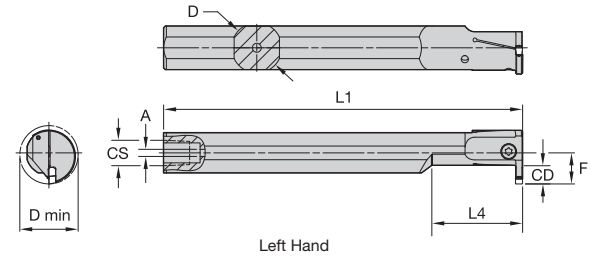
(Integral Face Grooving Straight Outboard • Metric — continued)

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6124236	**EVSBL3232P0532100180C**	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124238	**EVSBL3232P0532180250C**	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124240	**EVSBL3232P0532250350C**	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124242	**EVSBL3232P0532350999C**	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124606	**EVSBL2525M0616060075C**	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124610	**EVSBL2525M0616075100C**	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124674	**EVSBL2525M0616100180C**	6	16	180	100	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124678	**EVSBL2525M0616180250C**	6	16	250	180	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124682	**EVSBL2525M0616250350C**	6	16	350	250	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124686	**EVSBL2525M0616350999C**	6	16	999	350	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124608	**EVSBL2525M0626060075C**	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124672	**EVSBL2525M0626075100C**	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124690	**EVSBL3232P0632100180C**	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124692	**EVSBL3232P0632180250C**	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124694	**EVSBL3232P0632250350C**	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124696	**EVSBL3232P0632350999C**	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45

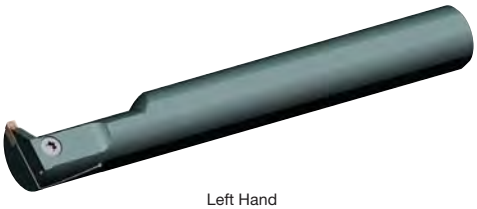
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

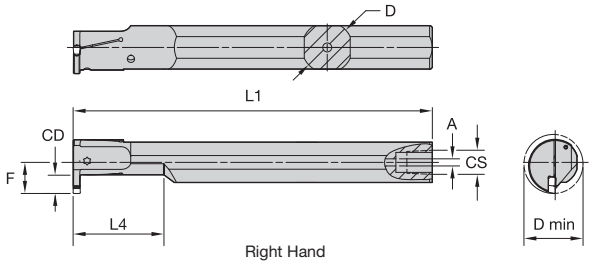
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- For use in I.D. grooving applications.
- Maximum support.
- Steel boring bar with through coolant capability.

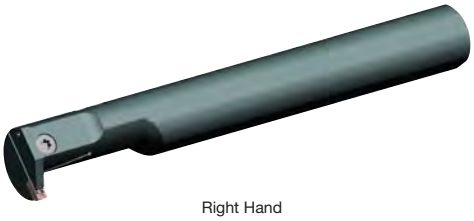


Left Hand


Left Hand



Right Hand


Right Hand

Steel Boring Bar • Inch

order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
right hand													
5980635	**A08KEVEMR1F05I**	1F	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	–	**MS1285**	T15
5980637	**A10MEVEMR1F07I**	1F	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5980639	**A12QEVEMR1F07I**	1F	.276	.750	1.000	7.09	.550	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5980636	**A08KEVEMR0205I**	2	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	–	**MS1285**	T15
5980638	**A10MEVEMR0207I**	2	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5980640	**A12QEVEMR0207I**	2	.276	.750	.984	7.09	.550	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5980671	**A16REVEMR0210I**	2	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954291	**A10MEVEMR0307I**	3	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5954292	**A12QEVEMR0307I**	3	.276	.750	.984	7.09	.549	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5954293	**A16REVEMR0310I**	3	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954295	**A20SEVEMR0312I**	3	.472	1.250	1.500	9.84	.832	2.00	.25	1/4 - 18 NPT	**MS1595**	–	T25
5954294	**A16REVEMR0410I**	4	.394	1.000	1.250	7.87	.681	2.50	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954296	**A20SEVEMR0412I**	4	.472	1.250	1.500	9.84	.832	2.50	.25	1/4 - 18 NPT	**MS1595**	–	T30

(continued)

(Steel Boring Bar • Inch — continued)

order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
left hand													
5980672	**A08KEVEML1F05I**	1F	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	**–**	**MS1285**	T15
5980674	**A10MEVEML1F07I**	1F	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**–**	**MS1273**	T15
5980676	**A12QEVEML1F07I**	1F	.276	.750	1.000	7.09	.550	1.50	.16	1/8 - 27 NPT	**–**	**MS1160**	T20
5980673	**A08KEVEML0205I**	2	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	**–**	**MS1285**	T15
5980675	**A10MEVEML0207I**	2	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**–**	**MS1273**	T15
5980677	**A12QEVEML0207I**	2	.276	.750	.984	7.09	.550	1.50	.16	1/8 - 27 NPT	**–**	**MS1160**	T20
5980678	**A16REVEML0210I**	2	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**–**	**MS1162**	T25
5954297	**A10MEVEML0307I**	3	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**–**	**MS1273**	T15
5954298	**A12QEVEML0307I**	3	.276	.750	.984	7.09	.549	1.50	.16	1/8 - 27 NPT	**–**	**MS1160**	T20
5954299	**A16REVEML0310I**	3	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**–**	**MS1162**	T25
5954301	**A20SEVEML0312I**	3	.472	1.250	1.500	9.84	.832	2.00	.25	1/4 - 18 NPT	**MS1595**	**–**	T30
5954300	**A16REVEML0410I**	4	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**–**	**MS1162**	T25
5954302	**A20SEVEML0412I**	4	.472	1.250	1.500	9.84	.832	2.50	.25	1/4 - 18 NPT	**MS1595**	**–**	T30

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- For use in I.D. grooving applications.
- Maximum support.
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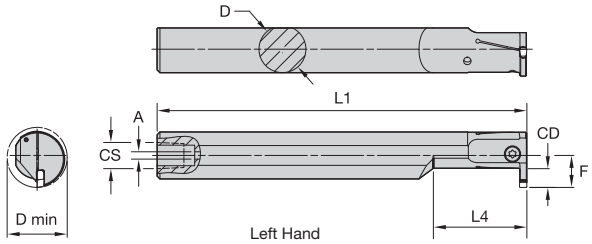
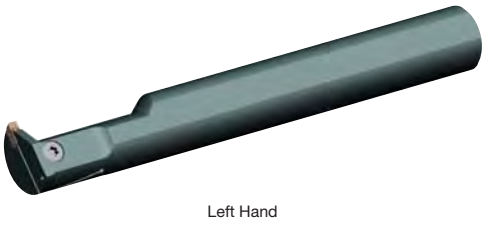
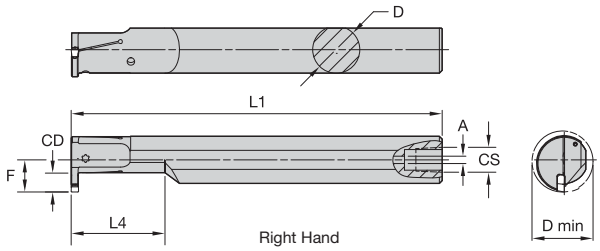



Left Hand



Right Hand

Steel Boring Bar • Metric

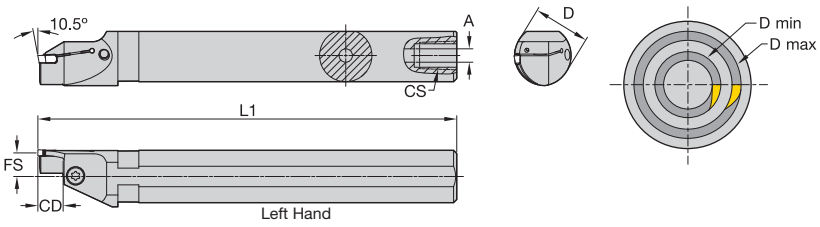
order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
right hand													
5980518	**A12KEVEMR1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPT	–	**MS1285**	T15
5980520	**A16MEVEMR1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5980622	**A20QEVEMR1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980519	**A12KEVEMR0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980621	**A16MEVEMR0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980623	**A20QEVEMR0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980624	**A25REVEMR0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954259	**A16MEVEMR0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5954260	**A20QEVEMR0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	–	**MS1160**	T20
5954281	**A25REVEMR0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954283	**A32SEVEMR0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30
5954282	**A25REVEMR0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954284	**A32SEVEMR0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30

(continued)

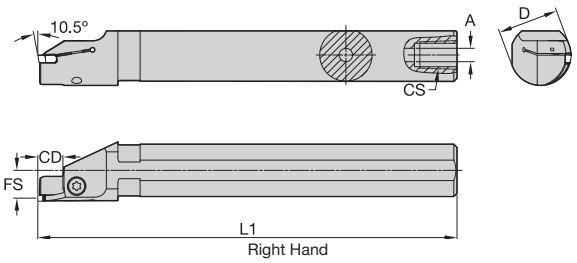
(Steel Boring Bar • Metric — continued)

order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
left hand													
5980625	**A12KEVEML1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	—	**MS1285**	T15
5980627	**A16MEVEML1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	—	**MS1273**	T15
5980629	**A20QEVEML1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	—	**MS1160**	T20
5980626	**A12KEVEML0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	—	**MS1285**	T15
5980628	**A16MEVEML0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	—	**MS1273**	T15
5980630	**A20QEVEML0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	—	**MS1160**	T20
5980631	**A25REVEML0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	—	**MS1162**	T25
5954285	**A16MEVEML0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	—	**MS1273**	T15
5954286	**A20QEVEML0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	—	**MS1160**	T20
5954287	**A25REVEML0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 27 NPT	—	**MS1162**	T25
5954289	**A32SEVEML0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 27 NPT	**MS1595**	—	T30
5954288	**A25REVEML0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	—	**MS1162**	T25
5954290	**A32SEVEML0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	—	T30

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



Left Hand

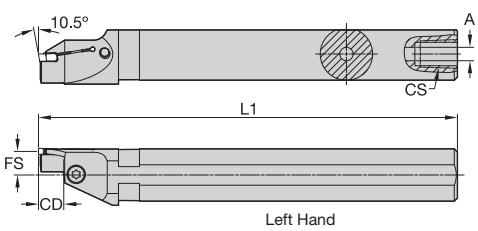


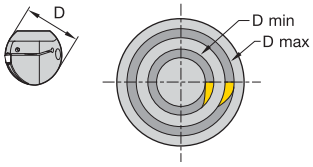
Right Hand

Steel Face Grooving Boring Bar • Inch

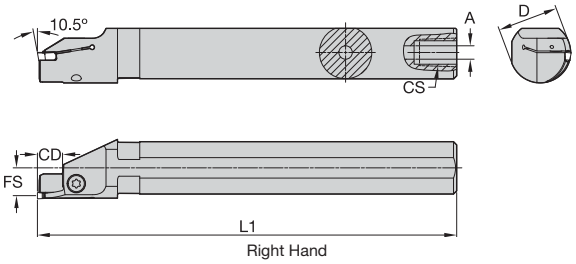
order number	catalog number	seat size	CD	D	D min	D max	L1	F	CS	Torx clamp screw	Torx
right hand											
6116533	**A16REVSAR0212I026030**	2	.472	1.000	1.024	1.181	7.87	.510	1/4-18 NPT	**MS1160**	T20
6116534	**A16REVSAR0312I030035**	3	.472	1.000	1.181	1.378	7.87	.510	1/4-18 NPT	**MS1162**	T25
6116529	**A20SEVSAR0312I033042**	3	.472	1.250	1.299	1.654	9.84	.635	1/4-18 NPT	**MS1162**	T25
6116531	**A24TEVSAR0312I041050**	3	.472	1.500	1.614	1.969	11.81	.760	1/4-18 NPT	**MS1162**	T25
left hand											
6116539	**A16REVSAL0212I026030**	2	.472	1.000	1.024	1.181	7.87	.510	1/4-18 NPT	**MS1160**	T20
6116540	**A16REVSAL0312I030035**	3	.472	1.000	1.181	1.378	7.87	.510	1/4-18 NPT	**MS1162**	T25
6116530	**A20SEVSAL0312I033042**	3	.472	1.250	1.295	1.303	9.84	.635	1/4-18 NPT	**MS1162**	T25
6116532	**A24TEVSAL0312I041050**	3	.472	1.500	1.610	1.618	11.81	.760	1/4-18 NPT	**MS1162**	T25

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**





Left Hand



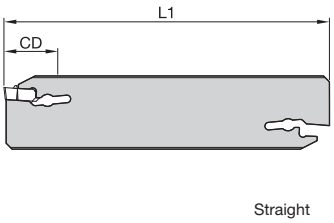
Right Hand

Steel Face Grooving Boring Bar • Metric

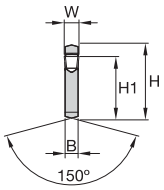
order number	catalog number	seat size	CD	D	D min	D max	L1	F	CS	Torx clamp screw	Torx
right hand											
6116521	**A25REVSAR0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116522	**A25REVSAR0312M030035**	3	12,00	25	30	35	200	13	–	**MS1162**	T25
6116297	**A32SEVSAR0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	**MS1162**	T25
6116299	**A40TEVSAR0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25
left hand											
6116527	**A25REVSAL0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116528	**A25REVSAL0312M030035**	3	12,00	25	30	35	200	13	1/4-18 NPT	**MS1162**	T25
6116298	**A32SEVSAL0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	–	T25
6116300	**A40TEVSAL0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25

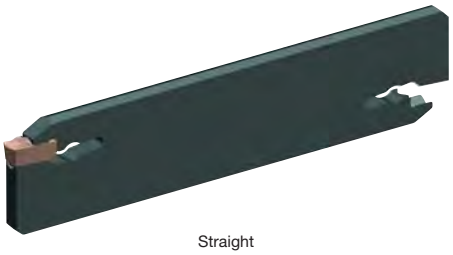
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- For deep groove and cut-off applications.
- Universal pocket for holding all insert geometries.

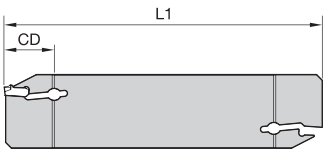


Straight

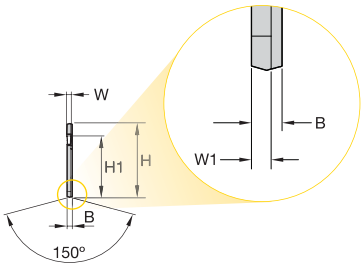


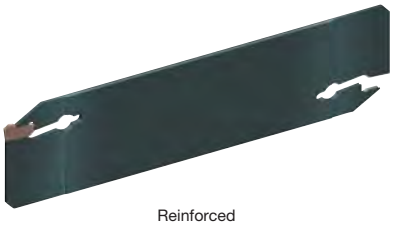


Straight



Reinforced





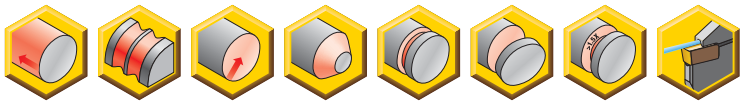
Reinforced

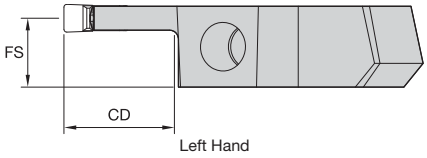
Double-Ended Cut-Off Blade

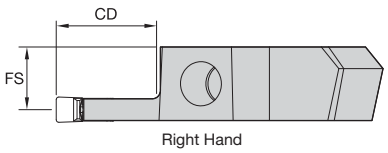
order number	catalog number	seat size	H	W	W1	H1	L1	B	CD	assembly wrench
left hand										
5941706	**EVBSN19G1B14**	1B	19	1,4	1,15	15,5	90	1,80	14	**SCW5E**
5941708	**EVBSN26J1B15**	1B	26	1,4	1,15	21,5	110	1,80	15	**SCW5E**
5955391	**EVBSN19G1F16**	1F	19	1,6	1,30	15,5	90	1,80	16	**SCW5E**
5955392	**EVBSN26J1F17**	1F	26	1,6	1,30	21,5	110	1,80	17	**SCW5E**
5941707	**EVBSN19G0220**	2	19	2,0	–	15,5	90	1,65	–	**SCW5E**
5941709	**EVBSN26J0230**	2	26	2,0	–	21,5	110	1,65	–	**SCW5E**
5941710	**EVBSN26M0230**	2	26	2,0	–	21,5	150	1,65	–	**SCW5E**
5941724	**EVBSN32M0250**	2	32	2,0	–	25,1	150	1,65	–	**SCW5E**
5941721	**EVBSN26J0340**	3	26	3,0	–	21,5	110	2,40	–	**SCW5E**
5941722	**EVBSN26M0340**	3	26	3,0	–	21,5	150	2,40	–	**SCW5E**
5941725	**EVBSN32M0350**	3	32	3,0	–	25,1	150	2,40	–	**SCW5E**
5941723	**EVBSN26J0440**	4	26	4,0	–	21,5	110	3,40	–	**SCW5E**
5941726	**EVBSN32M0450**	4	32	4,0	–	25,1	150	3,40	–	**SCW5E**
5977635	**EVBSN26J0540**	5	26	5,0	–	21,5	110	4,40	–	**SCW5E**
5977637	**EVBSN32M0560**	5	32	5,0	–	25,1	150	4,40	–	**SCW5E**
5977636	**EVBSN26J0640**	6	26	6,0	–	21,5	110	5,40	–	**SCW8E**
5977638	**EVBSN32M0660**	6	32	6,0	–	25,1	150	5,40	–	**SCW8E**
5977640	**EVBSN52X06120**	6	53	6,0	–	45,3	260	5,40	–	**SCW8E**
5977639	**EVBSN32M0860**	8	32	8,0	–	25,1	150	7,00	–	**SCW8E**
5977721	**EVBSN52X08120**	8	53	8,0	–	45,3	260	7,00	–	**SCW8E**

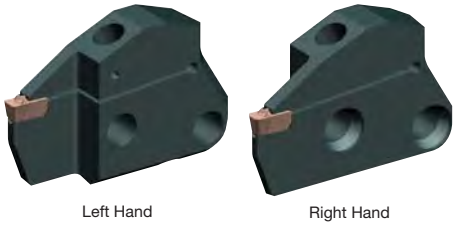
NOTE: Assembly wrench supplied with blade.

- Maximum support for specific groove width and straight clearance for unlimited diameter.
- Through the pocket coolant capable.
- Universal pocket for holding all insert geometries.

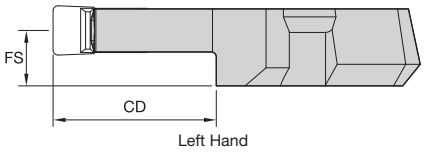


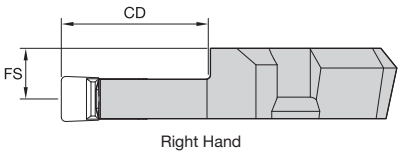


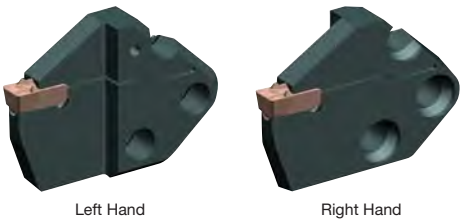




M50 blade size shown







M65 blade size shown

Modular Straight Blade with Coolant

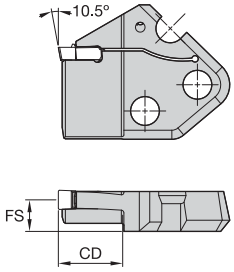
order number	catalog number	seat size	CD	FS	blade size
right hand					
6031041	**EVM50R1F12M**	1F	12,0	11,00	50
6030969	**EVM50R0212M**	2	12,0	10,88	50
5955423	**EVM50R0216M**	2	16,0	10,88	50
5979200	**EVM50R0312MC**	3	12,0	10,43	50
5979010	**EVM50R0316MC**	3	16,0	10,43	50
5979181	**EVM50R0322MC**	3	22,0	10,43	50
5979201	**EVM50R0412MC**	4	12,0	9,93	50
5979182	**EVM50R0416MC**	4	16,0	9,93	50
5979183	**EVM50R0422MC**	4	22,0	9,93	50
5979198	**EVM50R0426MC**	4	26,0	9,93	50
5979184	**EVM50R0432MC**	4	32,0	9,93	50
6031031	**EVM50R0512MC**	5	12,0	9,43	50
6031033	**EVM50R0516MC**	5	16,0	9,43	50
5955415	**EVM50R0526MC**	5	26,0	9,43	50
5955416	**EVM50R0532MC**	5	32,0	9,43	50
6031035	**EVM65R0616MC**	6	16,0	9,88	65
5955417	**EVM65R0626MC**	6	26,0	9,88	65
6031037	**EVM65R0632MC**	6	32,0	9,88	65
6031039	**EVM65R0816MC**	8	16,0	9,00	65
5955418	**EVM65R0826MC**	8	26,0	9,00	65

(continued)

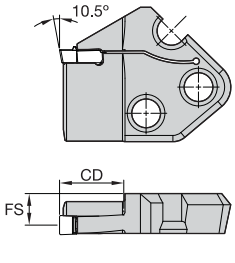
(Modular Straight Blade with Coolant — continued)

order number	catalog number	seat size	CD	FS	blade size
left hand					
6031042	**EVM50L1F12M**	1F	12,0	11,00	50
6030970	**EVM50L0212M**	2	12,0	10,88	50
5955424	**EVM50L0216M**	2	16,0	10,88	50
5979202	**EVM50L0312MC**	3	12,0	10,43	50
5979185	**EVM50L0316MC**	3	16,0	10,43	50
5979186	**EVM50L0322MC**	3	22,0	10,43	50
5979203	**EVM50L0412MC**	4	12,0	9,93	50
5979187	**EVM50L0416MC**	4	16,0	9,93	50
5979188	**EVM50L0422MC**	4	22,0	9,93	50
5979199	**EVM50L0426MC**	4	26,0	9,93	50
5979189	**EVM50L0432MC**	4	32,0	9,93	50
6031032	**EVM50L0512MC**	5	12,0	9,93	50
6031034	**EVM50L0516MC**	5	16,0	9,43	50
5955419	**EVM50L0526MC**	5	26,0	9,43	50
5955420	**EVM50L0532MC**	5	32,0	9,43	50
6031036	**EVM65L0616MC**	6	16,0	9,88	65
5955421	**EVM65L0626MC**	6	26,0	9,88	65
6031038	**EVM65L0632MC**	6	32,0	9,88	65
6031040	**EVM65L0816MC**	8	16,0	9,00	65
5955422	**EVM65L0826MC**	8	26,0	9,00	65

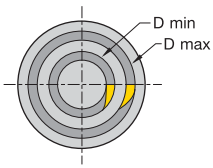
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

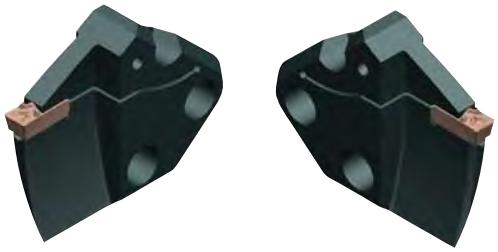


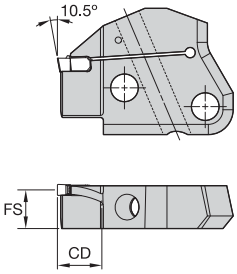
Left Hand



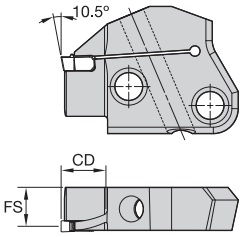
Right Hand




Left Hand
Right Hand
M65 blade size shown



Left Hand



Right Hand

Left Hand
Right Hand
M50 blade size shown

Modular Inboard Face Grooving Blade with Coolant

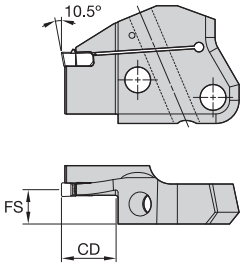
order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
right hand									
6097181	**EVM50R0312A035040C**	3	1.378	35	1.575	40	12,0	10,50	50
6097182	**EVM50R0312A040050C**	3	1.575	40	1.969	50	12,0	10,50	50
6097183	**EVM50R0312A050060C**	3	1.969	50	2.362	60	12,0	10,50	50
6097184	**EVM50R0312A060075C**	3	2.362	60	2.953	75	12,0	10,50	50
6116789	**EVM50R0312A075100C**	3	2.953	75	3.937	100	12,0	10,50	50
6117063	**EVM50R0312A100180C**	3	3.937	100	7.087	180	12,0	10,50	50
6117067	**EVM50R0312A180250C**	3	7.087	180	9.843	250	12,0	10,50	50
6117071	**EVM50R0312A250350C**	3	9.843	250	13.780	350	12,0	10,50	50
6117075	**EVM50R0312A350999C**	3	13.780	350	39.331	999	12,0	10,50	50
6097185	**EVM50R0320A075100C**	3	2.953	75	3.937	100	20,0	10,50	50
6097186	**EVM50R0320A100180C**	3	3.937	100	7.087	180	20,0	10,50	50
6097187	**EVM50R0320A180250C**	3	7.087	180	9.843	250	20,0	10,50	50
6097188	**EVM50R0320A250350C**	3	9.843	250	13.780	350	20,0	10,50	50
6097189	**EVM50R0320A350999C**	3	13.780	350	39.331	999	20,0	10,50	50
6079480	**EVM50R0416A040050C**	4	1.575	40	1.969	50	16,0	10,00	50
6079481	**EVM50R0416A050060C**	4	1.969	50	2.362	60	16,0	10,00	50
6079482	**EVM50R0416A060075C**	4	2.362	60	2.953	75	16,0	10,00	50
6079483	**EVM50R0416A075100C**	4	2.953	75	3.937	100	16,0	10,00	50
6117079	**EVM50R0416A100180C**	4	3.937	100	7.087	180	16,0	10,00	50
6117093	**EVM50R0416A180250C**	4	7.087	180	9.843	250	16,0	10,00	50
6117097	**EVM50R0416A250350C**	4	9.843	250	13.780	350	16,0	10,00	50
6117101	**EVM50R0416A350999C**	4	13.780	350	39.331	999	16,0	10,00	50
6079484	**EVM50R0426A100180C**	4	3.937	100	7.087	180	26,0	10,00	50
6079485	**EVM50R0426A180250C**	4	7.087	180	9.843	250	26,0	10,00	50
6079486	**EVM50R0426A250350C**	4	9.843	250	13.780	350	26,0	10,00	50
6079487	**EVM50R0426A350999C**	4	13.780	350	39.331	999	26,0	10,00	50
6079488	**EVM50R0520A050060C**	5	1.969	50	2.362	60	20,0	9,50	50

(continued)

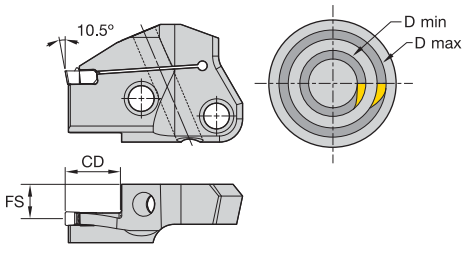
(Modular Inboard Face Grooving Blade with Coolant — continued)

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
6079489	EVM50R0520A060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079490	EVM50R0520A075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079491	EVM50R0520A100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079492	EVM50R0520A180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079493	EVM50R0520A250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079494	EVM50R0520A350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079223	EVM65R0620A060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079224	EVM65R0620A075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079225	EVM65R0620A100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079226	EVM65R0620A180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079227	EVM65R0620A250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079228	EVM65R0620A350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079229	EVM65R0820A080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079230	EVM65R0820A180999C	8	7.087	180	39.331	999	20,0	9,00	65
left hand									
6097190	EVM50L0312A035040C	3	1.378	35	1.575	40	12,0	10,50	50
6097191	EVM50L0312A040050C	3	1.575	40	1.969	50	12,0	10,50	50
6097192	EVM50L0312A050060C	3	1.969	50	2.362	60	12,0	10,50	50
6097193	EVM50L0312A060075C	3	2.362	60	2.953	75	12,0	10,50	50
6116790	EVM50L0312A075100C	3	2.953	75	3.937	100	12,0	10,50	50
6117064	EVM50L0312A100180C	3	3.937	100	7.087	180	12,0	10,50	50
6117068	EVM50L0312A180250C	3	7.087	180	9.843	250	12,0	10,50	50
6117072	EVM50L0312A250350C	3	9.843	250	13.780	350	12,0	10,50	50
6117076	EVM50L0312A350999C	3	13.780	350	39.331	999	12,0	10,50	50
6097194	EVM50L0320A075100C	3	2.953	75	3.937	100	20,0	10,50	50
6097195	EVM50L0320A100180C	3	3.937	100	7.087	180	20,0	10,50	50
6097196	EVM50L0320A180250C	3	7.087	180	9.843	250	20,0	10,50	50
6097197	EVM50L0320A250350C	3	9.843	250	13.780	350	20,0	10,50	50
6097198	EVM50L0320A350999C	3	13.780	350	39.331	999	20,0	10,50	50
6079495	EVM50L0416A040050C	4	1.575	40	1.969	50	16,0	10,00	50
6079496	EVM50L0416A050060C	4	1.969	50	2.362	60	16,0	10,00	50
6079497	EVM50L0416A060075C	4	2.362	60	2.953	75	16,0	10,00	50
6079498	EVM50L0416A075100C	4	2.953	75	3.937	100	16,0	10,00	50
6117080	EVM50L0416A100180C	4	3.937	100	7.087	180	16,0	10,00	50
6117094	EVM50L0416A180250C	4	7.087	180	9.843	250	16,0	10,00	50
6117098	EVM50L0416A250350C	4	9.843	250	13.780	350	16,0	10,00	50
6117102	EVM50L0416A350999C	4	13.780	350	39.331	999	16,0	10,00	50
6079499	EVM50L0426A100180C	4	3.937	100	7.087	180	26,0	10,00	50
6079500	EVM50L0426A180250C	4	7.087	180	9.843	250	26,0	10,00	50
6079501	EVM50L0426A250350C	4	9.843	250	13.780	350	26,0	10,00	50
6079502	EVM50L0426A350999C	4	13.780	350	39.331	999	26,0	10,00	50
6079503	EVM50L0520A050060C	5	1.969	50	2.362	60	20,0	9,50	50
6079504	EVM50L0520A060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079505	EVM50L0520A075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079506	EVM50L0520A100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079507	EVM50L0520A180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079508	EVM50L0520A250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079509	EVM50L0520A350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079234	EVM65L0620A060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079235	EVM65L0620A075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079236	EVM65L0620A100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079237	EVM65L0620A180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079238	EVM65L0620A250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079239	EVM65L0620A350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079240	EVM65L0820A080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079241	EVM65L0820A180999C	8	7.087	180	39.331	999	20,0	9,00	65

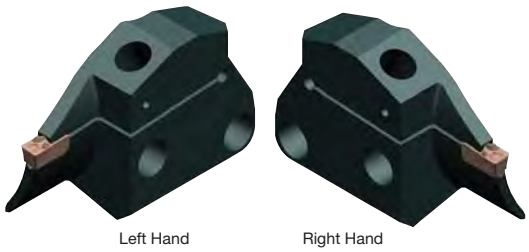
NOTE: Through the pocket coolant available in seat sizes 3 and higher.



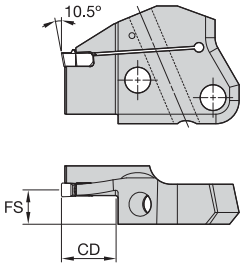
Left Hand



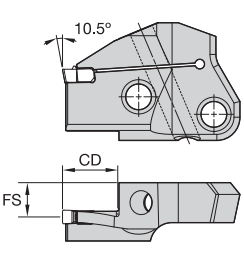
Right Hand


Left Hand Right Hand

M65 blade size shown



Left Hand



Right Hand

Left Hand Right Hand

M50 blade size shown

Modular Outboard Face Grooving Blade with Coolant

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
right hand									
6079340	**EVM50R0312B035040C**	3	1.378	35	1.575	40	12,0	10,50	50
6079411	**EVM50R0312B040050C**	3	1.575	40	1.969	50	12,0	10,50	50
6079412	**EVM50R0312B050060C**	3	1.969	50	2.362	60	12,0	10,50	50
6079413	**EVM50R0312B060075C**	3	2.362	60	2.953	75	12,0	10,50	50
6117061	**EVM50R0312B075100C**	3	2.953	75	3.937	100	12,0	10,50	50
6117065	**EVM50R0312B100180C**	3	3.937	100	7.087	180	12,0	10,50	50
6117069	**EVM50R0312B180250C**	3	7.087	180	9.843	250	12,0	10,50	50
6117073	**EVM50R0312B250350C**	3	9.843	250	13.780	350	12,0	10,50	50
6117077	**EVM50R0312B350999C**	3	13.780	350	39.331	999	12,0	10,50	50
6079414	**EVM50R0320B075100C**	3	2.953	75	3.937	100	20,0	10,50	50
6079415	**EVM50R0320B100180C**	3	3.937	100	7.087	180	20,0	10,50	50
6079416	**EVM50R0320B180250C**	3	7.087	180	9.843	250	20,0	10,50	50
6079417	**EVM50R0320B250350C**	3	9.843	250	13.780	350	20,0	10,50	50
6079418	**EVM50R0320B350999C**	3	13.780	350	39.331	999	20,0	10,50	50
6079429	**EVM50R0416B040050C**	4	1.575	40	1.969	50	16,0	10,00	50
6079430	**EVM50R0416B050060C**	4	1.969	50	2.362	60	16,0	10,00	50
6079451	**EVM50R0416B060075C**	4	2.362	60	2.953	75	16,0	10,00	50
6079452	**EVM50R0416B075100C**	4	2.953	75	3.937	100	16,0	10,00	50
6117091	**EVM50R0416B100180C**	4	3.937	100	7.087	180	16,0	10,00	50
6117095	**EVM50R0416B180250C**	4	7.087	180	9.843	250	16,0	10,00	50
6117099	**EVM50R0416B250350C**	4	9.843	250	13.780	350	16,0	10,00	50
6117103	**EVM50R0416B350999C**	4	13.780	350	39.331	999	16,0	10,00	50
6079453	**EVM50R0426B100180C**	4	3.937	100	7.087	180	26,0	10,00	50
6079454	**EVM50R0426B180250C**	4	7.087	180	9.843	250	26,0	10,00	50
6079455	**EVM50R0426B250350C**	4	9.843	250	13.780	350	26,0	10,00	50
6079456	**EVM50R0426B350999C**	4	13.780	350	39.331	999	26,0	10,00	50
6079457	**EVM50R0520B050060C**	5	1.969	50	2.362	60	20,0	9,50	50

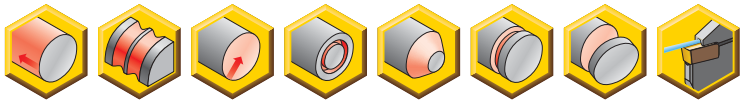
(continued)

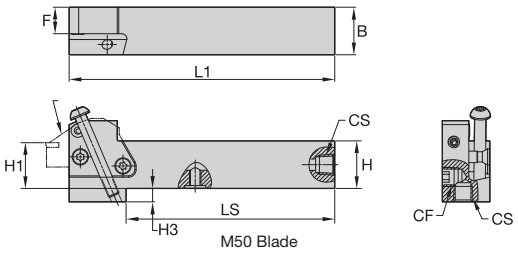
(Modular Outboard Face Grooving Blade with Coolant — continued)

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
6079458	EVM50R0520B060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079459	EVM50R0520B075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079460	EVM50R0520B100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079461	EVM50R0520B180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079462	EVM50R0520B250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079463	EVM50R0520B350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079246	EVM65R0620B060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079247	EVM65R0620B075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079248	EVM65R0620B100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079249	EVM65R0620B180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079250	EVM65R0620B250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079261	EVM65R0620B350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079262	EVM65R0820B080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079263	EVM65R0820B180999C	8	7.087	180	39.331	999	20,0	9,00	65
left hand									
6079420	EVM50L0312B035040C	3	1.378	35	1.575	40	12,0	10,50	50
6079421	EVM50L0312B040050C	3	1.575	40	1.969	50	12,0	10,50	50
6079422	EVM50L0312B050060C	3	1.969	50	2.362	60	12,0	10,50	50
6079423	EVM50L0312B060075C	3	2.362	60	2.953	75	12,0	10,50	50
6117062	EVM50L0312B075100C	3	2.953	75	3.937	100	12,0	10,50	50
6117066	EVM50L0312B100180C	3	3.937	100	7.087	180	12,0	10,50	50
6117070	EVM50L0312B180250C	3	7.087	180	9.843	250	12,0	10,50	50
6117074	EVM50L0312B250350C	3	9.843	250	13.780	350	12,0	10,50	50
6117078	EVM50L0312B350999C	3	13.780	350	39.331	999	12,0	10,50	50
6079424	EVM50L0320B075100C	3	2.953	75	3.937	100	20,0	10,50	50
6079425	EVM50L0320B100180C	3	3.937	100	7.087	180	20,0	10,50	50
6079426	EVM50L0320B180250C	3	7.087	180	9.843	250	20,0	10,50	50
6079427	EVM50L0320B250350C	3	9.843	250	13.780	350	20,0	10,50	50
6079428	EVM50L0320B350999C	3	13.780	350	39.331	999	20,0	10,50	50
6079464	EVM50L0416B040050C	4	1.575	40	1.969	50	16,0	10,00	50
6079465	EVM50L0416B050060C	4	1.969	50	2.362	60	16,0	10,00	50
6079466	EVM50L0416B060075C	4	2.362	60	2.953	75	16,0	10,00	50
6079467	EVM50L0416B075100C	4	2.953	75	3.937	100	16,0	10,00	50
6117092	EVM50L0416B100180C	4	3.937	100	7.087	180	16,0	10,00	50
6117096	EVM50L0416B180250C	4	7.087	180	9.843	250	16,0	10,00	50
6117100	EVM50L0416B250350C	4	9.843	250	13.780	350	16,0	10,00	50
6117104	EVM50L0416B350999C	4	13.780	350	39.331	999	16,0	10,00	50
6079468	EVM50L0426B100180C	4	3.937	100	7.087	180	26,0	10,00	50
6079469	EVM50L0426B180250C	4	7.087	180	9.843	250	26,0	10,00	50
6079470	EVM50L0426B250350C	4	9.843	250	13.780	350	26,0	10,00	50
6079471	EVM50L0426B350999C	4	13.780	350	39.331	999	26,0	10,00	50
6079472	EVM50L0520B050060C	5	1.969	50	2.362	60	20,0	9,50	50
6079473	EVM50L0520B060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079474	EVM50L0520B075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079475	EVM50L0520B100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079476	EVM50L0520B180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079477	EVM50L0520B250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079478	EVM50L0520B350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079266	EVM65L0620B060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079267	EVM65L0620B075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079268	EVM65L0620B100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079269	EVM65L0620B180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079270	EVM65L0620B250350C	6	9.843	250	13.780	350	20,0	9,87	65
6079271	EVM65L0620B350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079272	EVM65L0820B080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079273	EVM65L0820B180999C	8	7.087	180	39.331	999	20,0	9,00	65

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

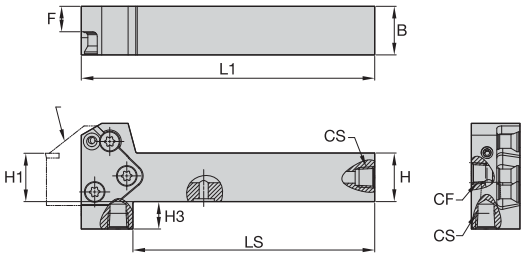
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



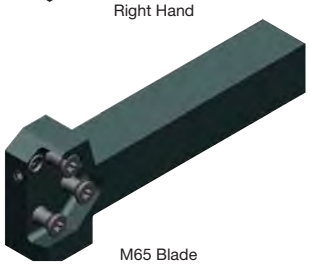


M50 Blade

M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

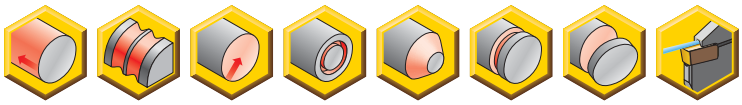
Modular Straight Toolholder with Coolant • Inch

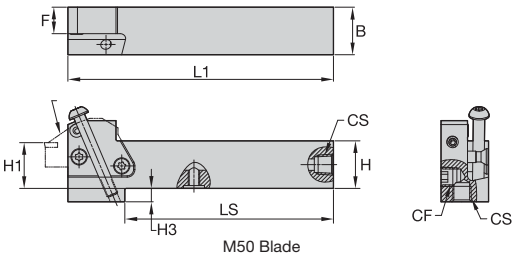
order number	catalog number	H	H1	B	L1	LS	F	CS	CF	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand																
5979194	**KGMSR1650C**	1.00	1.00	1.00	5.5	4.27	.56	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	0.25	50	—	T25	—	T25
5979801	**KGMSR1665C**	1.00	1.00	1.00	6.0	4.62	.53	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.50	65	**MS1163**	T30	—	—
5979802	**KGMSR2050C**	1.25	1.25	1.25	5.5	4.72	.81	1/8 - 27 NPTF	1/8 - 27 NPTF	1.78	—	50	**MS1162**	T25	**MS2002**	T25
5979803	**KGMSR2065C**	1.25	1.25	1.25	6.0	4.88	.78	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.25	65	**MS1163**	T30	—	—
5979804	**KGMSR2450C**	1.50	1.50	1.50	5.5	4.72	1.06	1/8 - 27 NPTF	1/8 - 27 NPTF	2.03	—	50	**MS1162**	T25	**MS2002**	T25
5979805	**KGMSR2465C**	1.50	1.50	1.50	7.0	5.90	1.03	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	—	65	**MS1163**	T30	—	—
left hand																
5979195	**KGMSL1650C**	1.00	1.00	1.00	5.5	4.27	.56	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	0.25	50	—	T25	—	T25
5979806	**KGMSL1665C**	1.00	1.00	1.00	6.0	4.62	.52	1/8 - 27 NPTF	1/8 - 27 NPTF	2.10	0.50	65	**MS1163**	T30	—	—
5979807	**KGMSL2050C**	1.25	1.25	1.25	5.5	4.52	.81	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	—	50	**MS1162**	T25	**MS2002**	T25
5979808	**KGMSL2065C**	1.25	1.25	1.25	6.0	4.88	.78	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.25	65	**MS1163**	T30	—	—
5979809	**KGMSL2450C**	1.50	1.50	1.50	5.5	4.74	1.06	1/8 - 27 NPTF	1/8 - 27 NPTF	2.03	—	50	**MS1162**	T25	**MS2002**	T25
5979810	**KGMSL2465C**	1.50	1.50	1.50	7.0	5.90	1.03	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	—	65	**MS1163**	T30	—	—

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME...: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

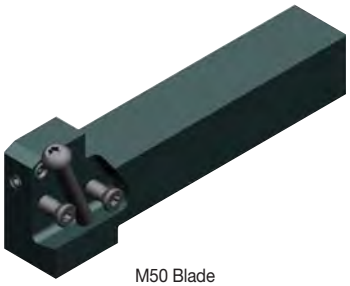
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

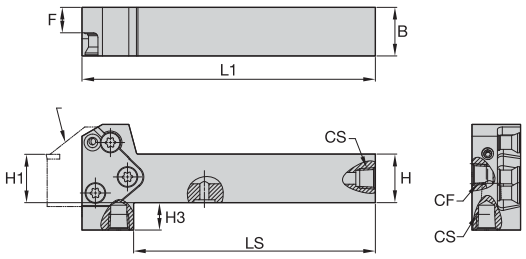
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



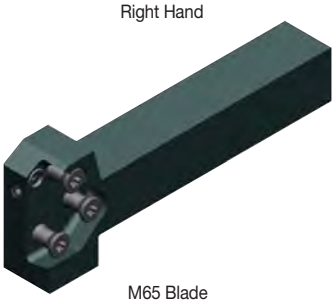


M50 Blade


M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

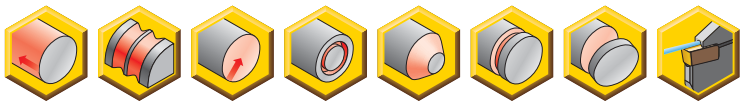
Modular Straight Toolholder with Coolant • Metric

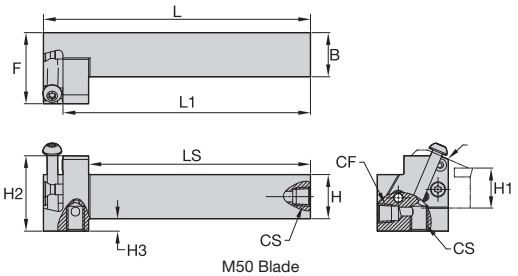
order number	catalog number	B	H	H1	L1	F	CS	CF	LS	H3	blade size	blade screw	Torx	clamping screw	Torx
right hand															
5979190	**KGMSR2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979745	**KGMSR2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979746	**KGMSR3232P50C**	32	32	32	158,75	20,81	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979747	**KGMSR3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	138,50	7,00	65	**MS1163**	T30	**–**	–
left hand															
5979191	**KGMSL2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979748	**KGMSL2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979749	**KGMSL3232P50C**	32	32	32	158,75	20,80	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979750	**KGMSL3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	142,00	7,00	65	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

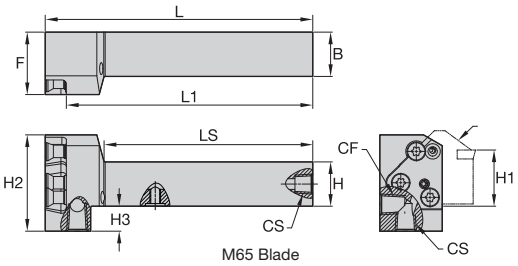
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.





M50 Blade

M50 Blade
Right Hand



M65 Blade

M65 Blade
Right Hand

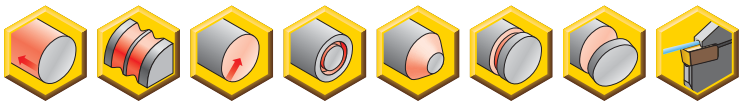
Modular End Mount Toolholder with Coolant • Inch

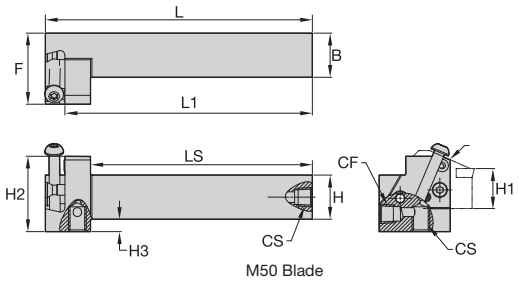
order number	catalog number	H	H1	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand														
5979196	**KGMER1650C**	1.00	1.00	1.00	5.5	4.96	1.58	1.67	0.25	50	–	T25	–	T25
5979814	**KGMER1665C**	1.00	1.00	1.00	5.5	4.70	1.38	2.09	0.50	65	**MS1163**	T30	–	–
5979815	**KGMER2050C**	1.25	1.25	1.25	5.5	4.96	1.58	1.67	–	50	–	T25	–	T25
5979816	**KGMER2065C**	1.25	1.25	1.25	5.5	4.70	1.38	2.09	0.25	65	**MS1163**	T30	–	–
5979817	**KGMER2450C**	1.50	1.50	1.50	5.5	4.96	1.58	1.92	–	50	**MS1162**	T25	**MS2002**	T25
5979818	**KGMER2465C**	1.50	1.50	1.50	6.5	5.70	1.49	2.09	–	65	**MS1163**	T30	–	–
left hand														
5979197	**KGMEL1650C**	1.00	1.00	1.00	5.5	4.96	1.58	1.67	0.25	50	–	T25	–	T25
5979819	**KGMEL1665C**	1.00	1.00	1.00	5.5	4.70	1.38	2.09	0.50	65	**MS1163**	T30	–	–
5979820	**KGMEL2050C**	1.25	1.25	1.25	5.5	4.96	1.58	1.67	–	50	–	T25	–	T25
5979881	**KGMEL2065C**	1.25	1.25	1.25	5.5	4.70	1.38	2.09	0.25	65	**MS1163**	T30	–	–
5979882	**KGMEL2450C**	1.50	1.50	1.50	5.5	4.96	1.58	1.92	–	50	**MS1162**	T25	**MS2002**	T25
5979883	**KGMEL2465C**	1.50	1.50	1.50	6.5	5.70	1.49	2.09	–	65	**MS1163**	T30	–	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

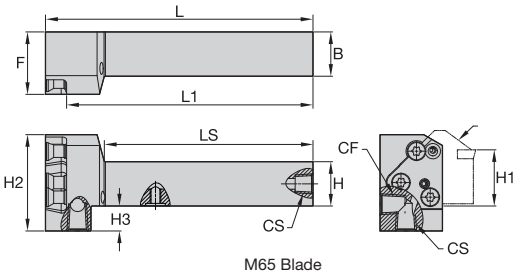
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



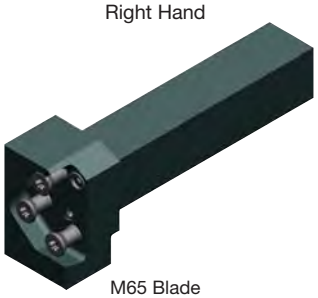


M50 Blade

M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

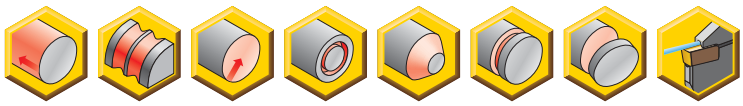
Modular End Mount Toolholder with Coolant • Metric

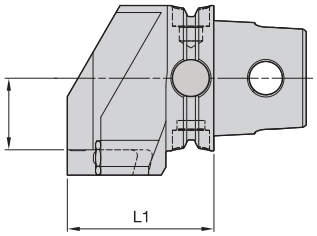
order number	catalog number	B	H	H1	L1	F	CS	CF	LS	H3	blade size	blade screw	Torx	clamping screw	Torx
right hand															
5979765	**KGMER2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979192	**KGMER2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979767	**KGMER3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979766	**KGMER3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25
left hand															
5979768	**KGMEL2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979193	**KGMEL2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979770	**KGMEL3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979769	**KGMEL3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

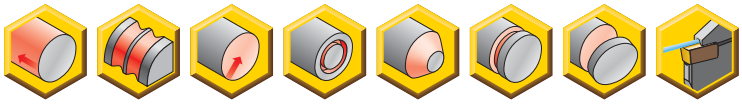
KM™ QUICK CHANGE

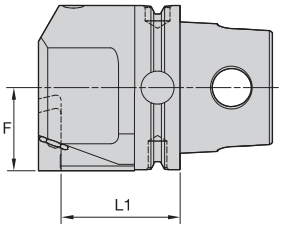
Modular Straight KM System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

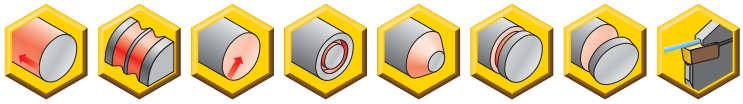
KM QUICK CHANGE

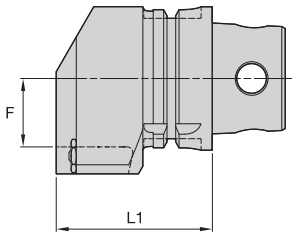
Modular End Mount KM System with Coolant • Metric

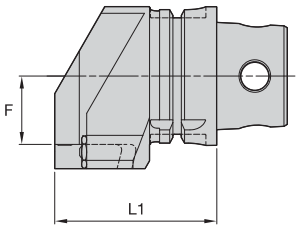
order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999788	**KM40TSKGMER50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (81–10 Nm).
M65 blade and clamp screw torque equals 1591–177 in. lbs. (181–20 Nm).

- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





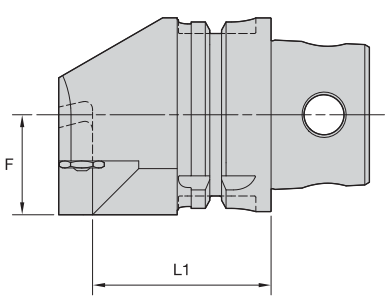


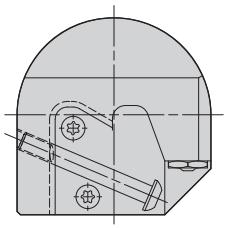
Right Hand

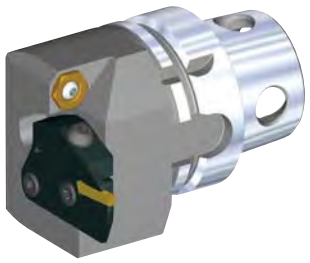
Modular Straight KM4X™ System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
left hand											
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

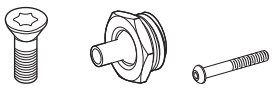






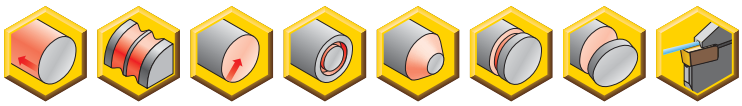
Right Hand

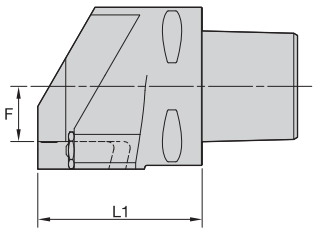
Modular End Mount KM4X System with Coolant

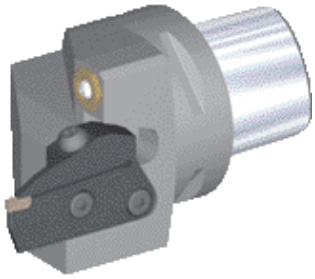


order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	cartridge size	blade screw	nozzle	clamp screw	kg	lbs
right hand												
5543555	**KM4X63KGMER65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
left hand												
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





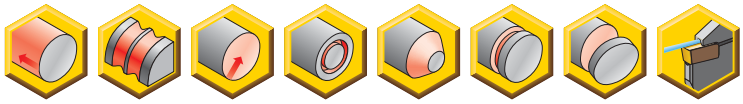


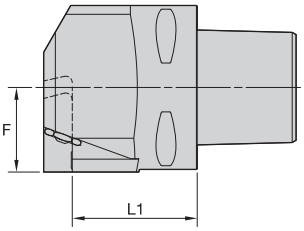
Right Hand

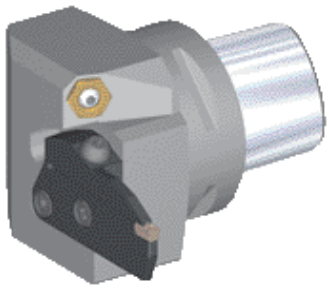
Modular Straight PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000028	**PSC40KGMSR50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000029	**PSC40KGMSL50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.







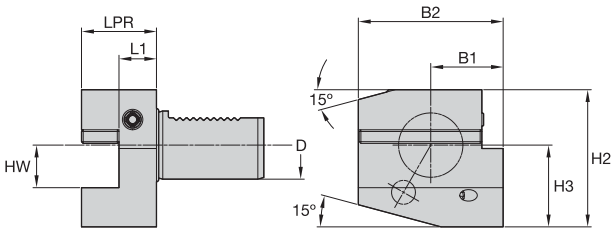
Right Hand

Modular End Mount PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000026	**PSC40KGMER50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000027	**PSC40KGMEL50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25

VDI Toolholders

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

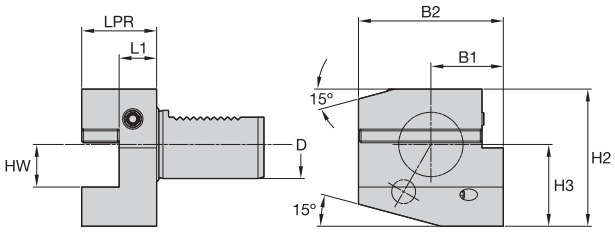


VDI Form B1• HPC • Right Hand Short • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151491	**VDIB1M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151492	**VDIB1M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

VDI Form B2 • Left Hand Short

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

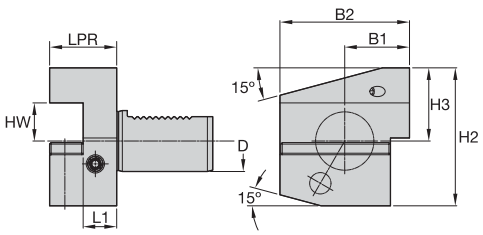


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B2 • HPC • Left Hand Short • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151493	**VDIB2M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151494	**VDIB2M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

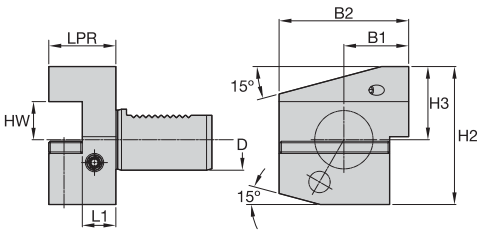


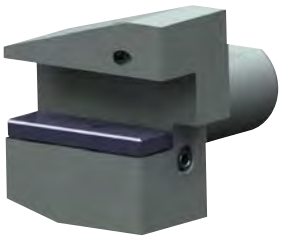
VDI Form B3 • HPC • Right Hand Short Inverted • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151495	**VDIB3M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151497	**VDIB3M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

VDI Form B4 • Left Hand Short Inverted

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.



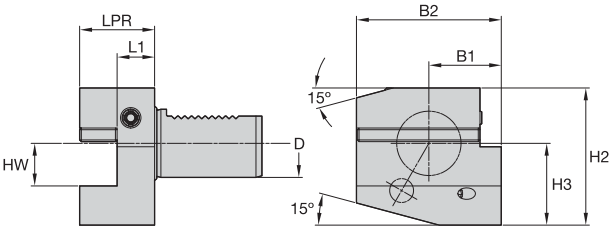


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B4 • HPC • Left Hand Short Inverted • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151498	**VDIB4M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151499	**VDIB4M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

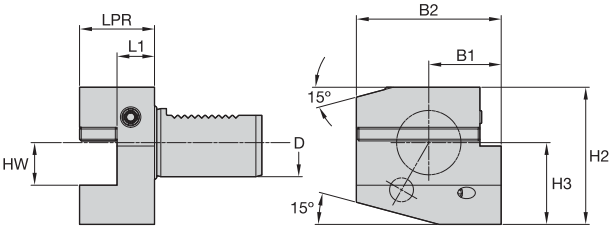


VDI Form B5 • HPC • Right Hand Long • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151500	**VDIB5M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151511	**VDIB5M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

VDI Form B6 • Left Hand Long

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

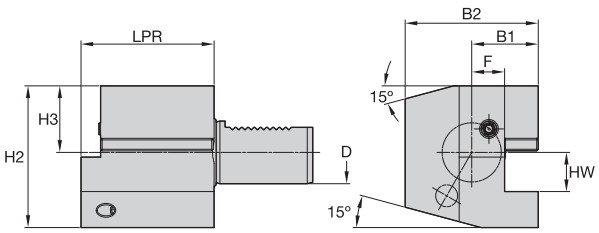


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B6 • HPC • Left Hand Long • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151512	**VDIB6M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151513	**VDIB6M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

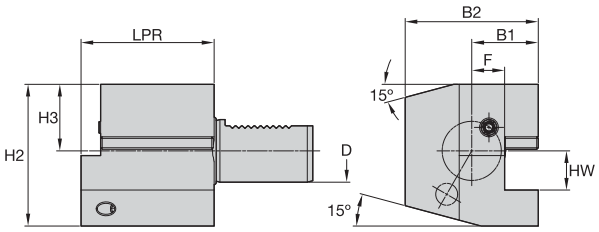


VDI Form C1 • HPC • Right Hand • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151514	**VDIC1M302070C**	30,00	70,00	35,00	17,00	20,00	66,00	38,00	70,00
6151515	**VDIC1M402585C**	40,00	85,00	42,50	21,00	25,00	80,50	48,00	85,00

VDI Form C2 • Left Hand

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

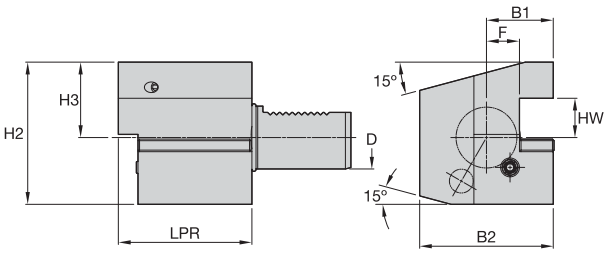


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form C2 • HPC • Left Hand • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151516	**VDIC2M302070C**	30,00	76,00	41,00	23,00	20,00	66,00	38,00	70,00
6151517	**VDIC2M402585C**	40,00	90,00	47,50	25,50	25,00	80,50	48,00	85,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

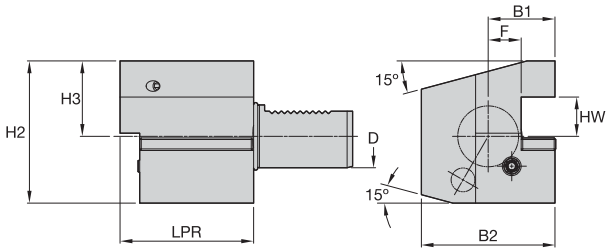


VDI Form C3 • HPC • Right Hand Inverted • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151518	**VDIC3M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151519	**VDIC3M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

VDI Form C4 • Left Hand Inverted

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

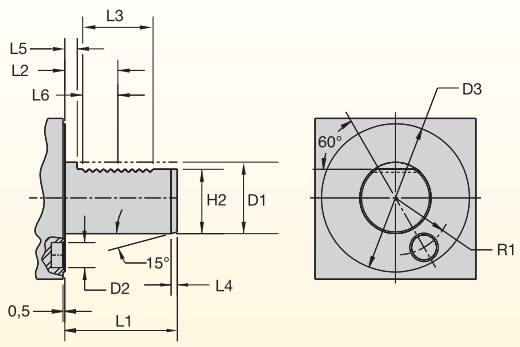


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form C4 • HPC • Left Hand Inverted • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151520	**VDIC4M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151521	**VDIC4M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

Shank Specifications



	D1	D2	D3	L1	L2	L3	L4	L5	L6	H2	R1
30	30,00	14,00	68,00	55,00	29,70	40,00	2,00	7,00	20,00	27,00	25,00
	1.181	0.551	2.677	2.165	1.169	1.575	0.079	0.276	0.787	1.063	0.984
40	40,00	14,00	83,00	63,00	29,70	40,00	3,00	7,00	20,00	36,00	32,00
	1.575	0.551	3.268	2.480	1.169	1.575	0.118	0.276	0.787	1.417	1.260
50	50,00	16,00	98,00	78,00	35,70	48,00	3,00	8,00	24,00	45,00	37,00
	1.969	0.630	3.858	3.071	1.406	1.890	0.118	0.315	0.945	1.772	1.457
60	60,00	16,00	123,00	94,00	43,70	56,00	4,00	10,00	28,00	55,00	48,00
	2.362	0.630	4.843	3.701	1.720	2.205	0.157	0.394	1.102	2.165	1.890

A4™ Tooling and Beyond™ Inserts

Choose A4 tooling for turning, facing, grooving, face grooving, and cut-off applications across a broad range of workpiece materials. The unique clamping system and versatile insert geometry delivers a very high metal removal rate.

FEATURES AND BENEFITS

A4 Grooving and Turning System

- One tool for turning, facing, grooving, face-grooving, and cut-off in O.D. and I.D. applications means exceptionally fast cycle times, no turret indexes!
- Extra-long clamping area, ground 120° bottom prism seating surface, and an exclusive top guide rail combine to deliver unsurpassed grooving and side-turning stability!
- Precise insert positioning is ensured for accurate cuts!
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

KENNAMETAL®

kennametal.com

beyond™ EVOLUTION™

Connecting the tool to your machine is easy. Just select one of the two available hose packages, and Active Coolant Control will be keeping you cool in no time!

Don't know exactly what you need?

To connect Beyond™ Evolution™ tooling to the industry's most common machines. The Kennametal universal coolant packs are ideal! Each pack contains the most common thread sizes with a variety of fitting styles for maximum flexibility.

Universal 200mm Coolant Pack

order number	catalog number	quantity	description
6145372	COOL-KIT-101	1	1/16 NPTF male to 7/16 JIC male fitting
		1	1/8 NPTF male to 7/16 JIC male fitting
		1	G1/8 male to 7/16 JIC male fitting
		1	M10 x 1,5 male to 7/16 JIC male fitting
		2	Male JIC to Swivel Female JIC Elbow
		1	200mm Hose Female JIC to Female JIC

Universal 300mm Coolant Pack

order number	catalog number	quantity	description
6145373	COOL-KIT-201	1	1/16 NPTF male to 7/16 JIC male fitting
		1	1/8 NPTF male to 7/16 JIC male fitting
		1	G1/8 male to 7/16 JIC male fitting
		1	M10 x 1,5 male to 7/16 JIC male fitting
		2	Male JIC to Swivel Female JIC Elbow
		1	300mm Hose Female JIC to Female JIC

Know what you need?

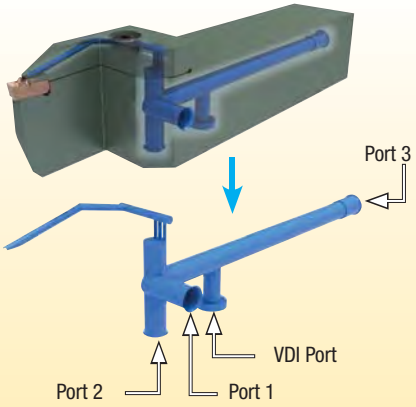
Every component is individually available, including less common fittings.
Knowing the precise components required will allow you to choose only the fittings you need!

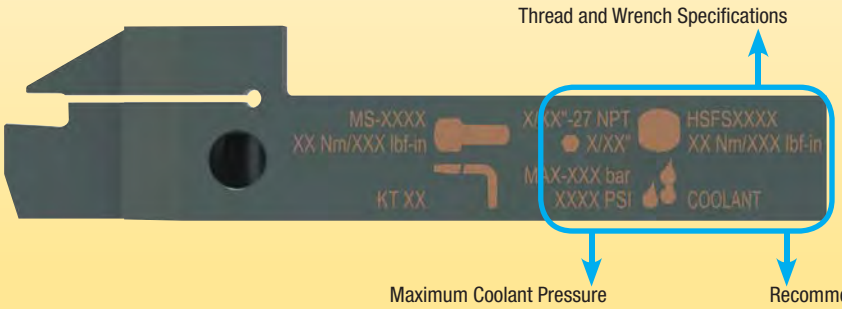
Coolant Hose Accessories

order number	catalog number	description
6145374	1-16NPTF-JIC	1/16 NPTF male to 7/16 JIC male fitting
6145375	1-8NPTF-JIC	1/8 NPTF male to 7/16 JIC male fitting
6145376	G18-JIC	G1/8 male to 7/16 JIC male fitting
6145377	M10-JIC	M10 x 1,5 male to 7/16 JIC male fitting
6145379	JICM-JICF-ELB	Male JIC to Swivel Female JIC Elbow
6145380	COOL-HOSE-200	200mm Female JIC to Female JIC
6145381	COOL-HOSE-300	300mm Female JIC to Female JIC
6145382	M6-JIC	M6 x 1,0 male to 7/16 JIC male fitting
6145378	M8-JIC	M8 x 1,25 male to 7/16 JIC male fitting
6145383	JICM-JICM-STR	7/16 JIC male to 7/16 JIC male adapter
6145386	G14-G18-RED	Male G1/4 to Female G1/8 reducer
6432549	COOL-HOSE-200-FLEX	Universal 200mm Flex Coolant Hose
6432550	COOL-HOSE-300-FLEX	Universal 300mm Flex Coolant Hose

Active Coolant Control Guidelines

1. Beyond™ Evolution™ system capable of 5076 psi (350 bar).
2. Toolholder delivered with four entry holes.
3. A quality filtration system is necessary to prevent blockages in the toolholder that will effect coolant flow and performance.
4. Machines without a proper filtering system may require modification or an inline filter.
   - For pressure >1015 psi [70 bar], use 10–20 µm filter.
   - For pressure <1015 psi [70 bar], 50–100 µm.
   - Using fine filters in low-pressure applications may affect flow rate.





General Safety Guidelines

1. All safety doors and mechanisms must be in place before trying out the internal coolant to avoid any danger to the operator in the event of a failure.
2. Use the correct pipe fittings to connect the holders to the system. Ensure the maximum pressure recommended for the fittings are not exceeded.
3. While implementing pressure >1160 psi [80 bar], increase the pressure in steps to ensure proper functioning of insert clamping and leak-free joints.
4. While indexing inserts, ensure the pocket is free from chips and/or dirt. Also, inspect the insert and make sure there are no blockages in the coolant canal.
5. Periodically check all hoses and fittings for damage and wear for proper functioning of the system. This check should also include filters.

Active Coolant Control Performance

Internal coolant offers a clear advantage in tool life and chip forming/evacuation vs. external coolant in difficult conditions and in high-pressure coolant.
Example: Chipbreaking in plunging of steel.

Flood Coolant | Internal Coolant

1,087 psi (75 bar) | 2,900 psi (200 bar)

Material steel ST52;
Insert size 6mm; f = 0,25 mm/U

Low Pressure — If performance is at risk due to low coolant pressure, apply internal coolant in combination with external coolant to increase volume.

Recommendation to improve tool life and/or productivity: Apply high pressure coolant: 80–350 bar recommended.

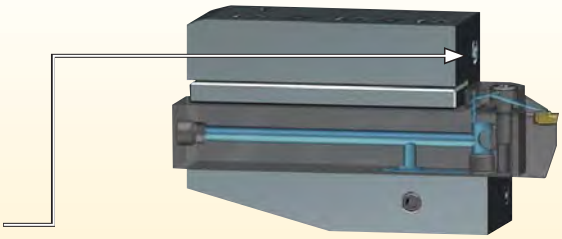
VDI Assemblies
The Beyond™ Evolution™ Active Coolant Control can be leveraged with VDI holding systems with both traditional or Quick-Change coolant connections.

Coolant flow transfer from VDI adapter to toolholder

A marker on the toolholder must remain within the coolant range indicated on the VDI system for uninterrupted coolant transfer.

Technical Details

Pressure limit 1160 psi [lbf/in²] (80 bar).



Nozzle set comes pre-assembled.
For the holder application with internal coolant only nozzle can be plugged by M5 screw (delivered). Use LocTite light, medium strength, or thread sealant.

Holder	Slide Area	Max. Pressure	Torque (Pressure Screws)
VDI 30	0.87" (22mm)	1160 psi [lbf/in²] (80 bar)	14.75 ft. lb. (20 Nm)
VDI 40	1.18" (30mm)	1160 psi [lbf/in²] (80 bar)	25.81 ft. lb. (35 Nm)

Spare sets	
Nozzle	**PKGNLAL 1205M**
Set Pressure Screw, Pressure Plate, Spring	See separately for each type in BOM

A4™ Tooling and Beyond™ Inserts

For All Your O.D. and I.D. Applications

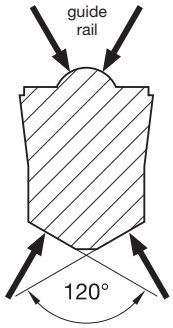
Primary Application

Choose A4 tooling for turning, facing, grooving, face grooving, and cut-off applications across a broad range of workpiece materials. The unique clamping system and versatile insert geometry delivers a very high metal removal rate.

Features and Benefits

A4 Grooving and Turning System

- One tool for turning, facing, grooving, face-grooving, and cut-off in O.D. and I.D. applications means exceptionally fast cycle times, no turret indexes!
- Extra-long clamping area, ground 120° bottom prism seating surface, and an exclusive top guide rail combine to deliver unsurpassed grooving and side-turning stability!
- Precise insert positioning is ensured for accurate cuts!
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.



A4 Chipbreakers

GMN Chipbreaker

GMP Chipbreaker

GMN Chipbreaker

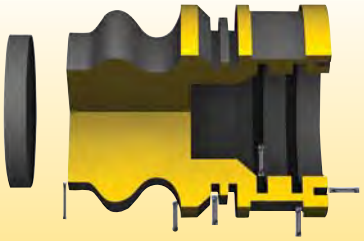
GMP Chipbreaker

GUP Chipbreaker

The A4™ System Increases Productivity

- Covers multiple applications.
- Reduces tool cost.
- Minimizes machining time.

Step 1 • Select A4 size for grooving and turning application



What you need to know:

- Groove depth, width, and profile.
- Material being machined.
- Application to be performed (O.D. and I.D. grooving, turning, face grooving, and cut-off).

General Recommendation to Select the Insert Size

for workpiece diameters	insert seat size
<25mm	3
25–50mm	4
>50mm	5–10

Step 2 • Select chipbreaker style and feed rate

Based on the application and seat size, determine the recommended geometry and starting feed rate.

Plunge Feed Rates

● first choice
○ alternate choice

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	• Groove and turn inserts in new Beyond™ grades. • Available in molded and precision-ground styles. • Positive rake angle with enhanced chip control. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							
			5	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0059 (0,16)							
			6	.016 (0,4)	.0059 (0,16)							
				.031 (0,8)	.0071 (0,18)							
				.047 (1,2)	.0079 (0,20)							
			8	.016 (0,4)	.0067 (0,17)							
				.031 (0,8)	.0079 (0,20)							
				.047 (1,2)	.0087 (0,22)							
			10	.016 (0,4)	.0071 (0,18)							
				.031 (0,8)	.0087 (0,22)							
				.047 (1,2)	.0094 (0,24)							
-GMP	• Groove and turn inserts. • Available in molded and precision-ground styles. • Positive rake angle. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							
			5	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0059 (0,16)							
			6	.016 (0,4)	.0059 (0,16)							
				.031 (0,8)	.0071 (0,18)							
				.047 (1,2)	.0079 (0,20)							
			8	.016 (0,4)	.0067 (0,17)							
				.031 (0,8)	.0079 (0,20)							
				.047 (1,2)	.0087 (0,22)							
			10	.016 (0,4)	.0071 (0,18)							
				.031 (0,8)	.0087 (0,22)							
				.047 (1,2)	.0094 (0,24)							
-GMN	• Groove and turn molded and precision ground inserts. • Stable cutting edge. • Available in metric and inch widths.		2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							
			5	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0059 (0,16)							
			6	.016 (0,4)	.0059 (0,16)							
				.031 (0,8)	.0071 (0,18)							
				.047 (1,2)	.0079 (0,20)							
			8	.016 (0,4)	.0067 (0,17)							
				.031 (0,8)	.0079 (0,20)							
				.047 (1,2)	.0087 (0,22)							
			10	.016 (0,4)	.0071 (0,18)							
				.031 (0,8)	.0087 (0,22)							
				.047 (1,2)	.0094 (0,24)							

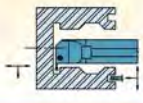
Maximum Feed Rate Values

Data is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying feed rates by following factors for other material groups.

Material Group	Feed Factor
M	.8
N	.8
S	.5
H	1.2

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.



Step 3 • Select the starting speed

Based on material and grade, identify starting speed (vc). First choice is in **bold** type.

A Based on material group and grade, identify starting speed (vc).
B First choice starting speed is in **bold.**

Recommended Starting Speeds [m/min]

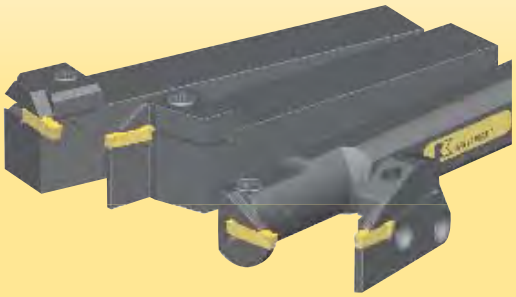
Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0-1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1-2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

A
B

Step 4 • Select toolholder based on application

Choose the high-performance holder based on your specific grooving or cut-off application, with the corresponding seat size.

	conventional toolholders	modular blades
O.D. Grooving, Cut-Off, and Turning	1st Choice	2nd Choice
Face Grooving	1st Choice	2nd Choice
I.D. Grooving, Cut-Off, and Turning	1st Choice	—



NOTE: Insert seat size must match the seat size of the toolholder.

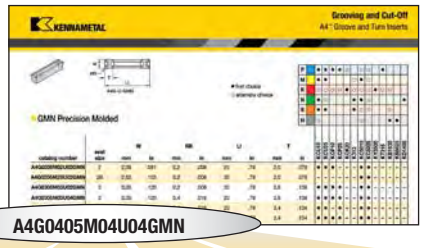
Step 5 • Select the insert and holder from catalog page

Congratulations!

You have successfully maximized your productivity by selecting the best insert geometry, grade, and cutting specifications for your application!

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



A4G0405M04U04GMN

Grooving and Turning Inserts

A4	G	0405	M	04	U	04	GMN
Tooling System	Insert Type	Groove Width	Unit of Measurement for Grooving Width	Seat Size	Insert Tolerance	Corner Radii	Chipbreaker Type/Edge Prep
A4 = Grooving and Turning	**G** = Square **R** = Full radius **C** = Cut-off	Expressed in 1/100mm or .00"	**M** = Metric **N** = Inch				

pocket seat size	cutting width in	cutting width mm
02	.079–.103	2,00–2,62
2B	.094–.103	2,39–2,62
03	.118–.120	3,0–3,05
04	.157–.159	4,0–4,05
05	.197–.159	5,0–5,05
06	.236–.199	6,0–6,05
08	.315–.238	8,0–8,05
10	.394–.317	10,0–10,05
2S	.079–.396	2,00–2,62
3S	.118–.120	3,00–3,05
4S	.157–.159	4,00–4,05
5S	.197–.199	5,00–5,05

P = Precision ground
grooving width tolerance:
± .001" (0,025mm)

U = Utility molded
grooving width tolerance:

3,05–4,05:	+ .006" / -0	(+0,15mm) / -0
5,05–10,05:	+ .010" / -0	(+0,25mm) / -0

in	mm
0 = .004	**01** = 0,1
05 = .008	**02** = 0,2
1 = .016	**04** = 0,4
2 = .032	**08** = 0,8
3 = .047	**12** = 1,2

full radius = 00

GMN =
Grooving and turning
medium machining
stable cutting edge

GMP =
Grooving and turning
medium machining
positive rake angle

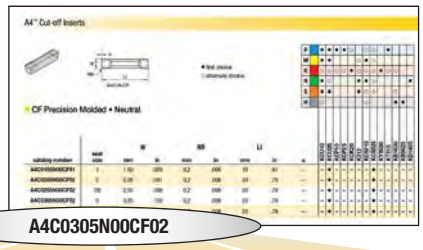
GUP =
Grooving and turning
high positive geometry.
Especially in stainless
steels and
high-temp alloys

B =
Flat top for special
forms and applications

E =
Flat top, slight
honed edge

S =
Negative land
plus hone

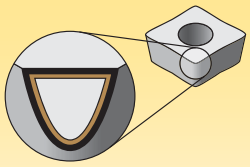
ST =
Single tip



A4C0305N00CF02

Grooving and Cut-Off

A4	C	0305	N	00	CF	02
Tooling System	Insert Type	Cutting Width	Hand of Insert	Main Cutting Edge Lead Angle	Chipbreaker Type	Corner Radius
A4 = Grooving and Turning	**C** = Cut-off	Expressed in 1/100mm	**R** = Right hand **L** = Left hand **N** = Neutral	**00** = Neutral **06** = 6° **10** = 10°	**CF** = Cut-off fine positive rake	in: .008 / mm: 02 = 0,2



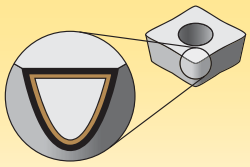
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ◄——► toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCU10 —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability.									
KCU25 —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates.									
KCP10 —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3 coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.									
KCP25 —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3 coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.									
KCK20 —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3 coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed.									



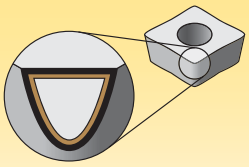
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.									
KC5010	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.									
KC5025	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.									



Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KY3500	**Composition:** Pure silicon nitride grade. **Application:** Maximum toughness. Used at high feed rates for rough machining of gray cast iron, including machining through interruptions.									
KT315	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.									
KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.									
KB5625	**Composition:** A medium content PcBN with a PVD-TiN/AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC). Use on bearing steels, hot and cold work steels, die steels, case hardened steels, carburized and nitrided irons and some hard coatings.									
KD1405	**Composition:** A pure CVD-deposited diamond-sheet tool brazed directly to a carbide substrate. **Application:** KD1405™ is the best Kennametal abrasion-resistant tool material for non-ferrous and non-metallic materials. Best applied when abrasion resistance is the desired benefit.									

Select the geometry

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	Groove and turn inserts in new Beyond™ grades.		2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							

Recommended Starting Feed Rate

Corner Radius

Plunge Feed Rates

Pictorial View of Insert

Seat Size

Recommended Feed Rate Range

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control Geometry Designation

Maximum Feed Rate Values

	Material Group	Feed Factor
Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.	M	.8
	N	1.2
	S	.8
	H	.5

Plunge Feed Rates

● first choice
○ alternate choice

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	• Groove and turn inserts in new Beyond™ grades. • Available in molded and precision-ground styles. • Positive rake angle with enhanced chip control. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○
-GMP	• Groove and turn inserts. • Available in molded and precision-ground styles. • Positive rake angle. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○
-GMN	• Groove and turn molded and precision ground inserts. • Stable cutting edge. • Available in metric and inch widths.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○

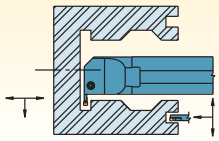
Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	.8
S	.5
H	1.2

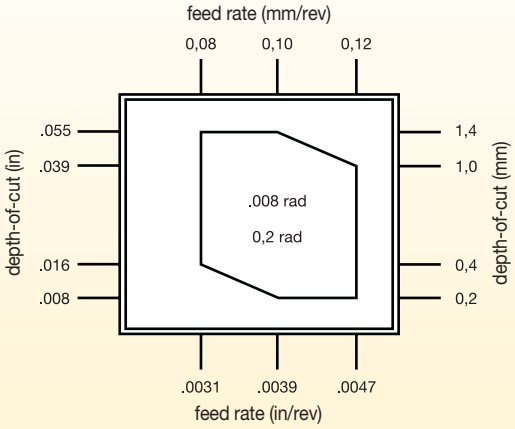
I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

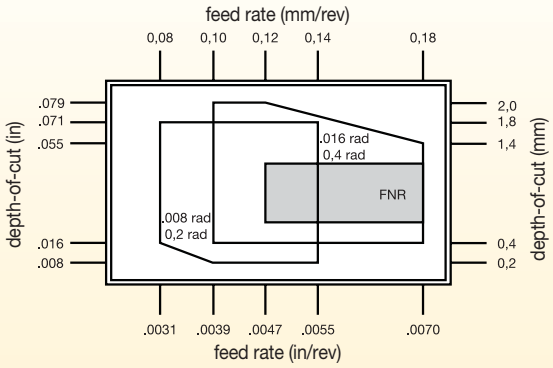


Turn and profile feed rates • GUP/GMP Geometries

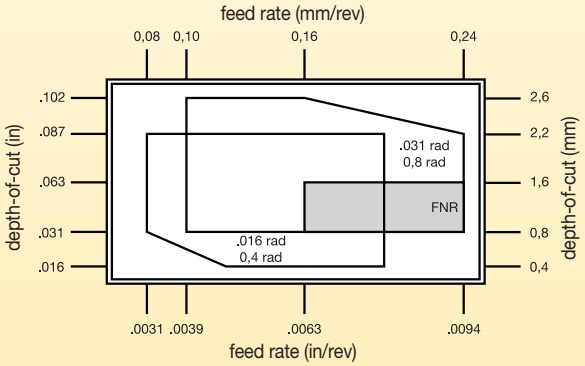
Seat Size 2



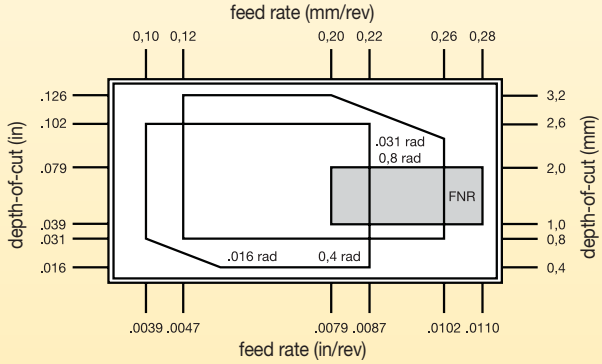
Seat Size 3



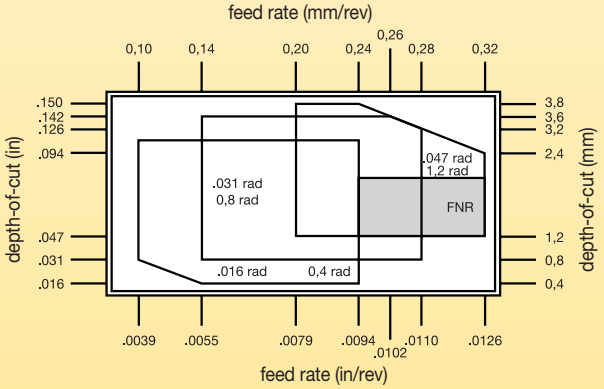
Seat Size 4



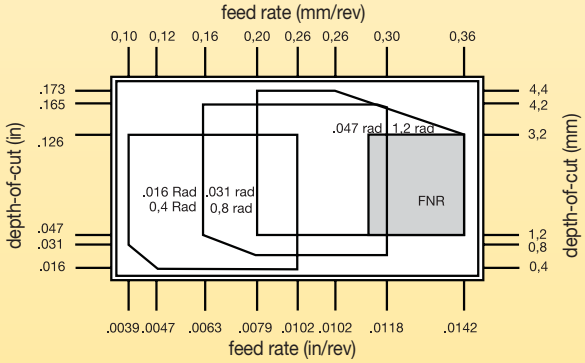
Seat Size 5



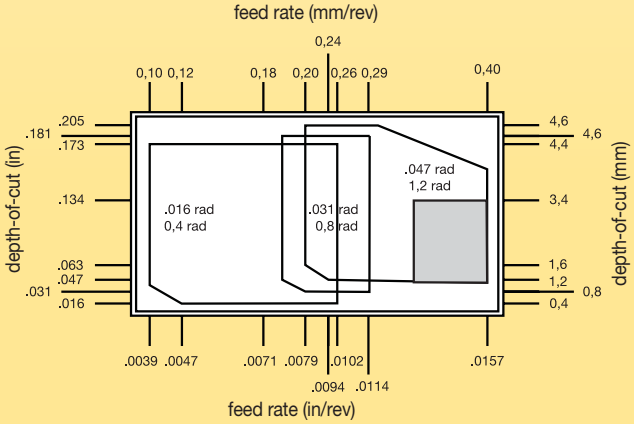
Seat Size 6



Seat Size 8

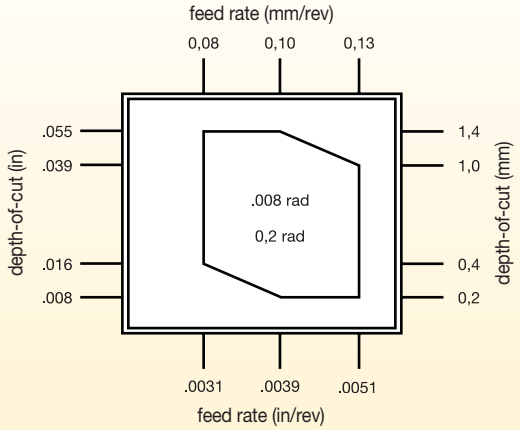


Seat Size 10

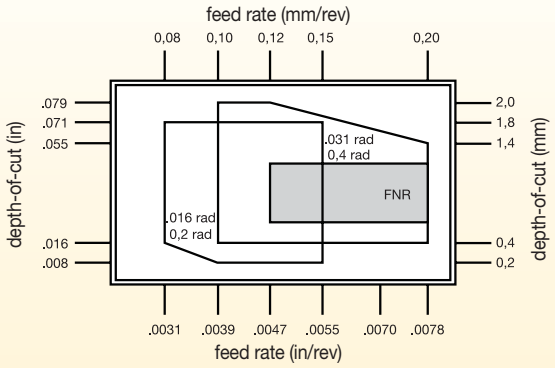


Turn and profile feed rates • GMN Geometries

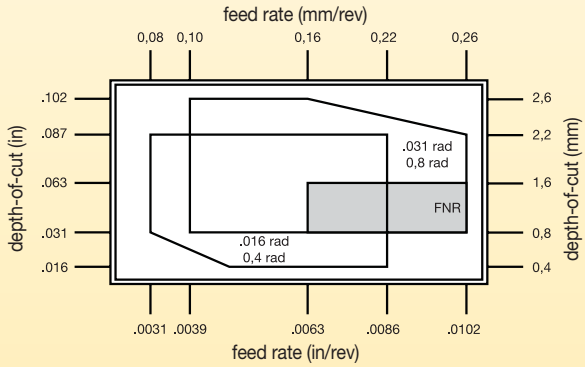
Seat Size 2



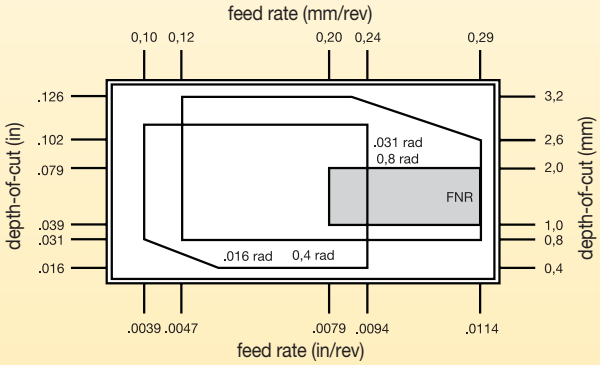
Seat Size 3



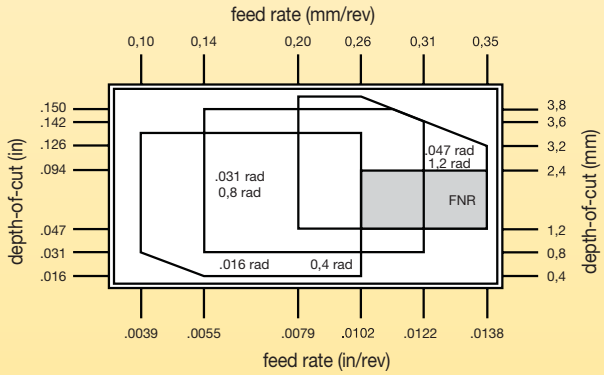
Seat Size 4



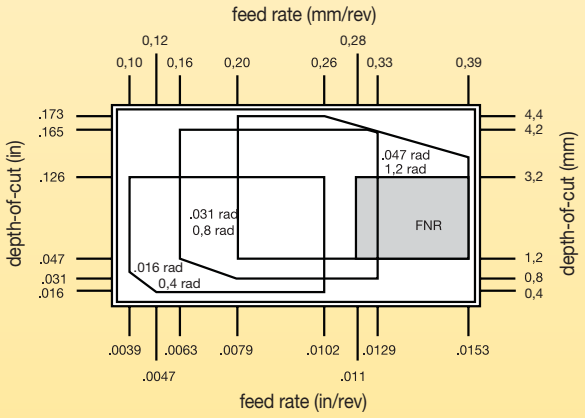
Seat Size 5



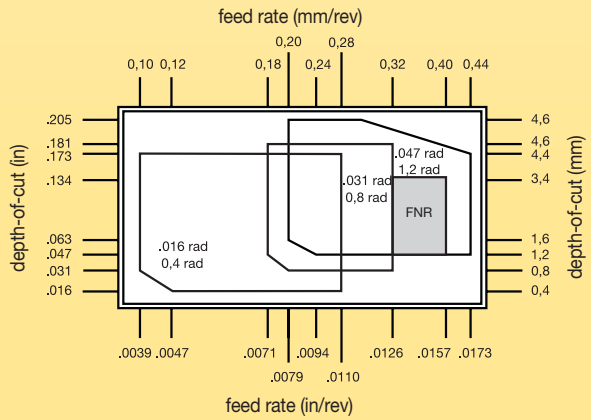
Seat Size 6



Seat Size 8



Seat Size 10



Cut-Off Feed Rates

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Starting Conditions in (mm)	Cut-Off Feed Rates inch/rev (mm/rev) .0020 (0,05) .0040 (0,10) .0060 (0,15) .0080 (0,20)
-A4C-CF	• High positive rake angle. • Sharp cutting edge. • Available in neutral lead angle in 6° and 10° right- and left-hand styles.		1B	.0024 (0,06)	
			2/2B	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	

Maximum Feed Rate Values

	Material Group	Feed Factor
Data is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying feed rate values by following factors for other material groups.	M	.8
	N	.8
	S	.5
	H	1.2

Mobile Apps

The Kennametal mobile app makes it easy to access product information and calculators on both iPhone® and Android™ devices. We've highlighted a few of the key features...

There's an app for that.

SPEEDS & FEEDS

View speeds and feeds information for metalworking products.

PRODUCT AVAILABILITY

Check global availability of products. View available quantities by providing your Konnect login credentials.

CALCULATORS

Utilize our machining calculators for milling and drilling applications.

By just scanning the bar code on the insert packet, you can find the most productive cutting conditions for tool life, process time, and chip control.

NOTE: The app is currently only available in the English-language version. We have plans to translate the app in different languages with future releases.

Google play | Available on the App Store

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Material Group		KT315			KB5625			KB1630			KD1405		
P	0–1	180	**440**	475	–	–	–	–	–	–	–	–	–
	2	195	**270**	400	–	–	–	–	–	–	–	–	–
	3	180	**210**	275	–	–	–	–	–	–	–	–	–
	4	75	**160**	210	–	–	–	–	–	–	–	–	–
	5	150	**250**	310	–	–	–	–	–	–	–	–	–
	6	140	**200**	300	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	60	**275**	550	–	–	–	180	**760**	1040	–	–	–
	2	135	**275**	360	–	–	–	–	–	–	–	–	–
	3	180	**230**	360	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	365	**610**	1040
	3	–	–	–	–	–	–	–	–	–	275	**480**	800
	4	–	–	–	–	–	–	–	–	–	300	**550**	920
	5	–	–	–	–	–	–	–	–	–	275	**610**	1070
	6	–	–	–	–	–	–	–	–	–	150	**460**	760
S	1	–	–	–	–	–	–	120	**200**	275	–	–	–
	2	–	–	–	–	–	–	120	**215**	275	–	–	–
	3	–	–	–	–	–	–	120	**250**	275	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	45	**150**	230	45	**120**	170	–	–	–
	2	–	–	–	45	**140**	230	45	**110**	170	–	–	–
	3	–	–	–	45	**130**	230	45	**100**	170	–	–	–
	4	–	–	–	45	**120**	230	45	**90**	170	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

(continued)

(Recommended Starting Speeds — continued)

Recommended Starting Speeds [SFM]

Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	450	**925**	1100	360	**740**	880	600	**1320**	1475	475	**925**	1200	660	**1450**	1620	–	–	–
	2	–	–	–	450	**650**	800	360	**520**	640	600	**880**	1150	475	**650**	1000	660	**970**	1260	–	–	–
	3	–	–	–	450	**510**	800	360	**410**	640	550	**630**	850	450	**510**	800	600	**700**	920	–	–	–
	4	–	–	–	250	**360**	550	200	**290**	440	300	**480**	650	250	**360**	600	330	**530**	710	–	–	–
	5	–	–	–	400	**660**	850	320	**530**	680	500	**720**	1000	400	**650**	875	550	**800**	1100	–	–	–
	6	–	–	–	350	**500**	750	280	**400**	600	400	**600**	900	350	**500**	750	440	**660**	990	–	–	–
M	1	200	**300**	400	450	**700**	850	300	**550**	800	–	–	–	–	–	–	–	–	–	–	–	–
	2	150	**250**	350	400	**650**	800	300	**500**	800	–	–	–	–	–	–	–	–	–	–	–	–
	3	120	**220**	320	400	**600**	800	300	**450**	700	–	–	–	–	–	–	–	–	–	–	–	–
K	1	100	**250**	400	400	**600**	800	320	**480**	640	560	**800**	1440	455	**650**	1170	700	**1000**	1800	600	**2500**	3400
	2	75	**225**	350	300	**500**	700	240	**400**	560	400	**640**	1120	325	**520**	910	500	**800**	1400	900	**1200**	1650
	3	65	**190**	300	200	**350**	500	160	**280**	400	400	**560**	880	325	**455**	715	500	**700**	1100	–	–	–
N	1–2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	400	**900**	1400	400	**1200**	2000	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–
	6	120	**250**	500	400	**700**	1000	320	**560**	800	–	–	–	–	–	–	–	–	–	–	–	–
S	1	25	**100**	250	50	**180**	450	25	**125**	200	–	–	–	–	–	–	–	–	–	–	–	–
	2	25	**110**	250	50	**195**	450	25	**100**	250	–	–	–	–	–	–	–	–	–	–	–	–
	3	25	**125**	250	50	**225**	450	50	**125**	250	–	–	–	–	–	–	–	–	–	–	–	–
	4	25	**150**	250	50	**225**	550	25	**175**	350	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Material Group		KT315			KB5625			KB1630			KD1405		
P	0–1	600	**1450**	1600	–	–	–	–	–	–	–	–	–
	2	650	**880**	1300	–	–	–	–	–	–	–	–	–
	3	600	**680**	900	–	–	–	–	–	–	–	–	–
	4	300	**530**	725	–	–	–	–	–	–	–	–	–
	5	500	**800**	1025	–	–	–	–	–	–	–	–	–
	6	475	**660**	975	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	200	**900**	1800	–	–	–	600	**2500**	3400	–	–	–
	2	450	**900**	1200	–	–	–	–	–	–	–	–	–
	3	600	**750**	1200	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	1200	**2000**	3400
	3	–	–	–	–	–	–	–	–	–	900	**1600**	2600
	4	–	–	–	–	–	–	–	–	–	1000	**1800**	3000
	5	–	–	–	–	–	–	–	–	–	900	**2000**	3500
	6	–	–	–	–	–	–	–	–	–	500	**1500**	2500
S	1	–	–	–	–	–	–	400	**650**	900	–	–	–
	2	–	–	–	–	–	–	400	**700**	900	–	–	–
	3	–	–	–	–	–	–	400	**810**	900	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	150	**500**	760	150	**400**	560	–	–	–
	2	–	–	–	150	**460**	760	150	**360**	560	–	–	–
	3	–	–	–	150	**430**	760	150	**330**	560	–	–	–
	4	–	–	–	150	**400**	760	150	**300**	560	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

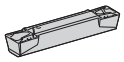
- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

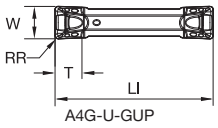
SELECT

A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**



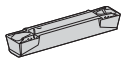


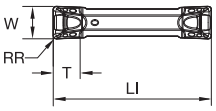
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GUP	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U02GUP	3	3,05	.120	0,2	.008	20	.79	3,0	.118	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U04GUP	3	3,05	.120	0,4	.016	20	.79	3,0	.118	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U04GUP	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U08GUP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0405M04U00GUP	4	4,05	.159	—	—	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M05U04GUP	5	5,05	.199	0,4	.016	25	.99	4,2	.165	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0505M05U08GUP	5	5,05	.199	0,8	.031	25	.99	4,2	.165	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U04GUP	6	6,05	.238	0,4	.016	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U08GUP	6	6,05	.238	0,8	.031	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U12GUP	6	6,05	.238	1,2	.047	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0605M06U00GUP	6	6,05	.238	—	—	30	1.19	4,9	.193	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0805M08U08GUP	8	8,05	.317	0,8	.031	30	1.19	6,0	.236	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0805M08U12GUP	8	8,05	.317	1,2	.047	30	1.19	6,0	.236	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0805M08U00GUP	8	8,05	.317	—	—	30	1.19	6,5	.256	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1005M10U08GUP	10	10,05	.396	0,8	.031	30	1.19	6,0	.236	●	●	●	–	–	–	–	–	–	–	–	–	–
A4G1005M10U12GUP	10	10,05	.396	1,2	.047	30	1.19	6,1	.238	–	●	–	●	–	–	–	–	–	–	–	–	–





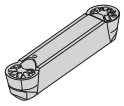
A4G-P-GUP

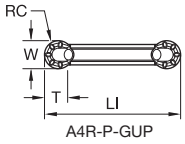
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GUP	2	2,00	.079	0,2	.008	20	.79	1,9	.075	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G094I2BP05GUP	2B	2,38	.094	0,2	.008	20	.79	1,9	.075	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P02GUP	3	3,00	.118	0,2	.008	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P04GUP	3	3,00	.118	0,4	.016	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P05GUP	3	3,18	.125	0,2	.008	20	.79	2,9	.115	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P1GUP	3	3,18	.125	0,4	.016	20	.79	2,9	.115	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P02GUP	4	4,00	.157	0,2	.008	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P04GUP	4	4,00	.157	0,4	.016	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P08GUP	4	4,00	.157	0,8	.031	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G187I04P1GUP	4	4,76	.187	0,4	.016	20	.79	3,3	.130	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P04GUP	5	5,00	.197	0,4	.016	25	.98	4,1	.163	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P08GUP	5	5,00	.197	0,8	.031	25	.98	4,1	.163	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P04GUP	6	6,00	.236	0,4	.016	30	1.18	4,5	.176	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P08GUP	6	6,00	.236	0,8	.031	30	1.18	4,5	.176	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P1GUP	6	6,35	.250	0,4	.016	30	1.18	4,4	.175	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P2GUP	6	6,35	.250	0,8	.031	30	1.18	4,4	.175	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G312I08P1GUP	8	7,94	.312	0,4	.016	30	1.18	5,9	.233	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P08GUP	8	8,00	.315	0,8	.031	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P12GUP	8	8,00	.315	1,2	.047	30	1.18	6,0	.236	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G375I10P1GUP	10	9,53	.375	0,4	.016	30	1.18	5,9	.233	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P08GUP	10	10,00	.394	0,8	.031	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P12GUP	10	10,00	.394	1,2	.047	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–





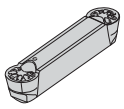
A4R-P-GUP

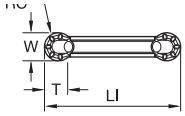
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Full Radius Precision Molded

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0305M03U00GUP	3	3,05	.120	1,5	.060	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0505M05U00GUP	5	5,05	.199	2,5	.099	25	.99	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R1005M10U00GUP	10	10,05	.396	5,0	.198	30	1.19	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–

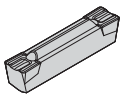


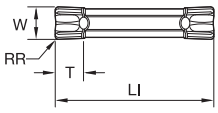


A4R-P-GUP

GUP Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00GUP	3	3,00	.118	1,5	.059	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R125I03P00GUP	3	3,18	.125	1,6	.063	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0400M04P00GUP	4	4,00	.157	2,0	.079	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R187I04P00GUP	4	4,76	.188	2,4	.094	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M05P00GUP	5	5,00	.197	2,5	.098	25	.98	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0600M06P00GUP	6	6,00	.236	3,0	.118	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R250I06P00GUP	6	6,35	.250	3,2	.125	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R312I08P00GUP	8	7,94	.312	4,0	.156	30	1.18	—	—	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R0800M08P00GUP	8	8,00	.315	4,0	.158	30	1.18	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R1000M10P00GUP	10	10,00	.394	5,0	.197	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–





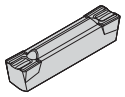
A4G-U-GMP

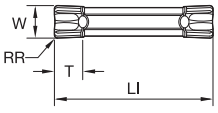
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMP	2	2,05	.081	0,2	.008	20	.79	2,0	.079	–	●	–	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMP	2B	2,62	.103	0,2	.008	20	.79	2,0	.079	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMP	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0305M03U04GMP	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0405M04U04GMP	4	4,05	.159	0,4	.015	20	.79	3,4	.134	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0405M04U08GMP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	–	●	–	–	–	–	●	●	–	●	–	–	–
A4G0505M05U04GMP	5	5,05	.199	0,4	.015	25	.99	4,2	.165	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMP	5	5,05	.199	0,8	.032	25	.99	4,2	.165	–	●	●	–	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMP	6	6,05	.238	0,4	.016	30	1.19	4,9	.193	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMP	6	6,05	.238	0,8	.031	30	1.19	4,9	.193	–	–	–	–	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMP	8	8,05	.317	0,8	.031	30	1.19	6,1	.241	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G1005M10U08GMP	10	10,05	.396	0,8	.031	30	1.19	8,1	.319	●	●	–	–	–	–	–	–	–	–	–	–	–

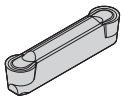


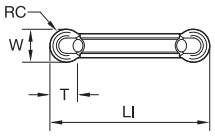


A4G-P-GMP

GMP Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GMP	2	2,00	.079	0,2	.008	20	.78	2,0	.079	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0250M2BP02GMP	2B	2,50	.098	0,2	.008	20	.78	2,0	.079	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G0300M03P02GMP	3	3,00	.118	0,2	.008	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0300M03P04GMP	3	3,00	.118	0,4	.016	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P02GMP	4	4,00	.158	0,2	.008	20	.78	–	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P04GMP	4	4,00	.158	0,4	.016	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P08GMP	4	4,00	.158	0,8	.032	20	.78	3,5	.138	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0500M05P04GMP	5	5,00	.197	0,4	.016	25	.98	–	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0500M05P08GMP	5	5,00	.197	0,8	.032	25	.98	–	–	●	–	–	–	–	●	●	●	–	–	–	–	–
A4G0600M06P04GMP	6	6,00	.236	0,4	.016	30	1.18	4,9	.192	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G0600M06P08GMP	6	6,00	.236	0,8	.031	30	1.18	4,9	.192	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0800M08P08GMP	8	8,00	.315	0,8	.031	30	1.18	6,4	.251	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G0800M08P12GMP	8	8,00	.315	1,2	.047	30	1.18	6,4	.251	●	–	–	–	–	–	–	–	–	–	–	–	–





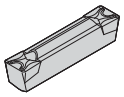
A4R-P-GMP

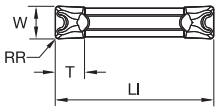
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M02P00GMP	2	2,00	.079	1,0	.039	20	.78	1,7	.065	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0300M03P00GMP	3	3,00	.118	1,5	.059	20	.78	2,5	.098	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0400M04P00GMP	4	4,00	.157	2,0	.079	20	.78	—	—	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0500M05P00GMP	5	5,00	.197	2,5	.098	25	.98	4,1	.160	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0600M06P00GMP	6	6,00	.236	3,0	.118	30	1.18	4,8	.189	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0800M08P00GMP	8	8,00	.315	4,0	.158	30	1.18	6,4	.252	●	●	–	–	–	–	●	–	–	–	–	–	–

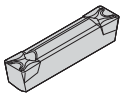


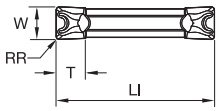


A4G-U-GMN

GMN Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMN	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMN	2B	2,62	.103	0,2	.008	20	.79	2,0	.079	–	–	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMN	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0305M03U04GMN	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0405M04U04GMN	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	–	●	–	–	●	●	–	–	–	–	–
A4G0405M04U08GMN	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U04GMN	5	5,05	.199	0,4	.016	25	.98	4,2	.165	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMN	5	5,05	.199	0,8	.031	25	.98	4,2	.165	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMN	6	6,05	.238	0,4	.016	30	1.18	4,9	.193	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMN	6	6,05	.238	0,8	.031	30	1.18	4,9	.193	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0605M06U12GMN	6	6,05	.238	1,2	.047	30	1.18	4,9	.193	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMN	8	8,05	.317	0,8	.031	30	1.18	6,4	.252	●	●	●	●	–	–	●	–	–	–	–	–	–
A4G0805M08U12GMN	8	8,05	.317	1,2	.047	30	1.18	6,4	.252	–	●	●	●	–	–	●	–	–	–	–	–	–
A4G1005M10U08GMN	10	10,05	.396	0,8	.031	30	1.18	8,1	.319	–	●	●	●	–	–	–	●	–	–	–	–	–
A4G1005M10U12GMN	10	10,05	.396	1,2	.047	30	1.18	8,1	.319	–	–	–	●	–	–	–	●	–	–	–	–	–





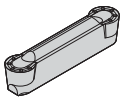
A4G-P-GMN

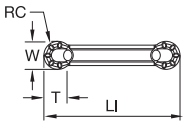
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMN Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G094I2BP05GMN	2B	2,39	.094	0,2	.008	20	.79	1,9	.075	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G125I03P05GMN	3	3,18	.125	0,2	.008	20	.79	3,4	.134	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G125I03P1GMN	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G187I04P1GMN	4	4,76	.187	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G187I04P2GMN	4	4,76	.187	0,8	.031	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G250I06P1GMN	6	6,35	.250	0,4	.016	30	1.18	4,7	.187	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G250I06P2GMN	6	6,35	.250	0,8	.031	30	1.18	4,7	.187	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G312I08P1GMN	8	7,94	.312	0,4	.016	30	1.18	6,2	.246	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P1GMN	10	9,53	.375	0,4	.016	30	1.18	7,9	.312	–	–	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P2GMN	10	9,53	.375	0,8	.031	30	1.18	7,9	.313	●	–	–	–	–	–	●	–	–	–	–	–	–

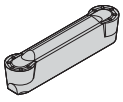


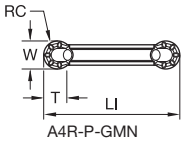


A4R-U-GMN

GMN Full Radius Precision Molded

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0205M02U00GMN	2	2,05	.081	1,1	.042	20	.79	1,8	.069	–	●	●	–	–	–	●	●	–	–	–	–	–
A4R0305M03U00GMN	3	3,05	.120	1,5	.060	20	.79	2,6	.101	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0405M04U00GMN	4	4,05	.159	2,0	.080	20	.79	3,5	.136	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0505M05U00GMN	5	5,05	.199	2,5	.099	25	.99	4,2	.163	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0605M06U00GMN	6	6,05	.238	3,0	.119	30	1.19	4,9	.194	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0805M08U00GMN	8	8,05	.317	4,0	.159	30	1.19	6,5	.256	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R1005M10U00GMN	10	10,05	.396	5,0	.198	30	1.19	8,2	.322	●	●	–	●	–	–	–	–	–	–	–	–	–

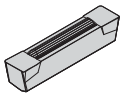


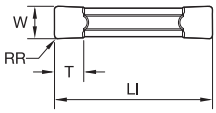


A4R-P-GMN

GMN Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R125I03P00GMN	3	3,18	.125	1,6	.063	20	.79	2,7	.108	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R187I04P00GMN	4	4,76	.187	2,4	.094	20	.79	3,8	.149	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R250I06P00GMN	6	6,35	.250	3,2	.125	30	1.18	5,3	.208	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R312I08P00GMN	8	7,94	.313	4,0	.157	30	1.18	6,4	.254	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R375I10P00GMN	10	9,53	.375	4,8	.188	30	1.18	7,3	.289	–	–	–	–	–	–	–	●	–	–	–	–	–





A4G-U-B

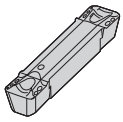
● first choice
○ alternate choice

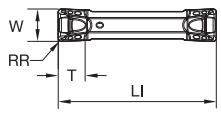
	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

Flat Top Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0305M03U02B	3	3,05	.120	0,2	.008	20	.79	3,5	.138	–	●	–	–	●	–	–	●	–	–	–	–	–
A4G0405M04U04B	4	4,05	.159	0,4	.015	20	.79	3,4	.134	–	–	–	–	●	–	–	●	–	–	–	–	–
A4G0505M05U04B	5	5,05	.199	0,4	.015	25	.98	4,2	.165	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0605M06U04B	6	6,05	.238	0,4	.016	30	1.18	4,9	.193	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0805M08U08B	8	8,05	.317	0,8	.031	30	1.18	6,4	.252	–	–	–	–	●	–	–	–	–	–	–	–	–
A4G1005M10U08B	10	10,05	.396	0,8	.031	30	1.18	8,1	.319	–	–	–	–	●	–	–	–	–	–	–	–	–

A4™ Groove and Turn Inserts • Small Diameter Face Grooving





A4G-SP-GUP

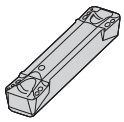
● first choice
○ alternate choice

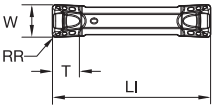
	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

GUP Precision Molded • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M2SP02GUP	2S	2,00	.079	0,2	.008	20	.79	1,9	.075	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP02GUP	3S	3,00	.118	0,2	.008	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP04GUP	3S	3,00	.118	0,4	.016	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP04GUP	4S	4,00	.157	0,4	.016	20	.79	3,4	.132	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP08GUP	4S	4,00	.157	0,8	.031	20	.79	3,4	.132	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP04GUP	5S	5,00	.197	0,4	.016	25	.98	4,1	.163	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP08GUP	5S	5,00	.197	0,8	.032	25	.98	4,1	.162	●	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.





A4G-SU-GUP

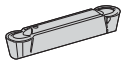
● first choice
○ alternate choice

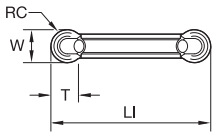
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Ground • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GUP	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GUP	3S	3,05	.120	0,2	.008	20	.79	3,0	.118	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GUP	3S	3,05	.120	0,4	.016	20	.79	3,0	.118	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GUP	4S	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GUP	5S	5,05	.199	0,4	.016	25	.99	4,2	.165	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU08GUP	5S	5,05	.199	0,8	.031	25	.99	4,2	.165	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.



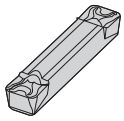


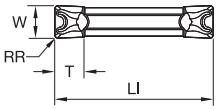
A4R-SP-GMP

GMP Full Radius Precision Ground • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M2SP00GMP	2S	2,00	.079	1,0	.039	20	.78	1,6	.064	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0300M3SP00GMP	3S	3,00	.118	1,5	.059	20	.78	2,5	.098	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M5SP00GMP	5S	5,00	.197	2,5	.098	25	.98	4,1	.159	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.



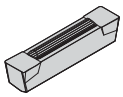


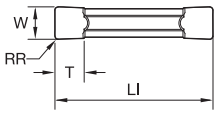
A4G-SU-GMN

GMN Precision Molded • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GMN	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GMN	3S	3,05	.120	0,2	.008	20	.79	3,5	.138	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GMN	3S	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GMN	4S	4,05	.159	0,4	.016	20	.79	3,6	.143	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU08GMN	4S	4,05	.159	0,8	.031	20	.79	3,6	.143	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GMN	5S	5,05	.199	0,4	.016	25	.98	4,2	.165	●	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.





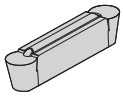
A4G-P-T

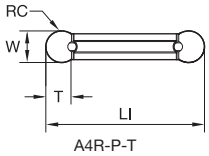
● first choice
○ alternate choice

P		
M		
K		●
N		
S		
H		

Flat Top Precision Ground • Ceramic

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KY3500
A4G0300M03P04T01025	A4G0300M03P04T01025	3	3,00	.118	0,4	.016	20	.79	3,4	.134	●
A4G125I03P1T0425	A4G125I03P1T0425	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●
A4G0400M04P04T01025	A4G0400M04P04T01025	4	4,00	.157	0,4	.016	20	.79	3,4	.134	●
A4G0500M05P08T01025	A4G0500M05P08T01025	5	5,00	.197	0,8	.031	25	.98	4,2	.165	●
A4G0600M06P08T01025	A4G0600M06P08T01025	6	6,00	.236	0,8	.031	30	1.18	4,8	.189	●
A4G250I06P2T0425	A4G250I06P2T0425	6	6,35	.250	0,8	.031	30	1.18	4,9	.193	●
A4G0800M08P08T01025	A4G0800M08P08T01025	8	8,00	.315	0,8	.031	30	1.18	6,4	.250	●

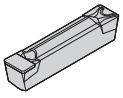


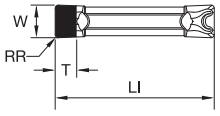


A4R-P-T

Flat Top Full Radius Precision Ground • Ceramic

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KY3500
A4R0300M03P00T01025	A4R0300M03P00T01025	3	3,00	.118	1,5	.059	20	.79	2,4	.095	●
A4R0500M05P00T01025	A4R0500M05P00T01025	5	5,00	.197	2,5	.098	25	.98	4,1	.163	●
A4R0600M06P00T01025	A4R0600M06P00T01025	6	6,00	.236	3,0	.118	30	1.18	4,3	.167	●
A4R250I06P00T0425	A4R250I06P00T0425	6	6,35	.250	3,2	.125	30	1.18	4,8	.191	●
A4R0800M08P00T01025	A4R0800M08P00T01025	8	8,00	.315	4,0	.157	30	1.18	6,4	.250	●





A4G-P-E

● first choice
○ alternate choice

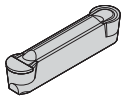
P		●	●	●	●	○		○	○		●				
M		●	●				○	●	○						
K		○	○	○	○	●	○	○	○	●	○	○			
N		●	○				●	●	○						●
S		●	●				●	○	○			○			
H		○						○				●	●		

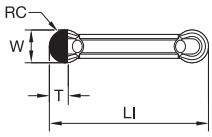
Flat Top Precision Ground • PCD

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	.118	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	.158	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	.197	0,8	.031	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

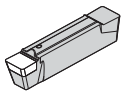


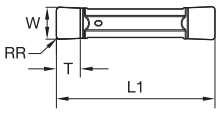


A4R-P-E

Flat Top Full Radius Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	.197	2,5	.099	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

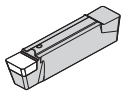


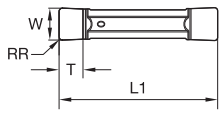


A4G-P-E-ST

Flat Top Precision Ground • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04EST	3	3,00	.118	0,4	.016	20	.78	3,0	.118	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0500M05P08EST	5	5,00	.197	0,8	.031	25	.98	3,5	.138	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0600M06P08EST	6	6,00	.236	0,8	.031	30	1.18	4,0	.157	–	–	–	–	–	–	–	–	–	–	●	–	–

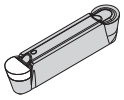


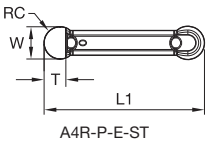


A4G-P-S-ST

Flat Top Precision Ground • T Land • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04S02025ST	3	3,00	.118	0,4	.016	20	.78	3,0	.118	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0400M04P04S02025ST	4	4,00	.157	0,4	.016	20	.78	3,3	.130	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0500M05P08S02025ST	5	5,00	.197	0,8	.031	25	.98	3,5	.138	–	–	–	–	–	–	–	–	–	–	–	●	–
A4G0600M06P08S02025ST	6	6,00	.236	0,8	.031	30	1.18	4,0	.157	–	–	–	–	–	–	–	–	–	–	–	●	–





A4R-P-E-ST

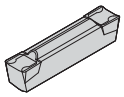
● first choice
○ alternate choice

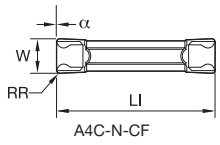
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Flat Top Full Radius Precision Ground • PcBN

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	.118	1,5	.059	20	.78	2,2	.087	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	.157	2,0	.079	20	.78	2,9	.114	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	.197	2,5	.099	25	.98	3,7	.146	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	.236	3,0	.118	30	1.18	4,4	.173	–	–	–	–	–	–	–	–	–	–	●	–	–

A4™ Cut-off Inserts





A4C-N-CF

● first choice
○ alternate choice

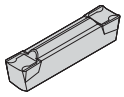
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

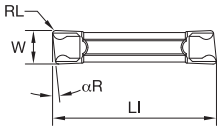
CF Precision Molded • Neutral

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	α	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155N00CF01	1	1,50	.059	0,2	.006	16	.61	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205N00CF02	2	2,05	.081	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0255N00CF02	2B	2,50	.098	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305N00CF02	3	3,05	.120	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405N00CF02	4	4,05	.159	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–

P	●	●	●	●	○		○	○		●						
M	●	●				○	●	○								
K	○	○	○	○	●	○	○	○	●	○	○					
N	●	○				●	●	○								●
S	●	●				●	○	○			○					
H	○						○				●	●				

● first choice
○ alternate choice

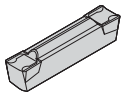


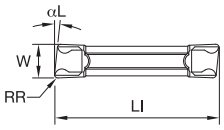


A4C-R-CF

CF Precision Molded • Right Hand

catalog number	seat size	W mm	W in	RL mm	RL in	LI mm	LI in	αR	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155R06CF01	1	1,50	.059	0,2	.006	16	.61	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0155R10CF01	1	1,50	.059	0,2	.006	16	.61	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0155R16CF01	1	1,50	.059	0,2	.006	16	.61	16.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205R06CF02	2	1,99	.078	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205R10CF02	2	1,99	.078	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0255R06CF02	2B	2,49	.098	0,2	.008	20	.79	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305R06CF02	3	3,05	.120	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305R10CF02	3	3,05	.120	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405R06CF02	4	4,05	.159	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405R10CF02	4	4,05	.159	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–





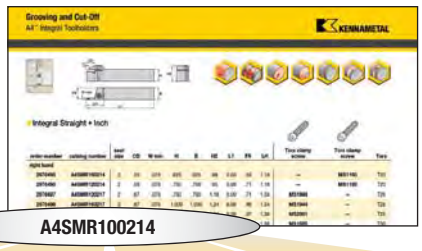
A4C-L-CF

CF Precision Molded • Left Hand

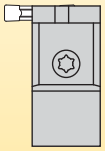
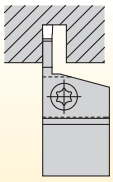
catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	αL	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155L06CF01	1	1,50	.059	0,2	.006	16	.61	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205L06CF02	2	1,99	.078	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0205L10CF02	2	1,99	.078	0,2	.008	20	.79	10.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305L06CF02	3	3,05	.120	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305L10CF02	3	3,05	.120	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L06CF02	4	4,05	.159	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L10CF02	4	4,05	.159	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



A4SMR100214

A4	S	M	R	10	02	14
Tooling System	Tool Style	Support Type	Hand of Tool	Shank Size	Seat Size	Max Grooving Depth
A4 = Grooving and Turning	**S** = Straight  **E** = End mounted 90°		 **R** = Right hand **L** = Left hand **N** = Neutral		**02** **03** **04** **05** **06** **08** **10**	in millimeters

M =

Maximum support for specific groove widths and straight clearance for unlimited workpiece diameters

E =

No steel support for face grooving

C =

Reinforced Support

inch:
For square shanks, the number indicates the height and width in 1/16-inch increments (rectangular: 1st digit = width in 1/8-inch increments, 2nd digit = height in 1/4-inch increments)

metric:
Height x width in mm, letter indicates tool length according to ISO

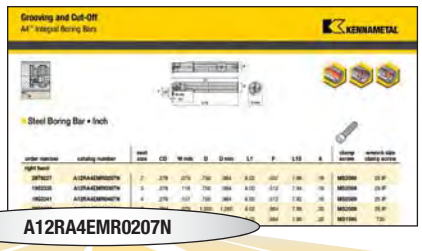
metric tool length (mm)

K = 125

M = 150

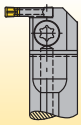
P = 170

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

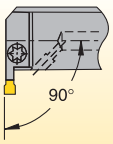


A12RA4EMR0207N

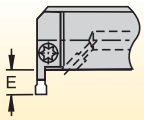
A	12	R	A4	E	M	R	02	07	N
Steel Bar with Coolant	Bar Diameter	Bar Length	A4™ Groove and Turn System	Tool Style	Support Type	Hand of Tool	Insert Seat Size	Grooving Depth in mm	Tool Units



N = Inch
M = Metric

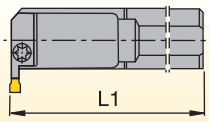


E = End mounted (90°)



conversions:

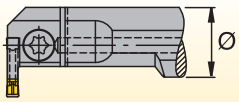
mm	inch
7mm	.28"
10mm	.39"
12mm	.47"
16mm	.63"



inch bars:
R = 8"
S = 10"
T = 12"

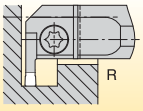
metric bars:
R = 200mm
S = 150mm
T = 300mm

pocket seat size	cutting width (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

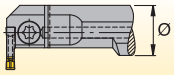


inch bars:
A two-digit number which indicates the bar diameter in 1/16" increments.

metric bars:
Bar diameter in millimeters



R = Right hand



L = Left hand

M = Maximum support

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KGMSL2525M50C

KGMSL1650C

Metric					
KGM	**S**	**L**	**2525M**	**50**	**C**
Inch					
KGM	**S**	**L**	**16**	**50**	**C**
Family Name	Tool Style	Hand	Shank Size	Blade Size	Coolant
Grooving Modular System	**S** = Straight mount **E** = End mount (90°)	**L** = Left hand **R** = Right hand	**Metric** = Height x Width in mm letter indicates tool length according to ISO **Inch** = Height x Width in 1/16" increments	**50** **65**	**C** = Through coolant capable

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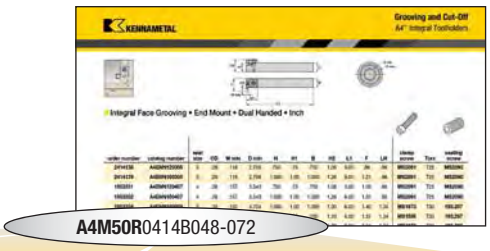
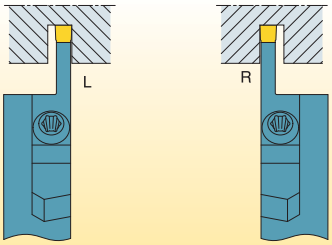
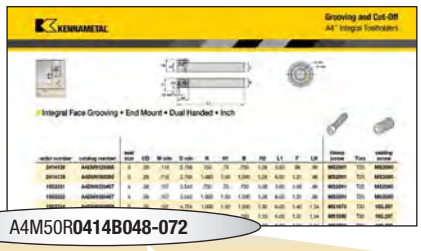


A4M50R0414B048-072

A4M	50	R
Family Name	Modular System Size	Hand of Tool
A4 Modular Blade	**50** **65**	

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



A4M50R**0414B048-072**

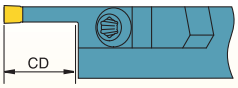
04

Seat Size

pocket seat size	cutting width in	cutting width mm
02	0.08–0.10	2,00–2,62
2B	0.09–0.10	2,39–2,62
03	0.12–0.12	3,0–3,05
04	0.16–0.16	4,0–4,05
05	0.20–0.20	5,0–5,05
06	0.24–0.24	6,0–6,05
08	0.31–0.32	8,0–8,05
10	0.39–0.40	10,0–10,05

14

Maximum Groove Depth

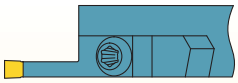


conversions:

mm	inch
14mm	.55"
19mm	.75"
20mm	.79"
26mm	1.02"

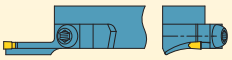
B

Tool Style



M = Maximum support for specific groove widths and straight clearance for unlimited workpiece diameters

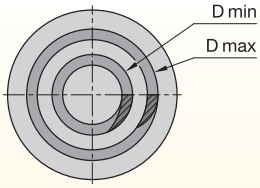
A = Inboard sweep face grooving toolholder



B = Outboard sweep face grooving toolholder

048-072

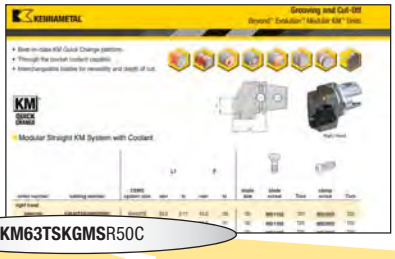
Face Grooving Diameter Range



diameters are min and max for outer face groove dia.
999 = unlimited D max

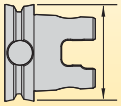
How Do Catalog Numbers Work?

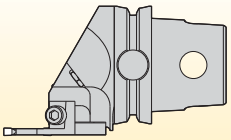
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



KM63TSKGMSR50C

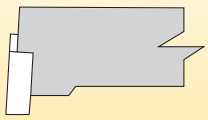
KM	63	TS	KGM	S
KM™ Quick-Change	System Size	Feature	Insert Holding Method	Insert Location
KM **KM4X™** **PSC**	**40** = 40mm **50** = 50mm **63** = 63mm **80** = 80mm **100** = 100mm	**TS** **XMZ**	**KGM**	**E** = End mount **S** = Side mount



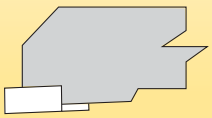


Modular Grooving

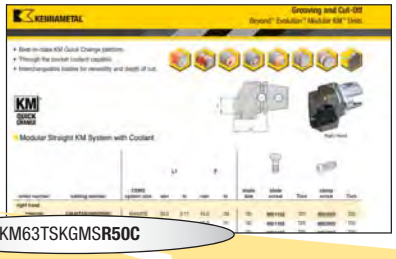
E



S



By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

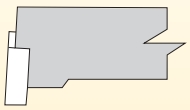


KM63TSKGMS**R50C**

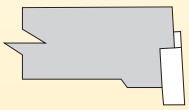
R	50	C	
Hand of Tool	Blade Size	Coolant	Special Features
R = Right hand **L** = Left hand	**50** **60**	**C** = Through the pocket coolant capable	**Y** = Mazak® INTEGREX®

End Mount

R

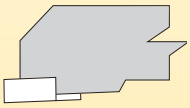


L

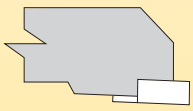


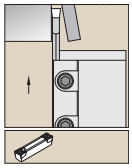
Side Mount

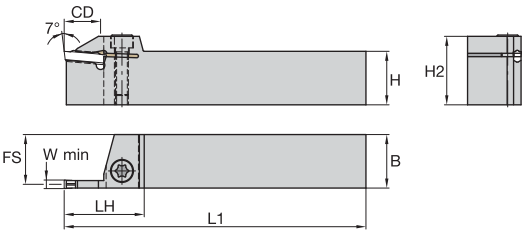
R



L







Right Hand

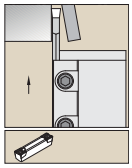
Integral Straight • Inch

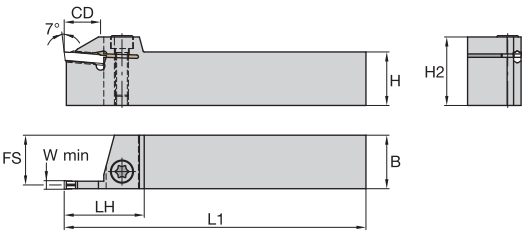
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
2976495	**A4SMR100214**	2	.55	.079	.625	.625	.98	5.00	.59	1.18	**–**	**MS1160**	T20
2976496	**A4SMR120214**	2	.55	.079	.750	.750	.95	5.00	.71	1.18	**–**	**MS1160**	T20
2976497	**A4SMR120217**	2	.67	.079	.750	.750	1.18	5.00	.71	1.34	**MS1944**	**–**	T25
2976498	**A4SMR160217**	2	.67	.079	1.000	1.000	1.24	6.00	.96	1.34	**MS1944**	**–**	T25
1953177	**A4SMR100314**	3	.55	.118	.625	.625	1.03	5.00	.57	1.38	**MS2091**	**–**	T25
1953179	**A4SMR120314**	3	.55	.118	.750	.750	1.06	5.00	.69	1.38	**MS1595**	**–**	T30
1953181	**A4SMR160317**	3	.67	.118	1.000	1.000	1.26	6.00	.94	1.46	**MS1970**	**–**	T30
1957224	**A4SMR100414**	4	.55	.157	.625	.625	1.03	5.00	.55	1.38	**MS2091**	**–**	T25
1953323	**A4SMR120414**	4	.55	.157	.750	.750	1.06	5.00	.67	1.38	**MS1595**	**–**	T30
1953325	**A4SMR160417**	4	.67	.157	1.000	1.000	1.26	6.00	.92	1.46	**MS1970**	**–**	T30
1957226	**A4SMR200417**	4	.67	.157	1.250	1.250	1.54	6.00	1.17	1.46	**MS1970**	**–**	T30
1953327	**A4SMR120519**	5	.75	.197	.750	.750	1.10	5.00	.65	1.57	**MS1595**	**–**	T30
1953329	**A4SMR160520**	5	.79	.197	1.000	1.000	1.30	6.00	.90	1.57	**MS1970**	**–**	T30
1957228	**A4SMR200522**	5	.87	.197	1.250	1.250	1.54	6.00	1.15	1.65	**MS1970**	**–**	T30
2263175	**A4SMR120620**	6	.79	.236	.750	.750	1.06	5.00	.64	1.57	**MS1595**	**–**	T30
2263176	**A4SMR160620**	6	.79	.236	1.000	1.000	1.30	6.00	.89	1.57	**MS1970**	**–**	T30
2263177	**A4SMR160624**	6	.94	.236	1.000	1.000	1.30	6.00	.89	1.69	**MS1970**	**–**	T30
2263178	**A4SMR200626**	6	1.02	.236	1.250	1.250	1.57	6.00	1.14	1.77	**MS1970**	**–**	T30
2263179	**A4SMR240626**	6	1.02	.236	1.500	1.500	1.81	7.00	1.39	1.77	**MS1970**	**–**	T30
2263185	**A4SMR160820**	8	.79	.315	1.000	1.000	1.34	6.00	.86	1.69	**MS1490**	**–**	T45
2263186	**A4SMR160824**	8	.94	.315	1.000	1.000	1.34	6.00	.86	1.81	**MS1490**	**–**	T45
2263187	**A4SMR200826**	8	1.02	.315	1.250	1.250	1.61	6.00	1.11	1.85	**MS1490**	**–**	T45
2263188	**A4SMR240826**	8	1.02	.315	1.500	1.500	1.85	7.00	1.36	1.85	**MS1490**	**–**	T45
2263193	**A4SMR201026**	10	1.02	.394	1.250	1.250	1.61	6.00	1.08	1.85	**MS1490**	**–**	T45

(continued)

(Integral Straight • Inch — continued)

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
left hand													
2976491	**A4SML100214**	2	.55	.079	.625	.625	.98	5.00	.59	1.18	**—**	**MS1160**	T20
2976493	**A4SML120217**	2	.67	.079	.750	.750	1.18	5.00	.71	1.34	**MS1944**	**—**	T25
2976494	**A4SML160217**	2	.67	.079	1.000	1.000	1.24	6.00	.96	1.34	**MS1944**	**—**	T25
1953178	**A4SML100314**	3	.55	.118	.625	.625	1.03	5.00	.57	1.38	**MS2091**	**—**	T25
1953180	**A4SML120314**	3	.55	.118	.750	.750	1.06	5.00	.69	1.38	**MS1595**	**—**	T30
1953182	**A4SML160317**	3	.67	.118	1.000	1.000	1.26	6.00	.94	1.46	**MS1970**	**—**	T30
1953324	**A4SML120414**	4	.55	.157	.750	.750	1.06	5.00	.67	1.38	**MS1595**	**—**	T30
1953326	**A4SML160417**	4	.67	.157	1.000	1.000	1.26	6.00	.92	1.46	**MS1970**	**—**	T30
1957227	**A4SML200417**	4	.67	.157	1.250	1.250	1.54	6.00	1.17	1.46	**MS1970**	**—**	T30
1953328	**A4SML120519**	5	.75	.197	.750	.750	1.10	5.00	.65	1.57	**MS1595**	**—**	T30
1953330	**A4SML160520**	5	.79	.197	1.000	1.000	1.30	6.00	.90	1.57	**MS1970**	**—**	T30
1957229	**A4SML200522**	5	.87	.197	1.250	1.250	1.54	6.00	1.15	1.65	**MS1970**	**—**	T30
2263180	**A4SML120620**	6	.79	.236	.750	.750	1.06	5.00	.64	1.57	**MS1595**	**—**	T30
2263181	**A4SML160620**	6	.79	.236	1.000	1.000	1.30	6.00	.89	1.57	**MS1970**	**—**	T30
2263182	**A4SML160624**	6	.94	.236	1.000	1.000	1.30	6.00	.89	1.69	**MS1970**	**—**	T30
2263183	**A4SML200626**	6	1.02	.236	1.250	1.250	1.57	6.00	1.14	1.77	**MS1970**	**—**	T30
2263184	**A4SML240626**	6	1.02	.236	1.500	1.500	1.81	7.00	1.39	1.77	**MS1970**	**—**	T30
2263190	**A4SML160824**	8	.94	.315	1.000	1.000	1.34	6.00	.86	1.81	**MS1490**	**—**	T45
2263194	**A4SML201026**	10	1.02	.394	1.250	1.250	1.61	6.00	1.08	1.85	**MS1490**	**—**	T45





Right Hand

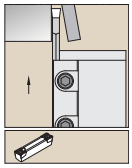
Integral Straight • Metric

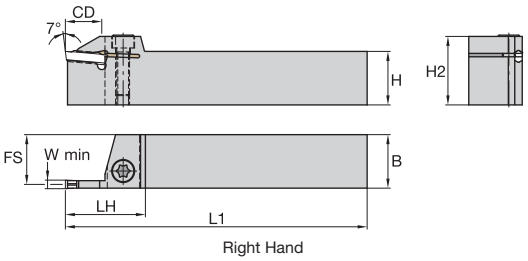
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
3017341	**A4SMR2020K0214**	2	14	–	20	20	25	125	19	30	–	**MS1160**	T20
3017342	**A4SMR1616K0214**	2	14	2	16	16	25	125	15	30	–	**MS1160**	T20
2974425	**A4SMR2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	–	T25
3017340	**A4SMR2525M0214**	2	14	2	25	25	30	150	24	30	–	**MS1160**	T20
3017339	**A4SMR2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	–	T25
1949633	**A4SMR1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	–	T25
2503557	**A4SMR2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	–	T30
1949635	**A4SMR2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	–	T30
2503551	**A4SMR2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	–	T30
1949637	**A4SMR2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	–	T30
2503559	**A4SMR2016K0417**	4	17	4	20	16	32	125	14	37	**MS1970**	–	T30
1949639	**A4SMR2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	–	T30
2503553	**A4SMR2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	–	T30
1949641	**A4SMR2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	–	T30
1949643	**A4SMR3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	–	T30
1949645	**A4SMR2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	–	T30
1949647	**A4SMR2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	–	T30
1949649	**A4SMR3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	–	T30
2503555	**A4SMR2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	–	T30
2245484	**A4SMR2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	–	T30
2263089	**A4SMR3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	–	T30
2245485	**A4SMR2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	–	T45
2263091	**A4SMR3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	–	T45
2263173	**A4SMR3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	–	T45

(continued)

(Integral Straight • Metric — continued)

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
left hand													
3017336	**A4SML2020K0214**	2	14	—	20	20	25	125	19	30	**—**	**MS1160**	T20
3017338	**A4SML1616K0214**	2	14	2	16	16	25	125	15	30	**—**	**MS1160**	T20
3017337	**A4SML2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**—**	T25
3017335	**A4SML2525M0214**	2	14	2	25	25	30	150	24	30	**—**	**MS1160**	T20
3017334	**A4SML2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**—**	T25
1949634	**A4SML1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**—**	T25
2503556	**A4SML2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**—**	T30
1949636	**A4SML2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**—**	T30
2503550	**A4SML2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**—**	T30
1949638	**A4SML2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**—**	T30
1949640	**A4SML2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**—**	T30
2503552	**A4SML2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**—**	T30
1949642	**A4SML2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**—**	T30
1949644	**A4SML3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**—**	T30
1949646	**A4SML2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**—**	T30
1949648	**A4SML2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**—**	T30
1949650	**A4SML3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**—**	T30
2503554	**A4SML2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**—**	T30
2245486	**A4SML2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**—**	T30
2263090	**A4SML3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**—**	T30
2245487	**A4SML2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**—**	T45
2263092	**A4SML3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**—**	T45
2263174	**A4SML3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**—**	T45

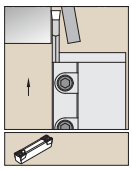


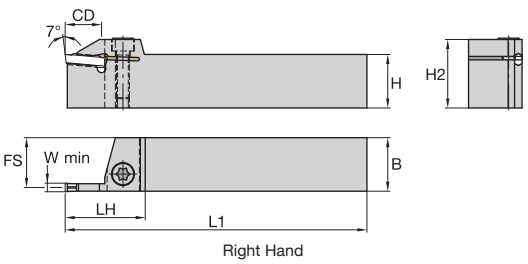


Right Hand

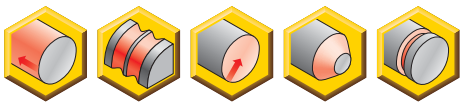
Integral Straight • Short Projection Toolholders • Inch

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	Torx
right hand												
3854277	**A4SMR120308**	3	.32	.118	.750	.750	1.01	5.00	.69	1.10	**MS1595**	T30
3854281	**A4SMR160510**	5	.39	.197	1.000	1.000	1.30	6.00	.91	1.26	**MS1970**	T30

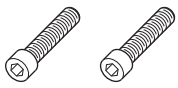




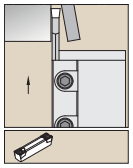
Right Hand

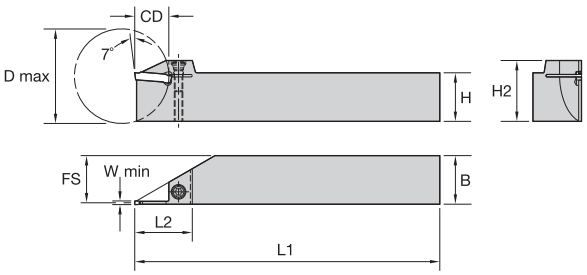


Integral Straight • Short Projection Toolholders • Metric



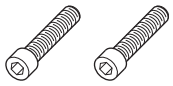
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
3854265	**A4SMR2020K0208**	2	8	2	20	20	24	125	19	26	**–**	**MS1160**	T20
3854267	**A4SMR2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	**–**	T30
3854269	**A4SMR2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	**–**	T30
3854271	**A4SMR2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	**–**	T30
3854273	**A4SMR2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	**–**	T30
left hand													
3854266	**A4SML2020K0208**	2	8	2	20	20	24	125	19	26	**–**	**MS1160**	T20
3854268	**A4SML2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	**–**	T30
3854270	**A4SML2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	**–**	T30
3854272	**A4SML2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	**–**	T30
3854274	**A4SML2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	**–**	T30



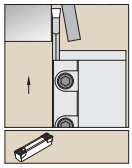


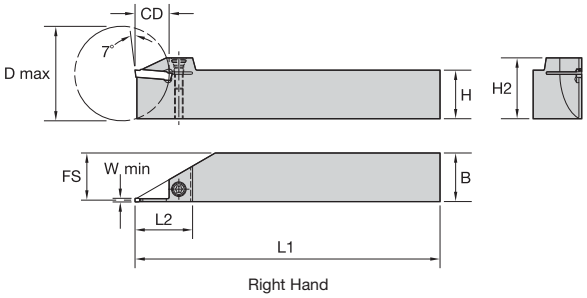
Right Hand

Integral Straight Top Clamp • Inch



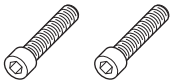
order number	catalog number	seat size	CD	W min	H	B	H2	H3	L1	FS	LH	clamp screw	clamp screw	wrench size clamp screw
right hand														
2981197	**A4SCR060113**	1	.53	.059	.375	.375	.82	.25	4.50	.35	.98	**MS1156**	–	T15
2981196	**A4SCR080113**	1	.53	.059	.500	.500	.82	.13	4.50	.47	.98	**MS1156**	–	T15
2981195	**A4SCR100113**	1	.53	.059	.625	.625	.82	–	4.50	.60	.98	**MS1156**	–	T15
2981194	**A4SCR120113**	1	.53	.059	.750	.743	.95	–	5.00	.72	.98	**MS1156**	–	T15
4168856	**A4SCR080214**	2	.57	.079	.500	.500	.82	.13	4.50	.46	1.10	**MS1160**	–	T20
4168857	**A4SCR100217**	2	.69	.079	.625	.625	1.02	.16	4.50	.59	1.22	–	**MS1944**	T25
4168858	**A4SCR080314**	3	.57	.118	.500	.500	.90	.13	4.50	.45	1.18	–	**MS2091**	25 IP
4168859	**A4SCR100317**	3	.69	.118	.625	.625	1.06	.16	4.50	.57	1.30	–	**MS2091**	25 IP
left hand														
2981102	**A4SCL080113**	1	.53	.059	.500	.500	.82	.13	4.50	.47	.98	**MS1156**	–	T15
2981101	**A4SCL100113**	1	.53	.059	.625	.625	.82	–	4.50	.60	.98	**MS1156**	–	T15
2981100	**A4SCL120113**	1	.53	.059	.750	.750	.95	–	5.00	.72	.98	**MS1156**	–	T15
4168860	**A4SCL080214**	2	.57	.079	.500	.500	.82	.13	4.50	.46	1.10	**MS1160**	–	T20
4168861	**A4SCL100217**	2	.69	.079	.625	.625	1.02	.16	4.50	.59	1.22	–	**MS1944**	T25
4168862	**A4SCL080314**	3	.57	.118	.500	.500	.90	.13	4.50	.45	1.18	–	**MS2091**	25 IP
4168883	**A4SCL100317**	3	.69	.118	.625	.625	1.06	.16	4.50	.57	1.30	–	**MS2091**	25 IP



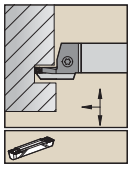


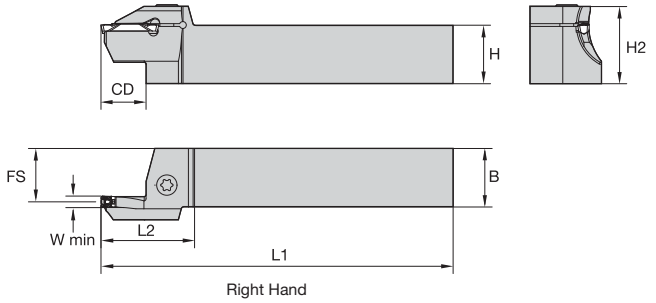
Right Hand

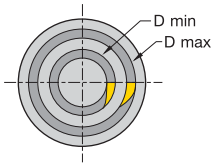
Integral Straight Top Clamp • Metric

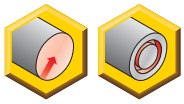


order number	catalog number	seat size	D max	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	wrench size clamp screw
right hand														
2982224	**A4SCR1010K0113**	1	27	13,500	1,50	10	10	21	125	9,40	25	**MS1156**	–	T15
2978378	**A4SCR1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982223	**A4SCR1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982172	**A4SCR2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169745	**A4SCR1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169746	**A4SCR1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169747	**A4SCR1212K0314**	3	28	14,000	3,00	12	12	23	125	10,72	30	–	**MS2091**	25 IP
4169748	**A4SCR1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP
left hand														
2982170	**A4SCL1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982169	**A4SCL1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982168	**A4SCL2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169749	**A4SCL1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169750	**A4SCL1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169752	**A4SCL1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP

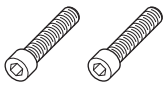

Right hand shown.



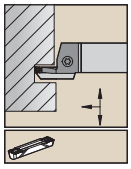


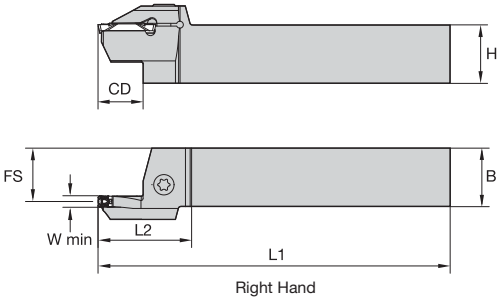


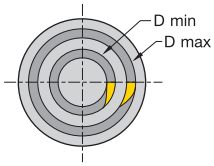
Integral Face Grooving • Outboard • Inch

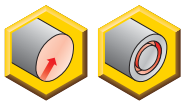


order number	catalog number	seat size	CD	D min	D max	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand															
3865852	**A4SBR122S12016020**	2S	.47	.630	.787	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20
3865903	**A4SBR122S12020025**	2S	.47	.787	.984	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20
3865905	**A4SBR123S14020025**	3S	.55	.787	.984	.118	.750	.750	1.07	5.00	.70	1.18	–	**MS1595**	T30
3865906	**A4SBR123S14025036**	3S	.55	.984	1.417	.118	.750	.750	1.07	5.00	.70	1.38	–	**MS1595**	T30
3865910	**A4SBR165S19038058**	5S	.75	1.496	2.284	.197	1.000	1.000	1.32	6.00	.91	1.57	–	**MS1970**	T30
left hand															
3865911	**A4SBL122S12016020**	2S	.47	.630	.787	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20


Right hand shown.

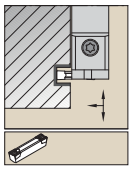


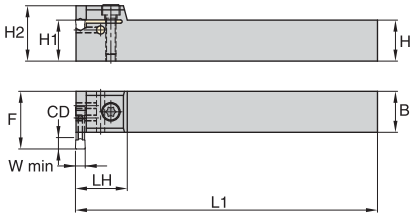




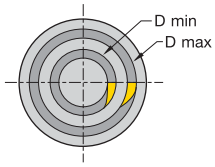
Integral Face Grooving • Outboard • Metric

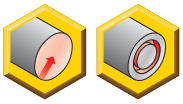
order number	catalog number	seat size	CD	D min	D max	W min	H	B	H2	L1	FS	LH	clamp screw	Torx
right hand														
3865920	**A4SBR2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865921	**A4SBR2020K2S12020025**	2S	12	20	25	2,00	20	20	25	125	19,20	28	–	T20
3865922	**A4SBR2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865923	**A4SBR2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865924	**A4SBR2020K3S14025036**	3S	14	25	36	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865926	**A4SBR2020K4S14035048**	4S	14	35	48	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865927	**A4SBR2525M5S19028038**	5S	19	28	38	5,00	25	25	33	150	22,70	40	**MS1970**	T30
3865928	**A4SBR2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30
left hand														
3865929	**A4SBL2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865931	**A4SBL2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865932	**A4SBL2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865934	**A4SBL2020K4S14025035**	4S	14	25	35	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865937	**A4SBL2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30





Right Hand



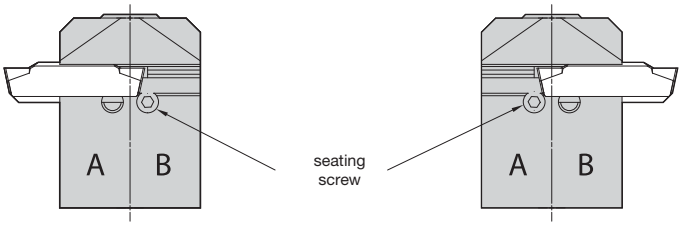


Integral Face Grooving • End Mount • Dual Handed • Inch

order number	catalog number	seat size	CD	W min	D min	H	H1	B	H2	L1	F	LH	clamp screw	Torx	hex seating screw
2414138	**A4ENN120305**	3	.20	.118	2.756	.750	.75	.750	1.06	5.00	.96	.98	**MS2091**	T25	**MS2090**
2414139	**A4ENN160305**	3	.20	.118	2.756	1.000	1.00	1.000	1.26	6.00	1.21	.98	**MS2091**	T25	**MS2090**
1953331	**A4ENN120407**	4	.28	.157	3.543	.750	.75	.750	1.06	5.00	1.06	.98	**MS2091**	T25	**MS2090**
1953332	**A4ENN160407**	4	.28	.157	3.543	1.000	1.00	1.000	1.26	6.00	1.31	.98	**MS2091**	T25	**MS2090**
1953334	**A4ENN160509**	5	.35	.197	4.724	1.000	1.00	1.000	1.30	6.00	1.40	1.34	**MS1970**	T30	**193.297**
2511469	**A4ENN160611**	6	.43	.236	4.724	1.000	1.00	1.000	1.30	6.00	1.54	1.34	**MS1970**	T30	**193.297**
2511470	**A4ENN200611**	6	.43	.236	4.724	1.250	1.25	1.250	1.57	6.00	1.70	1.34	**MS1970**	T30	**193.297**
2511471	**A4ENN160811**	8	.43	.315	4.724	1.000	1.00	1.000	1.38	6.00	1.54	1.57	**MS1490**	T45	**193.407**

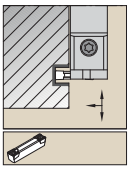
NOTE: D min for face grooving applications.
A4EN-style toolholders are designed without steel support for face grooving capacity. Cutting feed recommendations should be reduced by 25–30%.
Recommended clamp screw torque, 6–8 Nm (50–70 in. lbs.).
Minimum cutting width supplied for reference only; see insert listing for actual width. Always match seat size of insert to seat size of holder.

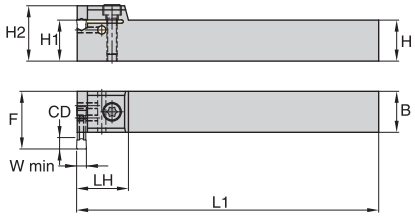
A4EN Insert Mounting

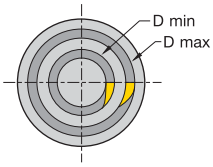


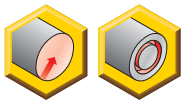
left-hand cut
right-hand cut

A4EN-style holders can be used for either left- or right-hand applications. The seating screw is to be used in position B for a left-hand cut and in position A for a right-hand cut.









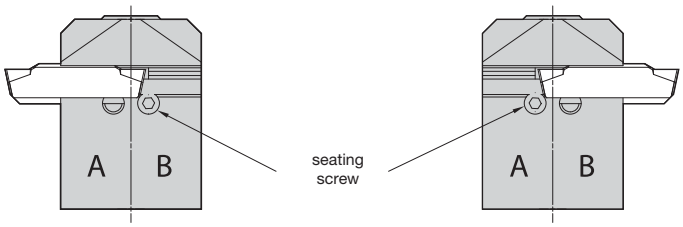
Right Hand

Integral Face Grooving • End Mount • Dual Handed • Metric

order number	catalog number	seat size	CD	W min	D min	H1	B	H2	L1	F	LH	clamp screw	Torx	hex seating screw	hex (mm)
2414136	**A4ENN2020K0305**	3	5	3,00	70	20	20	27	125,0	25,4	25	**MS2091**	T25	**MS2090**	1.5 mm
2414137	**A4ENN2525M0305**	3	5	3,00	70	25	25	32	150,0	30,4	25	**MS2091**	T25	**MS2090**	1.5 mm
1949651	**A4ENN2020K0407**	4	7	4,00	90	20	20	27	125,0	27,9	25	**MS2091**	T25	**MS2090**	1.5 mm
1949652	**A4ENN2525M0407**	4	7	4,00	90	25	25	32	150,0	33,1	25	**MS2091**	T25	**MS2090**	1.5 mm
1949654	**A4ENN2525M0509**	5	9	5,00	120	25	25	33	150,0	35,1	34	**MS1970**	T30	**193.297**	1.5 mm
2503543	**A4ENN2020K0611**	6	11	6,00	120	20	20	28	125,0	35,4	34	**MS1595**	T30	**193.297**	2 mm
2503544	**A4ENN2525M0611**	6	11	6,00	120	25	25	33	150,0	38,9	34	**MS1970**	T30	**193.297**	2 mm
2503545	**A4ENN3232P0611**	6	11	6,00	120	32	32	40	170,0	43,4	34	**MS1970**	T30	**193.297**	2 mm

NOTE: D min for face grooving applications.
A4EN-style toolholders are designed without steel support for face grooving capacity. Cutting feed recommendations should be reduced by 25–30%.
Recommended clamp screw torque, 50–70 in. lbs. (6–8 Nm).
Minimum cutting width supplied for reference only; see insert listing for actual width. Always match seat size of insert to seat size of holder.

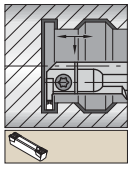
A4EN Insert Mounting



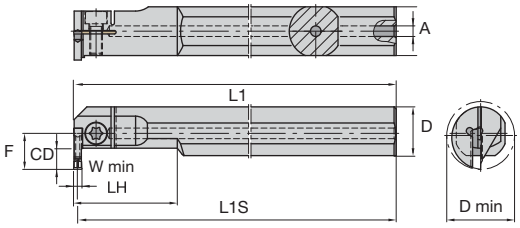
left-hand cut

right-hand cut

A4EN-style holders can be used for either left- or right-hand applications. The seating screw is to be used in position B for a left-hand cut and in position A for a right-hand cut.



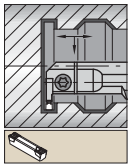
Steel shank with through coolant.



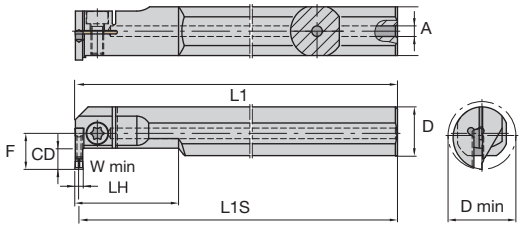
Right Hand

Steel Boring Bar • Inch

order number	catalog number	seat size	CD	W min	D	D min	L1	F	L1S	A	clamp screw	wrench size clamp screw
right hand												
2979227	**A12RA4EMR0207N**	2	.276	.079	.750	.984	8.02	.507	7.98	.16	**MS2089**	25 IP
1953335	**A12RA4EMR0307N**	3	.276	.118	.750	.984	8.00	.512	7.94	.16	**MS2089**	25 IP
1953341	**A12RA4EMR0407N**	4	.276	.157	.750	.984	8.00	.512	7.92	.16	**MS2089**	25 IP
2979229	**A16RA4EMR0210N**	2	.394	.079	1.000	1.260	8.02	.664	7.98	.20	**MS2089**	25 IP
1953337	**A16RA4EMR0310N**	3	.394	.118	1.000	1.260	8.02	.669	7.96	.20	**MS1595**	T30
1953343	**A16RA4EMR0410N**	4	.394	.157	1.000	1.260	8.02	.669	7.94	.20	**MS1595**	T30
1953339	**A20SA4EMR0312N**	3	.472	.118	1.250	1.575	10.00	.866	9.94	.24	**MS1595**	T30
1953345	**A20SA4EMR0412N**	4	.472	.157	1.250	1.575	10.00	.866	9.92	.24	**MS1595**	T30
1953349	**A20SA4EMR0516N**	5	.630	.197	1.250	1.732	10.00	1.024	9.90	.24	**MS1595**	T30
2263203	**A20SA4EMR0616N**	6	.646	.236	1.250	1.732	10.00	1.024	9.88	.24	**MS1595**	T30
1953347	**A24TA4EMR0416N**	4	.630	.157	1.500	2.047	12.00	1.181	11.92	.24	**MS1970**	T30
1953351	**A24TA4EMR0516N**	5	.630	.197	1.500	2.047	12.00	1.181	11.90	.24	**MS1970**	T30
2263199	**A24TA4EMR0616N**	6	.646	.236	1.500	2.047	12.00	1.181	11.88	.24	**MS1970**	T30
2263200	**A32TA4EMR0616N**	6	.646	.236	2.000	2.559	12.00	1.378	11.88	.24	**MS1970**	T30
left hand												
1953336	**A12RA4EML0307N**	3	.276	.118	.750	.984	8.00	.512	7.94	.16	**MS2089**	25 IP
1953342	**A12RA4EML0407N**	4	.276	.157	.750	.984	8.00	.512	7.92	.16	**MS2089**	25 IP
1953338	**A16RA4EML0310N**	3	.394	.118	1.000	1.260	8.02	.669	7.96	.20	**MS1595**	T30
1953344	**A16RA4EML0410N**	4	.394	.157	1.000	1.260	8.02	.669	7.94	.20	**MS1595**	T30
1953352	**A24TA4EML0516N**	5	.646	.197	1.500	2.047	12.00	1.181	11.90	.24	**MS1970**	T30
2263201	**A24TA4EML0616N**	6	.646	.236	1.500	2.047	12.00	1.181	11.88	.24	**MS1970**	T30



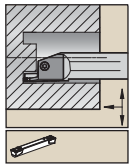
Steel shank with through coolant.

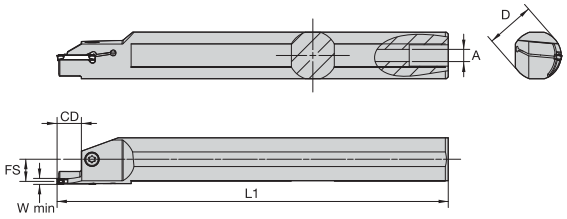


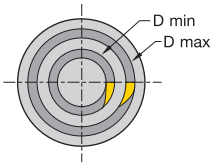
Right Hand

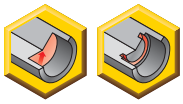
Steel Boring Bar • Metric

order number	catalog number	seat size	CD	W min	D	D min	L1	F	L1S	A	clamp screw	wrench size clamp screw
right hand												
2979223	**A20RA4EMR0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979225	**A25RA4EMR0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949655	**A20RA4EMR0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949657	**A25RA4EMR0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949659	**A32SA4EMR0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949661	**A20RA4EMR0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949663	**A25RA4EMR0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949665	**A32SA4EMR0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949667	**A40TA4EMR0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949669	**A32SA4EMR0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949671	**A40TA4EMR0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263197	**A40TA4EMR0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30
left hand												
2979192	**A20RA4EML0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979224	**A25RA4EML0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949656	**A20RA4EML0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949658	**A25RA4EML0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949660	**A32SA4EML0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949662	**A20RA4EML0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949664	**A25RA4EML0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949666	**A32SA4EML0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949668	**A40TA4EML0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949670	**A32SA4EML0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949672	**A40TA4EML0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263198	**A40TA4EML0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30





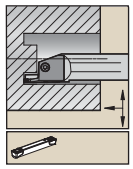


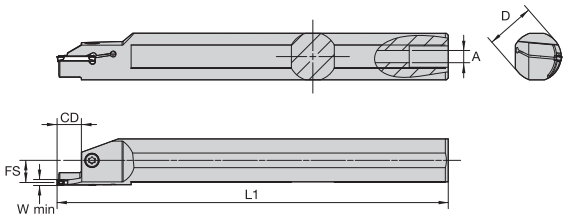


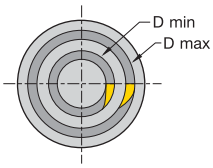
Right Hand

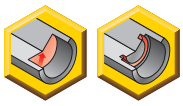
Steel Face Grooving Boring Bar • Inch

order number	catalog number	seat size	CD	D min	D max	W min	D	L1	FS	A	clamp screw	wrench size clamp screw
right hand												
3871028	**A10RA4SAR2S12N017021**	2S	.47	.669	.827	.079	.63	8.01	.28	.158	**MS1160**	T20
3871029	**A12RA4SAR2S12N021026**	2S	.47	.827	1.024	.079	.75	8.01	.34	.158	**MS1160**	T20
3871030	**A16RA4SAR2S12N026036**	2S	.47	1.024	1.417	.079	1.00	8.01	.47	.250	**MS1160**	T20
3871032	**A16RA4SAR3S14N026036**	3S	.55	1.024	1.417	.118	1.00	8.01	.45	.250	**MS1160**	T20
left hand												
3871023	**A10RA4SAL2S12N017021**	2S	.47	.669	.827	.079	.63	8.01	.28	.158	**MS1160**	T20
3871027	**A16RA4SAL3S14N026036**	3S	.55	1.024	1.417	.118	1.00	8.01	.45	.250	**MS1160**	T20





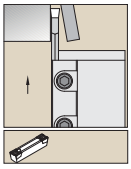


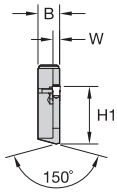


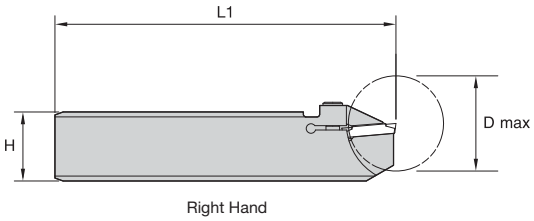
Right Hand

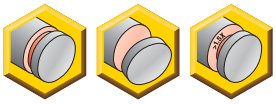
Steel Face Grooving Boring Bar • Metric

order number	catalog number	seat size	CD	D min	D max	W min	D	L1	FS	A	clamp screw	wrench size clamp screw
right hand												
3871038	**A16RA4SAR2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871039	**A20RA4SAR2S12M021026**	2S	12,00	21	23	2,00	20	201	9	4,00	**MS1160**	T20
3871040	**A25RA4SAR2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871041	**A20RA4SAR3S14M021026**	3S	14,00	21	26	3,00	20	201	9	4,00	**MS1160**	T20
3871042	**A25RA4SAR3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20
left hand												
3871033	**A16RA4SAL2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871034	**A20RA4SAL2S12M021026**	2S	12,00	21	26	2,00	20	201	9	4,00	**MS1160**	T20
3871035	**A25RA4SAL2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871037	**A25RA4SAL3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20





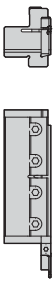




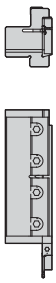
Single-Ended Cut-Off Blade • Inch

order number	catalog number	seat size	H	W	H1	L1	B	D max	clamp screw	Torx
right hand										
3967127	**A4BHCL26K0317R**	3	1.024	.118	.843	4.921	.31	1.378	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	1.260	.118	.984	4.921	.31	1.378	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	1.260	.079	.984	4.921	.31	1.378	**MS1571**	T20
left hand										
3967136	**A4BHCL32K0217L**	2	1.260	.079	.984	4.921	.31	1.378	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	1.260	.118	.984	4.921	.31	1.378	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	1.024	.118	.843	4.921	.31	1.378	**MS1571**	T20

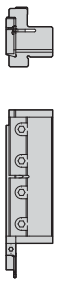
RH Blade
RH Pocket



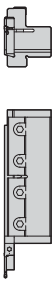
RH Blade
LH Pocket

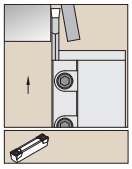


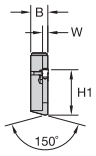
LH Blade
RH Pocket

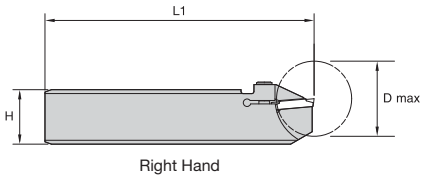


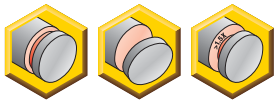
LH Blade
LH Pocket







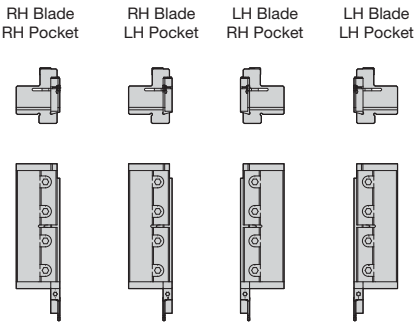


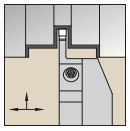


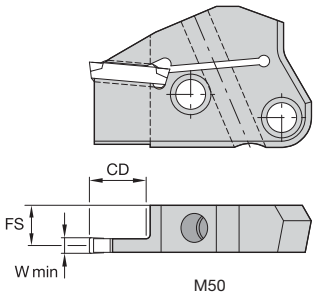
Single-Ended Cut-Off Blade • Metric

order number	catalog number	seat size	H	W	H1	L1	B	D max	clamp screw	Torx
right hand										
3967127	**A4BHCL26K0317R**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
left hand										
3967136	**A4BHCL32K0217L**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20

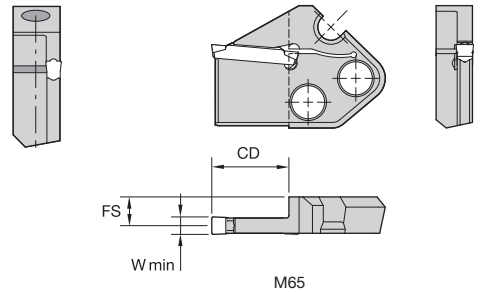
NOTE: Seat size 1 blades only.
Assembly wrenches 170.137 and 170.130 must be ordered separately.




Right hand shown



M50

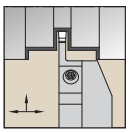


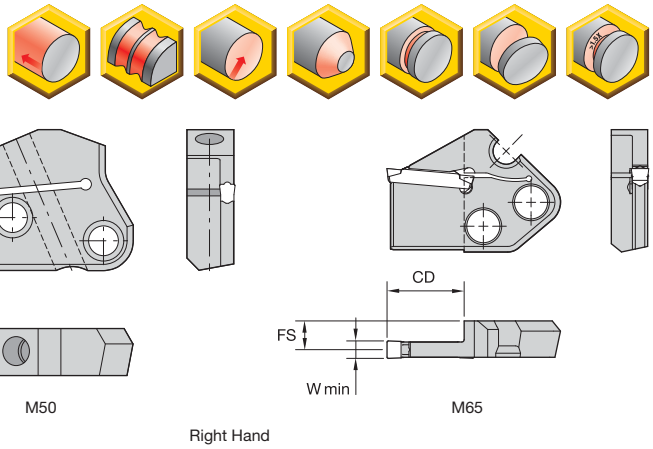
M65

Right Hand

Modular Straight Blade with Coolant

order number	catalog number	seat size	CD mm	CD in	FS mm	FS in	blade size
right hand							
6401815	**A4M50R0314MC**	3	14,0	.55	10,42	.410	50
6401817	**A4M50R0414MC**	4	14,0	.55	9,92	.391	50
6401819	**A4M50R0519MC**	5	19,0	.75	9,42	.371	50
6401834	**A4M65R0620MC**	6	20,0	.79	9,88	.389	65
6401838	**A4M65R0820MC**	8	20,0	.79	9,00	.354	65
6401852	**A4M65R1020MC**	10	20,0	.79	8,35	.329	65
6401831	**A4M65R0522MC**	5	22,0	.87	10,28	.405	65
6401835	**A4M65R0626MC**	6	26,0	1.02	9,88	.389	65
6401839	**A4M65R0826MC**	8	26,0	1.02	9,00	.354	65
6401853	**A4M65R1026MC**	10	26,0	1.02	8,35	.329	65
left hand							
6401814	**A4M50L0314MC**	3	14,0	.55	10,42	.410	50
6401816	**A4M50L0414MC**	4	14,0	.55	9,92	.391	50
6401818	**A4M50L0519MC**	5	19,0	.75	9,43	.371	50
6401832	**A4M65L0620MC**	6	20,0	.79	9,88	.389	65
6401836	**A4M65L0820MC**	8	20,0	.79	9,00	.354	65
6401840	**A4M65L1020MC**	10	20,0	.79	8,35	.329	65
6401820	**A4M65L0522MC**	5	22,0	.87	10,28	.405	65
6401833	**A4M65L0626MC**	6	26,0	1.02	9,88	.389	65
6401837	**A4M65L0826MC**	8	26,0	1.02	9,00	.354	65
6401851	**A4M65L1026MC**	10	26,0	1.02	8,35	.329	65


Right hand shown.

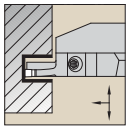


Right Hand

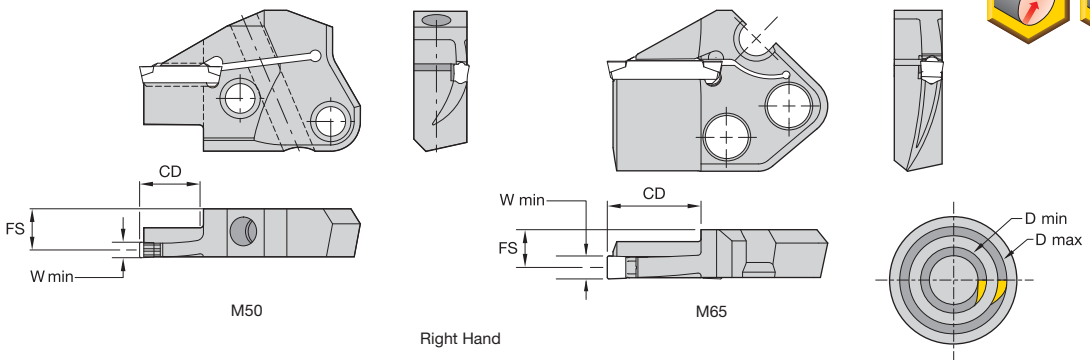
Modular Straight Blade

order number	catalog number	seat size	W min mm	W min in	CD mm	CD in	FS mm	FS in	blade size
right hand									
3051624	**A4M50R0214M**	2	2,00	.079	14,0	.55	10,87	.428	50
1989348	**A4M50R0314M**	3	3,00	.118	14,0	.55	10,43	.410	50
1989350	**A4M50R0414M**	4	4,00	.157	14,0	.55	9,93	.391	50
1989352	**A4M50R0519M**	5	5,00	.197	19,0	.75	9,43	.371	50
3557114	**A4M65R0620M**	6	6,00	.236	20,0	.79	9,88	.389	65
3557116	**A4M65R0626M**	6	6,00	.236	26,0	1.02	9,88	.389	65
3557120	**A4M65R0826M**	8	8,00	.315	26,0	1.02	9,00	.354	65
3557124	**A4M65R1026M**	10	10,00	.394	26,0	1.02	8,35	.329	65
left hand									
3022625	**A4M50L0214M**	2	2,00	.079	14,0	.55	10,87	.428	50
1989347	**A4M50L0314M**	3	3,00	.118	14,0	.55	10,43	.410	50
1989349	**A4M50L0414M**	4	4,00	.157	14,0	.55	9,93	.391	50
3051623	**A4M50L2B14M**	2B	2,50	.098	14,0	.55	10,70	.421	50
1989351	**A4M50L0519M**	5	5,00	.197	19,0	.75	9,43	.371	50
3557115	**A4M65L0620M**	6	6,00	.236	20,0	.79	9,88	.389	65
3557119	**A4M65L0820M**	8	8,00	.315	20,0	.79	9,00	.354	65
3557123	**A4M65L1020M**	10	10,00	.394	20,0	.79	8,35	.329	65
3557117	**A4M65L0626M**	6	6,00	.236	26,0	1.02	9,88	.389	65
3557121	**A4M65L0826M**	8	8,00	.315	26,0	1.02	9,00	.354	65
3557125	**A4M65L1026M**	10	10,00	.394	26,0	1.02	8,35	.329	65

NOTE: Seat size 2B only accepts 2B inserts. Seat size 2 accepts 2 or 2B inserts.



Right hand shown.



Modular Face Groovin g Blade • Inboard

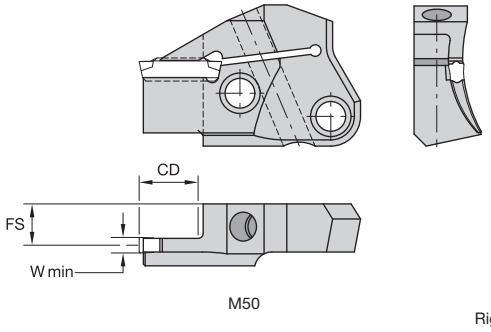
order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD	FS	cartridge size
right hand										
3051670	**A4M50R0212A036046**	2	36	1.417	46	1.811	.079	.47	0.429	50
3051671	**A4M50R0212A042054**	2	42	1.654	54	2.126	.079	.47	0.429	50
3051672	**A4M50R0212A050064**	2	50	1.969	64	2.520	.079	.47	0.429	50
3051673	**A4M50R0212A060084**	2	60	2.362	84	3.307	.079	.47	0.429	50
3051674	**A4M50R0212A080124**	2	80	3.150	124	4.882	.079	.47	0.429	50
3051675	**A4M50R0212A120254**	2	120	4.724	254	10.000	.079	.47	0.429	50
3051676	**A4M50R0212A250999**	2	250	9.843	–	–	.079	.47	0.429	50
2542517	**A4M50R0314A036048**	3	36	1.417	48	1.890	.118	.55	0.413	50
2542518	**A4M50R0314A042058**	3	42	1.654	58	2.284	.118	.55	0.413	50
2542519	**A4M50R0314A052074**	3	52	2.047	74	2.913	.118	.55	0.413	50
2542520	**A4M50R0314A068100**	3	68	2.677	100	3.937	.118	.55	0.413	50
2542521	**A4M50R0314A090160**	3	90	3.543	160	6.299	.118	.55	0.413	50
2542522	**A4M50R0314A130300**	3	130	5.118	300	11.811	.118	.55	0.413	50
2542523	**A4M50R0314A290999**	3	290	11.417	–	–	.118	.55	0.413	50
2542531	**A4M50R0414A048072**	4	48	1.890	72	2.835	.157	.55	0.394	50
2542532	**A4M50R0414A064100**	4	64	2.520	100	3.937	.157	.55	0.394	50
2542533	**A4M50R0414A092150**	4	92	3.622	150	5.906	.157	.55	0.394	50
2542534	**A4M50R0414A132300**	4	132	5.197	300	11.811	.157	.55	0.394	50
2542535	**A4M50R0414A290999**	4	290	11.417	–	–	.157	.55	0.394	50
2542541	**A4M50R0519A058094**	5	58	2.284	94	3.701	.197	.75	0.374	50
2542542	**A4M50R0519A080136**	5	80	3.150	136	5.354	.197	.75	0.374	50
2542543	**A4M50R0519A120300**	5	120	4.724	300	11.811	.197	.75	0.374	50
2542544	**A4M50R0519A250999**	5	250	9.843	–	–	.197	.75	0.374	50
3557131	**A4M65R0624A070-112**	6	70	2.756	112	4.409	.236	.94	0.389	65
3557163	**A4M65R0624A100-212**	6	100	3.937	212	8.347	.236	.94	0.389	65
3557165	**A4M65R0624A200-999**	6	200	7.874	999	39.331	.236	.94	0.389	65
3557167	**A4M65R0824A090-200**	8	90	3.543	200	7.874	.315	.94	0.354	65
3557169	**A4M65R0824A184-999**	8	184	7.244	999	39.331	.315	.94	0.354	65
3557173	**A4M65R1024A200-999**	10	200	7.874	999	39.331	.394	.94	0.329	65

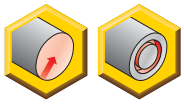
(*continued*)

(Modular Face Grooving Blade • Inboard — continued)

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD	FS	cartridge size
left hand										
3051629	**A4M50L0212A060084**	2	60	2.362	84	3.307	.079	.47	0.429	50
3051631	**A4M50L0212A120254**	2	120	4.724	254	10.000	.079	.47	0.429	50
3051632	**A4M50L0212A250999**	2	250	9.843	—	—	.079	.47	0.429	50
2542524	**A4M50L0314A036048**	3	36	1.417	48	1.890	.118	.55	0.413	50
2542527	**A4M50L0314A068100**	3	68	2.677	100	3.937	.118	.55	0.413	50
2542528	**A4M50L0314A090160**	3	90	3.543	160	6.299	.118	.55	0.413	50
2542529	**A4M50L0314A130300**	3	130	5.118	300	11.811	.118	.55	0.413	50
2542530	**A4M50L0314A290999**	3	290	11.417	—	—	.118	.55	0.413	50
2542537	**A4M50L0414A064100**	4	64	2.520	100	3.937	.157	.55	0.394	50
2542538	**A4M50L0414A092150**	4	92	3.622	150	5.906	.157	.55	0.394	50
2542539	**A4M50L0414A132300**	4	132	5.197	300	11.811	.157	.55	0.394	50
2542540	**A4M50L0414A290999**	4	290	11.417	—	—	.157	.55	0.394	50
2542545	**A4M50L0519A058094**	5	58	2.284	94	3.701	.197	.75	0.374	50
2542546	**A4M50L0519A080136**	5	80	3.150	136	5.354	.197	.75	0.374	50
2542547	**A4M50L0519A120300**	5	120	4.724	300	11.811	.197	.75	0.374	50
2542548	**A4M50L0519A250999**	5	250	9.843	—	—	.197	.75	0.374	50
3557132	**A4M65L0624A070-112**	6	70	2.756	112	4.409	.236	.94	0.389	65
3557164	**A4M65L0624A100-212**	6	100	3.937	212	8.347	.236	.94	0.389	65
3557166	**A4M65L0624A200-999**	6	200	7.874	999	39.331	.236	.94	0.389	65
3557174	**A4M65L1024A200-999**	10	200	7.874	999	39.331	.394	.94	0.329	65

Right hand shown.





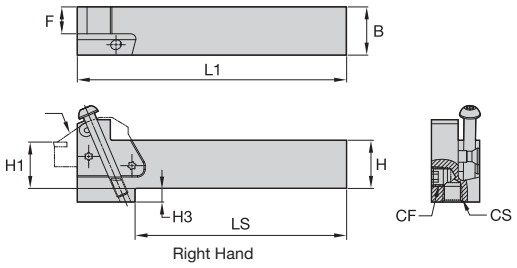
Modular Face Grooving Blade • Outboard

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD mm	CD in	FS mm	FS in	cartridge size
right hand												
3051677	**A4M50R0212B036046**	2	36	1.417	46	1.811	.079	12,00	.47	10,900	.429	50
3051678	**A4M50R0212B042054**	2	42	1.654	54	2.126	.079	12,00	.47	10,900	.429	50
3051679	**A4M50R0212B050064**	2	50	1.969	64	2.520	.079	12,00	.47	10,900	.429	50
3051680	**A4M50R0212B060084**	2	60	2.362	84	3.307	.079	12,00	.47	10,900	.429	50
3051681	**A4M50R0212B080124**	2	80	3.150	124	4.882	.079	12,00	.47	10,900	.429	50
3051682	**A4M50R0212B120254**	2	120	4.724	254	10.000	.079	12,00	.47	10,900	.429	50
3051683	**A4M50R0212B250999**	2	250	9.843	—	—	.079	12,00	.47	10,900	.429	50
3867457	**A4M50R2S12B016020**	2S	16	.630	20	.787	.079	12,00	.47	10,900	.429	50
3867458	**A4M50R2S12B020025**	2S	20	.787	25	.984	.079	12,00	.47	10,900	.429	50
3867459	**A4M50R2S12B025036**	2S	25	.984	36	1.417	.079	12,00	.47	10,900	.429	50
2398751	**A4M50R0314B036048**	3	36	1.417	48	1.890	.118	14,00	.55	10,500	.413	50
2398752	**A4M50R0314B042058**	3	42	1.654	58	2.284	.118	14,00	.55	10,500	.413	50
2398763	**A4M50R0314B052074**	3	52	2.047	74	2.913	.118	14,00	.55	10,500	.413	50
2398764	**A4M50R0314B068100**	3	68	2.677	100	3.937	.118	14,00	.55	10,500	.413	50
2398765	**A4M50R0314B090160**	3	90	3.543	160	6.299	.118	14,00	.55	10,500	.413	50
2398766	**A4M50R0314B130300**	3	130	5.118	300	11.811	.118	14,00	.55	10,500	.413	50
2398767	**A4M50R0314B290999**	3	290	11.417	—	—	.118	14,00	.55	10,500	.413	50
2398775	**A4M50R0414B048072**	4	48	1.890	72	2.835	.157	14,00	.55	10,000	.394	50
2398776	**A4M50R0414B064100**	4	64	2.520	100	3.937	.157	14,00	.55	10,000	.394	50
2398777	**A4M50R0414B092150**	4	92	3.622	150	5.906	.157	14,00	.55	10,000	.394	50
2398778	**A4M50R0414B132300**	4	132	5.197	300	11.811	.157	14,00	.55	10,000	.394	50
2398779	**A4M50R0414B290999**	4	290	11.417	—	—	.157	14,00	.55	10,000	.394	50
3867460	**A4M50R3S14B020025**	3S	20	.787	25	.984	.118	14,00	.55	10,490	.413	50
3867461	**A4M50R3S14B025036**	3S	25	.984	36	1.417	.118	14,00	.55	10,490	.413	50
3867462	**A4M50R4S14B025035**	4S	25	.984	35	1.378	.157	14,00	.55	10,000	.394	50
3867464	**A4M50R5S17B028038**	5S	28	1.102	38	1.496	.197	17,00	.67	9,500	.374	50
2398785	**A4M50R0519B058094**	5	58	2.284	94	3.701	.197	19,00	.75	9,500	.374	50
2398786	**A4M50R0519B080136**	5	80	3.150	136	5.354	.197	19,00	.75	9,500	.374	50
2398787	**A4M50R0519B120300**	5	120	4.724	300	11.811	.197	19,00	.75	9,500	.374	50
2398788	**A4M50R0519B250999**	5	250	9.843	—	—	.197	19,00	.75	9,500	.374	50
3557175	**A4M65R0624B070-112**	6	70	2.756	112	4.409	.236	24,00	.94	9,870	.389	65
3557177	**A4M65R0624B100-212**	6	100	3.937	212	8.347	.236	24,00	.94	9,870	.389	65
3557179	**A4M65R0624B200-999**	6	200	7.874	999	39.331	.236	24,00	.94	9,870	.389	65
3557181	**A4M65R0824B090-200**	8	90	3.543	200	7.874	.315	24,00	.94	9,000	.354	65
3557193	**A4M65R0824B184-999**	8	184	7.244	999	39.331	.315	24,00	.94	9,000	.354	65
3557195	**A4M65R1024B100-220**	10	100	3.937	220	8.661	.394	24,00	.94	8,350	.329	65
3557197	**A4M65R1024B200-999**	10	200	7.874	999	39.331	.394	24,00	.94	8,350	.329	65

(*continued*)

(Modular Face Grooving Blade • Outboard — continued)

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD mm	CD in	FS mm	FS in	cartridge size
left hand												
3051663	**A4M50L0212B036046**	2	36	1.417	46	1.811	.079	12,00	.47	10,900	.429	50
3051664	**A4M50L0212B042054**	2	42	1.654	54	2.126	.079	12,00	.47	10,900	.429	50
3051665	**A4M50L0212B050064**	2	50	1.969	64	2.520	.079	12,00	.47	10,900	.429	50
3051666	**A4M50L0212B060084**	2	60	2.362	84	3.307	.079	12,00	.47	10,900	.429	50
3051667	**A4M50L0212B080124**	2	80	3.150	124	4.882	.079	12,00	.47	10,900	.429	50
3051668	**A4M50L0212B120254**	2	120	4.724	254	10.000	.079	12,00	.47	10,900	.429	50
3867466	**A4M50L2S12B016020**	2S	16	.630	20	.787	.079	12,00	.47	10,900	.429	50
3867467	**A4M50L2S12B020025**	2S	20	.787	25	.984	.079	12,00	.47	10,900	.429	50
3867468	**A4M50L2S12B025036**	2S	25	.984	36	1.417	.079	12,00	.47	10,900	.429	50
2398768	**A4M50L0314B036048**	3	36	1.417	48	1.890	.118	14,00	.55	10,500	.413	50
2398769	**A4M50L0314B042058**	3	42	1.654	58	2.284	.118	14,00	.55	10,500	.413	50
2398770	**A4M50L0314B052074**	3	52	2.047	74	2.913	.118	14,00	.55	10,500	.413	50
2398771	**A4M50L0314B068100**	3	68	2.677	100	3.937	.118	14,00	.55	10,500	.413	50
2398772	**A4M50L0314B090160**	3	90	3.543	160	6.299	.118	14,00	.55	10,500	.413	50
2398773	**A4M50L0314B130300**	3	130	5.118	300	11.811	.118	14,00	.55	10,500	.413	50
2398774	**A4M50L0314B290999**	3	290	11.417	—	—	.118	14,00	.55	10,500	.413	50
2398780	**A4M50L0414B048072**	4	48	1.890	72	2.835	.157	14,00	.55	10,000	.394	50
2398781	**A4M50L0414B064100**	4	64	2.520	100	3.937	.157	14,00	.55	10,000	.394	50
2398782	**A4M50L0414B092150**	4	92	3.622	150	5.906	.157	14,00	.55	10,000	.394	50
2398783	**A4M50L0414B132300**	4	132	5.197	300	11.811	.157	14,00	.55	10,000	.394	50
2398784	**A4M50L0414B290999**	4	290	11.417	—	—	.157	14,00	.55	10,000	.394	50
3867469	**A4M50L3S14B020025**	3S	20	.787	25	.984	.118	14,00	.55	10,490	.413	50
3867470	**A4M50L3S14B025036**	3S	25	.984	36	1.417	.118	14,00	.55	10,490	.413	50
3867472	**A4M50L4S14B035048**	4S	35	1.378	48	1.890	.157	14,00	.55	10,000	.394	50
3867484	**A4M50L5S17B028038**	5S	28	1.102	38	1.496	.197	17,00	.67	9,500	.374	50
2398789	**A4M50L0519B058094**	5	58	2.284	94	3.701	.197	19,00	.75	9,500	.374	50
2398790	**A4M50L0519B080136**	5	80	3.150	136	5.354	.197	19,00	.75	9,500	.374	50
2398791	**A4M50L0519B120300**	5	120	4.724	300	11.811	.197	19,00	.75	9,500	.374	50
2398792	**A4M50L0519B250999**	5	250	9.843	—	—	.197	19,00	.75	9,500	.374	50
3557176	**A4M65L0624B070-112**	6	70	2.756	112	4.409	.236	24,00	.94	9,870	.389	65
3557178	**A4M65L0624B100-212**	6	100	3.937	212	8.347	.236	24,00	.94	9,870	.389	65
3557180	**A4M65L0624B200-999**	6	200	7.874	999	39.331	.236	24,00	.94	9,870	.389	65
3557182	**A4M65L0824B090-200**	8	90	3.543	200	7.874	.315	24,00	.94	9,000	.354	65
3557194	**A4M65L0824B184-999**	8	184	7.244	999	39.331	.315	24,00	.94	9,000	.354	65
3557198	**A4M65L1024B200-999**	10	200	7.874	999	39.331	.394	24,00	.94	8,350	.329	65

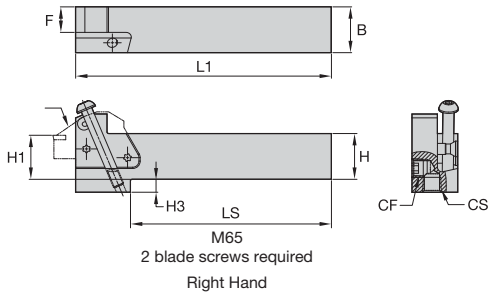


Modular Straight Toolholder • Inch

NOTE: For modular straight toolholder with coolant, see page C65.

order number	catalog number	H	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand													
1600245	**KGMSR1650N**	1.00	1.00	5.5	4.26	.56	—	6,35	**KT25**	**MS1162**	T25	**MS2002**	T25
3556992	**KGMSR1665N**	1.00	1.00	6.0	4.82	.53	2.09	12,70	**KT30L**	**MS1163**	T30	**—**	—
1617400	**KGMSR2050N**	1.25	1.25	5.5	—	.81	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557104	**KGMSR2065N**	1.25	1.25	6.0	4.90	.78	2.09	6,35	**KT30L**	**MS1163**	T30	**—**	—
1903553	**KGMSR2450N**	1.50	1.50	5.5	—	1.06	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557106	**KGMSR2465N**	1.50	1.50	7.0	5.90	1.03	2.09	—	**KT30L**	**MS1163**	T30	**—**	—
left hand													
1600246	**KGMSL1650N**	1.00	1.00	5.5	4.26	.56	—	6,35	**KT25**	**MS1162**	T25	**MS2002**	T25
3557103	**KGMSL1665N**	1.00	1.00	6.0	4.82	.53	2.09	12,70	**KT30L**	**MS1163**	T30	**—**	—
1617591	**KGMSL2050N**	1.25	1.25	5.5	—	.81	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557105	**KGMSL2065N**	1.25	1.25	6.0	4.90	.78	2.09	6,35	**KT30L**	**MS1163**	T30	**—**	—
1909004	**KGMSL2450N**	1.50	1.50	5.5	—	1.06	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557107	**KGMSL2465N**	1.50	1.50	7.0	5.90	1.03	2.09	—	**KT30L**	**MS1163**	T30	**—**	—

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71-88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)

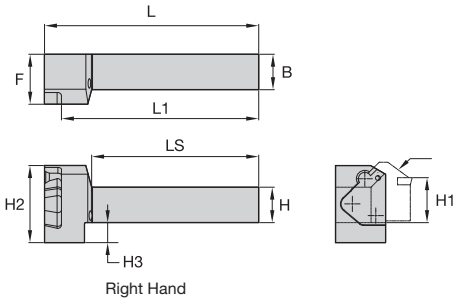


Modular Straight Toolholder • Metric

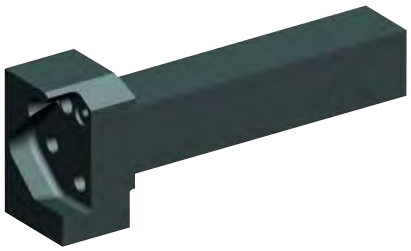
NOTE: For modular straight toolholder with coolant, see page C66.

order number	catalog number	B	H	L1	F	LS	H3	blade screw	Torx	clamp screw	Torx
right hand											
1600249	**KGMSR2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553429	**KGMSR2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621083	**KGMSR3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553431	**KGMSR3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–
left hand											
1600250	**KGMSL2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553430	**KGMSL2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621084	**KGMSL3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553432	**KGMSL3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 8–10 Nm (71–88 in. lbs.).
M65 blade and clamp screw torque equals 18–20 Nm (159–177 in. lbs.).



Right Hand

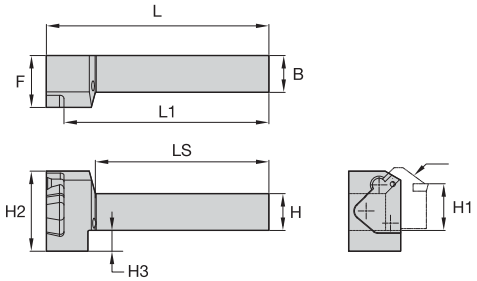


Modular End Mount Toolholder • Inch

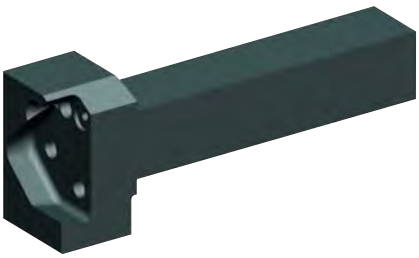
NOTE: For modular end mount toolholder with coolant, see page C67.

order number	catalog number	H	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand													
1600263	**KGMER1650N**	1.00	1.00	5.5	4.96	1.70	–	6,10	**KT25**	**MS1162**	T25	**MS2002**	T25
3557108	**KGMER1665N**	1.00	1.00	5.5	4.70	1.38	2.09	12,70	**KT30L**	**MS1163**	T30	**–**	–
1617592	**KGMER2050N**	1.25	1.25	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
3557110	**KGMER2065N**	1.25	1.25	5.5	4.70	1.38	2.09	6,35	**KT30L**	**MS1163**	T30	**–**	–
1907344	**KGMER2450N**	1.50	1.50	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
left hand													
1600264	**KGMEL1650N**	1.00	1.00	5.5	4.96	1.70	–	6,10	**KT25**	**MS1162**	T25	**MS2002**	T25
3557109	**KGMEL1665N**	1.00	1.00	5.5	4.70	1.38	2.09	12,70	**KT30L**	**MS1163**	T30	**–**	–
1617593	**KGMEL2050N**	1.25	1.25	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
3557111	**KGMEL2065N**	1.25	1.25	5.5	4.70	1.38	2.09	6,35	**KT30L**	**MS1163**	T30	**–**	–
3557113	**KGMEL2465N**	1.50	1.50	6.5	5.70	1.50	2.09	–	**KT30L**	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)



M65
2 blade screws required
Right Hand



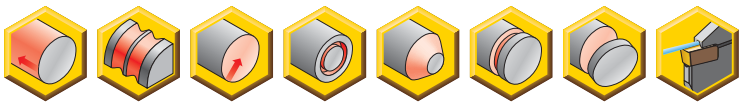
Modular End Mount Toolholders • Metric

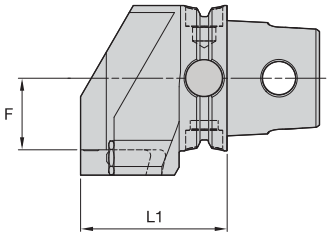
NOTE: For modular end mount toolholder with coolant, see page C68.

order number	catalog number	B	H	L1	F	LS	H3	L	blade screw (2 required)	Torx	clamp screw	Torx
right hand												
1600270	**KGMER2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553453	**KGMER2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621085	**KGMER3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553455	**KGMER3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–
left hand												
1600271	**KGMEL2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553454	**KGMEL2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621086	**KGMEL3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553456	**KGMEL3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 8–10 Nm (71–88 in. lbs.).
M65 blade and clamp screw torque equals 18–20 Nm (159–177 in. lbs.).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





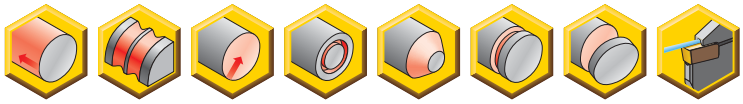
Right Hand

Modular Straight KM System with Coolant

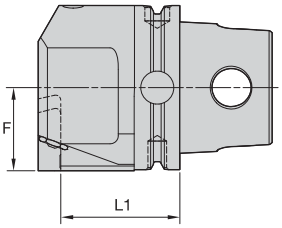
order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25

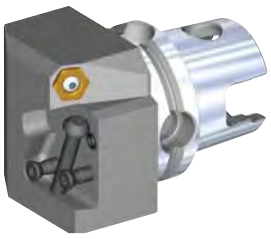
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.



KM QUICK CHANGE

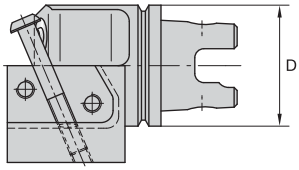


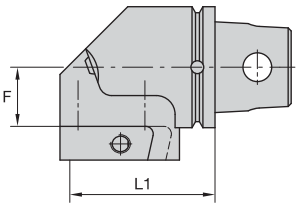

Right Hand

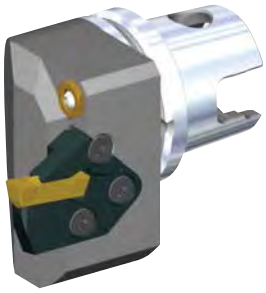
Modular End Mount KM System with Coolant • Metric

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999788	**KM40TSKGMER50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).





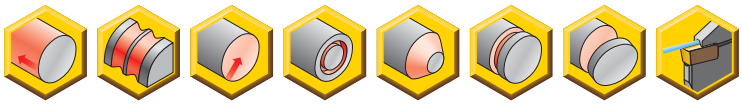


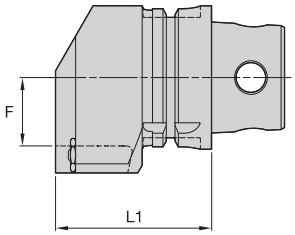
Modular End Mount KM-XMZ System with Coolant

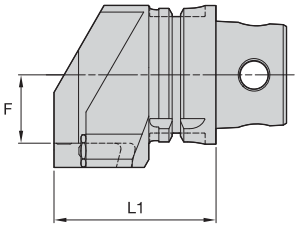
order number	catalog number	D	L1	F	blade screw (2 required)	clamp screw	Torx
right hand							
1756550	**KM63XMZKGMSR50Y**	2.48	2.50	1.22	**MS1162**	**MS2002**	T25
left hand							
1756574	**KM63XMZKGMSLF50Y**	2.48	2.50	1.22	**MS1162**	**MS2002**	T25
3588680	**KM63XMZKGMSLF65Y**	2.48	2.30	1.18	**MS1163**	**–**	**–**

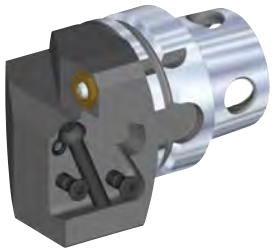
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
Blade and clamp screw torque 71–88 in. lbs. (8–10 Nm).

- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.







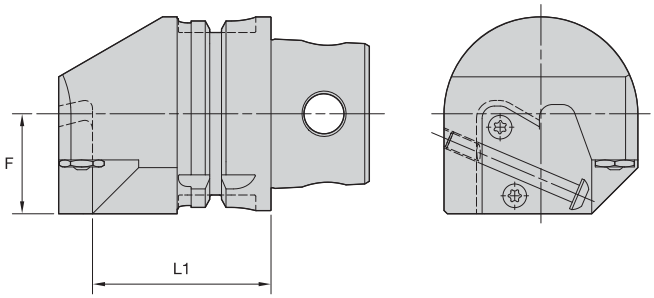


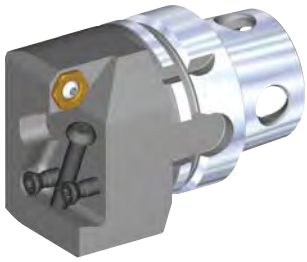
Right Hand

Modular Straight KM4X™ System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	**–**
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
left hand											
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	**–**
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25

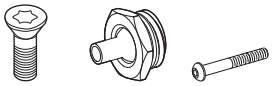
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).





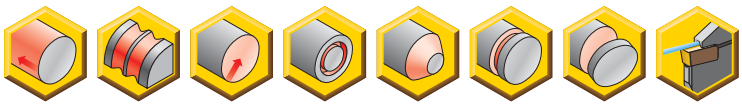
Right Hand

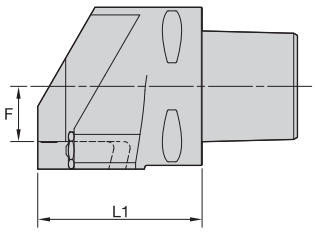
Modular End Mount KM4X™ System with Coolant



order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	cartridge size	blade screw	nozzle	clamp screw	kg	lbs
right hand												
5543555	**KM4X63KGMER65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
left hand												
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.



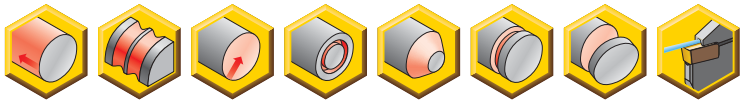


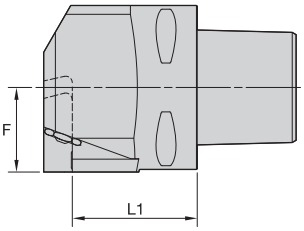
Right Hand

Modular Side PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000028	**PSC40KGMSR50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000029	**PSC40KGMSL50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

Modular End Mount PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000026	**PSC40KGMER50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000027	**PSC40KGMEL50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25

Top Notch™

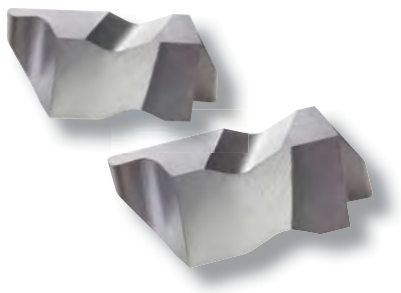
Grooving Tools and Beyond™ Inserts for Your Shallow Groove and Turn Operations

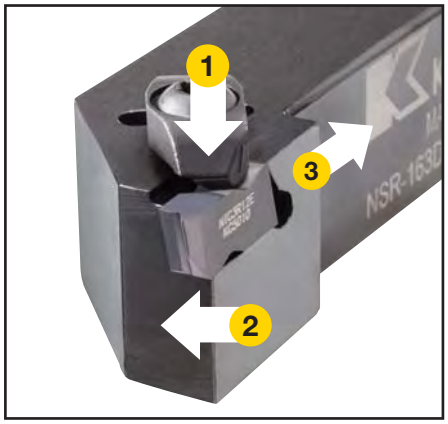
Primary Application

Top Notch Grooving is the proven solution for high productivity. The Top Notch system provides consistent tool performance, accurate indexing, and superior clamping to provide excellent surface finishing and superior tool life.

Features and Benefits

- The Beyond PVD coated grades are designed to cut a variety of workpiece materials.
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.





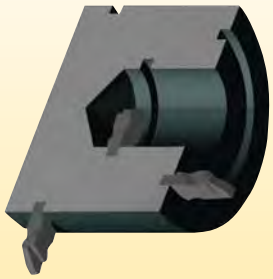
Our rigid clamping design prevents insert movement during high-feed rate applications. This benefit ensures excellent surface finish, improved productivity, and superior tool life and promotes perfect concentricity. The rugged bridge clamp generates locking forces in three directions to provide superior resistance to side thrust and tangential forces.

Step 1 • Select system based on the required groove depth

What you need to know

- Groove depth, width, and profile.
- Material to be machined.
- Application to be performed (face, O.D., or I.D. grooving).
- Toolholder requirements (e.g., KM™, square shank, right/left).

Top Notch™

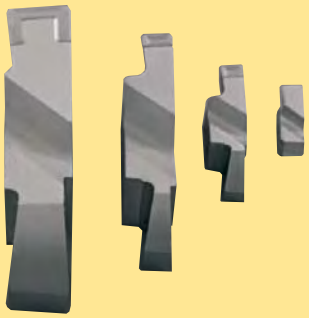


Grooving

For grooving depth ≤1.5x grooving width, review system capability chart and proceed to Step 2.

Top Notch Grooving for Internal, External, and Face Grooving Applications

system capabilities		minimum in (mm)	maximum in (mm)
O.D./I.D. grooving	width	0.31 (0,79)	.375 (9,53)
	depth	.050 (1,27)	.375 (9,53)
face grooving	width	.125 (3,18)	.375 (9,53)
	depth	.150 (3,81)	.250 (6,35)
internal grooving	diameter	.440 (11,2)	—
face grooving diameter	standard	.940 (23,9)	—
	deep	1.875 (47,6)	—
deep O.D./I/D. grooving	width	.062 (1,57)	.250 (6,35)
	depth	.125 (3,18)	.500 (12,70)
deep face grooving	width	.125 (3,18)	.250 (6,35)
	depth	.250 (6,35)	.500 (12,70)



Step 2 • Select toolholder based on the application

NOTE: Toolholders are available as conventional square shank versions as well as Quick-Change versions. The insert size must match the gage insert of your toolholder selection.

Step 3 • Select chipbreaker style and feed rate

Chipbreaker and Feed Rates • in/rev (mm/rev)

workpiece material and application	P	M	K	N	S	H
first choice	**NG-K** .003–.011 (0,08–0,28)	**NG-K** .0025–.008 (0,07–0,20)	**NG** .004–.012 (0,01–0,30)	**NGP** .004–.012 (0,01–0,30)	**NG-K** .0025–.008 (0,07–0,20)	**NG-ST** CBN tipped .002–.004 (0,05–0,10)
alternate choice	**NG** .004–.012 (0,10–0,30)	**NGP** .004–.009 (0,10–0,23)	**NG-K** .003–.011 (0,08–0,28)	**NG-K** .003–.012 (0,08–0,30)	**NGP** .004–.008 (0,10–0,20)	–

_K chipbreaker inserts	flat-top inserts	positive rake inserts

Step 4 • Select grade and speed

Recommendations for Grade

Starting speed chart shown under “Application Guide”

	workpiece material					
machining condition	P	M	K	N	S	H
high-performance for optimal conditions (clean cuts, good machine condition, higher speed capability)	**KCP10B** 400–1475 (120–450)	**KCU10** 400–850 (120–260)	**KCK20B** 500–1800 (150–550)	**KD1425** 500–5000 (150–1500)	**KCU10** 50–550 (15–170)	**KB5625** 150–760 (45–230)
general purpose (first choice for general machining)	**KCP25B** 350–1200 (110–365)	**KCU25** 400–800 (120–245)	**KCU10** 200–800 (60–245)	**KCU10** 400–3200 (120–975)	**KCU10** 50–450 (15–135)	**KB5625** 250–500 (80–150)
unfavorable conditions (roughing, poor machine condition, interrupted cuts, low speed, I.D. grooving)	**KCU25** 280–880 (85–270)	**KCU25** 300–700 (90–210)	**KCU25** 160–640 (50–195)	**K313** 120–2000 (40–610)	**KCU25** 25–350 (8–110)	**KB1630** 150–400 (45–120)

Step 5 • Select insert and holder from catalog page

NOTE: The insert size must match the gage insert size of your toolholder selection.

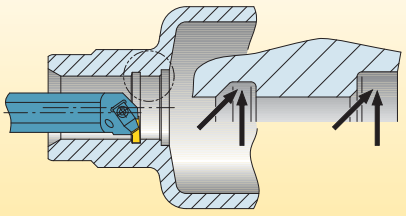
Example for Top Notch • Grooving

Material ..... low-alloyed steel
Groove depth ..... .079" (2mm)
Groove width ..... .118" (3mm)
Operation..... I.D. cut, limited speed capability, plunge groove and chamfer

Recommendation

Insert NG2M300RK
Grade KC5025
Insert width ..... .118" (3mm)
Insert size 2

Toolholder ..... A20QNNTOL2 (metric)
A12NEL2 (inch)
Gage insert N.2R



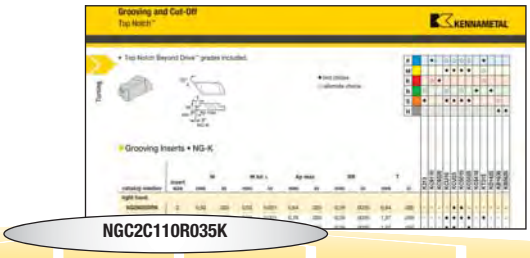
Speed: 400 SFM (120 m/min)
Feed: .006 in/rev (0,15 mm/rev)

Congratulations!

You have successfully maximized your productivity by selecting the best Top Notch insert geometry, grade, and cutting specifications for your application!

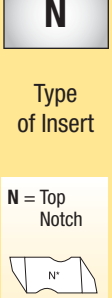
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



Inch

N	G	C	2	C	110	R	035	K	
Type of Insert	Insert Style	Additional Information	Insert Size	Size Identification	Groove Size**	Hand of Insert	Cutting Depth	Chipbreaker Design	Definition of Inserts
N = Top Notch		**D** = Deep grooving **P** = Positive **C** = Groove and chamfer		**M** = Metric insert groove width **C** = Circlip groove insert width is nominal circlip size ☐ = Blank indicates inch width insert		**L** = Left hand **R** = Right hand	Shown for groove and chamfer inserts in .0004" increments.	**E** = Hone only **K** = Standard chip control **S** = T Land and Hone **ST** = STD Tip (PcBN)	Groove size "J" or "L" for Poly-Vee inserts "I" indicates internal face grooving



B = Blank (for special forms)
F = Face grooving
G = Grooving
P = Back
R = Full radius
U = Undercutting (or relieving)
V = Poly-Vee

insert number	W1 (in)	W1 (mm)
1	.100	2,54
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73

Position pertains to groove width for F-, G-, and U-style inserts, radii for R-style grooving inserts, and circlip size for groove and chamfer inserts. Dimension in .001" or 0,01mm.

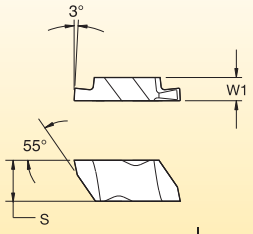
Inch example: 1/32" width groove or radius equals "031" catalog position number.

Metric example: 3,25mm width groove or radius equals "325" catalog position number.

Width Tolerance: ±.001" (±0,025mm) unless otherwise specified.

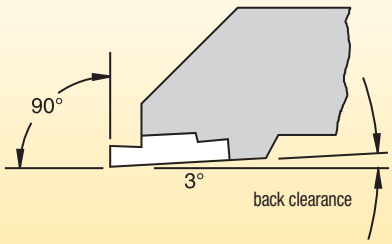
*Kennametal proprietary identification system.
**Omit position for Top Notch NB-style blanks.

Top Notch Threading and Grooving Insert Dimensions



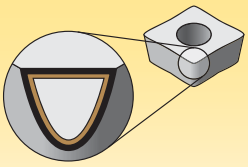
insert size	S mm	S inch	W1 mm	W1 inch
1	2,54	.100	2,54	.100
2	5,56	.219	3,81	.150
3	8,74	.344	4,95	.195
4	11,51	.453	6,48	.255
5	17,48	.688	9,65	.380
6	11,51	.453	9,73	.383
8	7,93	.312	11,13	.438

Top Notch Holder Design



NOTE: Holders are designed to locate insert inclined to 3° to provide back clearance down open side.

Kennametal and Top Notch tooling technology combine to bring you the very best threading and grooving system available in the world today.

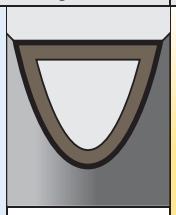
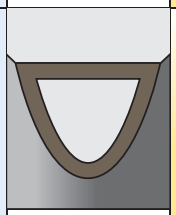
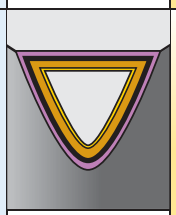
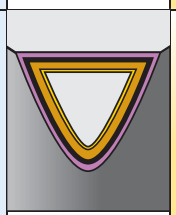
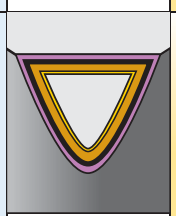


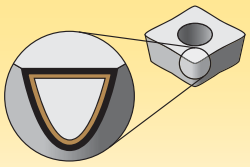
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCU10  —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability.		P	P	P					
			M	M	M					
			K	K	K					
			N	N	N					
			S	S	S					
				H						
			beyond							
KCU25  —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates.				P	P	P			
					M	M	M			
					K	K	K			
					N	N	N			
					S	S	S			
			beyond							
KCP10B  —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3-TiOCN coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.		P	P	P					
			K	K	K	K	K	K		
			beyond DRIVE							
KCP25B  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.		P	P	P					
			K	K	K	K	K	K		
			beyond DRIVE							
KCK20B  —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3-TiOCN coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed.		P	P						
			K		K	K	K	K		
			beyond DRIVE							



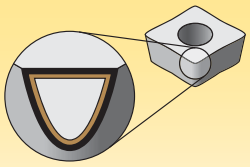
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.										
		M									
		K									
		N									
		S									
KC5010	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.	P									
		M									
		K									
		N									
		S									
		H									
KC5025	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.	P									
		M									
		K									
		N									
		S									



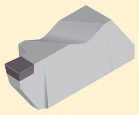
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KT315	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		K									
KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.	K									
		S									
		H									
KB5625	**Composition:** A medium content PcBN with a PVD-TiN/AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC). Use on bearing steels, hot and cold work steels, die steels, case hardened steels, carburized and nitrided irons, and some hard coatings.	H									
KD1425	**Composition:** A multimodal PCD grade with a range of grain sizes brazed onto a carbide substrate. **Application:** Engineered for extreme abrasion resistance, combined with good edge strength for demanding applications. An ideal choice for high-silicon aluminum alloys, bi-metallic (AL/GCI) materials, MMC, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.	N									

insert style	application	rake angle	page(s)
NG	• General-purpose grooving. • O-ring grooving. • Circlip grooving.	neutral	C170
NG-K	• Chip control geometry. • General-purpose grooving. • O-ring grooving. • Circlip grooving. • Light turning.	10° positive	C162
NG-ST 	• Hard turning.	neutral	C170
NGC-K	• Combined groove and chamfered edge break in one positive plunge with chip control. • Designed for DIN 471/472 standard circlip grooves.	10° positive	C168
NGD	• Deep grooving.	neutral	C171
NGD-K	• Chip control geometry. • Deep grooving. • Light turning.	10° positive	C165
NGP	• General-purpose grooving. • O-ring grooving. • Circlip grooving.	5° positive	C168
NF	• Face grooving. • Additional side clearance.	neutral	C175
NF-K	• Face grooving with chip control. • Additional side clearance.	10° positive	C173
NFD-K	• Deep face grooving with chip control. • Additional side clearance.	10° positive	C174

insert style	application	rake angle	page(s)
NFD-KI	• Internal deep face grooving with chip control. • For use in boring bars for internal face grooves.	10° positive	C174
NP-K NPD-K	• Turning. • Back turning positive. • Profiling with chip control.	10° positive	C167
NR	• Full radius grooving. • Turning and profiling.	neutral	C172
NR-K	• Chip control geometry. • Full radius grooving, turning, and profiling.	10° positive	C166
NRD	• Deep grooving. • Full radius end-form.	neutral	C173
NRP	• Full radius grooving. • Light-turning profiling.	5° positive	C169
NU	• Undercutting.	neutral	C175
NV	• Poly-Vee grooving.	neutral	C176
NB/NBD	• Blanks. • Blanks for deep grooving. • Available in uncoated grades only.	—	C176–C177

NOVO KNOWS CAD/CAM

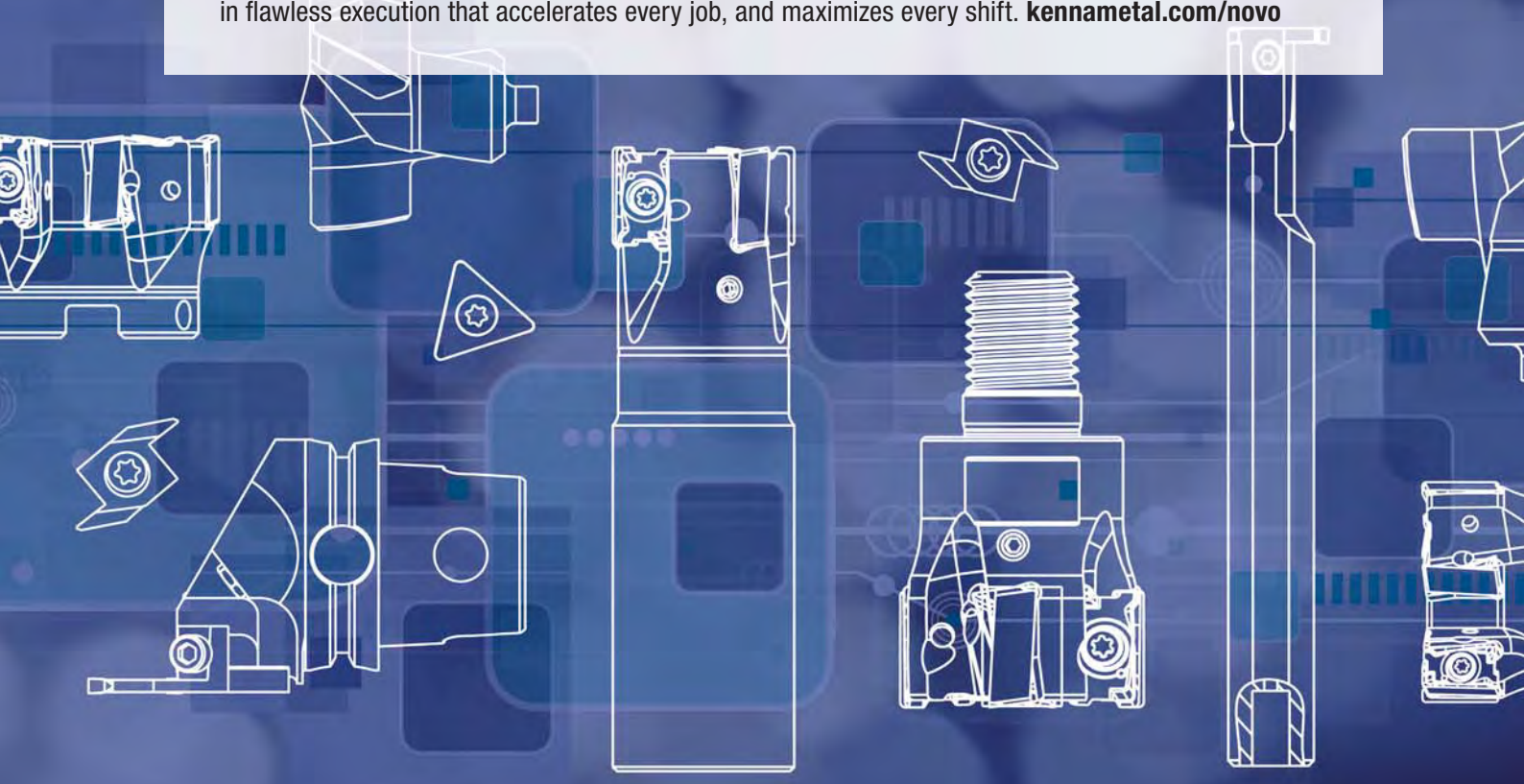
With the addition of NOVO™ applications to your team, your CAD/CAM capabilities become much more accurate, streamlined, and productive.

Before NOVO: The programmer would be in their CAD/CAM software, programming a part. Using the tedious method of finding a tool in a catalog, and then manually inputting the tooling information from the catalog into the CAD/CAM software.

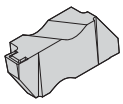
The concern is that assumptions are made, and only partial tooling information is entered.

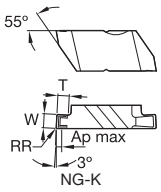
With NOVO: The powerful digital intelligence of NOVO applications not only help the programmer find the right tool for the metalcutting job, but also automatically integrates all the tooling data into a complete CAD/CAM solution. The integration of all the tooling data increases the viability of the part being programmed, and is delivered quickly — saving you time.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**



- Top Notch Beyond Drive™ grades included.





● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NG2M050RK	2	0,50	.020	0,03	.001	0,64	.025	0,09	.0035	0,64	.025	●	●	–	●	–	–	●	–	–	–	–	–
NG2031RK	2	0,79	.031	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	●	–	–	–
NG2M080RK	2	0,80	.032	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100RK	2	1,00	.039	0,03	.001	0,76	.030	0,09	.0035	1,28	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2047RK	2	1,19	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	●	–	–	–
NG2M120RK	2	1,20	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140RK	2	1,40	.055	0,03	.001	0,76	.030	0,09	.0035	1,28	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M150RK	2	1,50	.059	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2062RK	2	1,56	.062	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M170RK	2	1,70	.067	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M175RK	2	1,75	.069	0,03	.001	1,09	.043	0,19	.0075	2,81	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG2M195RK	2	1,95	.077	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M200RK	2	2,00	.079	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M220RK	2	2,20	.087	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M225RK	2	2,25	.088	0,03	.001	1,09	.043	0,19	.0075	2,81	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2094RK	2	2,39	.094	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M250RK	2	2,50	.098	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275RK	2	2,75	.108	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2M300RK	2	3,00	.118	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2125RK	2	3,18	.125	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M320RK	2	3,20	.126	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	–	–	●	–	–	–	–	–	–	–	–
NG2M325RK	2	3,25	.128	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG3M100RK	3	1,00	.039	0,03	.001	0,76	.030	0,20	.0080	1,91	.075	–	●	–	●	–	–	–	●	–	–	–	–
NG3047RK	3	1,19	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120RK	3	1,20	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150RK	3	1,50	.059	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3062RK	3	1,58	.062	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	●	–	–	–
NG3M175RK	3	1,75	.069	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3072RK	3	1,83	.072	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3078RK	3	1,98	.078	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200RK	3	2,00	.079	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	●	–	–	–
NG3M220RK	3	2,20	.087	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225RK	3	2,24	.088	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3094RK	3	2,39	.094	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	–	–	–	●	●	●	–	–	–
NG3M250RK	3	2,50	.098	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275RK	3	2,75	.108	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M300RK	3	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3125RK	3	3,18	.125	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	●	–	–	–
NG3M320RK	3	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325RK	3	3,25	.128	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350RK	3	3,50	.138	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3156RK	3	3,96	.156	0,03	.001	2,92	.115	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400RK	3	4,00	.157	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–

(continued)

(Groove and Turn • Chip Control — continued)

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M425RK	3	4,25	.167	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M450RK	3	4,50	.177	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG3189RK	3	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300RK	4	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG4125RK	4	3,18	.125	0,03	.001	1,06	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	–	–	–	–	–
NG4M350RK	4	3,50	.138	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400RK	4	4,00	.158	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	●	●	–	–	●	●	–	–	–	–
NG4M450RK	4	4,50	.177	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4189RK	4	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500RK	4	5,00	.197	0,03	.001	2,92	.115	0,32	.0125	6,35	.250	●	●	●	●	–	–	–	–	–	–	–	–
NG4M550RK	4	5,50	.217	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600RK	4	6,00	.236	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4250RK	4	6,35	.250	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	●	●	–	–	●	●	–	–	–	–
left hand																							
NG2M050LK	2	0,50	.020	0,03	.001	0,64	.025	0,09	.0035	0,64	.025	●	●	–	●	–	–	●	–	–	–	–	–
NG2031LK	2	0,79	.031	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M080LK	2	0,80	.032	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100LK	2	1,00	.039	0,03	.001	0,76	.030	0,08	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2047LK	2	1,19	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M120LK	2	1,20	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140LK	2	1,40	.055	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M150LK	2	1,50	.059	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2062LK	2	1,58	.062	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M170LK	2	1,70	.067	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	●	●	–	–	●	●	–	–	–	–
NG2M175LK	2	1,75	.069	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M195LK	2	1,95	.077	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	●	●	–	–	●	–	–	–	–	–
NG2M200LK	2	2,00	.079	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M220LK	2	2,20	.087	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG2M225LK	2	2,25	.088	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2094LK	2	2,39	.094	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M250LK	2	2,50	.098	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275LK	2	2,75	.108	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	–	●	–	–	●	–	–	–	–	–
NG2M300LK	2	3,00	.118	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2125LK	2	3,18	.125	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M325LK	2	3,25	.128	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG3M100LK	3	1,00	.039	0,03	.001	0,76	.030	0,20	.0080	1,91	.075	–	●	–	●	–	–	–	●	–	–	–	–
NG3047LK	3	1,19	.047	0,03	.001	0,76	.030	0,19	.0075	1,90	.075	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120LK	3	1,20	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150LK	3	1,50	.059	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3062LK	3	1,58	.062	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	–	–	–	–	●	●	–	–	–	–
NG3M175LK	3	1,75	.069	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3072LK	3	1,83	.072	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3078LK	3	1,98	.078	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200LK	3	2,00	.079	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–

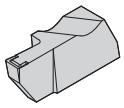
(continued)

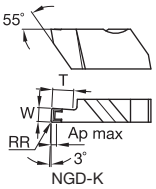
(Groove and Turn • Chip Control — continued)

● first choice
○ alternate choice

P		●	●	●	●	○		○	○	●														
M		●	●				○	●	○															
K		○	○	○	○	●	○	○	○	○	○													
N		●	○				○	●	○															●
S		●	●				●	○	○		○													
H		○						○			●	●												

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M220LK	3	2,20	.087	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225LK	3	2,25	.089	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	–	–	–	–	–	–
NG3094LK	3	2,39	.094	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	●	–	–	–
NG3M250LK	3	2,50	.098	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275LK	3	2,75	.108	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M300LK	3	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3125LK	3	3,18	.125	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M320LK	3	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325LK	3	3,25	.128	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350LK	3	3,50	.138	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3156LK	3	3,96	.156	0,03	.001	2,92	.115	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400LK	3	4,00	.158	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M425LK	3	4,25	.167	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	–	–	–	–	–
NG3M450LK	3	4,50	.177	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG3189LK	3	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300LK	4	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG4125LK	4	3,18	.125	0,03	.001	1,06	.400	0,19	.0075	3,81	.150	●	●	●	●	–	–	–	–	–	–	–	–
NG4M320LK	4	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	●	–	–	–	–	–	–	–	–
NG4M350LK	4	3,50	.138	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400LK	4	4,00	.158	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	–	–	–	–	–	–
NG4M450LK	4	4,50	.177	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	●	–	–	–	–
NG4189LK	4	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500LK	4	5,00	.197	0,03	.001	2,92	.115	0,32	.0125	6,35	.250	●	●	●	●	–	–	●	–	–	–	–	–
NG4M550LK	4	5,50	.217	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600LK	4	6,00	.236	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4250LK	4	6,35	.250	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–





● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Chip Control

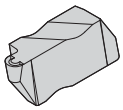
catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGD2M150RK	2	1,50	.059	0,03	0.001	1,09	.043	0,19	.0075	4,06	.160	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M200RK	2	2,00	.079	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250RK	2	2,50	.098	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	–	●	–	–	–	–
NGD3062RK	3	1,58	.062	0,03	0.001	1,02	.040	0,19	.0075	3,18	.125	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M200RK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	4,06	.160	●	●	–	–	–	–	●	●	–	–	–	–
NGD3094RK	3	2,39	.094	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250RK	3	2,50	.098	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	●	●	–	–	–	–
NGD3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M400RK	3	4,00	.157	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3189RK	3	4,80	.189	0,03	0.001	2,92	.115	0,58	.0225	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125RK	4	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4189RK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M550RK	4	5,50	.217	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250RK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	●	●	–	–	–	–	●	●	–	–	–	–
left hand																							
NGD2M150LK	2	1,50	.059	0,03	0.001	1,09	.043	0,19	.0075	4,06	.160	●	●	–	–	–	–	–	●	–	–	–	–
NGD2M200LK	2	2,00	.079	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250LK	2	2,50	.098	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD3062LK	3	1,57	.062	0,03	0.001	1,02	.040	0,19	.0075	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NGD3M200LK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	4,06	.160	–	●	–	–	–	–	–	●	–	–	–	–
NGD3094LK	3	2,39	.094	0,03	0.001	1,02	.040	0,19	.0075	6,34	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250LK	3	2,50	.098	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M350LK	3	3,50	.138	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M400LK	3	4,00	.157	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	●	●	–	–	–	–	–	●	–	–	–	–
NGD3189LK	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125LK	4	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M400LK	4	4,00	.157	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	–	–	–	–	–
NGD4189LK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M500LK	4	5,00	.197	0,03	0.001	2,92	.115	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250LK	4	6,35	.250	0,03	0.001	3,80	.150	0,57	.0225	12,70	.500	●	●	–	–	–	–	–	●	–	–	–	–

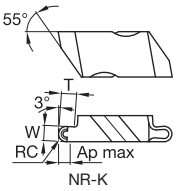
NOTE: Inserts have one cutting edge. Right-hand insert shown; left-hand insert is mirror image.
The following inserts are double ended: NGD3062RK, NGD4125RK, NGD3062LK, and NGD4125LK.

- Full radius inserts with chip control.

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	





Groove and Turn • Full Radius • Chip Control

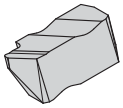
catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in
right hand									
NR3031RK	3	1,57	.062	1,97	.078	0,79	.0310	2,39	.094
NR3047RK	3	2,39	.094	1,91	.075	1,19	.0470	3,81	.150
NR3062RK	3	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR3078RK	3	3,97	.156	2,54	.100	1,98	.0780	3,81	.150
NR4062RK	4	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR4094RK	4	4,79	.188	3,81	.150	2,39	.0940	6,35	.250
NR4125RK	4	6,35	.250	3,81	.150	3,18	.1250	6,35	.250
left hand									
NR3031LK	3	1,58	.062	1,98	.078	0,79	.0310	2,39	.094
NR3047LK	3	2,39	.094	1,91	.075	1,19	.0470	3,81	.150
NR3062LK	3	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR3078LK	3	3,96	.156	2,54	.100	1,98	.0780	3,81	.150
NR4062LK	4	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR4094LK	4	4,79	.188	3,81	.150	2,39	.0940	6,35	.250
NR4125LK	4	6,36	.250	3,81	.150	3,18	.1250	6,35	.250

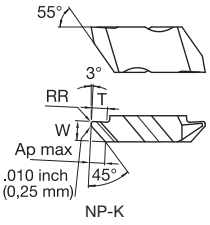
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand													
NR3031RK		●	●	–	–	–	–	●	●	–	–	–	–
NR3047RK		●	●	–	–	–	–	●	●	–	–	–	–
NR3062RK		●	●	–	–	–	–	●	●	–	–	–	–
NR3078RK		●	●	–	–	–	–	●	–	–	–	–	–
NR4062RK		●	●	–	–	–	–	●	–	–	–	–	–
NR4094RK		●	●	–	–	–	–	●	–	–	–	–	–
NR4125RK		●	●	–	–	–	–	●	●	–	–	–	–
left hand													
NR3031LK		●	●	–	–	–	–	●	●	–	–	–	–
NR3047LK		●	●	–	–	–	–	●	●	–	–	–	–
NR3062LK		●	●	–	–	–	–	●	●	–	–	–	–
NR3078LK		–	●	–	–	–	–	●	●	–	–	–	–
NR4062LK		●	●	–	–	–	–	●	–	–	–	–	–
NR4094LK		●	●	–	–	–	–	●	●	–	–	–	–
NR4125LK		●	●	–	–	–	–	●	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.

P		●	●	●	●	○		○	○	●									
M		●	●				○	●	○										
K		○	○	○	○	●	○	○	○	○	○								
N		●	○				○	●	○										●
S		●	●				●	○	○		○								
H		○						○			●	●							

● first choice
○ alternate choice





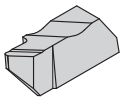
NP-K

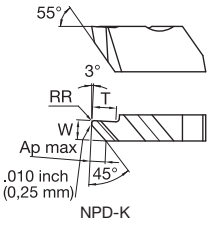
Groove and Profile • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NP2002RK	2	3,82	.150	0,03	0.001	—	—	0,25	.0100	2,81	.110	●	●	–	–	–	–	●	●	–	–	–	–
NP2012RK	2	3,82	.150	0,03	0.001	—	—	0,25	.0100	2,81	.110	–	●	–	–	–	–	–	–	–	–	–	–
NP3002RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	5,08	.200	●	●	–	–	–	–	●	–	–	–	–	–
NP3012RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	5,08	.200	–	●	–	–	–	–	–	●	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.
Tolerance on W ± .005" (± 0,13mm)

• Profiling deep positive inserts.



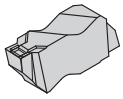


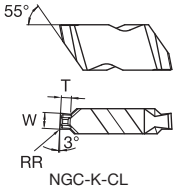
NPD-K

Groove and Profile • Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NPD2002RK	2	3,68	.145	0,13	0.005	—	—	0,09	.0035	5,08	.200	–	●	–	–	–	–	●	–	–	–	–	–
NPD3002RK	3	4,83	.190	0,13	0.005	—	—	0,09	.0035	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NPD3012RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	6,35	.250	●	●	–	–	–	–	●	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.
Tolerance on W ± .005" (± 0,13mm)





NGC-K-CL

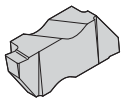
● first choice
○ alternate choice

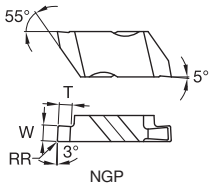
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Chamfer • Chip Control

catalog number	seat size	circlip size mm	circlip size in	W mm	W in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NGC2C130R055K	2	1,30	.051	1,39	.055	0,08	.0031	0,6	.022	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215R150K	2	2,15	.085	2,24	.088	0,08	.0031	1,5	.059	–	●	–	–	–	–	–	–	–	–	–	–
left hand																					
NGC2C130L055K	2	1,30	.051	1,39	.055	0,08	.0031	0,6	.022	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C185L125K	2	1,85	.073	1,94	.076	0,08	.0031	1,3	.049	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215L150K	2	2,15	.085	2,24	.088	0,08	.0031	1,5	.059	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Groove and chamfer inserts for circlip grooves to DIN 471/472 specification.
Right-hand insert shown; left-hand insert is mirror image.





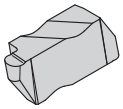
NGP

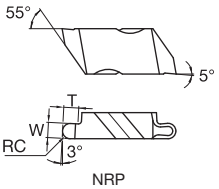
Groove and Turn • Positive

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGP2031R	2	0,79	.031	0,03	0.001	—	—	0,09	.0035	1,27	.050	●	–	–	–	–	–	●	–	–	–	–	–
NGP2062R	2	1,58	.062	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	●	–	–	–	–	–
NGP2125R	2	3,18	.125	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088R	3	2,24	.088	0,03	0.001	—	—	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	●
NGP3125R	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	●
NGP3156R	3	3,96	.156	0,03	0.001	—	—	0,19	.0075	3,81	.150	●	–	–	–	–	–	–	–	–	–	–	–
NGP4189R	4	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	–	–	–	–	–	–	–
NGP4250R	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	6,35	.250	–	–	–	–	–	–	●	–	–	–	–	–
left hand																							
NGP2031L	2	0,79	.031	0,03	0.001	—	—	0,09	.0035	1,27	.050	●	–	–	–	–	–	–	–	–	–	–	–
NGP2062L	2	1,57	.062	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP2125L	2	3,18	.125	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088L	3	2,24	.088	0,03	0.001	—	—	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	–
NGP3125L	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	–	●	–	–	–	–	–
NGP4250L	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: All KD and KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.

- Full radius positive rake inserts.





NRP

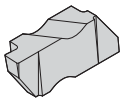
● first choice
○ alternate choice

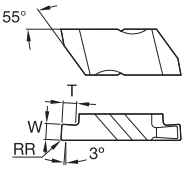
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Full Radius • Positive

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NRP3031R	3	1,58	.062	—	—	0,79	.0310	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047R	3	2,39	.094	—	—	1,19	.0470	3,81	.150	●	–	–	–	–	●	●	–	–	–	–	–
NRP3062R	3	3,18	.125	—	—	1,59	.0625	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
NRP3094R	3	4,78	.188	—	—	2,39	.0940	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
left hand																					
NRP3031L	3	1,58	.062	—	—	0,79	.0310	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047L	3	2,39	.094	—	—	1,19	.0470	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
NRP3062L	3	3,18	.125	—	—	1,59	.0625	3,81	.150	–	–	–	–	–	–	●	–	–	–	–	–
NRP3094L	3	4,78	.188	—	—	2,39	.0940	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.





NG

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NG2031R	2	0,79	.031	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	●	–	–	–	–
NG2041R	2	1,04	.041	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	●	–	–	–	–
NG2047R	2	1,19	.047	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	–	●	–	–	–	–	–
NG2058R	2	1,47	.058	0,03	.001	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	●	–	–	–	–
NG2062R	2	1,58	.062	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	●	–	–	–	–
NG2094R	2	2,39	.094	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	–	–	–	–	–
NG2125R	2	3,18	.125	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	–	–	●	–	–	–	–	–
NG3047R	3	1,19	.047	0,03	.001	–	–	0,19	.0075	1,91	.075	●	●	–	–	●	●	●	●	–	–	–	–
NG3062R	3	1,58	.062	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	●	●	●	●	–	–	–	–
NG3072R	3	1,83	.072	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	●	–	●	–	–	–	–	–
NG3078R	3	1,98	.078	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	●	–	●	–	–	–	–	–
NG3088R	3	2,24	.088	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	●	–	●	–	–	–	–	–
NG3094R	3	2,39	.094	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3097R	3	2,46	.097	0,03	.001	–	–	0,32	.0125	3,81	.150	●	●	–	–	●	–	●	–	–	–	–	–
NG3105R	3	2,67	.105	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG3110R	3	2,79	.110	0,03	.001	–	–	0,32	.0125	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3122R	3	3,10	.122	0,03	.001	–	–	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3125R	3	3,18	.125	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3142R	3	3,61	.142	0,03	.001	–	–	0,32	.0125	3,81	.150	–	●	–	–	–	–	●	–	–	–	–	–
NG3156R	3	3,96	.156	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG3178R	3	4,52	.178	0,03	.001	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NG3185R	3	4,70	.185	0,03	.001	–	–	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3189R	3	4,80	.189	0,03	.001	–	–	0,57	.0225	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG4125R	4	3,18	.125	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	–	–	–	–	–	–
NG4189R	4	4,80	.189	0,03	.001	–	–	0,57	.0225	6,35	.250	●	●	–	–	●	●	●	–	–	–	–	–
NG4213R	4	5,41	.213	0,03	.001	–	–	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NG4250R	4	6,35	.250	0,03	.001	–	–	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	●	–	–	–	–
NG5312R	5	7,93	.312	0,03	.001	–	–	0,83	.0325	9,52	.375	–	●	–	–	–	–	–	–	–	–	–	–
NG6375R	6	9,53	.375	0,03	.001	–	–	0,83	.0325	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NG1031L	1	0,79	.031	0,08	.003	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	–	–	–	–	–
NG1047L	1	1,19	.047	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG1062L	1	1,58	.062	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG1094L	1	2,39	.094	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG2031L	2	0,79	.031	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	–	–	–	–	–
NG2041L	2	1,04	.041	0,03	.001	–	–	0,09	.0035	1,27	.050	–	●	–	–	●	–	●	●	–	–	–	–
NG2047L	2	1,19	.047	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	–	–	●	–	–	–	–	–
NG2058L	2	1,47	.058	0,03	.001	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	–	–	–	–	–
NG2062L	2	1,58	.062	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	●	–	–	–	–
NG2094L	2	2,39	.094	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	–	–	–	–	–
NG2125L	2	3,18	.125	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	–	●	–	–	–	–	–
NG3047L	3	1,19	.047	0,03	.001	–	–	0,19	.0075	1,91	.075	●	●	–	–	●	●	●	–	–	–	–	–
NG3062L	3	1,57	.062	0,03	.001	–	–	0,19	.0075	2,38	.094	●	●	–	–	●	●	●	●	–	–	–	–
NG3072L	3	1,83	.072	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NG3078L	3	1,98	.078	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	–
NG3088L	3	2,24	.088	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	–	–	●	–	–	–	–	–
NG3094L	3	2,39	.094	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–

(continued)

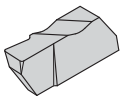
(Groove and Turn • Flat Top — continued)

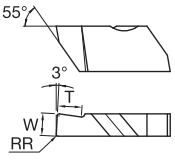
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3097L	3	2,46	.097	0,03	.001	—	—	0,32	.0125	3,81	.150	●	●	–	–	–	–	–	–	–	–	–	–
NG3105L	3	2,67	.105	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	–	–	●	–	–	–	–	–
NG3110L	3	2,79	.110	0,03	.001	—	—	0,32	.0125	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3122L	3	3,10	.122	0,03	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3125L	3	3,18	.125	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3142L	3	3,61	.142	0,03	.001	—	—	0,32	.0125	3,81	.150	●	●	–	–	–	–	–	–	–	–	–	–
NG3156L	3	3,96	.156	0,03	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3178L	3	4,52	.178	—	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3185L	3	4,70	.185	0,03	.001	—	—	0,57	.0225	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NG3189L	3	4,80	.189	0,03	.001	—	—	0,57	.0225	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG4125L	4	3,18	.125	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	–	●	–	–	–	–	–	–
NG4189L	4	4,80	.189	0,03	.001	—	—	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	–	–	–	–	–
NG4189LEST	4	4,80	.189	0,03	.001	—	—	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–
NG4250L	4	6,35	.250	0,03	.001	—	—	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	●	–	–	–	–

NOTE: All KD and KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.



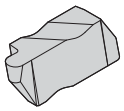


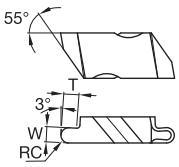
NGD

Groove and Turn • Deep Grooving • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGD3189R	3	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	●	–	–	–	–	–	–
NGD4250R	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	12,70	.500	●	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NGD3189L	3	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	●	●	–	–	–	–	–
NGD4250L	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	12,70	.500	●	–	–	–	–	●	●	–	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.





NR

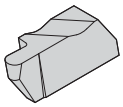
● first choice
○ alternate choice

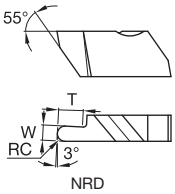
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Full Radius • Flat Top

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in
right hand									
NR2M050R	2	1,00	.039	—	—	0,50	.0197	1,27	.050
NR2M075R	2	1,50	.059	—	—	0,75	.0295	2,79	.110
NR2031R	2	1,58	.062	—	—	0,79	.0310	2,79	.110
NR2M100R	2	2,00	.079	—	—	1,00	.0394	2,79	.110
NR2047R	2	2,39	.094	—	—	1,19	.0470	2,79	.110
NR2M125R	2	2,50	.098	—	—	1,25	.0492	2,79	.110
NR2M150R	2	3,00	.118	—	—	1,50	.0591	2,79	.110
NR2062R	2	3,18	.125	—	—	1,59	.0625	2,79	.110
NR2M175R	2	3,50	.138	—	—	1,75	.0689	2,79	.110
NR3031R	3	1,58	.062	—	—	0,79	.0310	2,39	.094
NR3M100R	3	2,00	.079	—	—	1,00	.0394	2,39	.094
NR3047R	3	2,39	.094	—	—	1,19	.0470	3,81	.150
NR3M150R	3	3,00	.118	—	—	1,50	.0591	3,81	.150
NR3062R	3	3,18	.125	—	—	1,59	.0625	3,81	.150
NR3078R	3	3,96	.156	—	—	1,98	.0780	3,81	.150
NR3M200R	3	4,00	.157	—	—	2,00	.0787	3,81	.150
NR3094R	3	4,78	.188	—	—	2,39	.0940	3,81	.150
NR4094R	4	4,78	.188	—	—	2,39	.0940	6,35	.250
NR4125R	4	6,35	.250	—	—	3,18	.1250	6,35	.250
left hand									
NR2M050L	2	1,00	.039	—	—	0,50	.0197	1,27	.050
NR2031L	2	1,58	.062	—	—	0,79	.0310	2,79	.110
NR2M100L	2	2,00	.079	—	—	1,00	.0394	2,79	.110
NR2047L	2	2,39	.094	—	—	1,19	.0470	2,79	.110
NR2M150L	2	3,00	.118	—	—	1,50	.0591	2,79	.110
NR2062L	2	3,18	.125	—	—	1,59	.0625	2,79	.110
NR3031L	3	1,58	.062	—	—	0,79	.0310	2,39	.094
NR3M100L	3	2,00	.079	—	—	1,00	.0394	2,39	.094
NR3047L	3	2,39	.094	—	—	1,19	.0470	3,81	.150
NR3M150L	3	3,00	.118	—	—	1,50	.0591	3,81	.150
NR3062L	3	3,18	.125	—	—	1,59	.0625	3,81	.150
NR3M200L	3	4,00	.157	—	—	2,00	.0787	3,81	.150
NR3094L	3	4,78	.188	—	—	2,39	.0940	3,81	.150
NR4125L	4	6,35	.250	—	—	3,18	.1250	6,35	.250

NOTE: Right-hand insert shown; left-hand insert is mirror image.





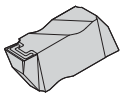
● first choice
○ alternate choice

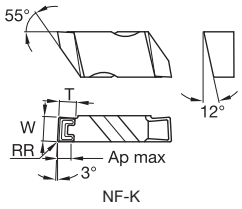
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Full Radius • Flat Top

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NRD3031R	3	1,58	.062	—	—	0,79	.0310	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062R	3	3,17	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062R	4	3,18	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	–	–	–	–	–
NRD4094R	4	4,78	.188	—	—	2,39	.0940	12,70	.500	●	–	–	–	–	–	●	–	–	–	–	–
NRD4125R	4	6,35	.250	—	—	3,18	.1250	12,70	.500	–	●	–	–	–	–	●	–	–	–	–	–
left hand																					
NRD3031L	3	1,58	.062	—	—	0,79	.0310	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062L	3	3,17	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062L	4	3,18	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4094L	4	4,78	.188	—	—	2,39	.0940	12,70	.500	●	●	–	–	–	–	●	–	–	–	–	–
NRD4125L	4	6,35	.250	—	—	3,18	.1250	12,70	.500	●	●	–	–	–	–	●	●	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.

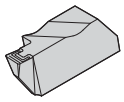


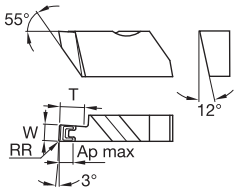


Face Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NF3M200RK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	1,78	.070	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NF3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NF3156RK	3	3,96	.156	0,03	0.001	2,92	.115	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NF3M200LK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	1,78	.070	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NF3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NF3156LK	3	3,96	.156	0,03	0.001	2,92	.115	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.





NFD-K

● first choice
○ alternate choice

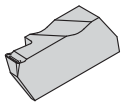
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

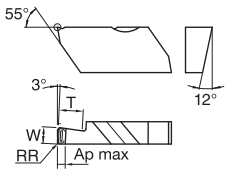
Face Grooving • Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NFD3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189RK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	–	–	–	–	–
NFD4250RK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NFD3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189LK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	●	–	–	–	–
NFD4250LK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.

• Face grooving deep grooving inserts.



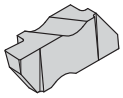


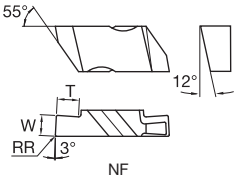
NFD-KI

Face Grooving • Internal Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NFD3125RKI	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD3189RKI	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NFD3125LKI	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NFD3189LKI	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Inserts have one cutting edge.
NFD-KI inserts are compatible with NS-style boring bars only.
Right-hand insert shown; left-hand insert is mirror image.





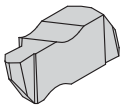
● first choice
○ alternate choice

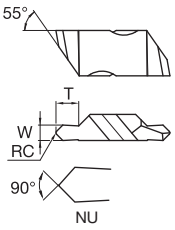
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Face Grooving • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NF3125R	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	●	–	–	–	–	–	–
NF3188R	3	4,78	.188	0,03	0.001	—	—	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NF3125L	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	●	–	–	–	–	–	–
NF3188L	3	4,78	.188	0,03	0.001	—	—	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.



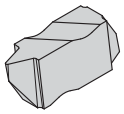


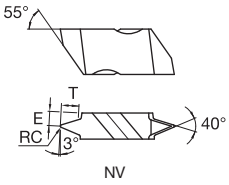
Groove and Turn • Flat Top • 90°

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NU3094R	3	2,39	.094	—	—	0,51	.0200	3,18	.125	–	–	–	–	–	–	–	●	–	–	–	–
NU3125R	3	3,18	.125	—	—	1,19	.0470	4,78	.188	–	●	–	–	–	–	–	–	–	–	–	–
left hand																					
NU3094L	3	2,39	.094	—	—	0,51	.0200	3,18	.125	–	●	–	–	–	–	–	●	–	–	–	–
NU3125L	3	3,18	.125	—	—	1,19	.0470	4,78	.188	–	–	–	–	–	–	–	●	–	–	–	–
NU3156L	3	3,96	.156	—	—	1,19	.0470	4,78	.188	–	–	–	–	–	–	–	●	–	–	–	–

NOTE: Tolerance on W ± .005" (± 0,13mm).
Right-hand insert shown; left-hand insert is mirror image.
NU inserts compatible with NR-style inserts.

- Poly-Vee grooving inserts.





NV

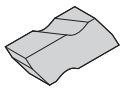
● first choice
○ alternate choice

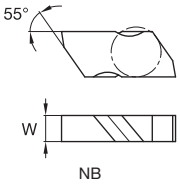
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Flat Top • Poly-Vee

catalog number	insert size	E mm	E in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																			
NV3RJ	3	3,18	.125	0,32	.0125	2,21	.087	–	●	–	–	–	–	–	–	–	–	–	–
NV4RL	4	3,00	.118	0,32	.0125	5,11	.201	–	●	–	–	–	–	–	–	–	–	–	–
left hand																			
NV4LL	4	3,00	.118	0,32	.0125	5,11	.201	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.



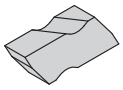


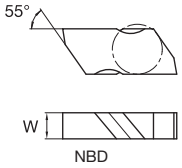
NB

Groove and Turn • Blank

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NB2R	2	3,84	.151	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3R	3	4,95	.195	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4R	4	6,48	.255	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NB2L	2	3,84	.151	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3L	3	4,95	.195	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4L	4	6,48	.255	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–

NOTE: NB and NBD blanks are designed to allow modification of the W-dimension and end form. W-dimension is provided to indicate maximum possible width.
Available only in uncoated grades.
Right-hand insert shown; left-hand insert is mirror image.





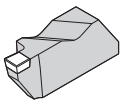
● first choice
○ alternate choice

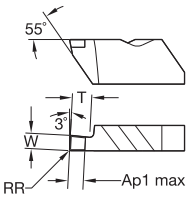
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Blank

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NBD2R	2	3,81	.150	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NBD3R	3	4,95	.195	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NBD3L	3	4,95	.195	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOTE: NB and NBD blanks are designed to allow modification of the W-dimension and end form.
W-dimension is provided to indicate maximum possible width. Available only in uncoated grades.
Right-hand insert shown; left-hand insert is mirror image.





NG-ST

Groove and Turn • Flat Top • PcBN

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NG3062REST	3	1,58	.062	–	–	0,19	.0075	2,39	.094	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200RS02020ST	3	2,00	.079	2,00	.0790	0,20	.0079	2,39	.094	–	–	–	–	–	–	–	–	–	●	●	–
NG3094REST	3	2,39	.094	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3M300RS02020ST	3	3,00	.118	3,00	.1181	0,20	.0080	3,81	.150	–	–	–	–	–	–	–	–	–	●	●	–
NG3125REST	3	3,18	.125	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3125RS0820ST	3	3,18	.125	3,00	.1181	0,25	.0100	3,81	.150	–	–	–	–	–	–	–	–	–	●	●	–
NG3M400RS02020ST	3	4,00	.157	3,00	.1181	0,20	.0080	3,81	.150	–	–	–	–	–	–	–	–	–	–	●	–
NG3189REST	3	4,80	.189	–	–	0,57	.0225	3,81	.150	–	–	–	–	–	–	–	–	–	–	–	●
NG4189REST	4	4,80	.189	–	–	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–
left hand																					
NG3062LEST	3	1,58	.062	–	–	0,19	.0075	2,39	.094	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200LS02020ST	3	2,00	.079	2,00	.0790	0,20	.0080	2,39	.094	–	–	–	–	–	–	–	–	–	–	●	–
NG3094LEST	3	2,39	.094	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3125LEST	3	3,18	.125	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	–
NG3125LS0820ST	3	3,18	.125	3,00	.1181	0,25	.0100	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	–
NG4189LEST	4	4,80	.189	–	–	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–

NOTE: All KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.

How Do Catalog Numbers Work?

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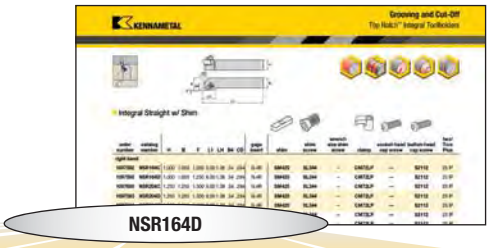
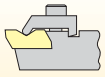
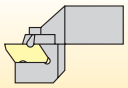


NSR164D

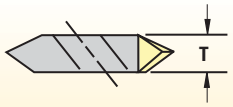
N	S	R		16	4	D
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length



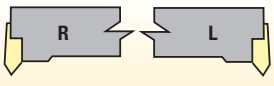
N = Top Notch*



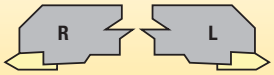
DH = Drop Head



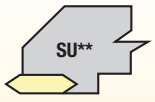
insert size	T	
in	in	mm
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73
8	.438	11,13



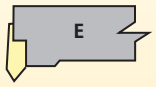
End mount



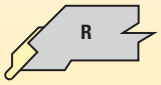
Side mount



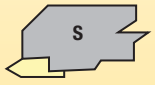
SU = Side mount utility**



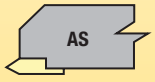
E = End



R = Undercut



S = Side mount, offset



AS = Side mount, no offset

inch:
This position will show a significant two-digit number that indicates the holder cross section. For shanks 5/8" square and larger, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

metric:
Shank height and width in millimeters and holder length according to ISO standard.

A = Qualified back and end, 4" long
B = Qualified back and end, 4.5" long
C = Qualified back and end, 5" long
D = Qualified back and end, 6" long
E = Qualified back and end, 7" long
V = Qualified back and end, 3.5" long*
Q = Qualified metric holder

* Kennametal proprietary standard only.
** Side mount utility holder can only use NTU inserts.

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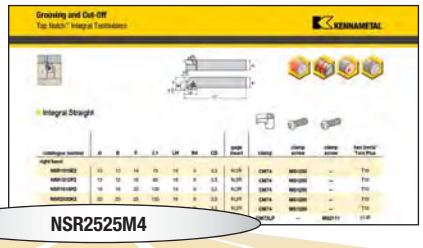
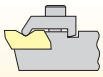
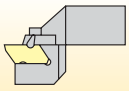


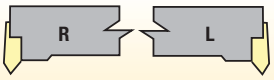
N	S	R		2525	M	4	
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank size	Tool Length	Insert Size	Qualified Surface and Length



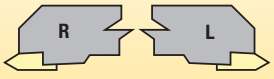
N = Top Notch



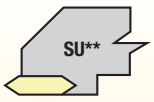
DH = Drop Head



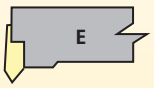
End mount



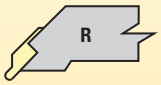
Side mount



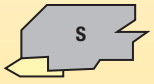
SU = Side mount utility



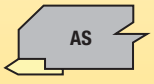
E = End



R = Undercut



S = Side mount, offset



AS = Side mount, no offset

inch:

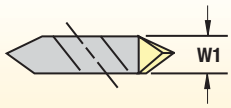
This position will show a significant two-digit number that indicates the holder cross section. For shanks 5/8" square and larger, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

metric:

Shank height and width in millimeter and holder length according to ISO standard.

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Special Length	X

Q = Qualified metric holder



insert size	W1	
in	in	mm
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73
8	.438	11,13

* Kennametal proprietary standard only.
** Side mount utility holder can only use NTU inserts.

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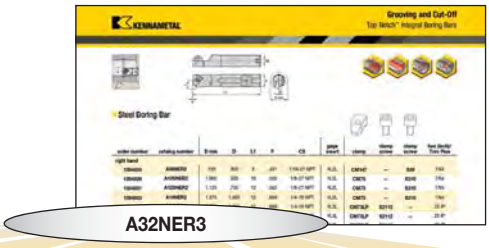
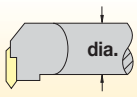
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



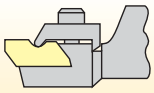
A32NER3

Inch

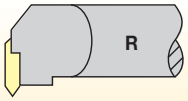
A	32	N	E	R	3	
Bar Type	Bar Diameter	Insert Holding Method	Insert Location	Hand of Bar	Insert Size	Additional Information



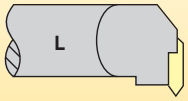
Bar diameter in millimeters



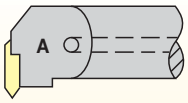
N* = Top Notch



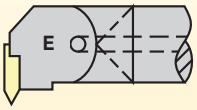
R = Right hand



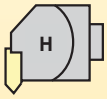
L = Left hand



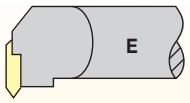
A = Steel with coolant



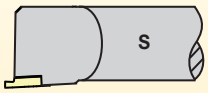
E = Carbide with coolant



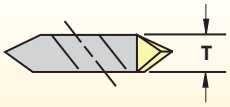
H = Interchangeable head



E = End mount

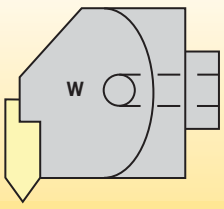


S = Straight mount



insert size	T mm	T in
1	3,54	.100
2	3,81	.150
3	5,35	.195
4	6,40	.255
5	9,65	.380
6	9,73	.383
8	11,13	.438

through coolant interchangeable head



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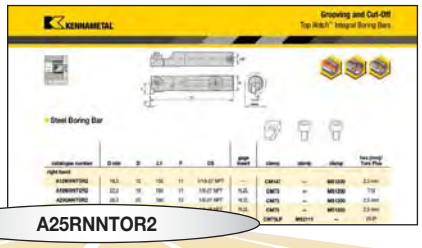
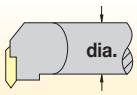


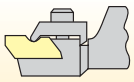
A25RNNTOR2

Metric

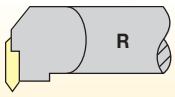
A	25	R	N	N	T	0	R	2
Bar Type	Bar Diameter	Bar Length	Insert Holding Method	Insert Shape	Insert Location	Rake Angle	Hand of Bar	Insert Size



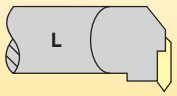
Bar diameter in millimeters



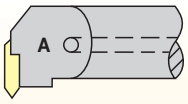
N* = Top Notch



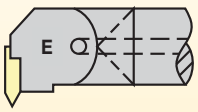
R = Right hand



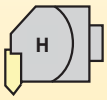
L = Left hand



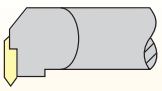
A = Steel with coolant



E = Carbide with coolant

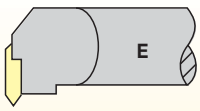


H = Interchangeable head

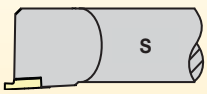


metric bars:

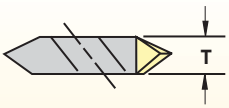
K	=	125mm
M	=	150mm
Q	=	180mm
R	=	200mm
S	=	250mm
T	=	300mm
U	=	350mm



End mount

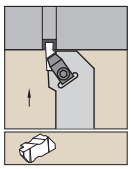


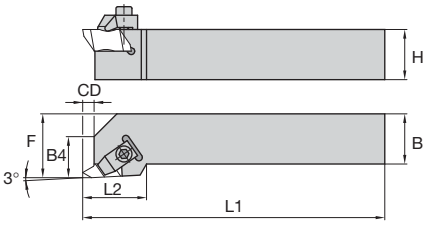
Straight mount



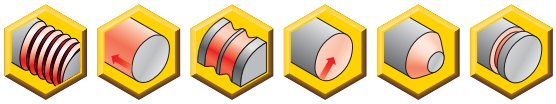
insert size	T mm	T in
1	3,54	.100
2	3,81	.150
3	5,35	.195
4	6,40	.255
5	9,65	.380
6	9,73	.383
8	11,13	.438

*Kennametal standard only.

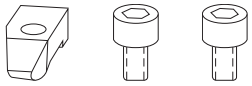




Right Hand

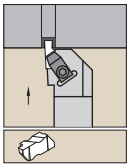


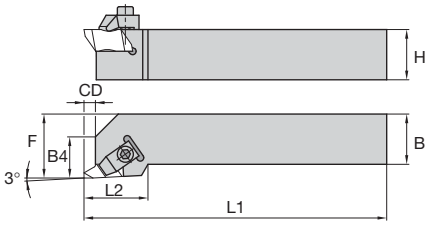
Integral Straight • Inch



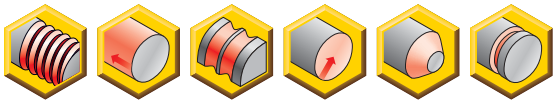
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand													
1095583	**NSR062**	.375	.375	.562	2.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097608	**NSR082V**	.500	.500	.750	3.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097609	**NSR102B**	.625	.625	.875	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097584	**NSR122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097585	**NSR162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097590	**NSR123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097586	**NSR123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097587	**NSR163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1016462	**NSR163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097588	**NSR203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097589	**NSR243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097596	**NSR243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097591	**NSR853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097601	**NSR205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
1016474	**NSR245D**	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
left hand													
1095582	**NSL062**	.375	.375	.562	2.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097278	**NSL082V**	.500	.500	.750	3.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097279	**NSL102B**	.625	.625	.875	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097254	**NSL122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097255	**NSL162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097261	**NSL123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097256	**NSL123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097257	**NSL163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097260	**NSL163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097258	**NSL203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097259	**NSL243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097267	**NSL243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097262	**NSL853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097272	**NSL205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	**CM81**	**—**	**S352**	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.





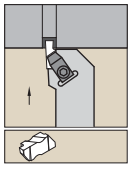
Right Hand

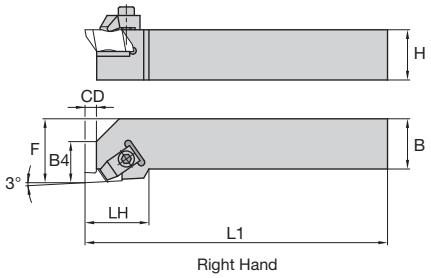


Integral Straight • Metric

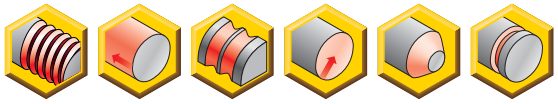
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
left hand													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.



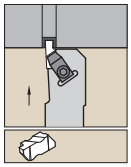


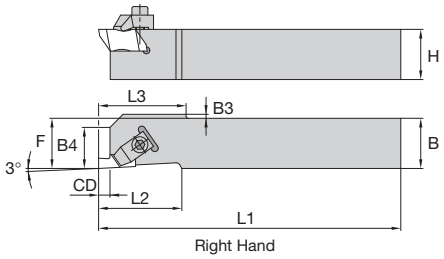
Right Hand



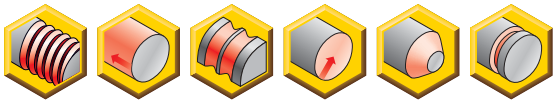
Integral Straight w/ Shim • Inch

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	shim	shim screw	wrench size shim screw	clamp	socket-head cap screw	button-head cap screw	hex/ Torx Plus
right hand																
1097592	**NSR164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097595	**NSR164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097600	**NSR204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097593	**NSR204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097594	**NSR244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097597	**NSR244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097598	**NSR854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097599	**NSR864E**	1.500	1.000	1.250	7.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097604	**NSR166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097602	**NSR206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097603	**NSR246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097605	**NSR168D**	1.000	1.000	1.250	6.00	1.25	.72	.225	N.8R	**SM419**	**S112**	1/16	**CM144**	**S422**	–	3/16
left hand																
1097263	**NSL164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097266	**NSL164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097271	**NSL204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097264	**NSL204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097265	**NSL244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097268	**NSL244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097269	**NSL854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097275	**NSL166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32
1097273	**NSL206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32
1097274	**NSL246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32

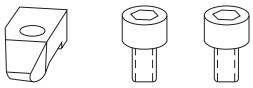




Right Hand

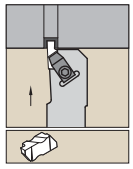


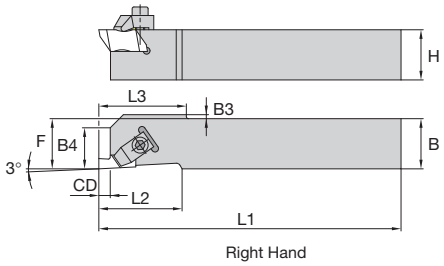
Integral Straight • No Offset • Inch



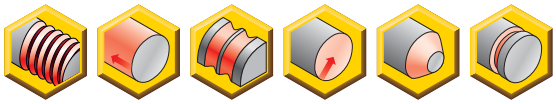
order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand															
1095671	**NASR062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.875	N.2R	**CM182**	**—**	**S310**	7/64
1095670	**NASR082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2R	**CM182**	**—**	**S310**	7/64
1095576	**NASR102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2R	**CM74**	**—**	**S310**	7/64
1095574	**NASR083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.324	N.3R	**CM184LP**	**S2112**	**—**	25 IP
1095668	**NASR103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3R	**CM184LP**	**S2112**	**—**	25 IP
left hand															
1095675	**NASL062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.875	N.2L	**CM183**	**—**	**S310**	7/64
1095674	**NASL082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2L	**CM183**	**—**	**S310**	7/64
1095577	**NASL102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2L	**CM75**	**—**	**S310**	7/64
1095575	**NASL083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.324	N.3L	**CM185LP**	**S2112**	**—**	25 IP
1095672	**NASL103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3L	**CM185LP**	**S2112**	**—**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

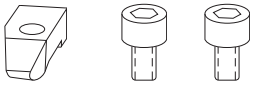




Right Hand

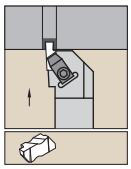


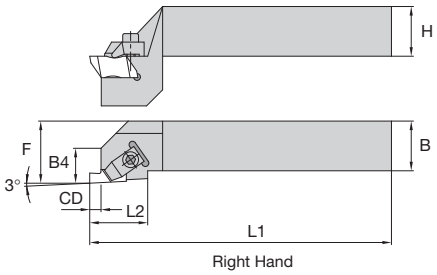
Integral Straight • No Offset • Metric

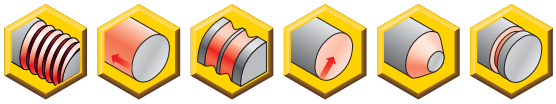


order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**—**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	—	—	N.2R	**CM182**	**MS1200**	**—**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	—	—	N.3R	**CM184LP**	**—**	**MS2111**	25 IP
left hand															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**—**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	—	—	N.2L	**CM183**	**MS1200**	**—**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	—	—	N.3L	**CM185LP**	**—**	**MS2111**	25 IP

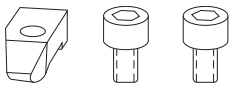
NOTE: F dimension measured over sharp point of N-style threading insert.





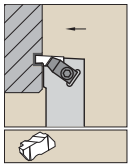


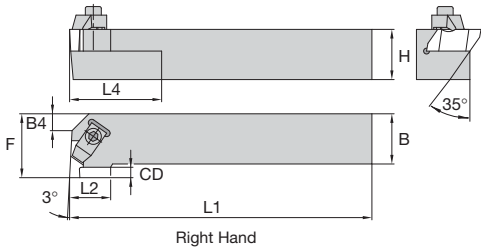
Integral Straight • Drop Head • Inch



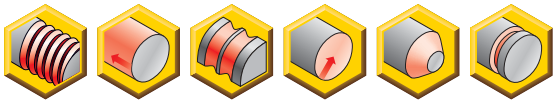
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus	wrench size jack screw
right hand														
1097644	**NSRDH122B**	.750	.750	1.000	4.50	.75	.40	.130	N.2R	**CM74**	**—**	**S310**	7/64	1/8
1097645	**NSRDH162C**	1.000	1.000	1.250	5.00	.75	.40	.138	N.2R	**CM74**	**—**	**S310**	7/64	1/8
1097649	**NSRDH123A**	.750	.750	1.250	4.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097646	**NSRDH163C**	1.000	1.000	1.250	5.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097648	**NSRDH163D**	1.000	1.000	1.250	6.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097647	**NSRDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	3/16
1097650	**NSRDH204D**	1.250	1.250	1.500	6.00	1.38	.62	.294	N.4R	**CM72LP**	**S2112**	**—**	25 IP	3/16
left hand														
1097681	**NSLDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP	3/16

NOTE: F dimension measured over sharp point of N-style threading insert.

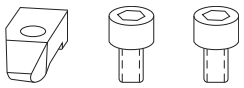




Right Hand

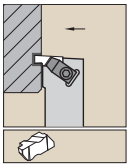


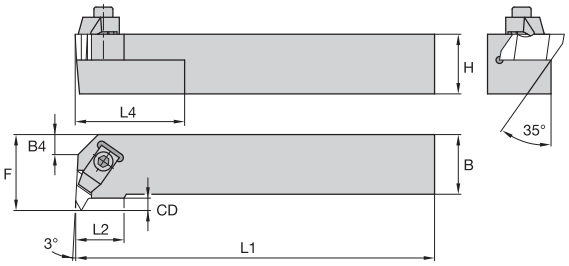
Integral End Mount • Inch



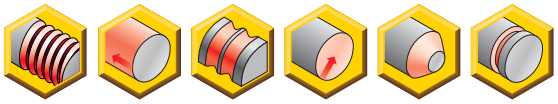
order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand														
1095581	NER062	.375	.375	.750	2.50	.50	–	.138	1.0	N.2L	CM75	–	S310	7/64
1097577	NER082V	.500	.500	.750	3.50	.50	–	.138	1.0	N.2L	CM75	–	S310	7/64
1097578	NER102B	.625	.625	.750	4.50	–	–	.138	1.0	N.2L	CM75	–	S310	7/64
1097559	NER122B	.750	.750	1.000	4.50	.50	.29	.138	1.0	N.2L	CM75	–	S310	7/64
1097560	NER162C	1.000	1.000	1.250	5.00	.50	.41	.138	1.0	N.2L	CM75	–	S310	7/64
1097561	NER123B	.750	.750	1.125	4.50	.75	–	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097562	NER163C	1.000	1.000	1.250	5.00	.75	–	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097565	NER163D	1.000	1.000	1.250	6.00	.75	–	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097563	NER203D	1.250	1.250	1.500	6.00	.75	.26	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097564	NER243D	1.500	1.500	2.000	6.00	.75	.76	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097566	NER853D	1.250	1.000	1.250	6.00	.75	–	.210	2.0	N.3L	CM73LP	S2112	–	25 IP
1097567	NER164C	1.000	1.000	1.375	5.00	.75	–	.294	2.0	N.4L	CM73LP	S2112	–	25 IP
1097570	NER164D	1.000	1.000	1.375	6.00	.75	–	.294	2.0	N.4L	CM73LP	S2112	–	25 IP
1097568	NER204D	1.250	1.250	1.625	6.00	.75	.27	.294	2.0	N.4L	CM73LP	S2112	–	25 IP
1097569	NER244D	1.500	1.500	2.000	6.00	.75	.65	.294	2.0	N.4L	CM73LP	S2112	–	25 IP
1097575	NER205D	1.250	1.250	2.000	6.00	1.44	–	.415	2.0	N.5L	CM81	–	S352	1/4
1097571	NER206D	1.250	1.250	1.625	6.00	.75	.27	.300	2.0	N.6L	CM121	–	S412	5/32
left hand														
1095580	NEL062	.375	.375	.750	2.50	.50	–	.138	1.0	N.2R	CM74	–	S310	7/64
1097247	NEL082V	.500	.500	.750	3.50	.50	–	.138	1.0	N.2R	CM74	–	S310	7/64
1097248	NEL102B	.625	.625	.750	4.50	–	–	.138	1.0	N.2R	CM74	–	S310	7/64
1097231	NEL122B	.750	.750	1.000	4.50	.50	.29	.138	1.0	N.2R	CM74	–	S310	7/64
1097232	NEL162C	1.000	1.000	1.250	5.00	.50	.41	.138	1.0	N.2R	CM74	–	S310	7/64
1097233	NEL123B	.750	.750	1.125	4.50	.75	–	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097234	NEL163C	1.000	1.000	1.250	5.00	.75	–	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097237	NEL163D	1.000	1.000	1.250	6.00	.75	–	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097235	NEL203D	1.250	1.250	1.500	6.00	.75	.26	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097236	NEL243D	1.500	1.500	2.000	6.00	.75	.76	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097238	NEL853D	1.250	1.000	1.250	6.00	.75	–	.210	2.0	N.3R	CM72LP	S2112	–	25 IP
1097239	NEL164C	1.000	1.000	1.375	5.00	.75	–	.294	2.0	N.4R	CM72LP	S2112	–	25 IP
1097242	NEL164D	1.000	1.000	1.375	6.00	.75	–	.294	2.0	N.4R	CM72LP	S2112	–	25 IP
1097240	NEL204D	1.250	1.250	1.625	6.00	.75	.27	.294	2.0	N.4R	CM72LP	S2112	–	25 IP
1097241	NEL244D	1.500	1.500	2.000	6.00	.75	.65	.294	2.0	N.4R	CM72LP	S2112	–	25 IP
1097246	NEL205D	1.250	1.250	2.000	6.00	1.44	–	.415	2.0	N.5R	CM80	–	S352	1/4
1097243	NEL206D	1.250	1.250	1.625	6.00	.75	.27	.300	2.0	N.6R	CM120	–	S412	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.

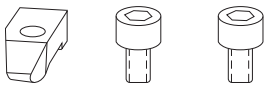




Right Hand

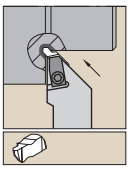


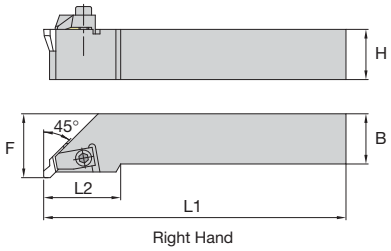
Integral End Mount • Metric

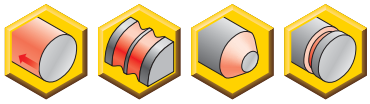


order number	catalog number	H	B	F	L1	LH	CD	gage insert	clamp	clamp screw	clamp screw	Torx/ Torx Plus
right hand												
1098803	**NER1616H2**	16	16	20	100	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
left hand												
1098874	**NEL1616H2**	16	16	20	100	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

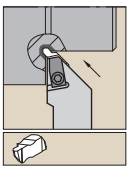


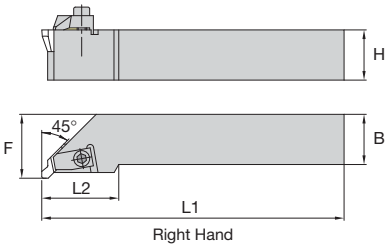


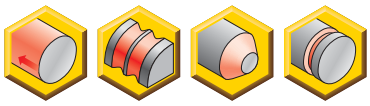


Integral 45° Undercut • Inch

order number	catalog number	H	B	F	L1	LH	gage insert	clamp	button-head cap screw	hex/ Torx Plus
right hand										
1097579	**NRR123B**	.750	.750	1.000	4.50	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097580	**NRR163C**	1.000	1.000	1.250	5.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097583	**NRR163D**	1.000	1.000	1.250	6.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097581	**NRR203D**	1.250	1.250	1.500	6.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097582	**NRR243D**	1.500	1.500	2.000	6.00	1.38	NU3L	**CM73LP**	**S2112**	25 IP
left hand										
1097249	**NRL123B**	.750	.750	1.000	4.50	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097250	**NRL163C**	1.000	1.000	1.250	5.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097253	**NRL163D**	1.000	1.000	1.250	6.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097251	**NRL203D**	1.250	1.250	1.500	6.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP



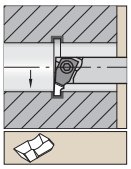




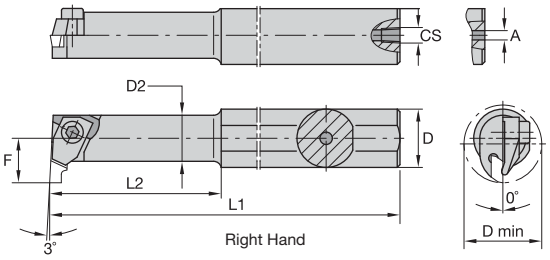
Integral 45° Undercut • Metric

order number	catalog number	H	B	F	L1	LH	gage insert	clamp	clamp screw	hex (mm)/ Torx Plus
right hand										
1098812	**NRR2020K3**	20	20	25	125	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098813	**NRR2525M3**	25	25	32	150	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098814	**NRR3225P3**	32	25	32	170	32	NU3125L	**CM73LP**	**MS2111**	25 IP
left hand										
1098883	**NRL2020K3**	20	20	25	125	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098884	**NRL2525M3**	25	25	32	150	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098885	**NRL3225P3**	32	25	32	170	32	NU3125R	**CM72LP**	**MS2111**	25 IP

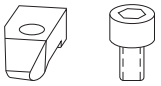
NOTE: NR-style toolholders are compatible with “NU” style inserts only.



Necked steel shank with through coolant.

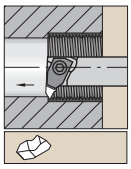


Steel Boring Bar • Small ID • Inch

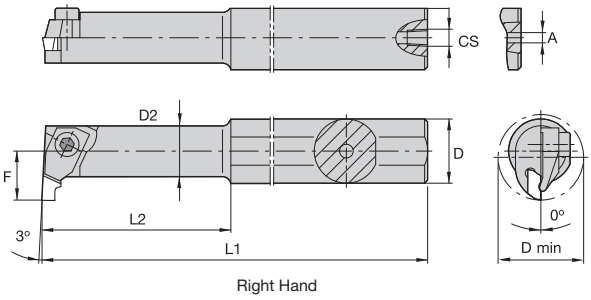


order number	catalog number	D min	D	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand												
1094826	**A06NER1**	.440	.38	6.00	1.250	.26	.13	—	N.1L	**CM109**	**S304**	5/64
1094827	**A08NER1**	.440	.50	8.00	1.290	.26	.09	1/16-27 NPT	N.1L	**CM109**	**S304**	5/64
1094828	**A10NER1**	.800	.63	10.00	—	.41	—	1/8-27 NPT	N.1L	**CM109**	**S304**	5/64

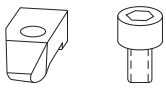
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Necked steel shank with through coolant.

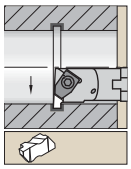


Steel Boring Bar • Small ID • Metric

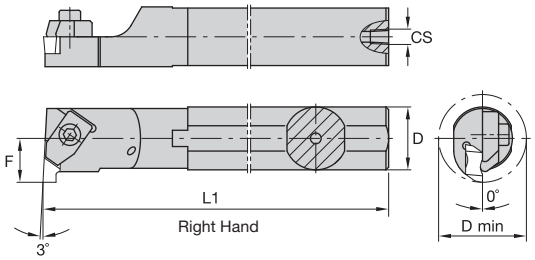


order number	catalog number	D min	D	D2	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex (mm)
right hand													
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm
1098943	**A10KNNTOR1**	11,5	10	10,0	125	—	7	3,2	—	NG1L	**CM109**	**MS1034**	1.5 mm

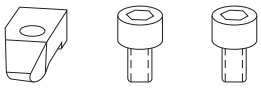
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.

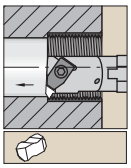


Steel Boring Bar • Inch

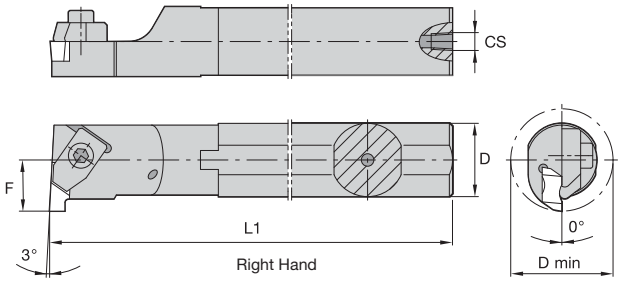


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
1094824	**A08NER2**	.730	.500	8	.437	1/16-27 NPT	N.2L	**CM147**	**—**	**S39**	7/64
1094829	**A10SNER2**	1.000	.625	10	.500	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094831	**A12SNER2**	1.125	.750	10	.562	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094833	**A16TNER2**	1.375	1.000	12	.688	1/4-18 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094835	**A16NER3**	1.375	1.000	12	.688	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094837	**A20NER3**	1.750	1.250	14	.875	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094839	**A24NER3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094841	**A28NER3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094843	**A32NER3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094845	**A40NER3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094847	**A28NER4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094849	**A32NER4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094853	**A40NER4**	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094859	**A32NER6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	**CM121**	**S2112**	**—**	5/32
left hand											
1094825	**A08NEL2**	.730	.500	8	.437	1/16-27 NPT	N.2R	**CM146**	**—**	**S39**	7/64
1094830	**A10SNEL2**	1.000	.625	10	.500	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094832	**A12NEL2**	1.125	.750	10	.562	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094834	**A16TNEL2**	1.375	1.000	12	.688	1/4-18 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094836	**A16NEL3**	1.375	1.000	12	.688	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094838	**A20NEL3**	1.750	1.250	14	.875	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094840	**A24NEL3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094842	**A28NEL3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094844	**A32NEL3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094846	**A40NEL3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094848	**A28NEL4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094850	**A32NEL4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094856	**A32NEL5**	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	**CM80**	**—**	**S352**	1/4
1094860	**A32NEL6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	**CM120**	**S2112**	**—**	5/32

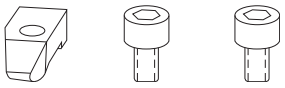
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.

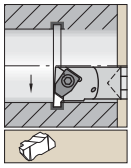


Steel Boring Bar • Metric

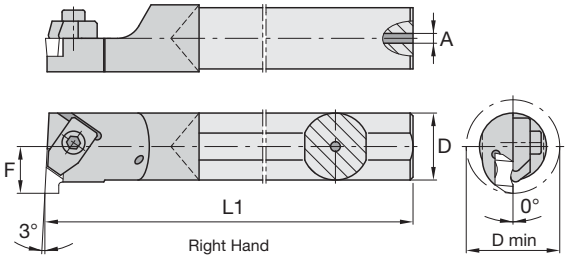


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
left hand											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



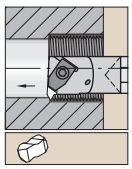
Carbide shank with through coolant.



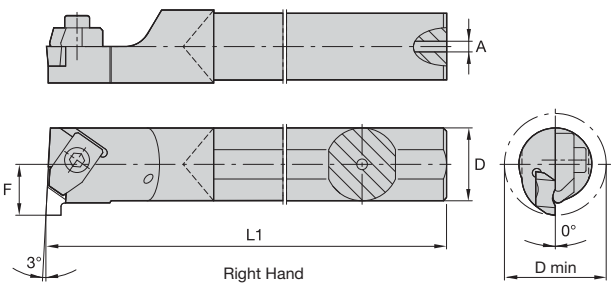
Carbide Boring Bar • Inch

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1152688	**E08NER2**	.730	.500	8	.437	.19	N.2L	**CM147**	**S39**	7/64
1152606	**E10NER2**	1.000	.625	10	.500	.22	N.2L	**CM75**	**S310**	7/64
1152608	**E12NER2**	1.125	.750	10	.562	.28	N.2L	**CM75**	**S310**	7/64
1152610	**E16NER3**	1.375	1.000	12	.688	.31	N.3L	**CM73**	**S412**	25 IP
left hand										
1152689	**E08NEL2**	.730	.500	8	.437	.19	N.2R	**CM146**	**S39**	7/64
1152607	**E10NEL2**	1.000	.625	10	.500	.22	N.2R	**CM74**	**S310**	7/64
1152609	**E12NEL2**	1.125	.750	10	.562	.28	N.2R	**CM74**	**S310**	7/64
1152611	**E16NEL3**	1.375	1.000	12	.688	.31	N.3R	**CM-72**	**S412**	25 IP

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



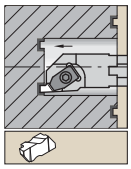
Carbide shank with through coolant.



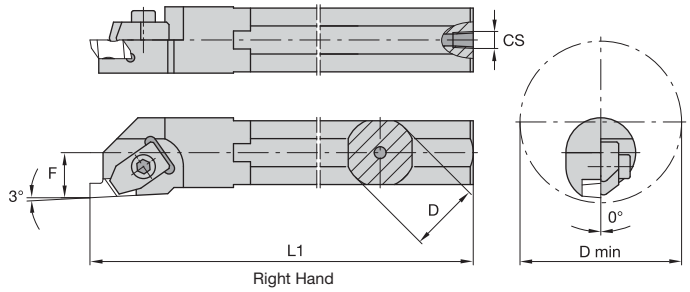
Carbide Boring Bar • Metric

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	Torx/ Torx Plus
right hand										
1152834	**E16RNNTOR2**	22,0	16	200	11	5,537	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26,0	20	250	13	7,137	N.2L	**CM75**	**MS1200**	T10
left hand										
1152835	**E16RNNTOL2**	22,0	16	200	11	5,537	N.2R	**CM74**	**MS1200**	T10

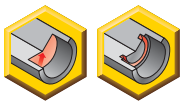
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.



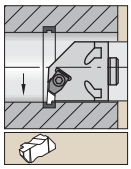
Right Hand

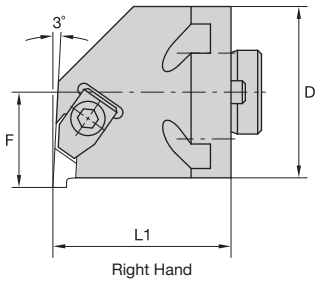


Steel Face Grooving Boring Bar • Inch

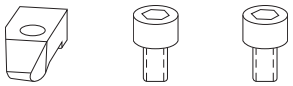
order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1094911	**A16TNSR3**	2.250	1.000	12	.640	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094913	**A20UNSR3**	2.250	1.250	14	.765	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094915	**A24UNSR3**	2.250	1.500	14	.890	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094919	**A32VNSR3**	2.375	2.000	16	1.281	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094921	**A40VNSR3**	2.875	2.500	16	1.531	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
left hand										
1094912	**A16TNSL3**	2.250	1.000	12	.640	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP
1094916	**A24UNSL3**	2.250	1.500	14	.890	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP
1094920	**A32VNSL3**	2.375	2.000	16	1.281	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP

NOTE: Minimum bore applicable only when used with NFD-KI inserts on internal face grooves. See page C197 for machining guidelines when face grooving.



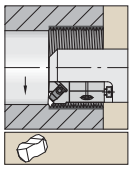


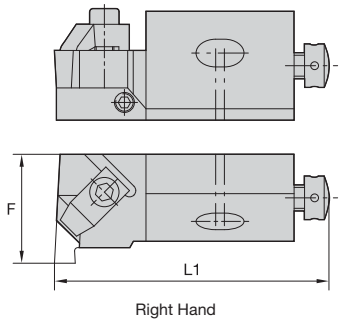
Steel Boring Head • Inch



order number	catalog number	D	D min	F	L1	gage insert	clamp	clamp screw	clamp screw	Torx Plus
right hand										
1095314	**H20NER3W**	1.250	1.750	.875	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095362	**H24NER3W**	1.500	2.000	1.000	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095418	**H28NER3W**	1.750	2.250	1.125	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095456	**H32NER3W**	2.000	2.500	1.250	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095533	**H40NER3W**	2.500	3.000	1.500	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095421	**H28NER4W**	1.750	2.500	1.250	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095458	**H32NER4W**	2.000	2.750	1.375	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095516	**H36NER4W**	2.250	3.000	1.500	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095535	**H40NER4W**	2.500	3.250	1.625	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095452	**H28NER6W**	1.750	2.500	1.250	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095512	**H32NER6W**	2.000	2.750	1.375	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095571	**H40NER6W**	2.500	3.250	1.625	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095367	**H24NER8W**	1.500	2.000	1.000	1.625	N.8L	**CM145**	**–**	**S422**	3/16
left hand										
1095315	**H20NEL3W**	1.250	1.750	.875	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095363	**H24NEL3W**	1.500	2.000	1.000	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095419	**H28NEL3W**	1.750	2.250	1.125	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095457	**H32NEL3W**	2.000	2.500	1.250	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095534	**H40NEL3W**	2.500	3.000	1.500	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095459	**H32NEL4W**	2.000	2.750	1.375	1.625	N.4R	**CM72LP**	**S2112**	**–**	25 IP
1095536	**H40NEL4W**	2.500	3.250	1.625	1.625	N.4R	**CM72LP**	**S2112**	**–**	25 IP

NOTE: For boring adapters, see pages B406–B409.
Minimum bore capability varies with depth of groove. See page C197 for details.

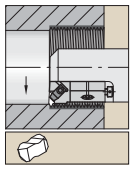


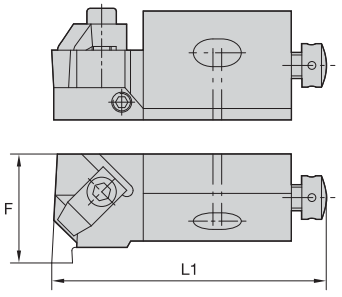


Steel Boring Cartridge • Inch

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	hex	washer	hold down screw
right hand														
1098380	**NER12CA2**	1.969	.787	2.19	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
left hand														
1098624	**NEL12CA2**	1.969	.787	2.17	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
1098626	**NEL25CA3**	3.937	1.260	3.94	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	6 mm	**CSWM 100 080**	**—**

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.





Steel Boring Cartridge • Metric

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex (mm)	radial adjusting screw	hex (mm)	axial screw	hex (mm)	washer
right hand													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
left hand													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page C197 for details.
F dimension measured over sharp point of Top Notch-style threading insert.

Machining Guidelines for Chip Control • Grooving

When the proper cutter diameter is not available, proper cutter positioning will provide positive results.

- Center height of insert should be positioned at the center of the workpiece or up to .005" (0,13mm) above.
- Dwell time in the bottom of the groove (more than three revolutions) is not recommended.
- Chip control is feed rate related and should be adjusted to fit the particular situation. Recommended feed range is .003–.012 IPR (0,08–0,3 mm/rev).

Machining Guidelines for Chip Control • Turning/Profiling

Maximum depth of cut for side cutting (turning/profiling) depends on the material being cut and the width of the tool.

- .031–.062" (0,79–1,6mm) wide insert can cut up to .025" (0,6mm) deep.
- .067–.128" (1,7–3,3mm) wide insert can cut up to .040" (1mm) deep.
- .138–.189" (3,5–4,8mm) wide insert can cut up to .080" (2mm) deep.
- .197–.250" (5–6,35mm) wide insert can cut up to .120" (3mm) deep.

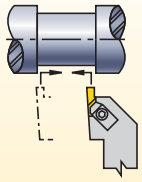
Groove Limits (Maximum Internal Groove Depth vs. Minimum Bore Diameter)

insert catalog number	maximum internal groove depth		minimum bore diameter	
	inch	mm	inch	mm
NG-1094L	.075	1,91	.800	20,32
–	.040	1,02	.440	11,18
NG-2031R/L	.050	1,27	.730	18,54
NG-2041R/L	–	–	–	–
NG-2047R/L	–	–	–	–
NG-2058R/L	–	–	–	–
–	.110	2,79	2.500	63,50
NG-2062R/L	.102	2,59	1.750	44,45
NG-2094R/L	.098	2,49	1.500	38,10
NG-2125R/L	.080	2,03	1.000	25,40
–	.055	1,40	.730	18,54
NG-3047R/L	–	–	–	–
NG-3062R/L	.094	2,39	1.750	44,45
NG-3072R/L	.090	2,29	1.625	41,28
NG-3078R/L	.075	1,91	1.375	34,93
NG-3088R/L	–	–	–	–
NG-3094R/L	–	–	–	–
NG-3097R/L	.150	3,81	2.375	60,33
NG-3105R/L	–	–	–	–
NG-3110R/L	.145	3,68	2.125	53,98
NG-3122R/L	–	–	–	–
NG-3125R/L	.138	3,51	1.875	47,63
NG-3142R/L	–	–	–	–
NG-3156R/L	.125	3,18	1.625	41,28
NG-3178R/L	–	–	–	–
NG-3185R/L	.110	2,79	1.375	34,93
NG-3189R/L	–	–	–	–
NG-4125R/L	.150	3,81	2.750	69,85
–	.250	6,35	5.750	146,05
NG-4189R/L	.245	6,22	5.000	127,00
NG-4213R/L	.240	6,10	4.500	114,30
NG-4219R/L	.218	5,54	3.250	82,55
NG-4250R/L	.200	5,08	2.500	63,50

NOTE: The same maximum groove depth and minimum bore diameter values also apply to metric, NG-K (chip control), and NR (full radius) inserts of similar size.

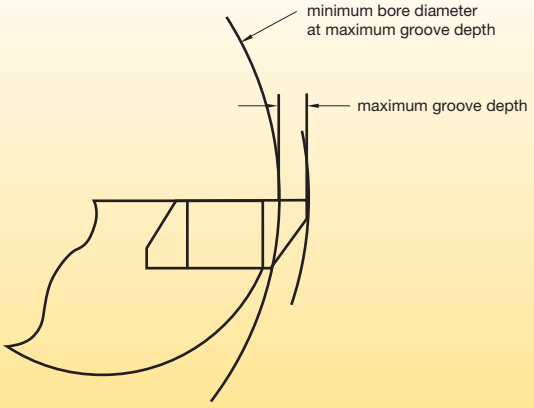
Finish Turning the Groove

1. Plunge both sides of groove width.
2. Plunge center area to remove web of material remaining.
3. To avoid insert chipping and to achieve groove wall perpendicularity, follow the tool path outlined.
4. Use the lightest depth of cut that still allows good chipbreaking, tool life, and surface finish.



insert catalog number	maximum internal groove depth		minimum bore diameter	
	inch	mm	inch	mm
–	.375	9,53	28.812	731,82
NG-5250R/L	.361	9,17	15.812	401,62
NG-5281R/L	.344	8,74	10.812	274,62
NG-5312R/L	.327	8,31	7.312	185,72
NG-5344R/L	.294	7,47	4.812	122,22
NG-5375R/L	.257	6,53	3.562	90,47
–	.215	5,46	2.812	71,42
NG-6250R/L	.250	6,35	5.750	146,05
NG-6281R/L	.245	6,22	5.000	127,00
NG-6312R/L	.240	6,10	4.500	114,30
NG-6344R/L	.218	5,54	3.250	82,55
NG-6375R/L	.200	5,08	2.500	63,50

Internal Groove Depth versus Bar Interference



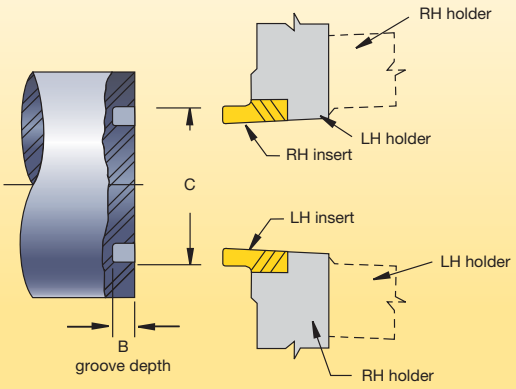
NOTE: Internal grooving depth limits are a function of bar clearance versus bore diameters.

Machining Guidelines for Face Grooving Operations • External

Standard NF/NDF Inserts

insert family	maximum groove depth "B"		minimum groove diameter "C"	
	inch	mm	inch	mm
NF-3	.060	1,52	.940	23,90
NF-3	.094	2,39	1.200	30,50
NF-3	.125	3,18	1.420	36,10
NF-3	.150	3,81	1.630	41,30
NFD-3	.250	6,35	1.880	47,60
NF-4/6	.060	1,52	.940	23,90
NF-4/6	.094	2,39	1.200	30,50
NF-4/6	.125	3,18	1.420	36,10
NF-4/6	.150	3,81	1.630	41,30
NF-4/6	.188	4,78	1.880	47,60
NF-4/6	.250	6,35	2.250	57,20
NFD-4	.375	9,53	2.250	57,20
NFD-4	.500	12,70	2.250	57,20

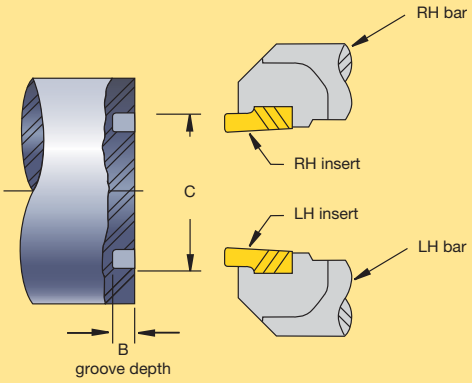
Toolholders



Standard NG/NGD Inserts

insert family	maximum groove depth "B"		minimum groove diameter "C"	
	inch	mm	inch	mm
NG-2	.050	1,27	2.13	54,0
NG-2	.110	2,79	3.50	88,9
NG-3	.094	2,39	4.00	101,6
NG-3	.125	3,18	5.00	127,0
NG-3	.150	3,81	5.50	139,7
NGD-3	.250	6,35	6.88	174,6
NG-4	.150	3,81	6.00	152,4
NG-4	.250	6,35	8.25	209,6
NGD-4	.375	9,53	8.75	222,3
NGD-4	.500	12,70	8.75	222,3
NG-5	.375	9,53	13.00	333,0

Boring Bars

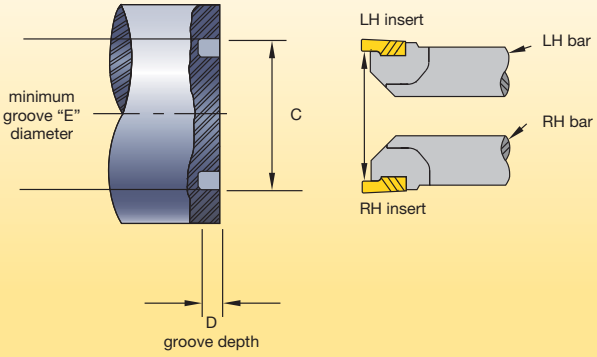


Machining Guidelines for Face Grooving Operations • Internal

insert family	maximum groove depth "D"		minimum groove diameter "E"	
	inch	mm	inch	mm
NFD-3-KI	.250	6,35	2.250	57,2

NOTE: For internal applications, use only NFD-KI inserts.

Boring Bars

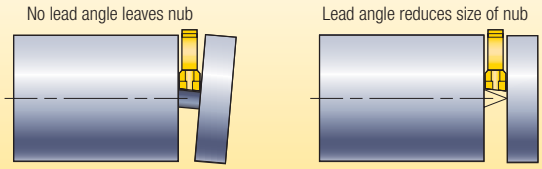


Tool Application Guidelines

- Always use good general machining practices.
- Make the machine and workpiece setup as rigid as possible.
- Integral shank toolholders offer the best rigidity. They should be your first toolholder choice, when possible.
- Use the toolholder with the shortest possible depth of cut for the application ("CD" dimension).
- When changing inserts, make sure the new insert locates securely against the toolholder's positive stop.
- Never tighten the clamping screw without an insert in the pocket.
- Toolholder projection out of the tool block should be as short as possible.
- Inserts should cut as close to center as possible.
- Dwell time in bottom of groove should be less than three revolutions.
- Recommended cutting speed and feeds are a starting point. Adjust, as necessary, for optimum tool life and chip control.

Definitions and Guidelines

1. Width of cut (W) = width of the insert.
2. Lead angle = 0° (neutral); 6° (RH or LH).

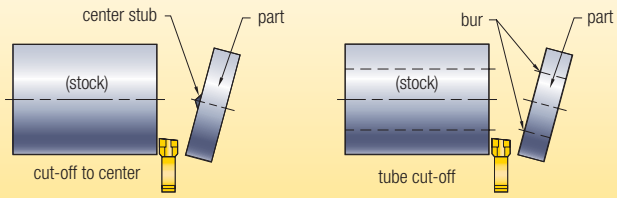


Reduce bur of cut-off faces:

- Use lead angle-type inserts (Figures 1 and 2). Lead angle on a cut-off insert reduces the bur that remains on the part but decreases tool life and increases tool side deflection and possibly cycle time.
- If 0° lead angle is mandatory, use the narrowest possible cut-off insert and blade. This will minimize the center stub or cut-off bur length.

Figure 1

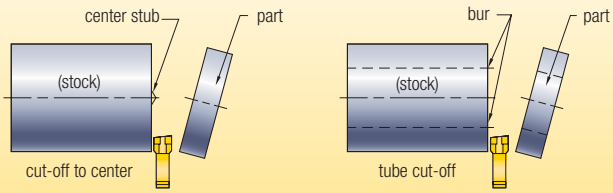
Insert selection **left-hand lead**



Left-hand lead insert leaves center stub or bur on part and produces clean stock surface.

Figure 2

Insert selection **right-hand lead**



Reduces nub but decreases tool life and productivity

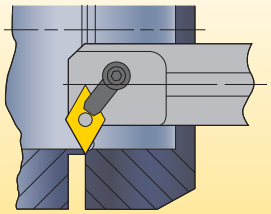
Right-hand lead insert leaves center stub or bur on stock and produces clean part surface.

- Check total height and maintain on center with part diameter.
- The cutting edge height should be within ±.004" (0,1mm) to the center; recommended cutting position is .002" (0,05mm) above center.

Tubing

- On tubing-type parts that require a chamfer on the I.D., align I.D. chamfer tool with cut-off surface. This will enable the chamfering operation to actually separate the part from the bar (see Figure 3). Note the part may drop onto the chamfering bar, which, in this case, will act like a catcher for the part.

Figure 3

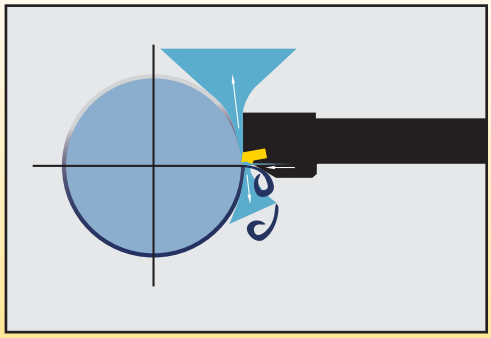


Internal chamfer line up

Improve surface finish of cut-off faces:

- Use insert with 0° lead angle.
- Increase coolant flow or improve application technique, as shown in Figure 4.
- Decrease the feed rate near the break-through point of the cut.
- Check that the grooving tool is set at the correct angle.
- Use blades with the greatest possible face height and smallest possible cutting width.
- Increase the speed.

Figure 4

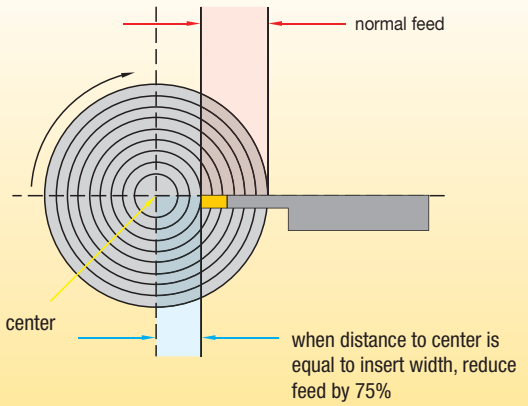


Preferred method for applying coolant

- Mount cut-off tool upside down. This enables gravity to remove chips and avoid cutting the chips twice. Another benefit of mounting the tool upside down is preventing chips from wedging between the tool insert and the groove side walls, which galls the side wall surfaces.

Programming Guidelines

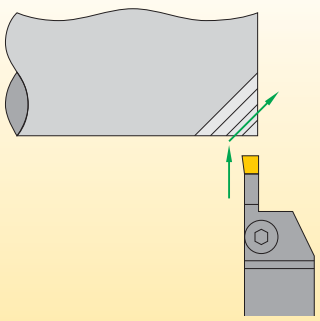
Feed reduction in cut-off



Feed reduction when approaching center = longer tool life

Chamfering

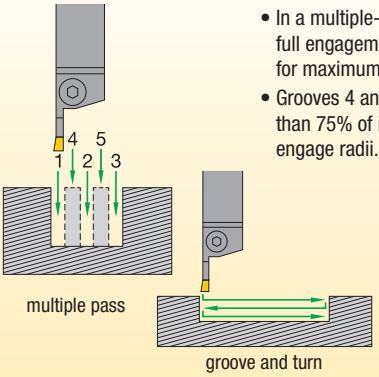
Chamfering with a grooving tool reduced machine index time and tool stations.



(continued)

Programming Guidelines *(continued)*

Pocketing



- In a multiple-pass operation, generate full engagement grooves in 1, 2, and 3 for maximum stability.
- Grooves 4 and 5 should be no more than 75% of insert width, so as not to engage radii.

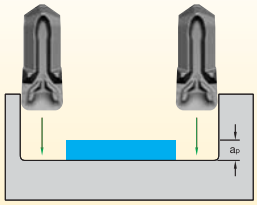
If pocket is deeper than wide = multiple pass

If pocket is wider than deep = groove and turn

Square Pocket

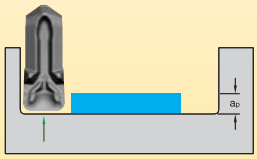
Steps 1 and 2

Plunge the radius and wall on each side to open up two grooves.



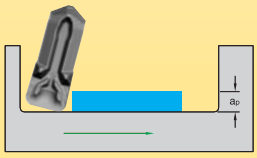
Step 3

Retract tool .004" (0,1mm); this is necessary to create a flat bottom.



Step 4

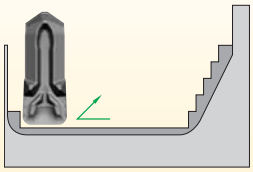
Side turn. This tool is designed to deflect, creating the necessary front clearance.



Profile Pocket

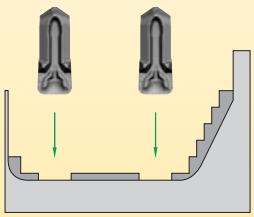
Step 1

Rough to have about the same amount of stock left on all surfaces for finish.



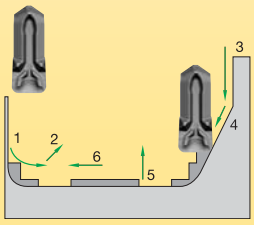
Step 2

Open up two grooves away from wall and radius.



Step 3

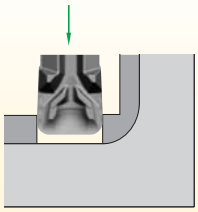
(1 and 2) Finish wall and radius.
(3 and 4) Finish wall, angle, and radius on opposite side of pocket.
(5) Retract tool .004" (0,1mm).
(6) Side turn to finish the floor of the pocket.



Generating a Radius

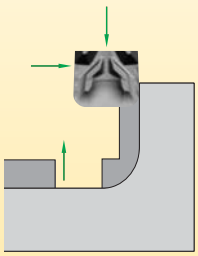
Step 1

Open up a groove away from the radius.



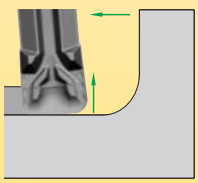
Step 2

Retract and move the material on the wall and generate the radius. By generating the groove in the prior step, only one surface is engaged at a time, reducing the risk of vibrations.



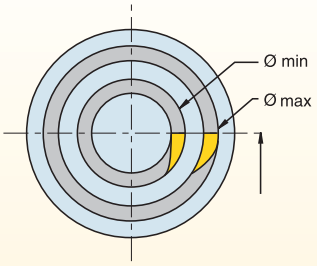
Step 3

Retract the tool .004" (0,1mm) and then side turn.



Grooving Tool Failure and Solution Guide

Face Grooving Application Guidelines

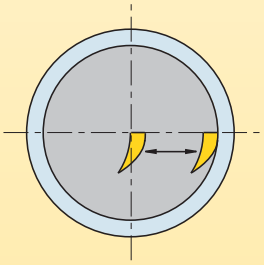


Tool Selection
- When selecting the toolholder, always start at the largest diameter possible and work toward the smaller diameter. This will allow the strongest tool to be used.

Cutting the First Groove
- The outside diameter of the first groove must be between the diameter minimum and diameter maximum capability of the face grooving tool (see illustration above). This creates clearance for the toolholder.

Chip Control
- Adjust speed and feed for good chip control and evacuation from the groove. Chip compaction can cause poor surface finish, tool breakage, and reduced tool life.

Tool Setting
- The tool should be set as close to the center as possible to avoid extreme formation of burs.
- Align the cutting edge square to the workpiece.



Widening a Face Groove
- After the first groove has been cut, the groove width can be widened in either direction using the same tool. The best practice is to work from the O.D. to the I.D.

Practical Solutions to Grooving Problems

problem	remedy
bur	1. Verify tool center height. 2. Use sharp tools (index more often). 3. Use positive rake PVD coated insert. 4. Use correct grade for workpiece material. 5. Use correct geometry (e.g., positive rake for workhardening material). 6. Change tool path.
poor surface finish	1. Increase speed. 2. Use sharp tools (index more often). 3. Dwell time in bottom 1–3 revolutions (max). 4. Use proper chip control geometry. 5. Increase coolant flow. 6. Verify proper setup (overhang, shank size). 7. Use correct geometry (e.g., positive rake for workhardening material).
groove bottom not flat	1. Use sharp tools (index more often). 2. Dwell time in bottom 1–3 revolutions (max). 3. Reduce tool overhang (increase rigidity). 4. Reduce feed rate at groove bottom. 5. Use a wider insert. 6. Verify tool center height.
poor chip control	1. Use sharp tools (index more often). 2. Increase coolant concentration. 3. Adjust feed rate (usually increase first).
chatter	1. Reduce tool and workpiece overhang. 2. Adjust speed (usually increase first). 3. Adjust feed (usually increase first). 4. Verify tool center height.
insert chipping	1. Use correct grade for workpiece material. 2. Increase speed. 3. Reduce feed. 4. Use a stronger grade. 5. Increase tool and setup rigidity.
built-up edge	1. Use positive rake PVD coated insert. 2. Increase speed. 3. Reduce feed. 4. Increase coolant flow/concentration. 5. Use cermets.
side walls not straight	1. Check tool alignment for square. 2. Reduce workpiece and tool overhang. 3. Use sharp inserts (index more often).

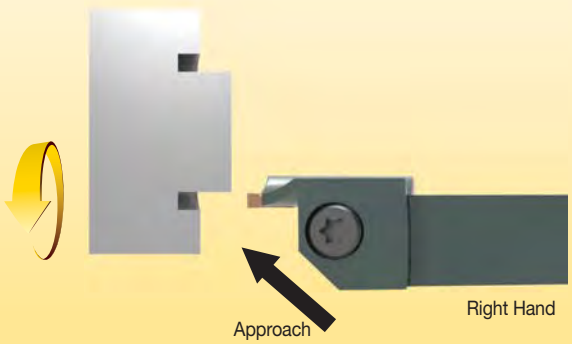
Steps to proper face grooving tool selection

- Step 1: Select your spindle rotation
- Step 2: Select your angle of approach and toolholder orientation

Integral Tooling

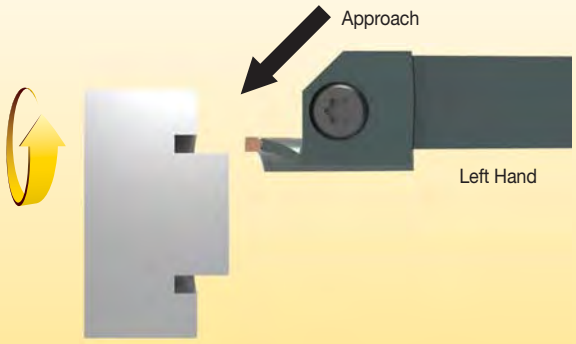
Counter-Clockwise Rotation

Square Shank

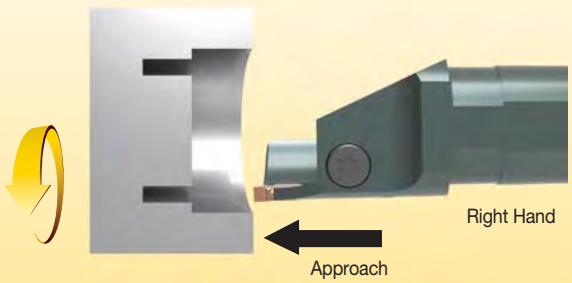


Clockwise Rotation

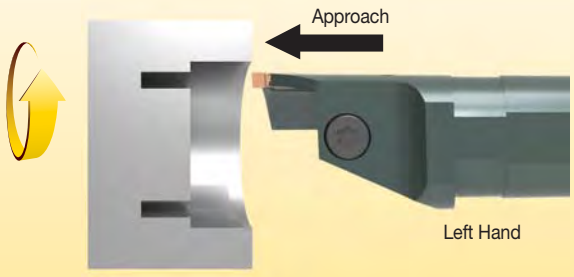
Square Shank



Boring Bar



Boring Bar



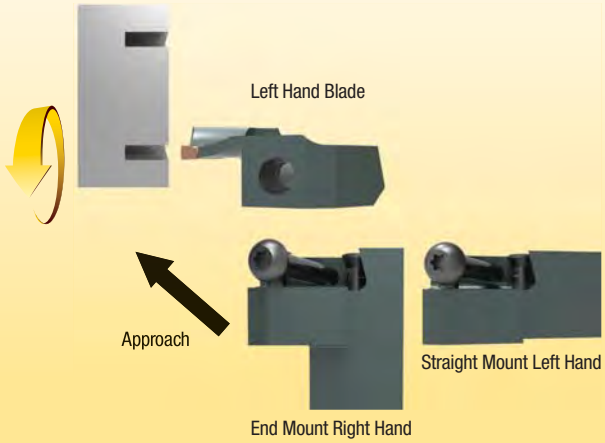
Steps to proper modular face grooving tool selection

- Step 1: Select your spindle rotation
- Step 2: Select your angle of approach and toolholder orientation
- Step 3: Identify combination of blade and shank tool

Modular Tooling

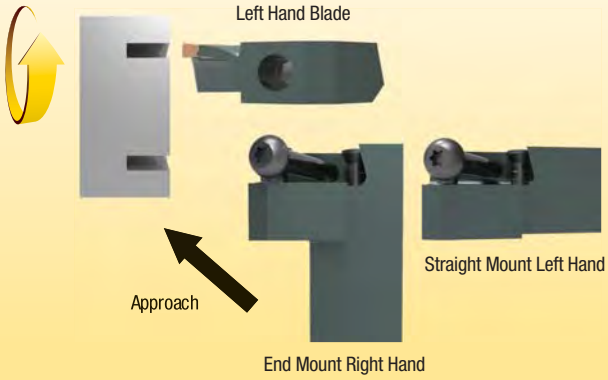
Counter-Clockwise Rotation

Left Hand Outboard Sweep

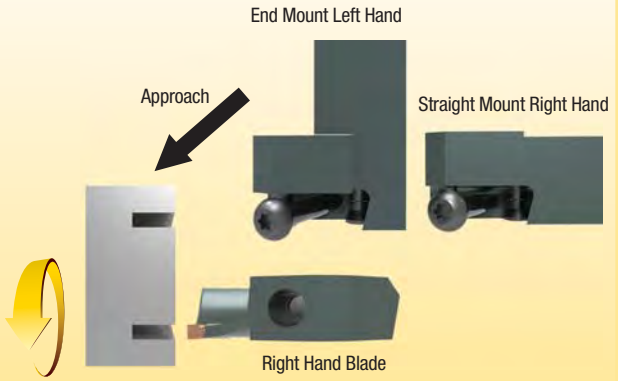


Clockwise Rotation

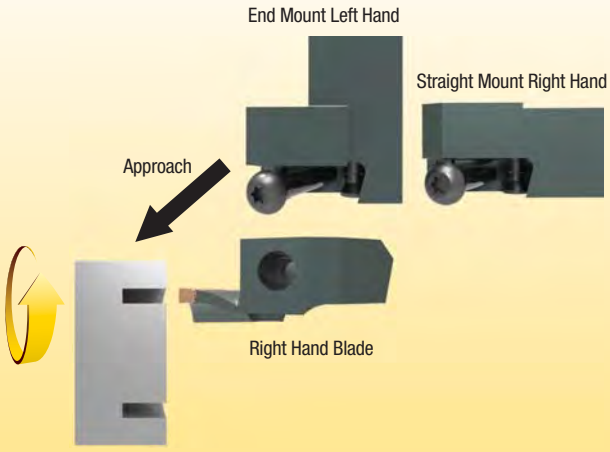
Left Hand Inboard Sweep



Right Hand Inboard Sweep



Right Hand Outboard Sweep



Beyond™ Drive™ Inserts

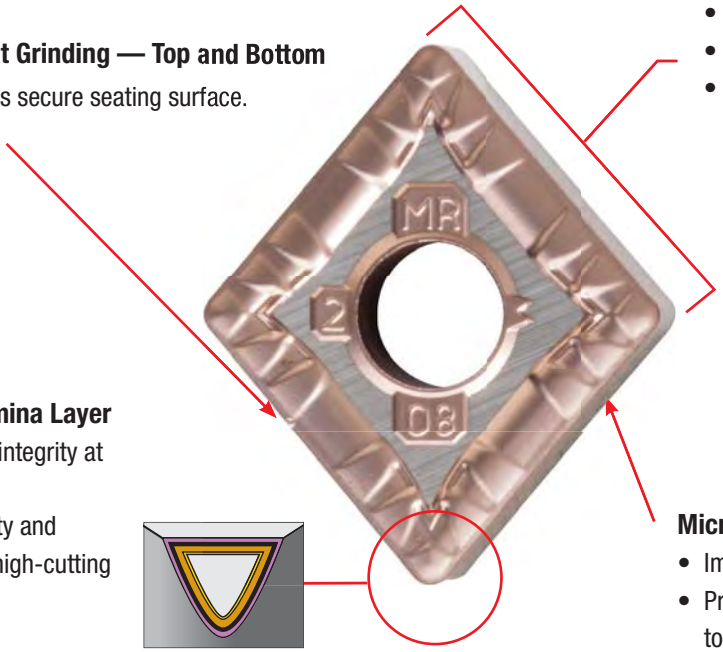
- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Post-Coat Treatment

- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom

- Provides secure seating surface.



Fine-Grained Alumina Layer

- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

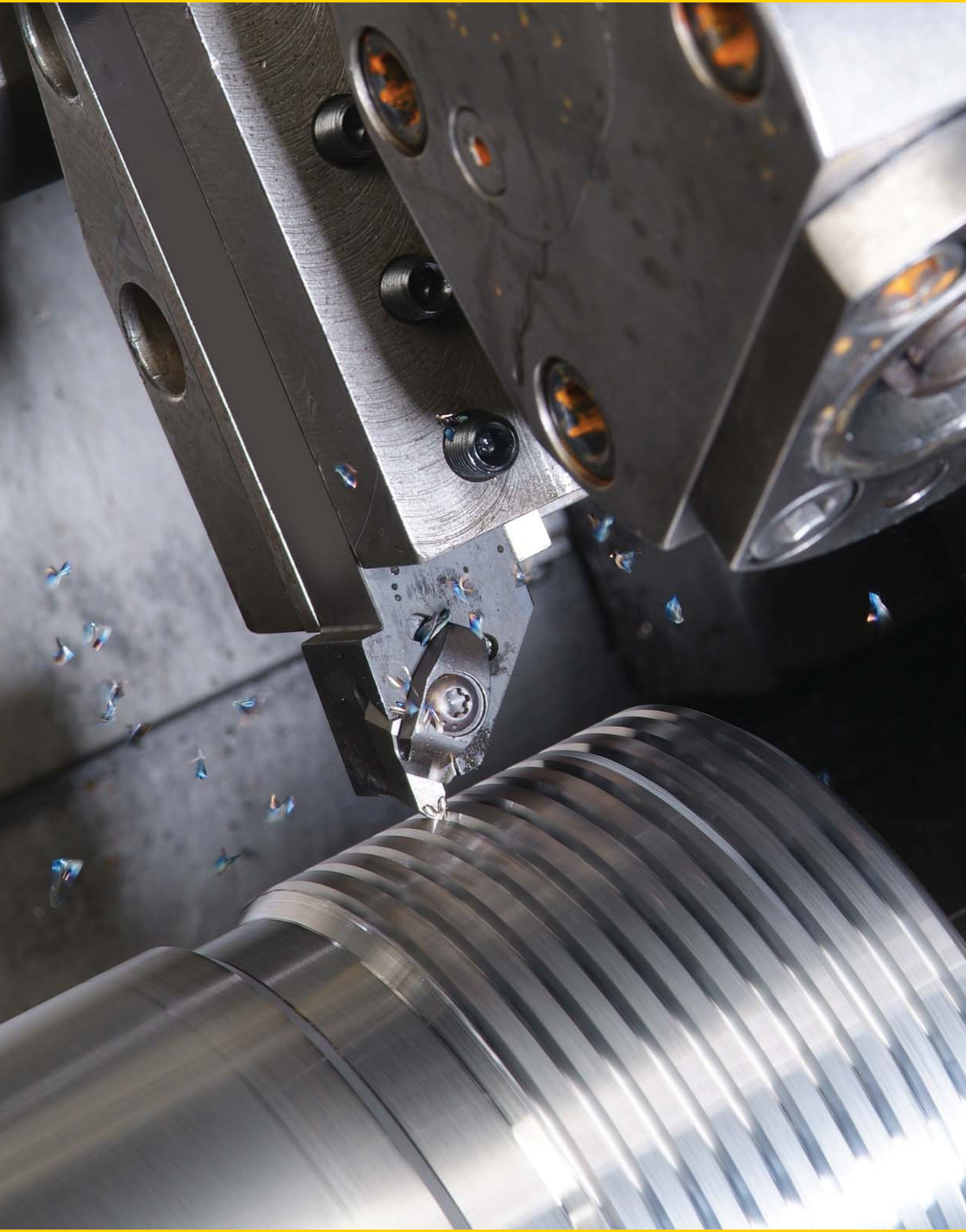
TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges

- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

kennametal.com



Threading

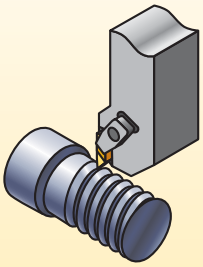
Threading Application Guide D2–D3

Top Notch Threading D4–D42

Laydown Threading D44–D79

Threading Technical Information D81–D105

Top Notch External Threading

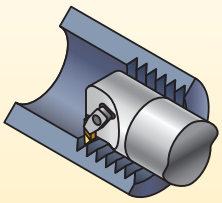


Square Shank Toolholder Sizes:
- Inch — .375–1.5"
- Metric — 10–32mm

Cresting (Full Profile):
UN TPI of 32–7
ISO 1,5–3,0mm pitch

60° Partial Profile — Flat Top (NTF and NTK):
UN 44–4.5 TPI
ISO 0,6–5,5mm pitch

Top Notch Internal Threading

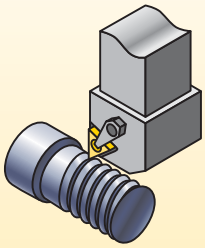


Boring Bar Diameters:
- Inch — .312–2.5"
- Metric — 10–50mm
- Minimum bore — .440" (11,5mm)
- Steel

Cresting (Full Profile):
UN 16–8 TPI
ISO 1,5–3,0mm pitch

60° Partial Profile — Flat Top (NT-1L, NTF, and NTK):
UN 24–4.5 TPI
ISO 1,0–5,5mm pitch

LT Laydown External Threading

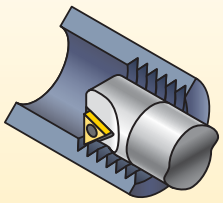


Square Shank Toolholder Sizes:
- Inch — .500–1.25"
- Metric — 8–40mm

Cresting (Full Profile):
UN 48–8 TPI
ISO 0,5–5,0mm pitch

60° Partial Profile:
UN 48–4 TPI
ISO 0,5–6,0mm pitch

LT Laydown Internal Threading



Boring Bar Diameters:
- Inch — .375–1.25"
- Metric — 12–50mm
- Minimum bore — .500" (13mm)
- Steel and carbide

Cresting (Full Profile) and Partial Profile:
UN 48–8 TPI
ISO 0,5–5,0mm pitch

60° Partial Profile:
UN 48–4 TPI
ISO 0,5–6,0mm pitch

55° Partial Profile:
UN 48–5 TPI
ISO 0,5–5,0mm pitch

Top Notch™ Thread Tooling

The Proven High-Productivity Threading Solution

Top Notch threading with Beyond™ insert technology provides consistent tool performance and superior clamping thread to almost any operation. With the largest selection of grades and geometries in the industry, the Top Notch threading system is a proven solution.

Features and Benefits

Choosing the Top Notch Threading System

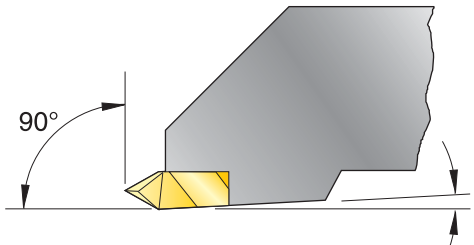
- A superior choice for heavy-duty applications like machining of Acme, Buttress, and API threads. Top Notch is also the best system for coarse pitch and multitooth threading applications.
- Largest selection of insert geometries and grades in the industry.
- A very rigid insert clamping design ensures best tool life, surface finish, and workpiece quality.
- Simplicity of the Top Notch design does not require shim selection for thread helix angles. This helps to avoid mistakes on the shop floor.
- Reduce inventory by using the same Top Notch toolholders and boring bars with either threading or grooving inserts.
- Top Notch chipbreaker inserts eliminate long troublesome coils.
- An excellent choice for special thread forms and toolholder designs.

Top Notch inserts are available in KCU10™ and KCU25™ grades to withstand the demands placed on the cutting edge of the threading insert.

The versatility of the Top Notch™ steel enables you to use both threading and grooving inserts in the same toolholder.

Precision-Ground Thread Form

- Minimizes built-up edge.
- Precisely cuts most common materials.
- Reduces cutting forces.
- Ensures accurate high-quality threads.



NOTE: Holders are designed to locate inserts inclined to 3° to provide back clearance down open side.

Superior Chip Control

- Eliminates long, troublesome coils.
- Excellent for internal threading operations.
- Available in partial profile inserts for 60° thread forms.

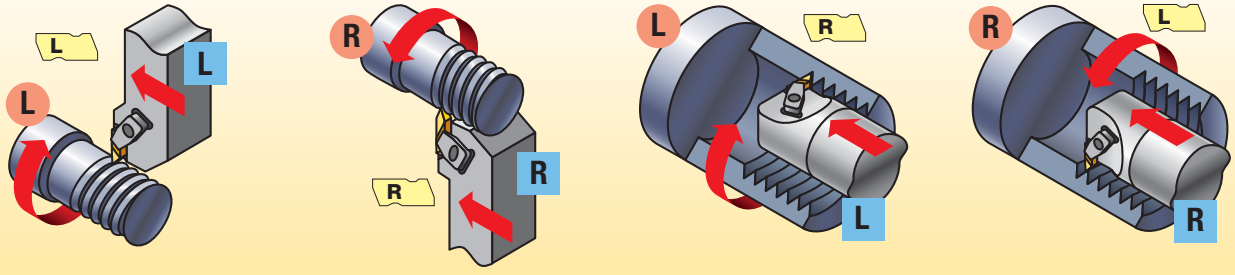
Step 1 • Select Threading Method and Hand of Tooling

Required Information:

- External/internal operation.
- Spindle rotation/hand of thread.
- Feed direction.

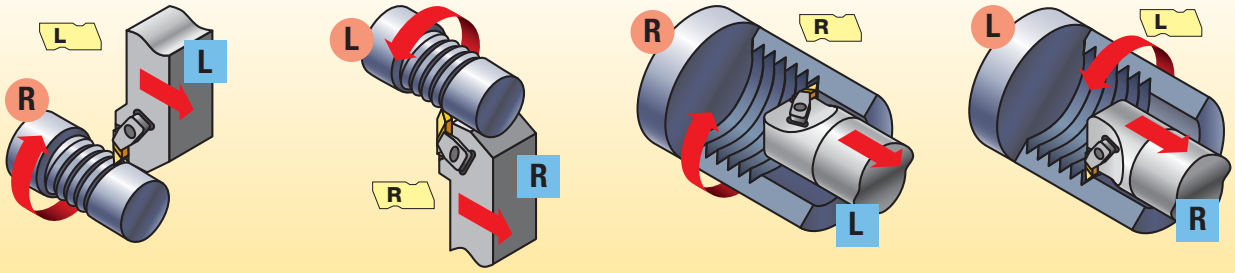
hand of thread | hand of toolholder | hand of insert

Feed direction toward the chuck • RECOMMENDED



external left-hand thread | external right-hand thread | internal left-hand thread | internal right-hand thread

Feed direction away from the chuck



external right-hand thread | external left-hand thread | internal right-hand thread | internal left-hand thread

Step 2 • Select Holder from Catalog Page

The insert size must match the gage insert size of your toolholder selection:

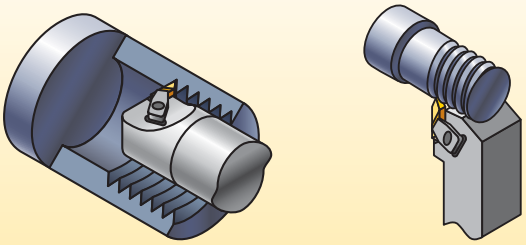
Required Information:

- External/internal operation.
- Minimum bore diameter (for internal operations).
- Hand of tool.
- Insert size (gage insert).

catalog number	gage insert
NSR-163D	N.3R
NSR-164D	N.4R

NOTE: Top Notch toolholders and boring bars are listed with a gage insert to indicate the size and hand required. They are compatible with both grooving and threading inserts of the same size.

Select the appropriate holder for the insert size and hand:

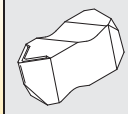


NOTE: Optimize your threading operation by using the proper infeed method and the recommended infeed values.

See the Technical section on pages D82–D105 of this catalog.
For internal threading, minimum bore varies depending on thread type.
See page D96 for details.

Step 3 • Choose Insert for Application

- See threading insert overview on page D10.
- Select cresting inserts for fully controlled thread form including diameter control. Cresting inserts eliminate the need for deburring.
- Non-cresting partial profile inserts can cut a variety of thread pitches.
- Note insert size for toolholder selection.



insert size	catalog number	KCU25/ KC5025	KCU10/ KC5010
2	**NT-2RK**	●	●
3	**NT-3RK**	●	●
4	**NT-4RK**	●	●

Step 4 • Select Grade and Speed

Recommendations for Grade and Speed Selection — m/min (SFM)

workpiece material	steel	stainless steel	cast iron	non-ferrous metals	high-temp alloys
insert style	chip control or neutral	chip control or positive	neutral	positive	positive
optimum cutting conditions	**KCU10/KC5010** 70–260 (240–850)	**KCU10/KC5010** 90–245 (300–800)	**KCU10/KC5010** 60–245 (200–800)	**KC5410** 90–550 (300–1800)	**KCU10/KC5010** 30–150 (100–500)
first choice	**KCU25/KC5025** 50–230 (160–750)	**KCU25/KC5025** 75–230 (250–750)	**KCU25/KC5025** 50–180 (160–600)	**KCU25/KC5025** 60–455 (200–1500)	**KCU25/KC5025** 20–120 (75–400)

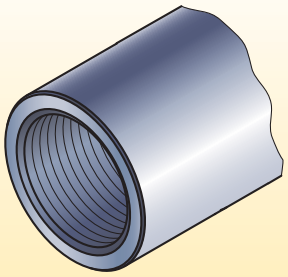
Examples:

Chip Control: NT-K or NT-CK (partial profile only)
Neutral: NT, NT-C, NTF, NTC, NJ, NJF, NDC-V, NA, NDC, NTB-A/B
Positive: NTP, NTK, NJP, NJK

Top Notch Threading Example:

application: 8 TPI Acme internal right-hand thread
material: alloy steel
workpiece diameter: 4.5" (114,3mm) good cutting conditions feed towards the chuck

Recommendation:
insert: NA3L8
grade: KCU10
insert size: 3
boring bar: A40NER3
gage insert: N.3L
speed: 500 SFM (150 m/min)
infeed passes*: 12 passes



*Infeed recommendations provided in technical data section on pages D91–D95.

Recommended Starting Speeds [m/min]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	–	–	135	**200**	260	105	**165**	230	–	–	–
	2	–	–	–	130	**190**	245	100	**150**	200	–	–	–
	3	–	–	–	105	**155**	200	75	**125**	170	–	–	–
	4	–	–	–	70	**120**	160	60	**95**	130	–	–	–
	5	–	–	–	105	**155**	200	75	**130**	170	–	–	–
	6	–	–	–	70	**120**	160	50	**90**	130	–	–	–
M	1	45	**75**	105	120	**180**	245	90	**170**	230	–	–	–
	2	35	**65**	100	90	**165**	210	75	**140**	200	–	–	–
	3	35	**65**	100	90	**165**	210	75	**135**	200	–	–	–
K	1	30	**75**	120	120	**180**	245	90	**135**	180	–	–	–
	2	25	**60**	100	90	**150**	210	70	**120**	170	–	–	–
	3	20	**55**	90	60	**105**	150	50	**85**	120	–	–	–
N	1–2	90	**245**	365	150	**365**	550	120	**305**	455	245	**425**	610
	3	45	**75**	105	90	**135**	180	60	**105**	150	90	**150**	210
	4	60	**120**	180	120	**305**	455	100	**200**	305	120	**305**	455
	5	45	**90**	150	90	**165**	245	70	**135**	195	120	**210**	305
	6	35	**75**	120	120	**210**	305	100	**170**	245	120	**245**	365
S	1	8	**25**	45	30	**70**	105	20	**40**	60	–	–	–
	2	8	**24**	40	30	**65**	100	20	**35**	45	–	–	–
	3	8	**24**	40	30	**65**	100	20	**35**	45	–	–	–
	4	9	**60**	105	55	**105**	150	45	**85**	120	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.

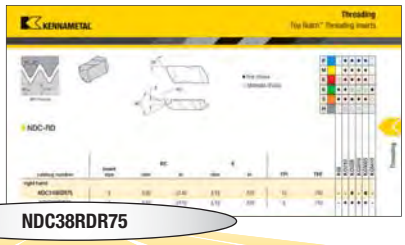
Recommended Starting Speeds [SFM]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	–	–	450	**650**	850	350	**550**	750	–	–	–
	2	–	–	–	430	**630**	800	330	**500**	650	–	–	–
	3	–	–	–	350	**520**	650	250	**420**	550	–	–	–
	4	–	–	–	240	**400**	520	200	**310**	420	–	–	–
	5	–	–	–	350	**520**	650	250	**420**	550	–	–	–
	6	–	–	–	240	**400**	520	160	**300**	420	–	–	–
M	1	150	**250**	350	400	**600**	800	300	**550**	750	–	–	–
	2	120	**220**	320	300	**550**	700	250	**470**	650	–	–	–
	3	120	**220**	320	300	**550**	700	250	**450**	650	–	–	–
K	1	100	**250**	400	400	**600**	800	300	**450**	600	–	–	–
	2	80	**200**	320	300	**500**	700	240	**400**	560	–	–	–
	3	60	**180**	300	200	**350**	500	160	**280**	400	–	–	–
N	1–2	300	**800**	1200	500	**1200**	1800	400	**1000**	1500	800	**1400**	2000
	3	150	**250**	350	300	**450**	600	200	**350**	500	300	**500**	700
	4	200	**400**	600	400	**1000**	1500	320	**660**	1000	400	**1000**	1500
	5	150	**300**	500	300	**550**	800	240	**440**	640	400	**700**	1000
	6	120	**250**	400	400	**700**	1000	320	**560**	800	400	**800**	1200
S	1	25	**90**	150	100	**230**	350	75	**125**	200	–	–	–
	2	25	**80**	130	100	**210**	320	75	**110**	150	–	–	–
	3	25	**80**	130	100	**210**	320	75	**110**	150	–	–	–
	4	30	**200**	350	180	**350**	500	150	**280**	400	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



NDC38RDR75

N	D	C	3	8RD	R	75	
Type of Insert	Insert	Additional Information	Insert Size	Industry Thread Identification	Hand of Insert	Definition of Insert	Additional Information

N — Top Notch*

B — Buttress

F — Fine pitch

S — Stub Acme

C — Cresting

P — Positive rake

K — Fine pitch, positive

Indicates API or drilling industry form designation (e.g., 10RD, 8RD, .038) or controlled root radius threading inserts indicate the root radius in .001" increments (NJ, NJF, NJP, NJK) or M indicates metric ISO thread

R — Right hand

L — Left hand

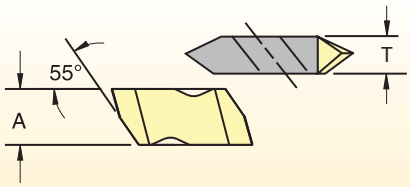
A — Acme

D — API or NPT

J — UNJ thread

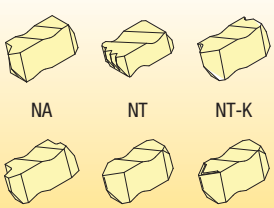
T — 60° V thread

W — 55° V Whitworth



Top Notch insert dimensions

insert size	A		T	
	inch	mm	inch	mm
1	.100	2,54	.100	2,54
2	.219	5,56	.150	3,81
3	.344	8,74	.195	4,95
4	.453	11,51	.255	6,48
5	.688	17,48	.380	9,65
6	.453	11,51	.383	9,73
8	.312	7,93	.438	11,13



- Threads per inch or pitch (for metric)
- "A" or "B" type Buttress insert
- Taper per foot — API threads

I — Internal thread

E — External thread (used only if internal and external thread forms are different)

M — Multiple tooth

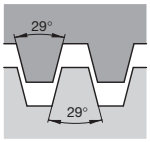
K — Standard chip control

C — Coarse pitch

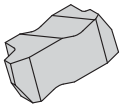
D — Dryseal

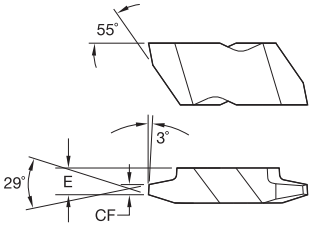
*Kennametal proprietary standard only.

style			thread profile	standard	tolerance class	cresting	application	page(s)
chip control — K	neutral	positive						
NT-K	NT	NTP	Partial Profile 60º	–	–	N	General use for 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D17, D22
NT-CK			Partial Profile 60º — coarse pitch	–	–	N	Coarse pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D19
	NTF	NTK	Partial Profile 60º — fine pitch	–	–	N	Fine pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches — able to thread close to shoulders.	D21
	NTU		Partial Profile 60º — fine pitch	–	–	N	Four-edged insert for 60º partial profile threading — requires NSU-style toolholder for size 4U insert.	D22
	NTC-M		Metric ISO	ISO R262, DIN 13	6g/6H	Y	Widely used metric 60° V-form for all industries.	D19
	NTC		American UN	ANSI B1.1:74	2A/2B	Y	Widely used inch-based 60° V-form for all industries.	D20
	NJ	NJP	UNJ	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries.	D15–D16
	NJF	NJK	UNJ — fine pitch	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries — able to thread close to shoulders.	D15–D16
	NDC-V		NPT	ANSI/ACME B1.201: 1983	Standard NPT	Y	National Pipe Thread standard forms for pipe fittings.	D14
	NDC-V-M		NPT — multitooth	ANSI/ACME B1.201: 1983	Standard NPT	Y	High-productivity multi-tooth threading inserts for NPT threads.	D14
	NWC-E		Whitworth, BSW, BSP	BS 84:1956, ISO 228/1:1982, DIN 259	Medium Class A	Y	Widely used 55° form for gas and water connections.	D23
	ND		API Rotary Shoulder Connections — partial profile	API SPEC. 7:1990	Standard API	N	60º V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms.	D12
	NDC		API Rotary Shoulder Connections — cresting	API SPEC. 7:1990	Standard API	Y	60º V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms — complete cresting form including taper.	D13
	NDC-RD		API Round	API STD. 5B:1979	Standard API RD	Y	60° V-form with large radius for casing, tubing, and line pipe in the oil and gas industry, including 8 and 10 round forms.	D13
	NDC-RD-M		API Round — multitooth	API STD. 5B:1979	Standard API RD	Y	High productivity multitooth threading inserts for API round threads.	D13
	NA		Acme	ANSI B1.5:1988	3G	N	29° truncated thread form for motion applications in a wide variety of industries.	D11
	NAS		Stub Acme	ANSI B1.8:1988	2G	N	Shallow depth 29° truncated thread form for motion applications in a wide variety of industries.	D12
	NTB-A		American Buttress — 7° clearance flank leading (Push)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “A” style when the 7° clearance flank is the leading flank.	D17
	NTB-B		American Buttress — 45° clearance flank leading (Pull)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “B” style when the 45° clearance flank is the leading flank.	D18



Acme



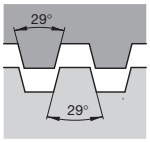


● first choice
○ alternate choice

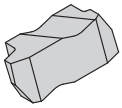
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

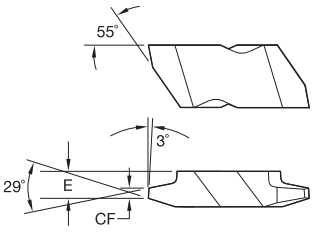
NA

catalog number	insert size	RC mm	RC in	E mm	E in	CF mm	CF in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NA3R10	3	—	—	3,79	.149	0,810	.0319	10	—	–	●	●	●	●	–
NA3R12	3	—	—	3,79	.149	0,719	.0283	12	—	–	●	–	–	●	–
NA3R16	3	—	—	3,79	.149	0,523	.0206	16	—	–	●	–	–	–	–
NA3R4	3	—	—	3,38	.133	2,222	.0875	4	—	–	–	●	●	●	–
NA3R5	3	—	—	3,79	.149	1,750	.0689	5	—	–	●	●	●	●	–
NA3R6	3	—	—	3,79	.149	1,438	.0566	6	—	–	●	●	●	●	–
NA3R8	3	—	—	3,79	.149	1,044	.0411	8	—	–	●	●	●	●	–
NA4R4	4	—	—	5,13	.202	2,223	.0875	4	—	–	–	●	●	●	–
NA4R5	4	—	—	5,13	.202	1,750	.0689	5	—	–	–	–	–	●	–
NA4R6	4	—	—	5,13	.202	1,438	.0566	6	—	–	–	–	–	●	–
NA6R25	6	—	—	7,19	.283	3,635	.1431	2.5	—	–	–	–	–	●	–
NA6R2	6	—	—	7,19	.283	4,577	.1802	2	—	–	●	●	●	●	–
NA6R3	6	—	—	7,19	.283	3,007	.1184	3	—	–	–	●	–	●	–
left hand															
NA3L8	3	—	—	3,79	.149	1,044	.0411	8	—	–	●	●	●	●	–
NA3L10	3	—	—	3,79	.149	0,810	.0319	10	—	–	–	●	–	●	–
NA3L12	3	—	—	3,79	.149	0,719	.0283	12	—	–	–	–	●	●	–
NA3L4	3	—	—	3,38	.133	2,222	.0875	4	—	●	●	●	●	●	–
NA3L5	3	—	—	3,79	.149	1,750	.0689	5	—	–	–	●	●	●	–
NA3L6	3	—	—	3,79	.149	1,438	.0566	6	—	–	–	●	●	●	–
NA4L5	4	—	—	5,13	.202	1,750	.0689	5	—	–	–	–	–	●	–
NA4L6	4	—	—	5,13	.202	1,438	.0566	6	—	–	–	–	–	●	–
NA4L8	4	—	—	5,13	.202	1,044	.0411	8	—	–	–	●	–	–	–
NA4L4	4	—	—	5,13	.202	2,223	.0875	4	—	–	●	–	–	●	–
NA6L3	6	—	—	7,19	.283	3,007	.1184	3	—	–	–	●	–	●	–
NA6L25	6	—	—	7,19	.283	3,635	.1431	2.5	—	–	–	●	–	–	–
NA6L2	6	—	—	7,19	.283	4,577	.1802	2	—	–	–	●	●	●	–
NA3L16	3	—	—	3,79	.149	0,523	.0206	16	—	–	●	–	–	–	–



Stub Acme



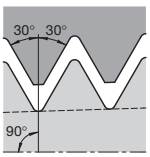


● first choice
○ alternate choice

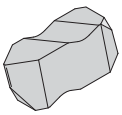
P		●	●	●	●	
M		●	●	●	●	
K	○	●	●	●	●	
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H		○		○		

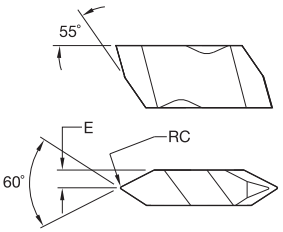
NAS

catalog number	insert size	RC mm	RC in	E mm	E in	CF mm	CF in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NAS3R10	3	—	—	3,79	.149	0,940	.0370	10	—	–	●	–	●	●	–
NAS3R12	3	—	—	3,79	.149	0,828	.0326	12	—	–	–	●	–	●	–
NAS3R16	3	—	—	3,79	.149	0,605	.0238	16	—	–	–	–	–	●	–
NAS3R4	3	—	—	3,79	.149	2,550	.1004	4	—	–	–	●	–	●	–
NAS3R5	3	—	—	3,79	.149	2,014	.0793	5	—	–	●	–	–	●	–
NAS3R6	3	—	—	3,79	.149	1,656	.0652	6	—	–	●	–	●	●	–
NAS3R8	3	—	—	3,79	.149	1,209	.0476	8	—	–	●	●	●	●	–
left hand															
NAS3L10	3	—	—	3,79	.149	0,940	.0370	10	—	–	●	–	–	●	–
NAS3L12	3	—	—	3,79	.149	0,828	.0326	12	—	–	–	–	–	●	–
NAS3L4	3	—	—	3,79	.149	2,550	.1004	4	—	–	–	●	–	●	–
NAS3L5	3	—	—	3,79	.149	2,014	.0793	5	—	–	●	–	–	●	–
NAS3L6	3	—	—	3,79	.149	1,656	.0652	6	—	–	●	●	●	●	–
NAS3L8	3	—	—	3,79	.149	1,209	.0476	8	—	–	●	●	●	●	–



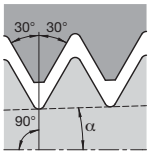
API Rotary Shoulder Connections



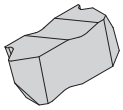


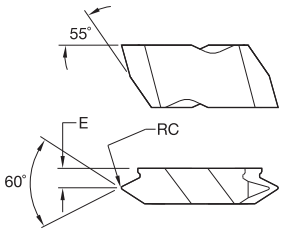
ND • Partial Profile

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
ND3040R	3	0,45	.0175	2,08	.082	5	—	–	–	–	–	●	–
ND3038R	3	0,90	.0355	2,08	.082	4	—	–	–	–	–	●	–
ND4050R	4	0,57	.0225	3,25	.128	4	—	–	–	●	–	–	–
left hand													
ND3038L	3	0,90	.0355	2,08	.082	4	—	–	–	–	–	●	–
ND3040L	3	0,45	.0175	2,08	.082	5	—	–	–	●	–	–	–



α=1/2arctg (tpf/12)
API Rotary Shoulder Connections



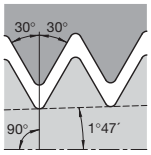


● first choice
○ alternate choice

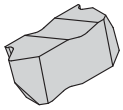
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

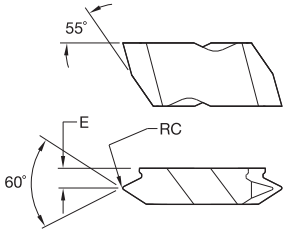
NDC • Cresting

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC3040R3	3	0,45	.0175	3,73	.147	5	3.000	–	–	–	–	●	–
NDC4040R3	4	0,45	.0175	3,73	.147	5	3.000	–	–	–	–	●	–
NDC4050R2	4	0,57	.0225	4,65	.183	4	2.000	–	–	–	–	●	–
NDC4050R3	4	0,57	.0225	4,65	.183	4	3.000	–	–	–	–	●	–
NDC4038R2	4	0,90	.0355	4,65	.183	4	2.000	–	–	–	–	●	–
left hand													
NDC3040L3	3	0,45	.0175	3,73	.147	5	3.000	–	–	–	●	–	–
NDC4050L2	4	0,57	.0225	4,65	.183	4	2.000	–	–	–	–	●	–
NDC4038L2	4	0,90	.0355	4,65	.183	4	2.000	–	–	–	–	●	–



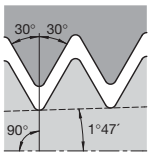
API Round



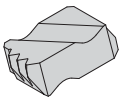


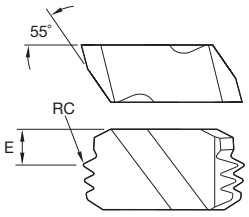
NDC-RD

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC310RDR75	3	0,36	.0140	3,18	.125	10	.750	–	–	–	–	●	–
NDC38RDR75	3	0,43	.0170	3,18	.125	8	.750	–	–	●	●	●	–
left hand													
NDC310RDL75	3	0,36	.0140	3,18	.125	10	.750	–	–	–	–	●	–
NDC38RDL75	3	0,43	.0170	3,18	.125	8	.750	–	–	●	●	●	–



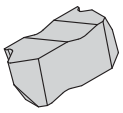
API Round

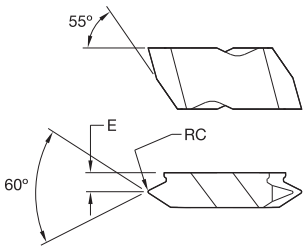




NDC-RD-M • Multitooth

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC68RDR75M	6	0,41	.0160	2,62	.103	8	.750	–	●	–	–	–	–



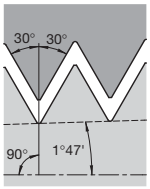


● first choice
○ alternate choice

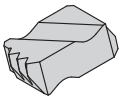
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

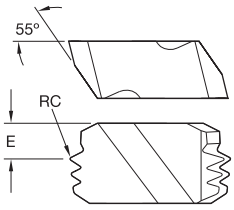
NDC-V

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC327VR75	3	0,05	.0020	3,66	.144	27	.750	–	●	–	–	–	–
NDC314VR75	3	0,08	.0030	3,66	.144	14	.750	–	●	–	–	–	–
NDC3115VR75	3	0,10	.0040	3,66	.144	11.5	.750	–	●	–	●	–	–
NDC38VR75	3	0,13	.0050	2,54	.100	8	.750	–	–	–	●	–	–
left hand													
NDC3115VL75	3	0,10	.0040	3,66	.144	11.5	.750	–	●	–	●	–	–
NDC38VL75	3	0,13	.0050	2,54	.100	8	.750	–	–	–	●	–	–



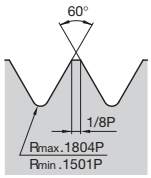
NPT



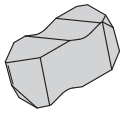


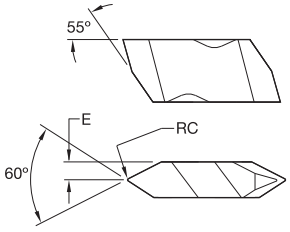
NDC-V-M • Multitooth

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC8115VR75M	8	0,10	.0040	2,59	.102	11.5	.750	–	●	–	–	–	–
NDC88VR75M	8	0,13	.0050	2,41	.095	8	.750	–	●	–	●	–	–
left hand													
NDC88VL75M	8	0,13	.0050	2,41	.095	8	.750	–	–	–	●	–	–



UNJ External



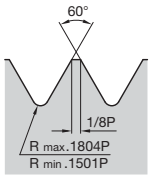


● first choice
○ alternate choice

P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

NJ

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJ3010R16	3	0,25	.0099	2,49	.098	–	–	16	–	●	–	●	–	●	–
NJ3014R12	3	0,33	.0130	2,49	.098	–	–	12	–	–	●	●	●	●	–
NJ3020R8	3	0,49	.0193	2,49	.098	–	–	8	–	–	–	–	●	●	–
left hand															
NJ3010L16	3	0,25	.0099	2,49	.098	–	–	16	–	–	–	–	–	●	–
NJ3014L12	3	0,33	.0130	2,49	.098	–	–	12	–	–	–	–	●	●	–
NJ3020L8	3	0,49	.0193	2,49	.098	–	–	8	–	–	–	–	–	●	–



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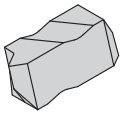
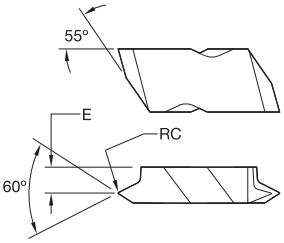
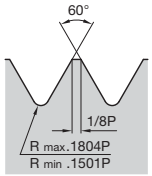


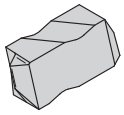


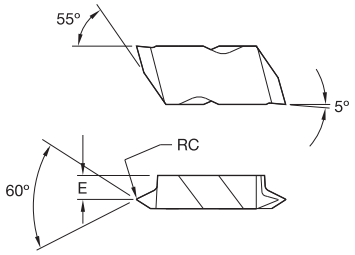
NJF

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJF3005R32	3	0,13	.0052	3,58	.141	–	–	32	–	–	●	–	●	–	–
NJF3006R28	3	0,15	.0059	3,58	.141	–	–	28	–	–	–	–	●	●	–
NJF3007R24	3	0,17	.0068	3,58	.141	–	–	24	–	–	–	–	●	●	–
NJF3008R20	3	0,20	.0078	3,58	.141	–	–	20	–	–	–	–	●	●	–
NJF3009R18	3	0,22	.0088	3,58	.141	–	–	18	–	●	–	●	●	●	–
NJF3010R16	3	0,25	.0099	3,58	.141	–	–	16	–	–	–	–	●	●	–
NJF3012R14	3	0,28	.0112	3,58	.141	–	–	14	–	–	–	●	●	●	–
left hand															
NJF3007L24	3	0,17	.0068	3,58	.141	–	–	24	–	–	–	–	●	–	–
NJF3008L20	3	0,20	.0078	3,58	.141	–	–	20	–	–	–	–	●	–	–
NJF3010L16	3	0,25	.0099	3,58	.141	–	–	16	–	–	–	–	●	–	–



UNJ External



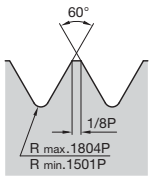


● first choice
○ alternate choice

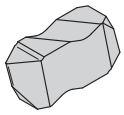
P		●	●	●	●		
M		●	●	●	●		
K	○	●	●	●	●		
N	●	●	○	○	○	●	
S	●	●	●	●	●	○	
H		○		○			

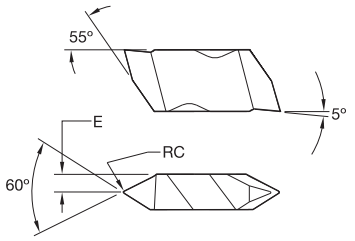
NJK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJK3005R32	3	0,13	.0052	3,58	.141	—	—	32	—	–	–	–	●	●	–
NJK3006R28	3	0,15	.0059	3,58	.141	—	—	28	—	–	–	●	●	–	–
NJK3007R24	3	0,17	.0068	3,58	.141	—	—	24	—	–	–	●	●	●	–
NJK3008R20	3	0,20	.0078	3,58	.141	—	—	20	—	–	●	●	●	●	–
NJK3009R18	3	0,22	.0088	3,58	.141	—	—	18	—	–	–	–	●	●	–
NJK3010R16	3	0,25	.0099	3,58	.141	—	—	16	—	–	–	●	●	●	–
NJK3012R14	3	0,28	.0112	3,58	.141	—	—	14	—	–	–	–	●	●	–
left hand															
NJK3005L32	3	0,13	.0052	3,58	.141	—	—	32	—	–	–	–	–	●	–
NJK3006L28	3	0,15	.0059	3,58	.141	—	—	28	—	–	–	–	–	●	–



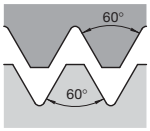
UNJ External



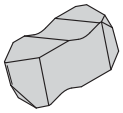


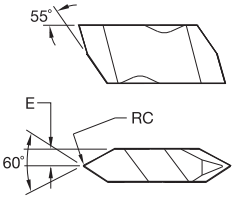
NJP

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJP3010R16	3	0,25	.0099	2,49	.098	—	—	16	—	–	●	–	●	●	–
NJP3014R12	3	0,33	.0130	2,49	.098	—	—	12	—	●	●	●	●	●	–
NJP3020R8	3	0,49	.0193	2,49	.098	—	—	8	—	–	–	●	●	●	–
left hand															
NJP3010L16	3	0,25	.0099	2,49	.098	—	—	16	—	–	–	–	–	●	–
NJP3014L12	3	0,33	.0130	2,49	.098	—	—	12	—	–	–	–	●	–	–
NJP3020L8	3	0,49	.0193	2,49	.098	—	—	8	—	–	–	–	–	●	–



Partial Profile 60°



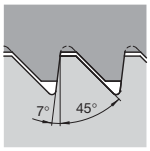


● first choice
○ alternate choice

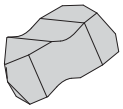
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

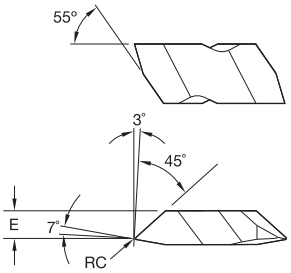
NT

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2R	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–
left hand															
NT2L	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–



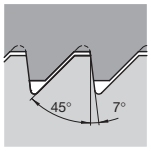
American Buttress-Push



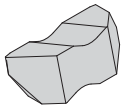


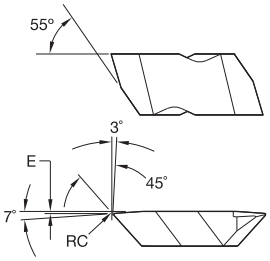
NTB-A

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RA	2	0,08	.0030	3,20	.126	16-20	—	●	–	–	–	–	–
NTB3RA	3	0,17	.0065	4,17	.164	8-16	—	–	●	–	–	●	–
NTB4RA	4	0,25	.0100	5,23	.206	4-6	—	–	●	–	–	–	–
left hand													
NTB3LA	3	0,17	.0065	4,17	.164	8-16	—	●	–	–	●	●	–



American
Buttress-Pull



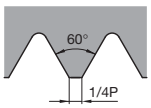


● first choice
○ alternate choice

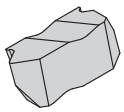
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

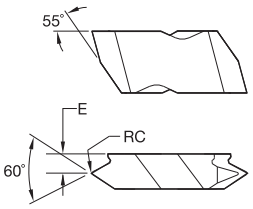
NTB-B

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RB	2	0,08	.0030	0,25	.010	16-20	–	–	–	–	●	–	–
NTB3R12B	3	0,16	.0060	2,49	.098	12	–	–	–	–	●	–	–
NTB3RB	3	0,17	.0065	0,31	.012	8-16	–	●	●	●	●	●	–
NTB4RB	4	0,25	.0100	0,41	.016	4-6	–	–	●	–	●	●	–
left hand													
NTB2LB	2	0,08	.0030	0,25	.010	16-20	–	–	●	–	●	–	–
NTB3L12B	3	0,16	.0060	2,49	.098	12	–	–	–	–	●	–	–
NTB3LB	3	0,17	.0065	0,31	.012	8-16	–	●	●	–	●	●	–
NTB4LB	4	0,25	.0100	0,41	.016	4-6	–	–	–	–	●	●	–



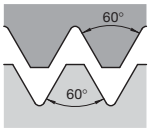
American
UN-Internal



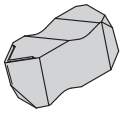


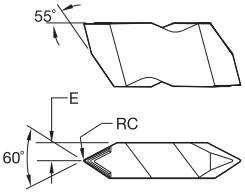
NTC-I

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3R12I	3	0,10	.0040	3,76	.148	–	–	–	12	–	–	–	–	●	–
left hand															
NTC3L12I	3	0,10	.0040	3,76	.148	–	–	–	12	–	–	–	–	●	–
NTC3L14I	3	0,09	.0037	3,76	.148	–	–	–	14	–	–	–	–	●	–
NTC3L16I	3	0,08	.0030	3,76	.148	–	–	–	16	–	–	–	–	●	–
NTC3L8I	3	0,18	.0070	2,72	.107	–	–	–	8	–	–	–	–	●	–
NTC3L10I	3	0,13	.0052	2,72	.107	–	–	–	10	–	–	–	–	●	–



Partial Profile 60°



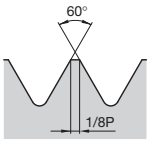


● first choice
○ alternate choice

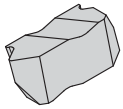
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

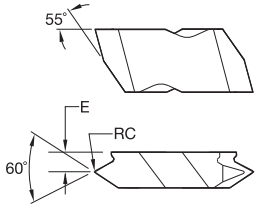
NT-CK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT3RCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4RCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	●	●	–
left hand															
NT3LCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4LCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	–	●	–



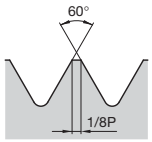
ISO Metric-External



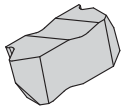


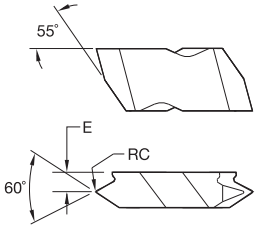
NTC-M-E

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3MR150E	3	0,20	.0080	3,68	.145	1,50	–	–	–	–	●	–	●	●	–
NTC3MR200E	3	0,27	.0106	3,68	.145	2,00	–	–	–	–	–	–	●	–	–



American
UN-External



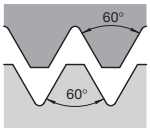


● first choice
○ alternate choice

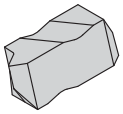
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

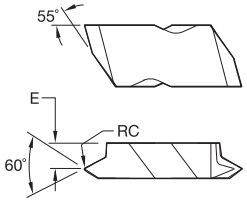
NTC-E

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3R32E	3	0,10	.0040	3,76	.148	—	—	32	—	–	●	–	–	●	–
NTC3R28E	3	0,12	.0046	3,76	.148	—	—	28	—	–	–	–	–	●	–
NTC3R24E	3	0,13	.0053	3,76	.148	—	—	24	—	–	–	–	●	●	–
NTC3R20E	3	0,16	.0062	3,76	.148	—	—	20	—	–	●	–	●	●	–
NTC3R18E	3	0,18	.0070	3,76	.148	—	—	18	—	–	–	●	●	●	–
NTC3R16E	3	0,19	.0075	3,76	.148	—	—	16	—	–	–	–	●	●	–
NTC3R14E	3	0,22	.0088	3,76	.148	—	—	14	—	–	–	–	●	●	–
NTC3R13E	3	0,24	.0096	3,76	.148	—	—	13	—	–	–	–	●	●	–
NTC3R12E	3	0,25	.0100	3,76	.148	—	—	12	—	–	–	●	●	●	–
NTC3R11E	3	0,28	.0111	2,72	.107	—	—	11	—	–	●	–	–	●	–
NTC3R10E	3	0,32	.0124	2,72	.107	—	—	10	—	–	–	–	●	●	–
NTC3R9E	3	0,36	.0140	2,72	.107	—	—	9	—	–	●	–	–	–	–
NTC3R8E	3	0,41	.0160	2,72	.107	—	—	8	—	–	●	–	●	●	–
NTC3R7E	3	0,47	.0186	2,72	.107	—	—	7	—	–	–	–	–	●	–
left hand															
NTC3L16E	3	0,19	.0075	3,76	.148	—	—	16	—	–	●	–	–	–	–
NTC3L12E	3	0,25	.0100	3,76	.148	—	—	12	—	–	●	–	–	–	–
NTC3L10E	3	0,32	.0124	2,72	.107	—	—	10	—	–	●	–	–	–	–
NTC3L8E	3	0,41	.0160	2,72	.107	—	—	8	—	–	–	–	●	–	–



Partial Profile 60°



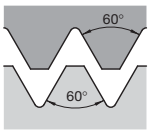


● first choice
○ alternate choice

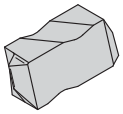
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

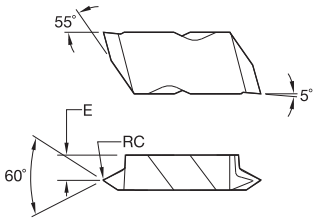
NTF

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTF2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3R	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–
NTF4R	4	0,08	.0030	5,11	.201	0,60-2,5	1,0-2,5	10-44	9-24	–	–	–	–	●	–
left hand															
NTF2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3L	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–



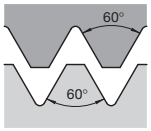
Partial Profile 60°



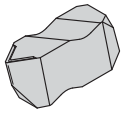


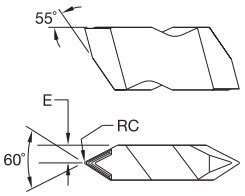
NTK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTK2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3R	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–
left hand															
NTK2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3L	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–



Partial Profile 60°



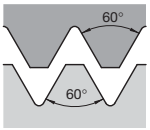


● first choice
○ alternate choice

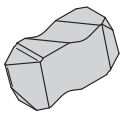
P		●	●	●	●	●	
M		●	●	●	●		
K	○	●	●	●	●		
N	●	●	○	○	○	●	
S	●	●	●	●	●	○	
H		○		○			

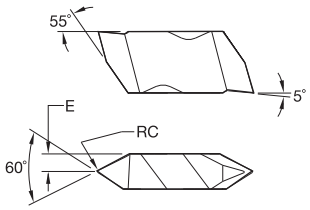
NT-K

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2RK	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3RK	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4RK	4	0,16	.0065	3,24	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
left hand															
NT2LK	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3LK	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4LK	4	0,16	.0065	3,24	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–



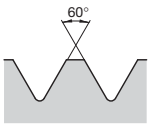
Partial Profile 60°



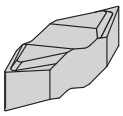


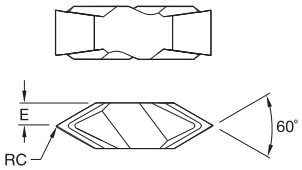
NTP

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTP2R	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	●
NTP4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
left hand															
NTP2L	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NTP4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	–	–	●	●	–



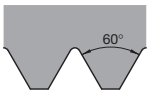
Partial Profile
60° External



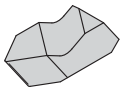


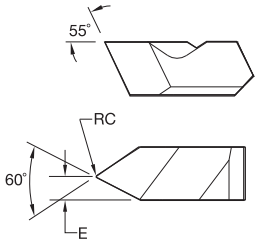
NTU

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTU4R	4U	0,11	.0045	3,18	.125	1,25-6,25	–	4-20	–	–	–	●	–	●	–



Partial Profile
60° Internal



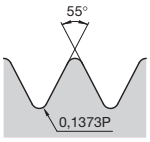


● first choice
○ alternate choice

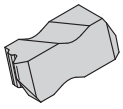
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

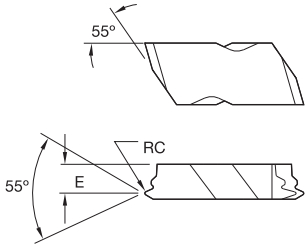
NT-1L

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
left hand															
NT1L	1	0,08	.0030	1,09	.043	–	1,0-2,0	–	12-24	●	●	●	●	●	–



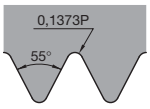
Whitworth BSW,
BSP-External



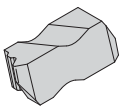


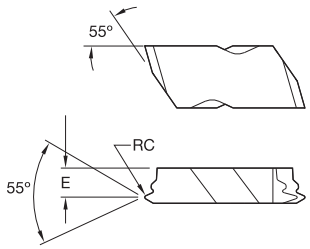
NWC-E

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NWC3R14E	3	0,24	.0093	3,43	.135	14	–	–	–	●	●	–	–
NWC3R11E	3	0,30	.0118	3,43	.135	11	–	–	–	–	●	●	–



Whitworth BSW,
BSP-Internal



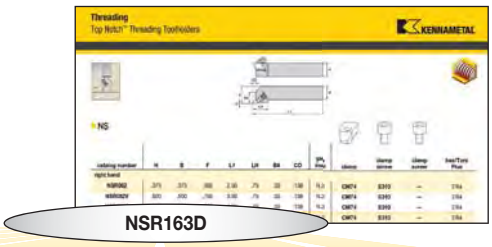


NWC-I

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
left hand													
NWC3L11I	3	0,30	.0118	3,43	.135	11	–	–	–	–	–	●	–

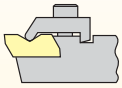
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



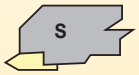
N	S	R		16	3	D
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length

N —
Top Notch

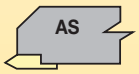


End mount

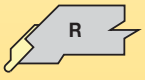
Side mount, offset



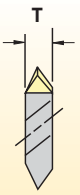
Side mount, no offset for swiss machining



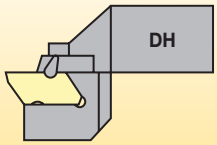
NRR undercut



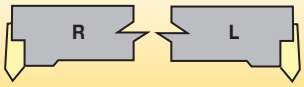
Inch:
For shanks 5/8" square and larger, the number represents the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section is preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.



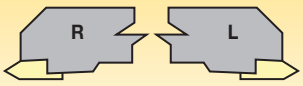
insert size	T
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"



End mount



Side mount



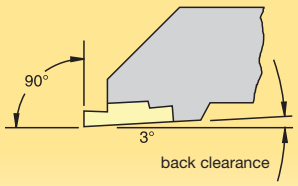
A — Qualified back and end, 4" long

B — Qualified back and end, 4.5" long

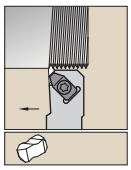
C — Qualified back and end, 5" long

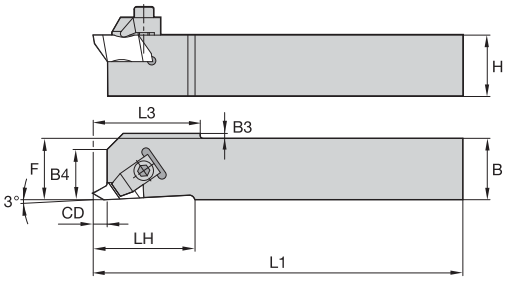
D — Qualified back and end, 6" long

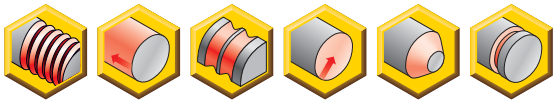
E — Qualified back and end, 7" long



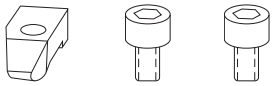
NOTE: Holders are designed to locate insert inclined to 3° to provide back clearance down open side.





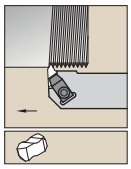


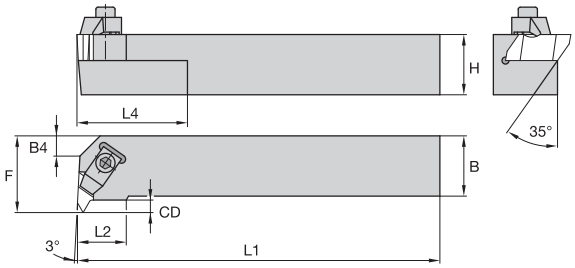
NAS

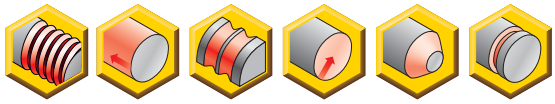


order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1095671	**NASR062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2R	**CM182**	**S310**	**—**	7/64
1095670	**NASR082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2R	**CM182**	**S310**	**—**	7/64
1095576	**NASR102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2R	**CM74**	**S310**	**—**	7/64
1095574	**NASR083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3R	**CM184LP**	**—**	**S2112**	25 IP
1095668	**NASR103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3R	**CM184LP**	**—**	**S2112**	25 IP
left hand															
1095675	**NASL062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2L	**CM183**	**S310**	**—**	7/64
1095674	**NASL082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2L	**CM183**	**S310**	**—**	7/64
1095577	**NASL102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2L	**CM75**	**S310**	**—**	7/64
1095575	**NASL083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3L	**CM185LP**	**—**	**S2112**	25 IP
1095672	**NASL103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3L	**CM185LP**	**—**	**S2112**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.



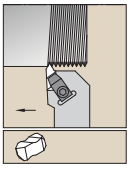


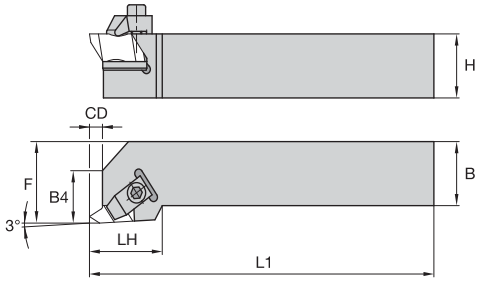


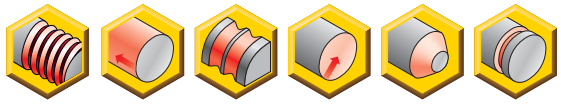
NE

order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand														
1095581	**NER062**	.375	.375	.750	2.50	.50	—	.138	1.000	N.2L	**CM75**	**S310**	**—**	7/64
1097577	**NER082V**	.500	.500	.750	3.50	.50	—	.138	1.000	N.2L	**CM75**	**S310**	**—**	7/64
1097578	**NER102B**	.625	.625	.750	4.50	—	—	.138	1.000	N.2L	**CM75**	**S310**	**—**	7/64
1097559	**NER122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2L	**CM75**	**S310**	**—**	7/64
1097560	**NER162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2L	**CM75**	**S310**	**—**	7/64
1097561	**NER123B**	.750	.750	1.125	4.50	.75	—	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097562	**NER163C**	1.000	1.000	1.250	5.00	.75	—	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097565	**NER163D**	1.000	1.000	1.250	6.00	.75	—	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097563	**NER203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097566	**NER853D**	1.250	1.000	1.250	6.00	.75	—	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097564	**NER243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3L	**CM73LP**	**—**	**S2112**	25 IP
1097567	**NER164C**	1.000	1.000	1.375	5.00	.75	—	.294	2.000	N.4L	**CM73LP**	**—**	**S2112**	25 IP
1097570	**NER164D**	1.000	1.000	1.375	6.00	.75	—	.294	2.000	N.4L	**CM73LP**	**—**	**S2112**	25 IP
1097568	**NER204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4L	**CM73LP**	**—**	**S2112**	25 IP
1097569	**NER244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4L	**CM73LP**	**—**	**S2112**	25 IP
1097575	**NER205D**	1.250	1.250	2.000	6.00	1.44	—	.415	2.000	N.5L	**CM81**	**S352**	**—**	1/4
1097571	**NER206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6L	**CM121**	**S412**	**—**	5/32
left hand														
1095580	**NEL062**	.375	.375	.750	2.50	.50	—	.138	1.000	N.2R	**CM74**	**S310**	**—**	7/64
1097247	**NEL082V**	.500	.500	.750	3.50	.50	—	.138	1.000	N.2R	**CM74**	**S310**	**—**	7/64
1097248	**NEL102B**	.625	.625	.750	4.50	—	—	.138	1.000	N.2R	**CM74**	**S310**	**—**	7/64
1097231	**NEL122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2R	**CM74**	**S310**	**—**	7/64
1097232	**NEL162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2R	**CM74**	**S310**	**—**	7/64
1097233	**NEL123B**	.750	.750	1.125	4.50	.75	—	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097234	**NEL163C**	1.000	1.000	1.250	5.00	.75	—	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097237	**NEL163D**	1.000	1.000	1.250	6.00	.75	—	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097235	**NEL203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097238	**NEL853D**	1.250	1.000	1.250	6.00	.75	—	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097236	**NEL243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3R	**CM72LP**	**—**	**S2112**	25 IP
1097239	**NEL164C**	1.000	1.000	1.375	5.00	.75	—	.294	2.000	N.4R	**CM72LP**	**—**	**S2112**	25 IP
1097242	**NEL164D**	1.000	1.000	1.375	6.00	.75	—	.294	2.000	N.4R	**CM72LP**	**—**	**S2112**	25 IP
1097240	**NEL204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4R	**CM72LP**	**—**	**S2112**	25 IP
1097241	**NEL244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4R	**CM72LP**	**—**	**S2112**	25 IP
1097246	**NEL205D**	1.250	1.250	2.000	6.00	1.44	—	.415	2.000	N.5R	**CM80**	**S352**	**—**	1/4
1097243	**NEL206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6R	**CM120**	**S412**	**—**	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.



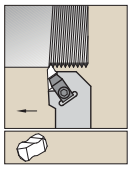


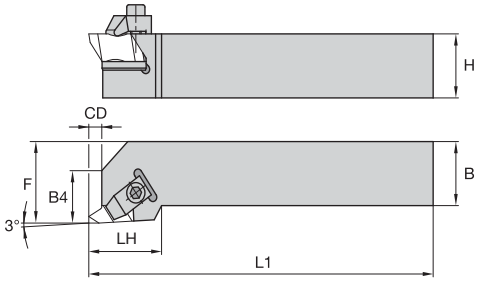


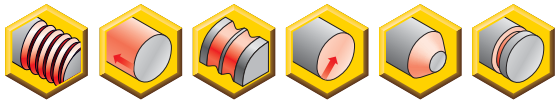
NS

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095583	**NSR062**	.375	.375	.562	2.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097608	**NSR082V**	.500	.500	.750	3.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097609	**NSR102B**	.625	.625	.875	4.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097584	**NSR122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097585	**NSR162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097590	**NSR123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097586	**NSR123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097587	**NSR163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1016462	**NSR163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097588	**NSR203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097591	**NSR853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097589	**NSR243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097596	**NSR243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097601	**NSR205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	**CM80**	**S352**	**–**	1/4
1016474	**NSR245D**	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	**CM80**	**S352**	**–**	1/4
left hand													
1095582	**NSL062**	.375	.375	.562	2.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097278	**NSL082V**	.500	.500	.750	3.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097279	**NSL102B**	.625	.625	.875	4.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097254	**NSL122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097255	**NSL162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097261	**NSL123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097256	**NSL123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097257	**NSL163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097260	**NSL163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097258	**NSL203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097262	**NSL853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097259	**NSL243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097267	**NSL243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097272	**NSL205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	**CM81**	**S352**	**–**	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.



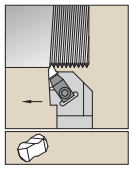


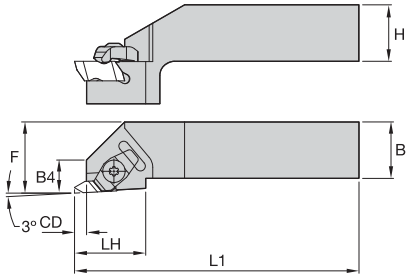


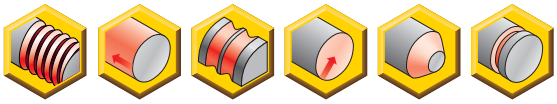
NS (with Shim)

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	shim	shim screw	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1097592	**NSR164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097595	**NSR164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097600	**NSR204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097593	**NSR204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097594	**NSR244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097597	**NSR244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097598	**NSR854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097599	**NSR864E**	1.500	1.000	1.250	7.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097604	**NSR166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097602	**NSR206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097603	**NSR246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097605	**NSR168D**	1.000	1.000	1.250	6.00	1.25	.72	.225	N.8R	**SM419**	**S112**	**CM144**	**S422**	**—**	3/16
left hand															
1097263	**NSL164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097266	**NSL164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097271	**NSL204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097264	**NSL204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097265	**NSL244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097268	**NSL244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097269	**NSL854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097275	**NSL166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32
1097273	**NSL206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32
1097274	**NSL246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32

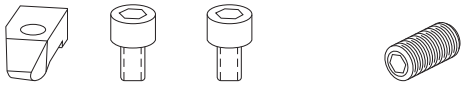
NOTE: F dimension measured over sharp point of N-style threading insert.





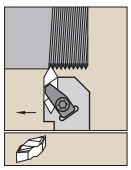


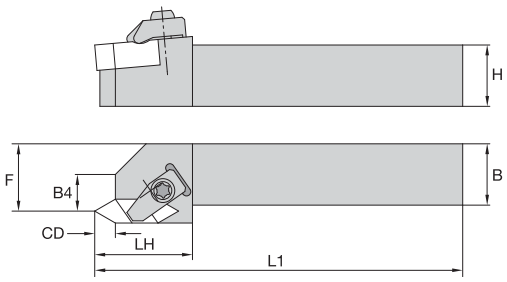
NS-DH

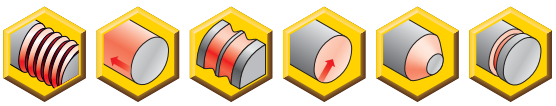


order number	catalog number	H	B	F	L1	L2	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus	jack screw	hex (inch)
right hand															
1097644	**NSRDH122B**	.750	.750	1.000	4.50	.75	.40	.130	N.2R	**CM74**	**S310**	**—**	7/64	**S1020**	**1/8**
1097645	**NSRDH162C**	1.000	1.000	1.250	5.00	.75	.40	.138	N.2R	**CM74**	**S310**	**—**	7/64	**S1020**	**1/8**
1097649	**NSRDH123A**	.750	.750	1.250	4.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097646	**NSRDH163C**	1.000	1.000	1.250	5.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097648	**NSRDH163D**	1.000	1.000	1.250	6.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097647	**NSRDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**S965**	**3/16**
1097650	**NSRDH204D**	1.250	1.250	1.500	6.00	1.38	.62	.294	N.4R	**CM72LP**	**—**	**S2112**	25 IP	**S965**	**3/16**
left hand															
1097681	**NSLDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3L	**CM73LP**	**—**	**S2112**	25 IP	**S965**	**3/16**

NOTE: F dimension measured over sharp point of N-style threading insert.



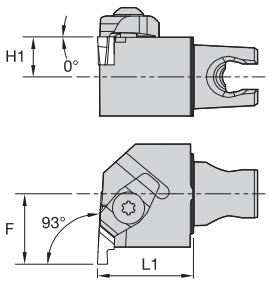


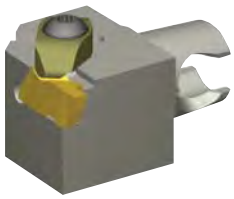


NSU

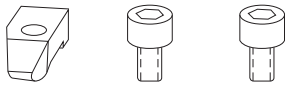
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand												
1097673	**NSUR124C**	.750	.750	.875	5.00	1.25	.50	.240	NTU4R	**CM72LP**	**S2112**	25 IP
1097676	**NSUR164D**	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4R	**CM72LP**	**S2112**	25 IP
left hand												
1097680	**NSUL164D**	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4L	**CM73LP**	**S2112**	25 IP

NOTE: Toolholders only for threading inserts NTU4...
F dimension measured over sharp point of Top Notch style threading insert.

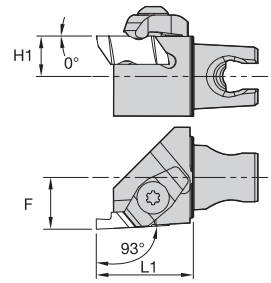




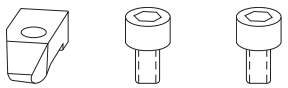
NE 93°



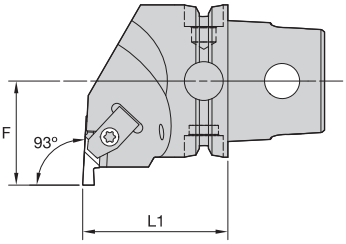
order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	clamp	clamp screw	clamp screw
right hand											
2399462	**KM25NER230**	30	1.181	22	.866	12,5	.492	NG2L	**CM75**	**–**	**MS1200**
2399494	**KM25NER330**	30	1.181	22	.866	12,5	.492	NG3L	**CM73LP**	**MS2111**	**–**
2399496	**KM25NER430**	30	1.181	24	.945	12,5	.492	NG4L	**CM73LP**	**MS2111**	**–**
left hand											
2399495	**KM25NEL330**	30	1.181	22	.866	12,5	.492	NG3R	**CM72LP**	**MS2111**	**–**
2399497	**KM25NEL430**	30	1.181	24	.945	12,5	.492	NG4R	**CM72LP**	**MS2111**	**–**

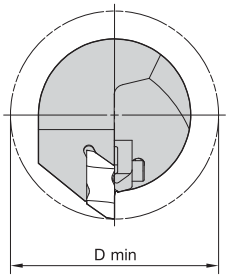


NS 93°



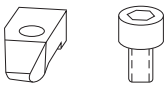
order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	clamp	clamp screw	clamp screw
right hand											
2399498	**KM25NSR230**	30	1.181	16	.630	12,5	.492	NG2R	**CM74**	**–**	**MS1200**
2399500	**KM25NSR330**	30	1.181	16	.630	12,5	.492	NG3R	**CM72LP**	**MS2111**	**–**
left hand											
2399499	**KM25NSL230**	30	1.181	16	.630	12,5	.492	NG2L	**CM75**	**–**	**MS1200**
2399501	**KM25NSL330**	30	1.181	16	.630	12,5	.492	NG3L	**CM73LP**	**MS2111**	**–**
2399503	**KM25NSL430**	30	1.181	16	.630	12,5	.492	NG4L	**CM213LP**	**MS2111**	**–**



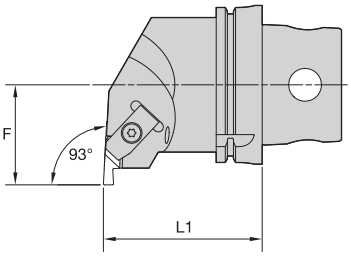


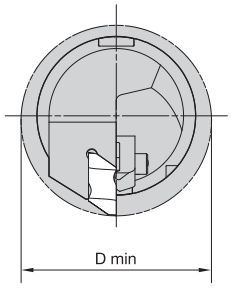
KM QUICK CHANGE

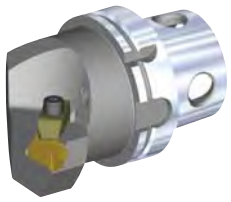
NE 93°



order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
3902285	**KM40TSNER2**	40	1.575	27	1.063	54	2.126	NG2L	**CM75**	**MS1488**	0,30	.66
3902286	**KM40TSNER3**	40	1.575	27	1.063	54	2.126	NG3L	**CM73**	**MS1489**	0,30	.67
3902287	**KM40TSNER4**	40	1.575	27	1.063	54	2.126	NG4L	**CM73**	**MS1489**	0,30	.65
left hand												
3902132	**KM40TSNEL2**	40	1.575	27	1.063	54	2.126	NG2R	**CM74**	**MS1488**	0,30	.66
3902283	**KM40TSNEL3**	40	1.575	27	1.063	54	2.126	NG3R	**CM-72**	**MS1489**	0,30	.67
3902284	**KM40TSNEL4**	40	1.575	27	1.063	54	2.126	NG4R	**CM-72**	**MS1489**	0,30	.65



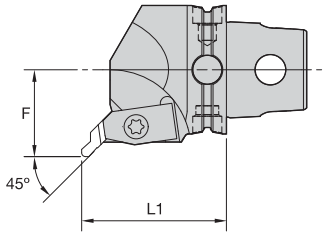


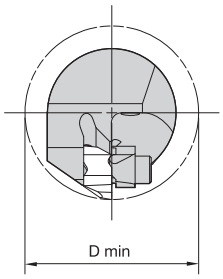


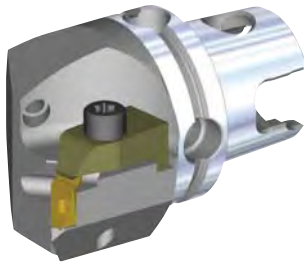
NE

order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
5337758	**KM4X100NER3**	100	3.937	63	2.480	120	4.724	NG3L	**CM73**	**MS1489**	4,45	9.80
5337759	**KM4X100NER4**	100	3.937	63	2.480	120	4.724	NG4L	**CM73**	**MS1489**	4,51	9.93
5337770	**KM4X100NER5**	100	3.937	63	2.480	120	4.724	NG5L	**CM81**	**MS1490**	4,65	10.25
5337771	**KM4X100NER6**	100	3.937	63	2.480	120	4.724	NG6L	**CM121**	**MS1489**	4,48	9.88
left hand												
5337754	**KM4X100NEL3**	100	3.937	63	2.480	120	4.724	NG3R	**CM-72**	**MS1489**	4,45	9.80
5337755	**KM4X100NEL4**	100	3.937	63	2.480	120	4.724	NG4R	**CM-72**	**MS1489**	4,51	9.93
5337756	**KM4X100NEL5**	100	3.937	63	2.480	120	4.724	NG5R	**CM80**	**MS1490**	4,65	10.25
5337757	**KM4X100NEL6**	100	3.937	63	2.480	120	4.724	NG6R	**CM120**	**MS1489**	4,48	9.88

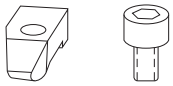
KM QUICK CHANGE





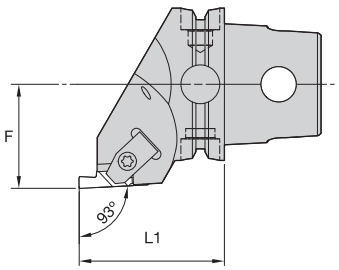


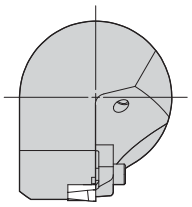
NR 45°



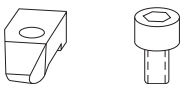
order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
3902289	**KM40TSNRR3045M**	45	1.772	27	1.063	54	2.126	NU3L	**CM73**	**MS1489**	0,34	.75
left hand												
3902288	**KM40TSNRL3045M**	45	1.772	27	1.063	54	2.126	NU3R	**CM-72**	**MS1489**	0,33	.74

KM QUICK CHANGE





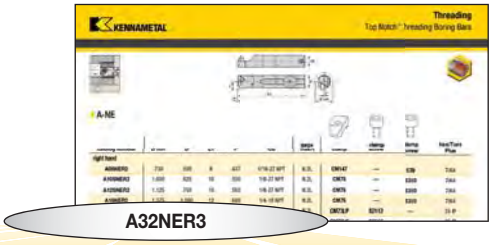
NS 93°

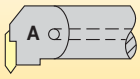
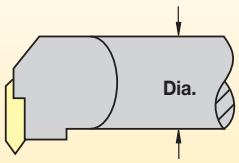
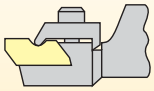
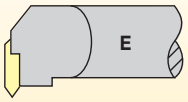
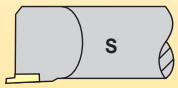
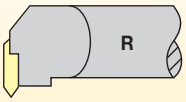
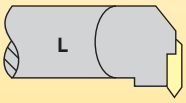
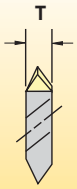


order number	catalog number	L1 mm	L1 in	F mm	F in	gage insert	clamp	clamp screw	kg	lbs
right hand										
3902293	**KM40TSNSR2**	40	1.575	27	1.063	NG2R	**CM74**	**MS1488**	0,32	.70
3902294	**KM40TSNSR3**	47	1.850	27	1.063	NG3R	**CM-72**	**MS1489**	0,32	.71
3902295	**KM40TSNSR4**	47	1.850	27	1.063	NG4R	**CM-72**	**MS1489**	0,30	.66
left hand										
3902290	**KM40TSNSL2**	40	1.575	27	1.063	NG2L	**CM75**	**MS1488**	0,32	.70
3902291	**KM40TSNSL3**	47	1.850	27	1.063	NG3L	**CM73**	**MS1489**	0,33	.72
3902292	**KM40TSNSL4**	47	1.850	27	1.063	NG4L	**CM73**	**MS1489**	0,30	.66

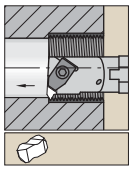
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

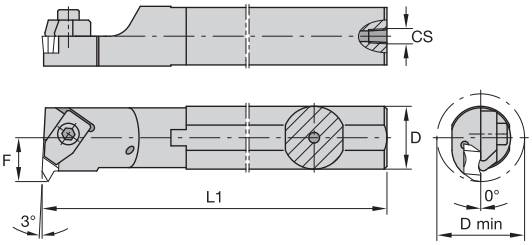


A	32	N	E	R	3
Bar Type	Bar Diameter	Insert Holding Method	Insert Location	Hand of Tool	Insert Size
Steel with coolant 	A two-digit number that indicates the bar diameter in 1/16" increments. 	**N** — Top Notch*  *Proprietary standard only.	**E** = End mount  **S** = Side mount 	**R** = Right hand  **L** = Left hand 	

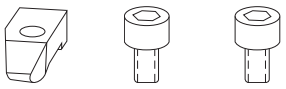
insert size	T
1	.100"
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"



Steel shank with through coolant.

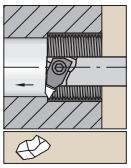


A-NE

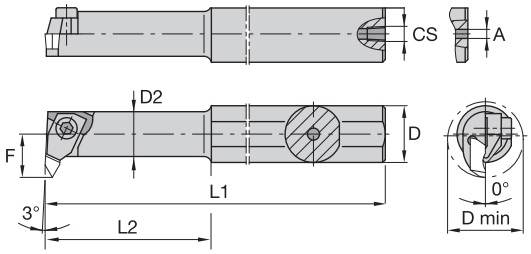


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp	clamp	hex (inch)/ Torx Plus
right hand											
1094824	**A08NER2**	.730	.500	8	.437	1/16-27 NPT	N.2L	**CM147**	**—**	**S39**	7/64
1094829	**A10SNER2**	1.000	.625	10	.500	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094831	**A12SNER2**	1.125	.750	10	.562	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094833	**A16TNER2**	1.375	1.000	12	.688	1/4-18 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094835	**A16NER3**	1.375	1.000	12	.688	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094837	**A20NER3**	1.750	1.250	14	.875	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094839	**A24NER3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094841	**A28NER3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094843	**A32NER3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094845	**A40NER3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094847	**A28NER4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094849	**A32NER4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094853	**A40NER4**	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094859	**A32NER6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	**CM121**	**S2112**	**—**	5/32
left hand											
1094825	**A08NEL2**	.730	.500	8	.437	1/16-27 NPT	N.2R	**CM146**	**—**	**S39**	7/64
1094830	**A10SNEL2**	1.000	.625	10	.500	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094832	**A12NEL2**	1.125	.750	10	.562	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094834	**A16TNEL2**	1.375	1.000	12	.688	1/4-18 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094836	**A16NEL3**	1.375	1.000	12	.688	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094838	**A20NEL3**	1.750	1.250	14	.875	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094840	**A24NEL3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094842	**A28NEL3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094844	**A32NEL3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094846	**A40NEL3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094848	**A28NEL4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094850	**A32NEL4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094856	**A32NEL5**	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	**CM80**	**—**	**S352**	1/4
1094860	**A32NEL6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	**CM120**	**S2112**	**—**	5/32

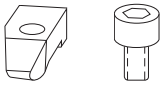
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Necked steel shank with through coolant.

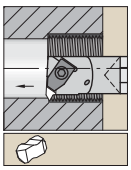


A-NE -1

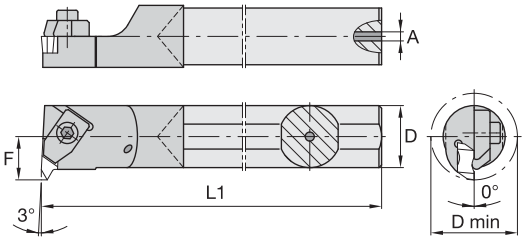


order number	catalog number	D min	D	D2	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex/ Torx Plus
right hand													
1094826	**A06NER1**	.440	.375	—	6	1.25	.258	.13	—	N.1L	**CM109**	**S304**	5/64
1094827	**A08NER1**	.440	.500	.372	8	1.29	.258	.09	1/16-27 NPT	N.1L	**CM109**	**S304**	5/64
1094828	**A10NER1**	.800	.625	—	10	—	.406	—	1/8-27 NPT	N.1L	**CM109**	**S304**	5/64

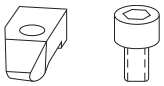
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Carbide shank with through coolant.

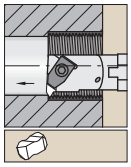


E-NE

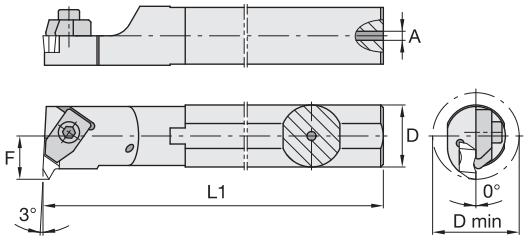


order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1152688	**E08NER2**	.730	.500	8	.437	.19	N.2L	**CM147**	**S39**	7/64
1152606	**E10NER2**	1.000	.625	10	.500	.22	N.2L	**CM75**	**S310**	7/64
1152608	**E12NER2**	1.125	.750	10	.562	.28	N.2L	**CM75**	**S310**	7/64
1152610	**E16NER3**	1.375	1.000	12	.688	.31	N.3L	**CM73**	**S412**	25 IP
left hand										
1152689	**E08NEL2**	.730	.500	8	.437	.19	N.2R	**CM146**	**S39**	7/64
1152607	**E10NEL2**	1.000	.625	10	.500	.22	N.2R	**CM74**	**S310**	7/64
1152609	**E12NEL2**	1.125	.750	10	.562	.28	N.2R	**CM74**	**S310**	7/64
1152611	**E16NEL3**	1.375	1.000	12	.688	.31	N.3R	**CM-72**	**S412**	25 IP

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



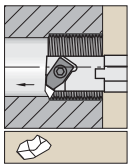
Heavy metal shank with through coolant.



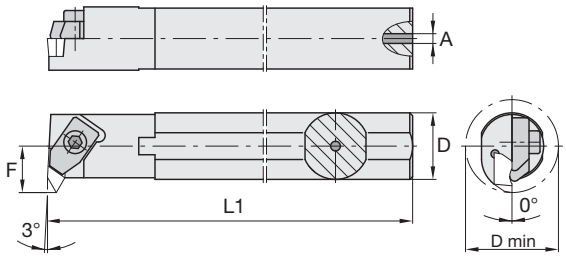
L-NE

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331091	**L08RNER2**	.730	.500	8	.432	.16	N.2L	**CM147**	**–**	**S39**	7/64
3331103	**L10RNER2**	1.000	.625	8	.495	.16	N.2L	**CM75**	**–**	**S310**	7/64
3331092	**L12RNER2**	1.125	.750	8	.557	.16	N.2L	**CM75**	**–**	**S310**	7/64
3331105	**L16SNER3**	1.375	1.000	10	.683	.25	N.3L	**CM73LP**	**S2112**	**–**	25 IP
left hand											
3331084	**L08RNEL2**	.730	.500	8	.432	.16	N.2R	**CM146**	**–**	**S39**	7/64

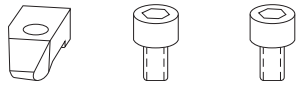
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Heavy metal shank with through coolant.

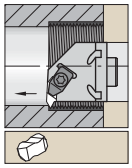


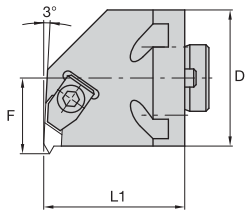
L-NE-S

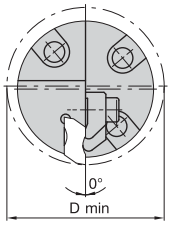


order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331089	**L08RNER1S**	.600	.500	8	.325	.16	NG1L	**CM109**	**S304**	**–**	5/64
3331090	**L05MNER1S**	.440	.310	6	.258	.09	N.1L	**CM109**	**S304**	**–**	5/64
3331088	**L06MNER1S**	.480	.370	6	.265	.13	N.1L	**CM109**	**S304**	**–**	5/64

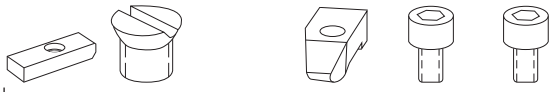
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.





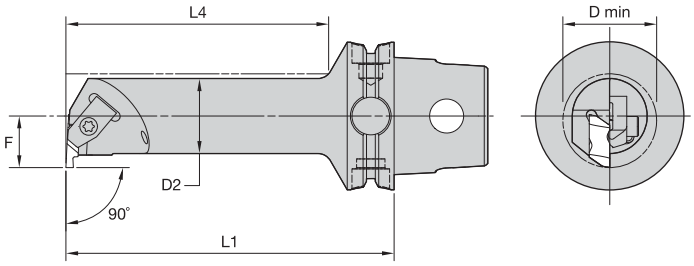


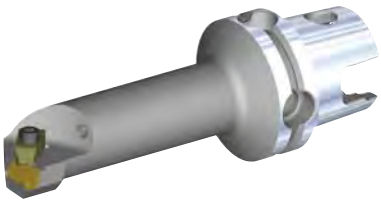
H-NE



order number	catalog number	D min	D	F	L1	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095314	**H20NER3W**	1.750	1.250	.875	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095362	**H24NER3W**	2.000	1.500	1.000	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095418	**H28NER3W**	2.250	1.750	1.125	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095456	**H32NER3W**	2.500	2.000	1.250	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095533	**H40NER3W**	3.000	2.500	1.500	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095421	**H28NER4W**	2.500	1.750	1.250	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095458	**H32NER4W**	2.750	2.000	1.375	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095516	**H36NER4W**	3.000	2.250	1.500	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095535	**H40NER4W**	3.250	2.500	1.625	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095452	**H28NER6W**	2.500	1.750	1.250	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095512	**H32NER6W**	2.750	2.000	1.375	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095571	**H40NER6W**	3.250	2.500	1.625	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095367	**H24NER8W**	2.000	1.500	1.000	1.625	N.8L	**SM427**	**S111**	1/16	**CM145**	**–**	**S422**	3/16
left hand													
1095315	**H20NEL3W**	1.750	1.250	.875	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095363	**H24NEL3W**	2.000	1.500	1.000	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095419	**H28NEL3W**	2.250	1.750	1.125	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095457	**H32NEL3W**	2.500	2.000	1.250	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095534	**H40NEL3W**	3.000	2.500	1.500	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095459	**H32NEL4W**	2.750	2.000	1.375	1.625	N.4R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095536	**H40NEL4W**	3.250	2.500	1.625	1.625	N.4R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP

NOTE: For boring adapters, see pages B406–B409.
Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.





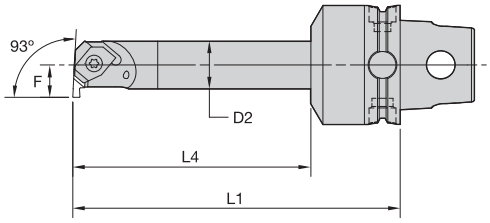
KM QUICK CHANGE

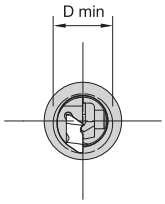
NE 90° • Steel

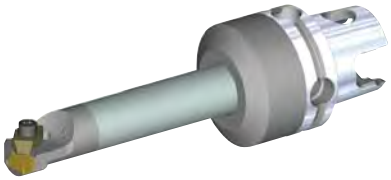
order number	catalog number	D2 mm	D2 in	D min mm	D min in	F mm	F in	L4 mm	L4 in	L1 mm	L1 in	gage insert	kg	lbs
right hand														
3955481	KM40TSS12ENER2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2L	0,27	.58
3955483	KM40TSS16FNER2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2L	0,28	.62
3955485	KM40TSS20GNER2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2L	0,35	.76
3955487	KM40TSS25ENER2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2L	0,34	.75
3955491	KM40TSS25ENER3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3L	0,35	.77
3955489	KM40TSS25HNER2	25	.984	32	1.26	17	.669	75	2.954	100	3.937	NG2L	0,49	1.08
3955493	KM40TSS25HNER3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3L	0,49	1.09
3955497	KM40TSS32GNER3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3L	0,55	1.21
3955495	KM40TSS32JNER3	32	1.260	40	1.57	22	.866	96	3.780	110	4.331	NG3L	0,67	1.48
left hand														
3955480	KM40TSS12ENEL2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2R	0,27	.59
3955482	KM40TSS16FNEL2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2R	0,28	.62
3955484	KM40TSS20GNEL2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2R	0,35	.76
3955486	KM40TSS25ENEL2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2R	0,34	.75
3955490	KM40TSS25ENEL3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3R	0,35	.77
3955492	KM40TSS25HNEL3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3R	0,49	1.09
3955496	KM40TSS32GNEL3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3R	0,55	1.21

Spare Parts

catalog number	clamp	clamp
right hand		
KM40TSS12ENER2	CM147	MS1488
KM40TSS16FNER2	CM147	MS1488
KM40TSS20GNER2	CM75	MS1488
KM40TSS25ENER2	CM75	MS1488
KM40TSS25ENER3	CM73	MS1489
KM40TSS25HNER2	CM75	MS1488
KM40TSS25HNER3	CM73	MS1489
KM40TSS32GNER3	CM73	MS1489
KM40TSS32JNER3	CM73	MS1489
left hand		
KM40TSS12ENEL2	CM146	MS1488
KM40TSS16FNEL2	CM146	MS1488
KM40TSS20GNEL2	CM74	MS1488
KM40TSS25ENEL2	CM74	MS1488
KM40TSS25ENEL3	CM-72	MS1489
KM40TSS25HNEL3	CM-72	MS1489
KM40TSS32GNEL3	CM-72	MS1489





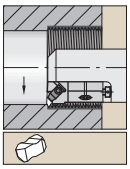


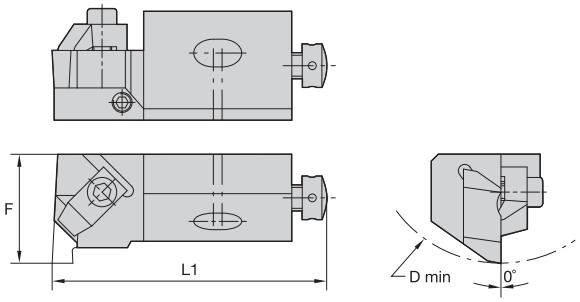
NE 90° • Carbide

order number	catalog number	D2 mm	D2 in	D min mm	D min in	F mm	F in	L4 mm	L4 in	L1 mm	L1 in	gage insert	kg	lbs
right hand														
3951836	KM40TSE16JNER2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2L	0,41	.90
left hand														
3951835	KM40TSE16JNEL2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2R	0,41	.90

Spare Parts

catalog number	clamp	clamp screw
right hand		
KM40TSE16JNER2	CM146	MS1488
left hand		
KM40TSE16JNEL2	CM147	MS1488



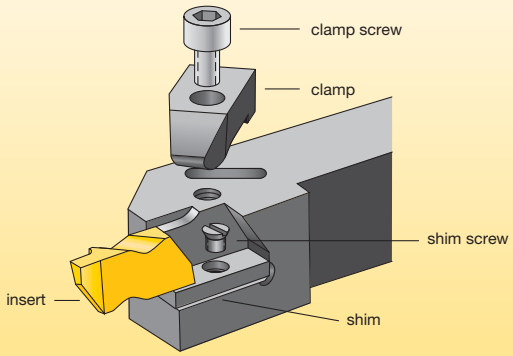


Steel Boring Cartridge • Inch

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	hex	washer	hold down screw
right hand														
1098380	**NER12CA2**	1.969	.787	2.19	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
left hand														
1098624	**NEL12CA2**	1.969	.787	2.17	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
1098626	**NEL25CA3**	3.937	1.260	3.94	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	6 mm	**CSWM 100 080**	**–**

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.

Toolholders and Boring Bars



insert size and style	clamp	clamp screw	shim	shim screw
NG-1L	CM-109	S-304	–	–
NG-2R	CM-182	S-310	–	–
NG-2L	CM-183	S-310	–	–
NG-2R	CM-74	S-310	–	–
NG-2L	CM-75	S-310	–	–
NG-3R	CM-184	S-412	–	–
NG-3L	CM-185	S-412	–	–
NG-3R	CM-72	S-412	–	–
NG-3L	CM-73	S-412	–	–
NG-3R*	CM-78	S-412	–	–
NG-3L*	CM-70	S-412	–	–
NG-4R	CM-72	S-412	SM-420	SL-344
NG-4L	CM-73	S-412	SM-420	SL-344
NG-5R	CM-80	S-352	–	–
NG-5L	CM-81	S-352	–	–
NG-6R	CM-120	S-412	SM-416	S-111
NG-6L	CM-121	S-412	SM-416	S-111
NG-8R	CM-144	S-422	SM-419	S-112
NG-8L	CM-145	S-422	SM-419	S-112
NG-8R**	CM-144	S-422	SM-427	S-111
NG-8L**	CM-145	S-422	SM-427	S-111
Top Notch relief grooving				
NU-3125R	CM-72	S-412	–	–
NU-3125L	CM-73	S-412	–	–
NU-3125R**	CM-72	S-618	–	–
NU-3125L**	CM-73	S-618	–	–

*25mm diameter boring head.
**Boring head.

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LT • Laydown Triangle Threading

Primary Application

Laydown triangle (LT) threading is the system of choice for fine-pitch threads, high-helix/multistart threads, and single-point threading in small-diameter bores. With a wide selection of CB-style chip control inserts, you will receive superior chip management for excellent surface finishes and minimal operator intervention. The low-profile design enables unrestricted chip flow — ideal for I.D. threads. Variable shim angles enable proper cutting geometry for high-helix angle and reverse helix angle threading, maximizing tool life and improving thread quality.

Features and Benefits

Precision-Ground Thread Form on LT and LT-CB

- Minimizes built-up edge.
- Precisely cuts most common materials.
- Reduces cutting forces.
- Ensures accurate, high-quality threads.

KC5010™ and KC5025™ Premium PVD TiAlN-Coated Grades

- Increase tool life at existing machining conditions.
- Increase productivity by outperforming conventional PVD grades with up to a 30% advantage in cutting speeds.

Superior Chip Control

- Eliminates long, troublesome coils.
- Excellent for internal threading operations.
- Available in both partial and full profile inserts for all common thread forms.

Kenna Universal™ Inserts

- Precision molded LT-K thread form provides outstanding utility and value.
- Excellent chip control combined with grade KU25T™ enables trouble-free threading on a variety of workpiece materials.

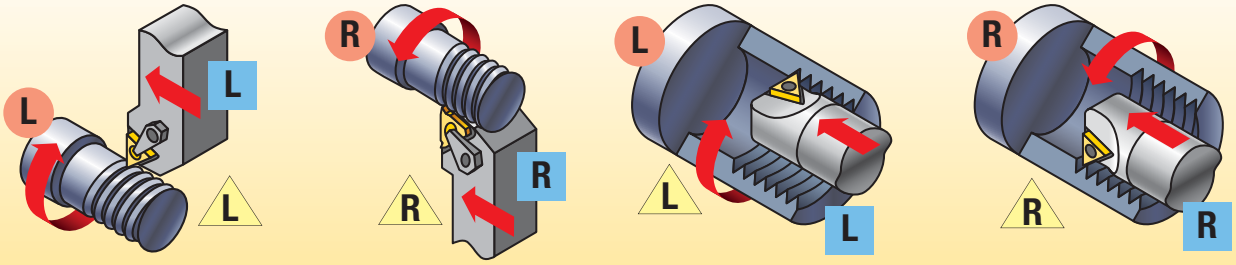
KENNAMETAL

Step 1 • Select Threading Method and Hand of Tooling

Required Information:
- External/internal operation.
- Spindle rotation/hand of thread.
- Feed direction.

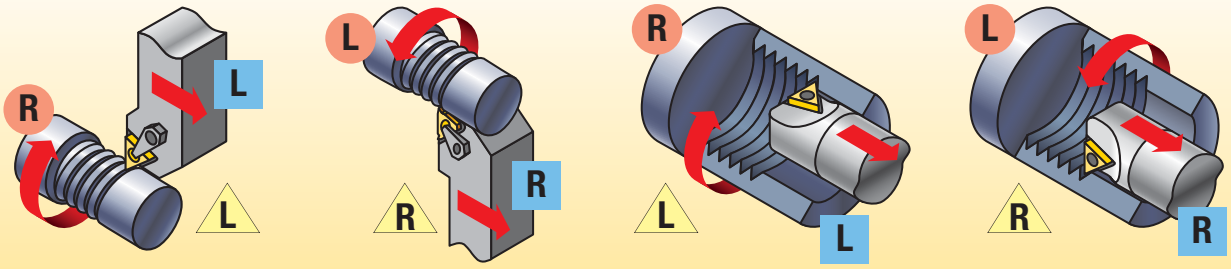
hand of thread | hand of toolholder | hand of insert

Feed direction toward the chuck • standard helix • RECOMMENDED



external left-hand thread | external right-hand thread | internal left-hand thread | internal right-hand thread

Feed direction away from the chuck • reverse helix*



external right-hand thread | external left-hand thread | internal right-hand thread | internal left-hand thread

**Negative shim required*

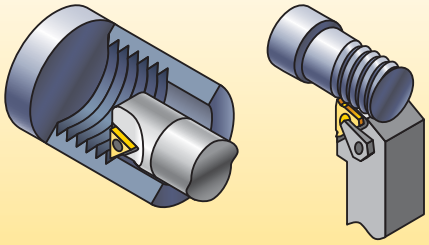
Step 2 • Select Holder from Catalog Page

Required Information:
- External/internal operation.
- Minimum bore diameter (for internal operations).
- Hand of tool.
- Insert size (gage insert).

The insert size must match the gage insert size of your toolholder selection:

catalog number	gage insert	minimum bore diameter	shim
S1212LSER3	LT16NR	.90"	SM-YI3
A2020LSER16	LT16NR	16mm	SM-YI3

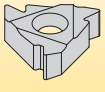
Select the appropriate holder for the insert size and hand:



Step 3 • Choose Insert for Application

- Select cresting inserts for fully controlled thread form including diameter.
- Cresting inserts eliminate the need for deburring and are optimized for the best tool life at that pitch.
- Non-cresting partial profile inserts offer the flexibility to cut a variety of thread pitches with one insert.
- Note insert size for toolholder selection.

NOTE: See threading insert overview on page D50.



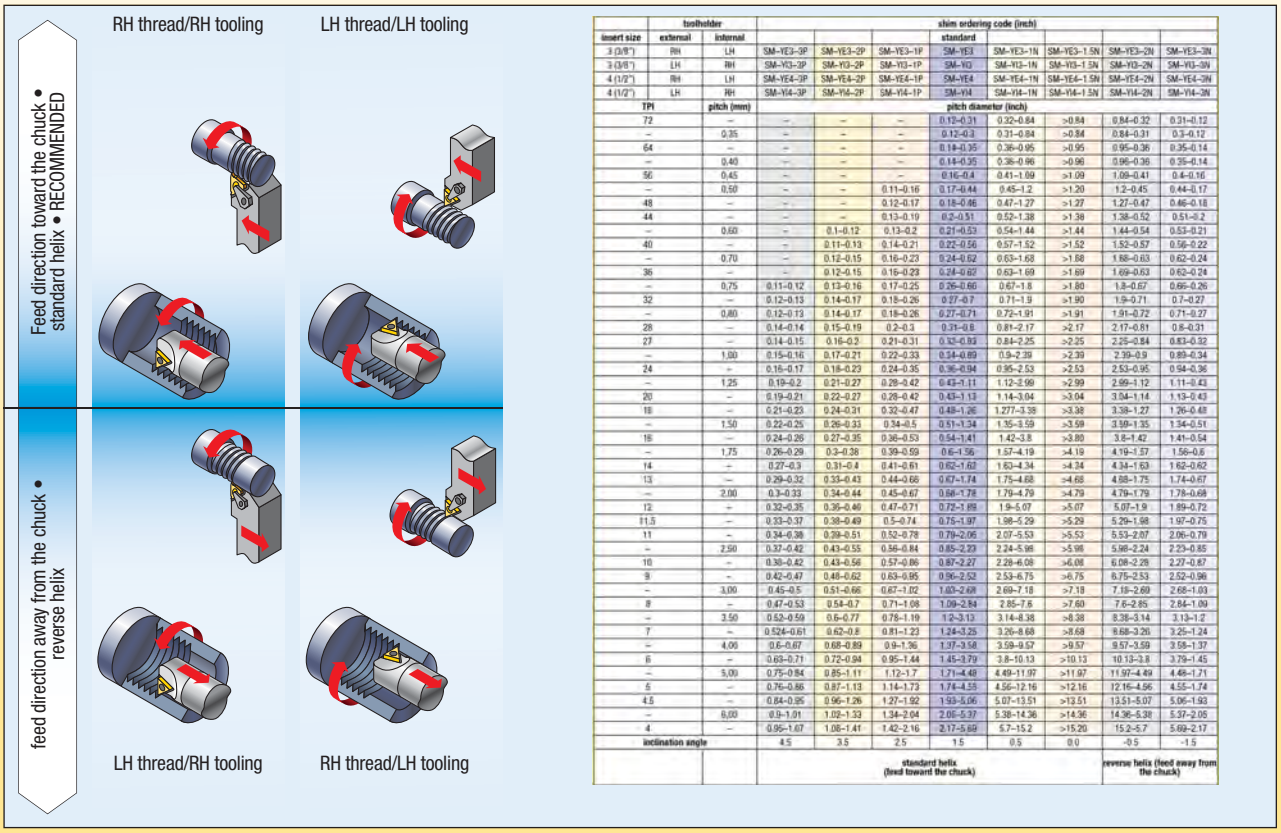
insert size	catalog number	KCU25/KC5025
11	**LT11NRA60**	•
16	**LT6NRAG60**	•

Step 4 • Select Appropriate Shim

Required Information:

- Thread form (TPI or pitch).
- Pitch diameter.
- Helix method (hand of tool, feed direction, hand of thread).
- Number of starts.

Select the proper shim: SMYE... for external RH or internal LH
SMYI... for internal RH or external LH



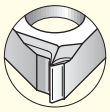
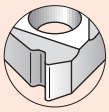
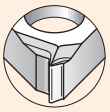
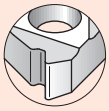
insert size	toolholder external	toolholder internal	shim ordering code (inch)							
						standard				
3 (3/8")	RH	LH	SM-YE3-3P	SM-YE3-2P	SM-YE3-1P	SM-YE3	SM-YE3-1N	SM-YE3-1.5N	SM-YE3-2N	SM-YE3-3N
3 (3/8")	LH	RH	SM-YI3-3P	SM-YI3-2P	SM-YI3-1P	SM-YI3	SM-YI3-1N	SM-YI3-1.5N	SM-YI3-2N	SM-YI3-3N
4 (1/2")	RH	LH	SM-YE4-3P	SM-YE4-2P	SM-YE4-1P	SM-YE4	SM-YE4-1N	SM-YE4-1.5N	SM-YE4-2N	SM-YE4-3N
4 (1/2")	LH	RH	SM-YI4-3P	SM-YI4-2P	SM-YI4-1P	SM-YI4	SM-YI4-1N	SM-YI4-1.5N	SM-YI4-2N	SM-YI4-3N
TPI		pitch (mm)	pitch diameter (inch)							
72		–	–	–	–	0.12–0.31	0.32–0.84	>0.84	0.84–0.32	0.31–0.12
–		0.35	–	–	–	0.12–0.3	0.31–0.84	>0.84	0.84–0.31	0.3–0.12
64		–	–	–	–	0.19–0.35	0.36–0.95	>0.95	0.95–0.36	0.35–0.14
–		0.40	–	–	–	0.14–0.35	0.36–0.96	>0.96	0.96–0.36	0.35–0.14
56		0.45	–	–	–	0.16–0.4	0.41–1.09	>1.09	1.09–0.41	0.4–0.16
–		0.50	–	–	0.11–0.16	0.17–0.44	0.45–1.2	>1.20	1.2–0.45	0.44–0.17
48		–	–	–	0.12–0.17	0.18–0.46	0.47–1.27	>1.27	1.27–0.47	0.46–0.18
44		–	–	–	0.13–0.19	0.2–0.51	0.52–1.38	>1.38	1.38–0.52	0.51–0.2
–		0.60	–	0.1–0.12	0.13–0.2	0.21–0.53	0.54–1.44	>1.44	1.44–0.54	0.53–0.21
40		–	–	0.11–0.13	0.14–0.21	0.22–0.56	0.57–1.52	>1.52	1.52–0.57	0.56–0.22
–		0.70	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.68	>1.68	1.68–0.63	0.62–0.24
36		–	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.69	>1.69	1.69–0.63	0.62–0.24
–		0.75	0.11–0.12	0.13–0.16	0.17–0.25	0.26–0.66	0.67–1.8	>1.80	1.8–0.67	0.66–0.26
32		–	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.7	0.71–1.9	>1.90	1.9–0.71	0.7–0.27
–		0.80	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.71	0.72–1.91	>1.91	1.91–0.72	0.71–0.27
28		–	0.14–0.14	0.15–0.19	0.2–0.3	0.31–0.8	0.81–2.17	>2.17	2.17–0.81	0.8–0.31
27		–	0.14–0.15	0.16–0.2	0.21–0.31	0.32–0.83	0.84–2.25	>2.25	2.25–0.84	0.83–0.32
–		1.00	0.15–0.16	0.17–0.21	0.22–0.33	0.34–0.89	0.9–2.39	>2.39	2.39–0.9	0.89–0.34
24		–	0.16–0.17	0.18–0.23	0.24–0.35	0.36–0.94	0.95–2.53	>2.53	2.53–0.95	0.94–0.36
–		1.25	0.19–0.2	0.21–0.27	0.28–0.42	0.43–1.11	1.12–2.99	>2.99	2.99–1.12	1.11–0.43
20		–	0.19–0.21	0.22–0.27	0.28–0.42	0.43–1.13	1.14–3.04	>3.04	3.04–1.14	1.13–0.43
18		–	0.21–0.23	0.24–0.31	0.32–0.47	0.48–1.26	1.277–3.38	>3.38	3.38–1.27	1.26–0.48
–		1.50	0.22–0.25	0.26–0.33	0.34–0.5	0.51–1.34	1.35–3.59	>3.59	3.59–1.35	1.34–0.51
16		–	0.24–0.26	0.27–0.35	0.36–0.53	0.54–1.41	1.42–3.8	>3.80	3.8–1.42	1.41–0.54
–		1.75	0.26–0.29	0.3–0.38	0.39–0.59	0.6–1.56	1.57–4.19	>4.19	4.19–1.57	1.56–0.6
14		–	0.27–0.3	0.31–0.4	0.41–0.61	0.62–1.62	1.63–4.34	>4.34	4.34–1.63	1.62–0.62
13		–	0.29–0.32	0.33–0.43	0.44–0.66	0.67–1.74	1.75–4.68	>4.68	4.68–1.75	1.74–0.67
–		2.00	0.3–0.33	0.34–0.44	0.45–0.67	0.68–1.78	1.79–4.79	>4.79	4.79–1.79	1.78–0.68
12		–	0.32–0.35	0.36–0.46	0.47–0.71	0.72–1.89	1.9–5.07	>5.07	5.07–1.9	1.89–0.72
11.5		–	0.33–0.37	0.38–0.49	0.5–0.74	0.75–1.97	1.98–5.29	>5.29	5.29–1.98	1.97–0.75
11		–	0.34–0.38	0.39–0.51	0.52–0.78	0.79–2.06	2.07–5.53	>5.53	5.53–2.07	2.06–0.79
–		2.50	0.37–0.42	0.43–0.55	0.56–0.84	0.85–2.23	2.24–5.98	>5.98	5.98–2.24	2.23–0.85
10		–	0.38–0.42	0.43–0.56	0.57–0.86	0.87–2.27	2.28–6.08	>6.08	6.08–2.28	2.27–0.87
9		–	0.42–0.47	0.48–0.62	0.63–0.95	0.96–2.53	2.53–6.75	>6.75	6.75–2.53	2.52–0.96
–		3.00	0.45–0.5	0.51–0.66	0.67–1.02	1.03–2.68	2.69–7.18	>7.18	7.18–2.69	2.68–1.03
8		–	0.47–0.53	0.54–0.7	0.71–1.08	1.09–2.84	2.85–7.6	>7.60	7.6–2.85	2.84–1.09
–		3.50	0.52–0.59	0.6–0.77	0.78–1.19	1.2–3.13	3.14–8.38	>8.38	8.38–3.14	3.13–1.2
7		–	0.524–0.61	0.62–0.8	0.81–1.23	1.24–3.25	3.26–8.68	>8.68	8.68–3.26	3.25–1.24
–		4.00	0.6–0.67	0.68–0.89	0.9–1.36	1.37–3.58	3.59–9.57	>9.57	9.57–3.59	3.58–1.37
6		–	0.63–0.71	0.72–0.94	0.95–1.44	1.45–3.79	3.8–10.13	>10.13	10.13–3.8	3.79–1.45
–		5.00	0.75–0.84	0.85–1.11	1.12–1.7	1.71–4.48	4.49–11.97	>11.97	11.97–4.49	4.48–1.71
5		–	0.76–0.86	0.87–1.13	1.14–1.73	1.74–4.55	4.56–12.16	>12.16	12.16–4.56	4.55–1.74
4.5		–	0.84–0.95	0.96–1.26	1.27–1.92	1.93–5.06	5.07–13.51	>13.51	13.51–5.07	5.06–1.93
–		6.00	0.9–1.01	1.02–1.33	1.34–2.04	2.05–5.37	5.38–14.36	>14.36	14.36–5.38	5.37–2.05
4		–	0.96–1.07	1.08–1.41	1.42–2.16	2.17–5.69	5.7–15.2	>15.20	15.2–5.7	5.69–2.17
inclination angle			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			standard helix (feed toward the chuck)						reverse helix (feed away from the chuck)	

If recommended shim is different from shim supplied with toolholder, order shim separately.

NOTE: Optimize your threading operation by using the proper infeed angle and the recommended infeed values.
See the Technical Section on pages D82–D105.
Also see detailed shim selection information on pages D104–D105.

Step 5 • Select Grade and Speed

Recommendations for Grade and Speed Selection — m/min (SFM)

	workpiece material	P	M	K	N	S
Kenna Perfect™	insert style	CB chipbreaker		Flat Top 	CB chipbreaker	
	optimum cutting conditions	**KC5010** 70–260 (240–850)	**KC5010** 90–245 (300–800)	**KC5010** 60–245 (200–800)	**KC5010** 90–550 (300–1800)	**KC5010** 30–150 (100–500)
	first choice	**KC5025** 50–230 (160–750)	**KC5025** 75–230 (250–750)	**KC5025** 50–180 (160–600)	**KC5025** 60–455 (200–1500)	**KC5025** 20–120 (75–400)
Kenna Universal™	insert style	-K chipbreaker				
	selection	**KU25T** 45–210 (145–675)	**KU25T** 70–205 (225–675)	**KU25T** 45–160 (145–540)	**KU25T** 55–410 (180–1350)	**KU25T** 20–110 (70–360)

NOTE: See threading insert overview on page D50.

Recommended Starting Speeds [m/min]

Material Group		KC5010			KC5025			KU25T		
P	0–1	135	**200**	260	105	**165**	230	95	**150**	210
	2	130	**190**	245	100	**150**	200	90	**135**	180
	3	105	**155**	200	75	**125**	170	70	**115**	155
	4	70	**120**	160	60	**95**	130	55	**85**	115
	5	105	**155**	200	75	**130**	170	70	**115**	155
	6	70	**120**	160	50	**90**	130	45	**80**	115
M	1	120	**180**	245	90	**170**	230	80	**155**	205
	2	90	**165**	210	75	**140**	200	70	**125**	180
	3	90	**165**	210	75	**135**	200	70	**120**	180
K	1	120	**180**	245	90	**135**	180	80	**120**	160
	2	90	**150**	210	70	**120**	170	65	**110**	155
	3	60	**105**	150	50	**85**	120	45	**75**	110
N	1–2	150	**365**	550	120	**305**	455	110	**275**	410
	3	90	**135**	180	60	**105**	150	55	**95**	135
	4	120	**305**	455	100	**200**	305	90	**180**	275
	5	90	**165**	245	70	**135**	195	65	**120**	175
	6	120	**210**	305	100	**170**	245	90	**155**	220
S	1	30	**70**	105	20	**40**	60	20	**35**	55
	2	30	**65**	100	20	**35**	45	20	**30**	40
	3	30	**65**	100	20	**35**	45	20	**30**	40
	4	55	**105**	150	45	**85**	120	40	**75**	110
H	1	30	**45**	60	–	**–**	–	–	**–**	–
	2	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

NOTE: FIRST choice starting speeds are in **bold** type.

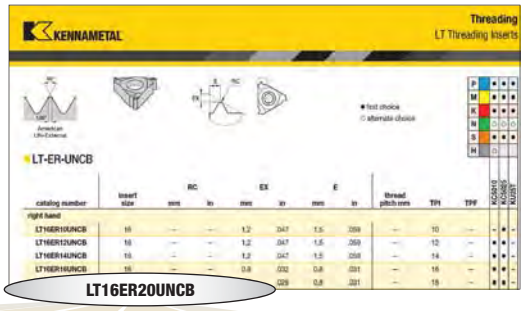
Recommended Starting Speeds [SFM]

Material Group		KC5010			KC5025			KU25T		
P	0–1	450	**650**	850	350	**550**	750	315	**495**	675
	2	430	**630**	800	330	**500**	650	300	**450**	585
	3	350	**520**	650	250	**420**	550	225	**380**	495
	4	240	**400**	520	200	**310**	420	180	**280**	380
	5	350	**520**	650	250	**420**	550	225	**380**	495
	6	240	**400**	520	160	**300**	420	145	**270**	380
M	1	400	**600**	800	300	**550**	750	270	**495**	675
	2	300	**550**	700	250	**470**	650	225	**425**	585
	3	300	**550**	700	250	**450**	650	225	**405**	585
K	1	400	**600**	800	300	**450**	600	270	**405**	540
	2	300	**500**	700	240	**400**	560	215	**360**	505
	3	200	**350**	500	160	**280**	400	145	**250**	360
N	1–2	500	**1200**	1800	400	**1000**	1500	360	**900**	1350
	3	300	**450**	600	200	**350**	500	180	**315**	450
	4	400	**1000**	1500	320	**660**	1000	290	**595**	900
	5	300	**550**	800	240	**440**	640	215	**395**	575
	6	400	**700**	1000	320	**560**	800	290	**505**	720
S	1	100	**230**	350	75	**125**	200	70	**110**	180
	2	100	**210**	320	75	**110**	150	70	**100**	135
	3	100	**210**	320	75	**110**	150	70	**100**	135
	4	180	**350**	500	150	**280**	400	135	**250**	360
H	1	100	**150**	200	–	**–**	–	–	**–**	–
	2	50	**100**	150	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

NOTE: FIRST choice starting speeds are in **bold** type.

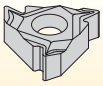
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.



Inch

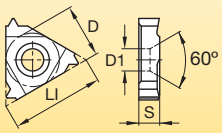
LT — Type of Insert



LT = Laydown triangle threading

16 — Cutting Edge Length *(Size)*

insert size	LI (mm)	D (inch)	D (mm)	S (inch)	S (mm)	D1 (inch)	D1 (mm)
11	11,0	.250	6,35	.126	3,20	.128	3,25
16	16,5	.375	9,52	.143	3,63	.155	3,94
22	22,0	.500	12,70	.188	4,78	.192	4,88



ER — Hand of Insert

ER = External right hand

EL = External left hand

NR = Internal right hand

NL = Internal left hand

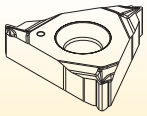
20 — Thread Pitch

partial profile		
designation	**thread pitch (mm)**	**TPI**
A	0,50–1,5	48–16
AG	0,50–3,0	48–8
G	1,75–3,0	14–8
N	3,50–5,0	7–5
full profile		
actual TPI or pitch in mm is designated	0,5–4,0	48–8

UN — Thread Profile

ISO = ISO metric 60°
UN = American UN 60°
60 = Partial profile non-cresting 60°
55 = Partial profile non-cresting 55°
W = Whitworth 55°
BSPT = British Standard Pipe Thread 55°
NPT = American National Pipe Thread 60°
ACME = American Acme
STACME = American Stub Acme
TR = Trapez DIN 103
RD = Round DIN 405
UNJ = Controlled root radius 60°
NPTF = Dryseal 60°
API = American Petroleum Institute Threads
BUT = API Buttress Casing
APIRD = API Round

CB — Chip Control



□ = Flat top

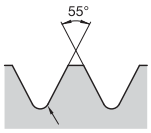
CB = Chipbreaker

K = Kenna Universal™ chipbreaker

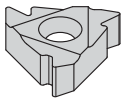
The Kennametal LT Advantage

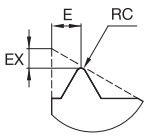
Every box of 10 inserts includes a free Torx wrench and spare locking screw, except LT-K inserts.

style			thread profile	standard	tolerance class	cresting	application	page(s)
CB	K	flat top						
LT-60CB	LT-60K	LT-60	Partial profile 60º	—	—	N	General use for 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D51–D52, D60–D61
LT-ISOCB	LT-ISOK	LT-ISO	Metric ISO	ISO R262, DIN 13	6g/6H	Y	Widely used metric 60° V-form for all industries.	D54, D63–D64
LT-UNCB	LT-UNK	LT-UN	American UN	ANSI B1.1:74	2A/2B	Y	Widely used inch-based 60° V-form for all industries.	D57–D58, D67–D68
		LT-UNJ	UNJ	MIL-S-8879C	3A/3B	Y	Controlled root radius on external threads for military and aerospace industries, 60° thread form.	D58, D68
LT-NPTCB		LT-NPT	NPT	USAS B2.1:1968	Standard NPT	Y	National Pipe Thread standard 60° thread form for pipe fittings.	D55, D64–D65
LT-NPTFCB		LT-NPTF	NPTF	ANSI B1.20.3-1976	Class 2	Y	Dryseal-type NPT 60° thread form for pipe fittings.	D55–D56, D65
	LT-55K	LT-55	Partial profile 55º	—	—	N	General use for 55° thread forms such as Whitworth, BSW, and BSP where non-cresting inserts are desired to cut a variety of pitches.	D51, D60
		LT-BSPT	BSPT	BS 21:1985	Standard BSPT	Y	55° form for pipe fittings.	D53, D62
LT-WCB	LT-WK	LT-W	Whitworth, BSW, BSF, BSP	BS 84:1956, ISO 228/1:1985, DIN 259	Medium Class A	Y	Widely used 55° form for gas and water connections.	D59, D69
		LT-API	API Rotary Shoulder Connections	API SPEC. 7:1990	Standard API	Y	60° V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms.	D52, D62
		LT-APIRD	API round	API STD. 5B:1979	Standard API RD	Y	60° V-form with large radius for casing, tubing, and line pipe in the oil and gas industry, including 8 and 10 round forms.	D53, D62
		LT-BUT	API Buttress Casing	API SPEC. 7:1990	Standard API	Y	45° buttress-style form used for pipe casing connections in the oil and gas industry.	D53, D62
		LT-ACME	Acme	ANSI B1.5:1988	3G	N	29° truncated thread form for motion applications in a wide variety of industries.	D52, D61
		LT-STACME	Stub Acme	ANSI B1.8:1988	2G	N	Shallow depth 29° truncated thread form for motion applications in a wide variety of industries.	D56, D66
		LT-RD	Round	DIN 405	7h/7H	Y	Round thread form for tube fittings in the chemical and food industries.	D56, D65
		LT-TR	Trapez	DIN 103	7e/7H	N	30° truncated metric thread form for motion applications.	D57, D66



Partial Profile 55°
External



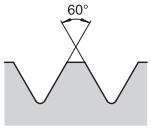


● first choice
○ alternate choice

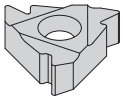
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

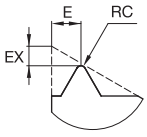
LT-ER/L-55

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERA55	16	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	—	–	●	–
LT16ERAG55	16	0,08	.0030	1,2	.047	1,70	.067	0,50-3,00	8-48	—	●	●	–
16ERG55	16	0,20	.0080	1,2	.047	1,70	.067	1,75-3,00	8-14	—	–	●	–
LT22ERN55	22	0,43	.0170	1,7	.067	2,49	.098	3,50-5,00	5-7	—	–	●	–
left hand													
LT16ELAG55	16	0,08	.0030	1,2	.047	1,70	.067	0,50-3,00	8-48	—	–	●	–



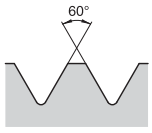
Partial Profile 60°
External



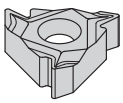


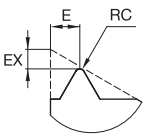
LT-ER/L-60

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	16-48	—	●	●	–
LT16ERAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	●	–	–
16ERAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	–	●	–
LT16ERG60	16	0,28	.011	1,2	.047	1,7	.067	1,75-3,0	8-14	—	●	●	–
LT22ERN60	22	0,53	.021	1,7	.067	2,5	.098	3,5-5,0	5-7	—	–	●	–
left hand													
LT16ELA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	16-48	—	–	●	–
LT16ELAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	–	●	–
LT16ELG60	16	0,28	.011	1,2	.047	1,7	.067	1,75-3,0	8-14	—	–	●	–
LT22ELN60	22	0,53	.021	1,7	.067	2,5	.098	3,5-5,0	5-7	—	–	●	–



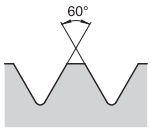
Partial Profile 60°
External



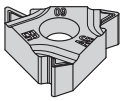


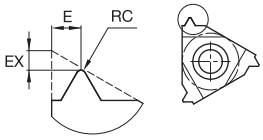
LT-ER-60CB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERAG60CB	16	0,08	.003	0,9	.035	1,5	.059	0,50-3,0	8-48	—	●	●	–



Partial Profile 60° External



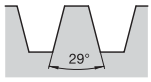


● first choice
○ alternate choice

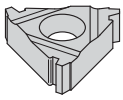
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

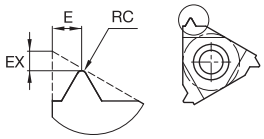
LT-ER-60K

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERAG60K	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	–	–	–	●



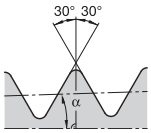
Acme External



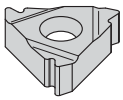


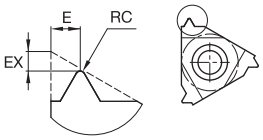
LT-ER/L-ACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10ACME	16	–	–	1,3	.051	1,40	.055	–	10	–	–	●	–
LT16ER12ACME	16	–	–	1,1	.043	1,19	.047	–	12	–	–	●	–
LT16ER16ACME	16	–	–	1,0	.039	1,09	.043	–	16	–	–	●	–
LT16ER8ACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22ER5ACME	22	–	–	2,0	.079	2,29	.090	–	5	–	–	●	–
LT22ER6ACME	22	–	–	1,8	.071	2,11	.083	–	6	–	–	●	–



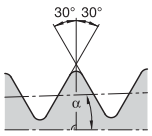
API Rotary Shoulder Connections- External
α = 1/2 arctan (TPF/12)



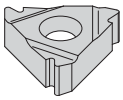


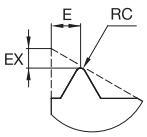
LT-ER/L-API

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22ER4API382	22	–	–	2,1	.083	2,79	.110	–	4	2.0000	–	●	–
LT22ER4API502	22	–	–	2,0	.079	2,90	.114	–	4	2.0000	●	●	–
LT22ER4API503	22	–	–	2,0	.079	2,90	.114	–	4	3.0000	●	–	–
LT22ER5API403	22	–	–	1,8	.071	2,60	.102	–	5	3.0000	●	–	–
LT27ER4API502	28	0,64	.0250	2,0	.080	2,79	.110	–	4	–	–	●	–
LT27ER4API382	28	0,97	.0380	2,0	.080	2,79	.110	–	4	–	–	●	–



API Round-External



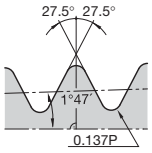


● first choice
○ alternate choice

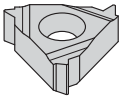
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

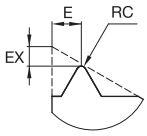
LT-ER/L-APIRD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10APIRD	16	–	–	1,2	.047	1,40	.055	–	10	.7500	–	●	–
LT16ER8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–
left hand													
LT16EL8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–



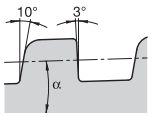
BSPT-External



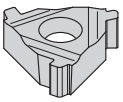


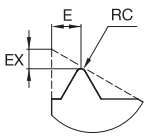
LT-ER/L-BSPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER11BSPT	16	–	–	1,1	.043	1,50	.059	–	11	.7500	–	●	–
LT16ER14BSPT	16	–	–	1,0	.039	1,19	.047	–	14	.7500	–	●	–



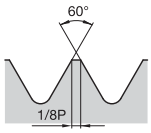
API Buttress
Casing-External
α = 1/2 arctan
(TPF/12)



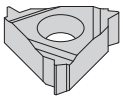


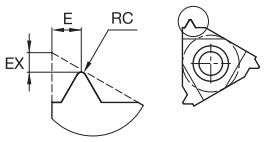
LT-ER/L-BUT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22ER5BUT75	22	–	–	3,1	.122	1,91	.075	–	5	.7500	–	●	–



ISO Metric-External



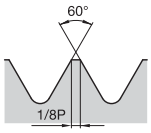


● first choice
○ alternate choice

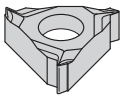
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

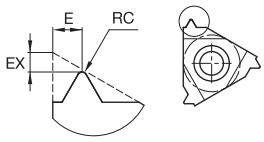
LT-ER/L-ISO

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16ER075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16ER10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	●	●	–
LT16ER125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	●	●	–
LT16ER15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16ER175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	●	●	–
LT16ER20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	●	●	–
LT16ER25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	●	●	–
LT16ER30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	●	●	–
LT22ER35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–
LT22ER40ISO	22	–	–	1,6	.063	2,3	.090	4,0	–	–	–	●	–
LT22ER45ISO	22	–	–	1,7	.067	2,4	.094	4,5	–	–	–	●	–
LT22ER50ISO	22	–	–	1,7	.067	2,5	.098	5,0	–	–	–	●	–
left hand													
LT16EL15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16EL175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	–	●	–
LT16EL20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	–	●	–
LT16EL25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–
LT16EL30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	–	●	–
LT16EL05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16EL075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16EL10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	–	●	–
LT16EL125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT22EL35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–



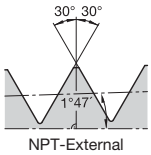
ISO Metric-External



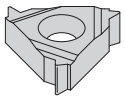


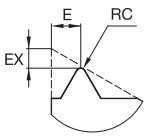
LT-ER-ISOCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISOCB	16	–	–	1,2	.047	0,5	.020	0,50	–	–	●	●	–
LT16ER075ISOCB	16	–	–	1,2	.047	0,6	.024	0,75	–	–	●	●	–
LT16ER10ISOCB	16	–	–	0,7	.028	0,8	.031	1,0	–	–	●	●	–
LT16ER125ISOCB	16	–	–	0,7	.028	0,8	.031	1,25	–	–	●	●	–
LT16ER15ISOCB	16	–	–	0,7	.028	0,8	.031	1,5	–	–	●	●	–
LT16ER175ISOCB	16	–	–	1,2	.047	1,5	.059	1,75	–	–	●	●	–
LT16ER20ISOCB	16	–	–	1,2	.047	1,5	.059	2,0	–	–	●	●	–
LT16ER25ISOCB	16	–	–	1,2	.047	1,5	.059	2,5	–	–	–	●	–
LT16ER30ISOCB	16	–	–	1,3	.051	1,5	.059	3,0	–	–	●	●	–



NPT-External



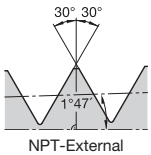


● first choice
○ alternate choice

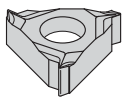
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

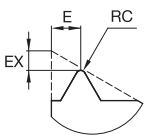
LT-ER/L-NPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPT	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	●	●	–
LT16ER14NPT	16	–	–	0,9	.035	1,2	.047	–	14	.7500	●	●	–
LT16ER18NPT	16	–	–	0,8	.031	1,0	.039	–	18	.7500	●	●	–
LT16ER27NPT	16	–	–	0,7	.027	0,8	.031	–	27	.7500	–	●	–
LT16ER8NPT	16	–	–	1,3	.051	1,8	.071	–	8	.7500	–	●	–



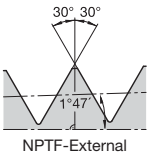
NPT-External



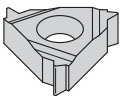


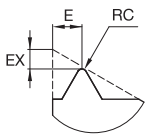
LT-ER-NPTCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER14NPTCB	16	–	–	1,1	.043	1,5	.059	–	14	.7500	●	●	–



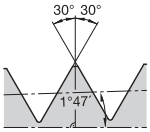
NPTF-External



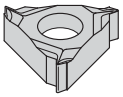


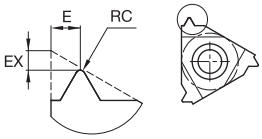
LT-ER/L-NPTF

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPTF	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–
LT16ER14NPTF	16	–	–	0,9	.035	1,2	.047	–	14	.7500	–	●	–



NPTF-External



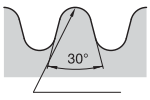


● first choice
○ alternate choice

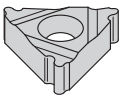
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

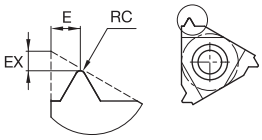
LT-ER-NPTFCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPTFCB	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–



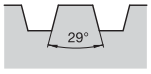
Round External



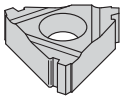


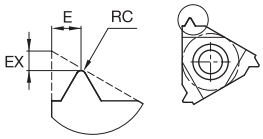
LT-ER/L-RD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER8RD	16	0,76	.0298	1,4	.055	1,30	.051	–	8	–	–	●	–
LT22ER6RD	22	1,01	.0398	1,5	.059	1,70	.067	–	6	–	–	●	–



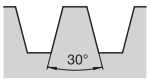
Stub Acme-External



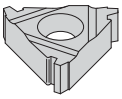


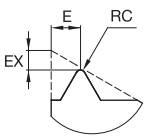
LT-ER/L-STACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10STACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16ER12STACME	16	–	–	1,2	.047	1,19	.047	–	12	–	–	●	–
LT16ER16STACME	16	–	–	1,0	.039	0,99	.039	–	16	–	–	●	–
LT16ER6STACME	16	–	–	1,7	.067	1,80	.071	–	6	–	–	●	–
LT16ER8STACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22ER5STACME	22	–	–	2,1	.083	2,29	.090	–	5	–	–	●	–



Trapez-External



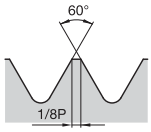


● first choice
○ alternate choice

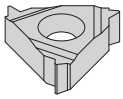
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

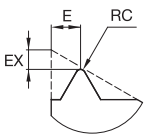
LT-ER/L-TR

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER2TR	16	–	–	1,1	.043	1,30	.051	2,0	–	–	–	●	–
LT16ER3TR	16	–	–	1,3	.051	1,50	.059	3,0	–	–	–	●	–
LT22ER4TR	22	–	–	1,7	.067	1,91	.075	4,0	–	–	–	●	–
LT22ER5TR	22	–	–	2,1	.083	2,50	.098	5,0	–	–	–	●	–



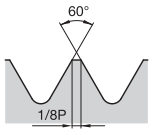
American
UN-External



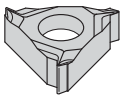


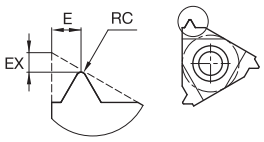
LT-ER/L-UN

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16ER12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	●	●	–
LT16ER14UN	16	–	–	1,0	.039	1,2	.047	–	14	–	●	●	–
LT16ER16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT16ER18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	●	●	–
LT16ER20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	●	●	–
LT16ER24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	●	●	–
LT16ER28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	●	●	–
LT16ER32UN	16	–	–	0,6	.024	0,6	.024	–	32	–	●	●	–
LT16ER36UN	16	–	–	0,6	.024	0,6	.024	–	36	–	–	●	–
LT16ER40UN	16	–	–	0,6	.024	0,6	.024	–	40	–	–	●	–
LT16ER48UN	16	–	–	0,6	.024	0,6	.024	–	48	–	–	●	–
LT16ER8UN	16	–	–	1,2	.047	1,6	.063	–	8	–	–	●	–
left hand													
LT16EL24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16EL28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT16EL8UN	16	–	–	1,2	.047	1,6	.063	–	8	–	–	●	–
LT16EL12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	–	●	–
LT16EL14UN	16	–	–	1,0	.039	1,2	.047	–	14	–	–	●	–
LT16EL16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT16EL18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16EL20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–



American
UN-External



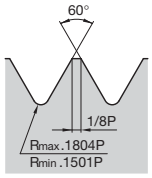


● first choice
○ alternate choice

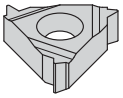
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

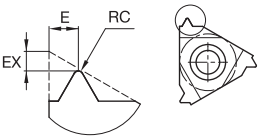
LT-ER-UNCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10UNCB	16	–	–	1,2	.047	1,5	.059	–	10	–	–	●	–
LT16ER12UNCB	16	–	–	1,2	.047	1,5	.059	–	12	–	●	●	–
LT16ER14UNCB	16	–	–	1,2	.047	1,5	.059	–	14	–	●	●	–
LT16ER16UNCB	16	–	–	0,8	.032	0,8	.031	–	16	–	●	●	–
LT16ER18UNCB	16	–	–	0,7	.028	0,8	.031	–	18	–	●	●	–
LT16ER20UNCB	16	–	–	0,7	.028	0,8	.031	–	20	–	●	●	–
LT16ER24UNCB	16	–	–	0,7	.028	0,8	.031	–	24	–	●	●	–
LT16ER28UNCB	16	–	–	0,7	.028	0,8	.031	–	28	–	●	●	–
LT16ER32UNCB	16	–	–	1,2	.047	0,5	.020	–	32	–	●	●	–
LT16ER8UNCB	16	–	–	1,3	.051	1,5	.059	–	8	–	●	●	–



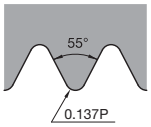
UNJ-External



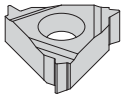


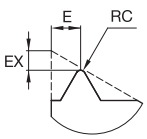
LT-ER/L-UNJ

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER12UNJ	16	–	–	1,1	.043	1,3	.051	–	12	–	●	●	–
LT16ER14UNJ	16	–	–	1,0	.039	1,2	.047	–	14	–	●	●	–
LT16ER16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT16ER18UNJ	16	–	–	0,8	.031	1,0	.039	–	18	–	●	●	–
LT16ER20UNJ	16	–	–	0,8	.031	0,9	.035	–	20	–	●	●	–
LT16ER24UNJ	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16ER28UNJ	16	–	–	0,7	.027	0,7	.027	–	28	–	–	●	–
LT16ER32UNJ	16	–	–	0,6	.024	0,7	.027	–	32	–	–	●	–
left hand													
LT16EL16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal



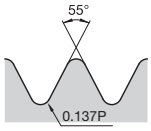


● first choice
○ alternate choice

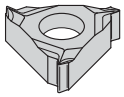
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

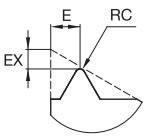
LT-ER/L-W

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10W	16	–	–	1,1	.043	1,50	.059	–	10	–	–	●	–
LT16ER11W	16	–	–	1,1	.043	1,50	.059	–	11	–	●	●	–
LT16ER12W	16	–	–	1,1	.043	1,40	.055	–	12	–	–	●	–
LT16ER14W	16	–	–	1,0	.039	1,19	.047	–	14	–	●	●	–
LT16ER16W	16	–	–	0,9	.035	1,09	.043	–	16	–	–	●	–
LT16ER18W	16	–	–	0,8	.031	0,99	.039	–	18	–	–	●	–
LT16ER19W	16	–	–	0,8	.031	0,99	.039	–	19	–	●	●	–
LT16ER20W	16	–	–	0,8	.031	0,89	.035	–	20	–	–	●	–
LT16ER24W	16	–	–	0,7	.028	0,79	.031	–	24	–	–	●	–
LT16ER28W	16	–	–	0,6	.024	0,69	.027	–	28	–	–	●	–
LT16ER8W	16	–	–	1,2	.047	1,50	.059	–	8	–	–	●	–
LT16ER9W	16	–	–	1,2	.047	1,70	.067	–	9	–	–	●	–
LT22ER6W	22	–	–	1,6	.063	2,29	.090	–	6	–	–	●	–
LT22ER7W	22	–	–	1,6	.063	2,29	.090	–	7	–	–	●	–
left hand													
LT16EL11W	16	–	–	1,1	.043	1,50	.059	–	11	–	–	●	–
LT16EL14W	16	–	–	1,0	.039	1,19	.047	–	14	–	–	●	–



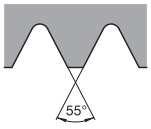
Whitworth BSW,
BSF, BSP-External



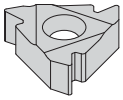


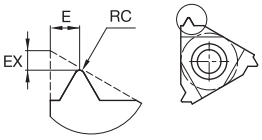
LT-ER-WCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER11WCB	16	–	–	1,3	.051	1,50	.059	–	11	–	–	●	–
LT16ER14WCB	16	–	–	1,3	.051	1,50	.059	–	14	–	●	●	–



Partial Profile 55°
Internal



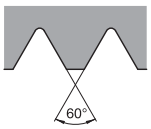


● first choice
○ alternate choice

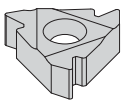
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

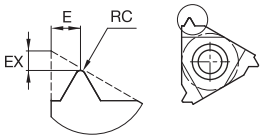
LT-NR/L-55

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA55	11	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	–	–	●	–
LT16NRA55	16	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	–	–	●	–
LT16NRAG55	16	0,07	.0028	1,2	.047	1,70	.067	0,50-3,00	8-48	–	–	●	–
LT16NRG55	16	0,21	.0083	1,2	.047	1,70	.067	1,75-3,00	8-14	–	–	●	–
LT22NRN55	22	0,43	.0170	1,7	.067	2,49	.098	3,50-5,00	5-7	–	–	●	–



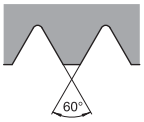
Partial Profile 60°
Internal

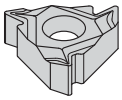




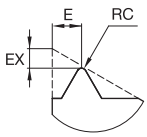
LT-NR/L-60

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA60	11	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	–	●	●	–
LT16NRA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	–	●	●	–
LT16NRAG60	16	0,05	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	–	●	●	–
LT16NRG60	16	0,15	.006	1,2	.047	1,7	.067	1,75-3,0	14-8	–	●	●	–
LT22NRN60	22	0,31	.012	1,7	.067	2,5	.098	3,5-5,0	7-5	–	–	●	–
left hand													
LT11NLA60	11	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	–	–	●	–
LT16NLA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	–	–	●	–
LT16NLAG60	16	0,05	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	–	–	●	–
LT16NLG60	16	0,15	.006	1,2	.047	1,7	.067	1,75-3,0	14-8	–	–	●	–
LT22NLN60	22	0,31	.012	1,7	.067	2,5	.098	3,5-5,0	7-5	–	–	●	–





Partial Profile 60°
Internal

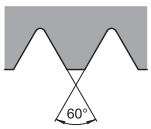


● first choice
○ alternate choice

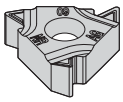
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

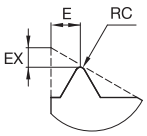
LT-NR-60CB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA60CB	11	0,05	.002	0,6	.024	0,8	.031	0,50-1,50	48-16	–	–	●	–
LT16NRAG60CB	16	0,05	.002	0,9	.035	1,5	.059	0,50-3,0	48-8	–	–	●	–
LT16NRG60CB	16	0,16	.006	1,0	.039	1,5	.059	1,75-3,0	14-8	–	–	●	–



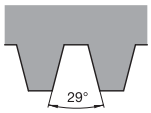
Partial Profile 60°
Internal



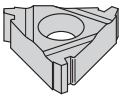


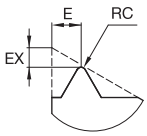
LT-NR-60K

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NRAG60K	16	0,04	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	–	–	–	●



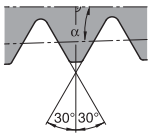
Acme Internal



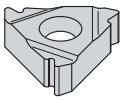


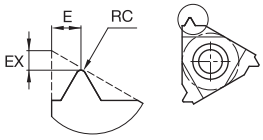
LT-NR/L-ACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10ACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16NR12ACME	16	–	–	1,2	.047	1,30	.051	–	12	–	–	●	–
LT16NR8ACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22NR5ACME	22	–	–	2,0	.079	2,29	.090	–	5	–	–	●	–
LT22NR6ACME	22	–	–	1,8	.071	2,11	.083	–	6	–	–	●	–



API Rotary Shoulder Connections-Internal
α = 1/2 arctan (TPF/12)



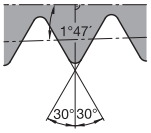


● first choice
○ alternate choice

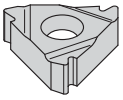
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

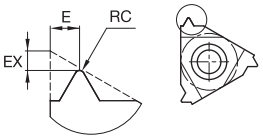
LT-NR/L-API

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22NR4API382	22	–	–	2,1	.083	2,79	.110	–	4	2.0000	–	●	–
LT22NR4API502	22	–	–	2,1	.083	3,10	.122	–	4	2.0000	–	●	–
LT22NR5API403	22	–	–	1,8	.071	2,60	.102	–	5	3.0000	–	●	–
LT27NR4API502	28	0,65	.0260	2,0	.080	3,79	.110	–	4	–	–	●	–
LT27NR4API382	28	0,99	.0390	2,0	.080	2,79	.110	–	4	–	–	●	–



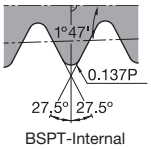
API Round-Internal



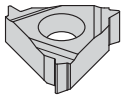


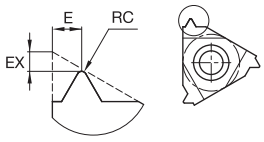
LT-NR/L-APIRD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10APIRD	16	–	–	1,2	.047	1,40	.055	–	10	.7500	–	●	–
LT16NR8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–



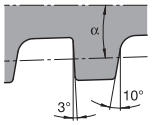
BSPT-Internal



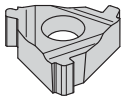


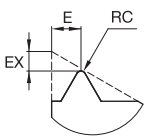
LT-NR/L-BSPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14BSPT	11	–	–	0,9	.035	0,99	.039	–	14	.7500	–	●	–
LT16NR11BSPT	16	–	–	1,1	.043	1,50	.059	–	11	.7500	–	●	–
LT16NR14BSPT	16	–	–	1,0	.039	1,19	.047	–	14	.7500	–	●	–



API Buttress
Casing-Internal
α = 1/2 arctan
(TPF/12)



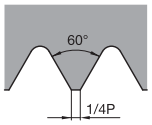


● first choice
○ alternate choice

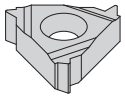
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

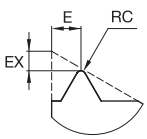
LT-NR/L-BUT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22NR5BUT1	22	–	–	2,8	.110	1,91	.075	–	5	1.0000	–	●	–
LT22NR5BUT75	22	–	–	2,8	.110	1,91	.075	–	5	.7500	–	●	–



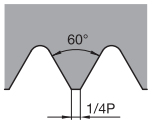
ISO Metric-Internal



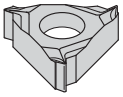


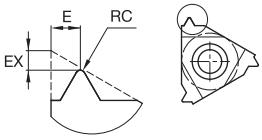
LT-NR/L-ISO

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR05ISO	11	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT11NR075ISO	11	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT11NR10ISO	11	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT11NR125ISO	11	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT11NR15ISO	11	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT11NR175ISO	11	–	–	0,9	.035	1,1	.043	1,75	–	–	–	●	–
LT11NR20ISO	11	–	–	0,9	.035	1,1	.043	2,0	–	–	–	●	–
LT16NR05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16NR075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16NR10ISO	16	–	–	0,6	.024	0,7	.027	1,0	–	–	●	●	–
LT16NR125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT16NR15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16NR175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	–	●	–
LT16NR20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	●	●	–
LT16NR25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–
LT16NR30ISO	16	–	–	1,1	.043	1,5	.059	3,0	–	–	●	●	–
LT22NR35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–
LT22NR40ISO	22	–	–	1,6	.063	2,3	.090	4,0	–	–	–	●	–
LT22NR45ISO	22	–	–	1,6	.063	2,4	.094	4,5	–	–	–	●	–
LT22NR50ISO	22	–	–	1,6	.063	2,3	.090	5,0	–	–	–	●	–
left hand													
LT11NL15ISO	11	–	–	0,8	.031	1,0	.039	1,5	–	–	–	●	–
LT11NL10ISO	11	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT16NL30ISO	16	–	–	1,1	.043	1,5	.059	3,0	–	–	–	●	–
LT16NL10ISO	16	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT16NL15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	–	●	–
LT16NL20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	–	●	–
LT16NL25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–



ISO Metric-Internal



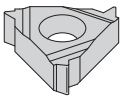


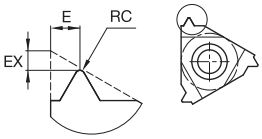
● first choice
○ alternate choice

P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-NR-ISOCB

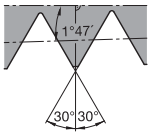
catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR075ISOCB	11	–	–	1,2	.047	0,5	.020	0,75	–	–	–	●	–
LT11NR10ISOCB	11	–	–	0,7	.028	0,8	.031	1,0	–	–	–	●	–
LT11NR125ISOCB	11	–	–	0,7	.028	0,8	.031	1,25	–	–	–	●	–
LT11NR15ISOCB	11	–	–	0,7	.028	0,8	.031	1,5	–	–	–	●	–
LT16NR10ISOCB	16	–	–	0,7	.028	0,8	.031	1,0	–	–	–	●	–
LT16NR15ISOCB	16	–	–	0,7	.028	0,8	.031	1,5	–	–	–	●	–
LT16NR20ISOCB	16	–	–	1,1	.043	1,5	.059	2,0	–	–	–	●	–
LT16NR25ISOCB	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–



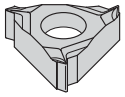


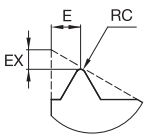
LT-NR/L-NPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14NPT	11	–	–	0,8	.031	1,0	.039	–	14	.7500	●	●	–
LT11NR18NPT	11	–	–	0,8	.031	1,0	.039	–	18	.7500	–	●	–
LT16NR115NPT	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	●	●	–
LT16NR14NPT	16	–	–	0,9	.035	1,2	.047	–	14	.7500	–	●	–
LT16NR8NPT	16	–	–	1,3	.051	1,8	.071	–	8	.7500	–	●	–



NPT-Internal



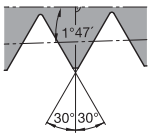


● first choice
○ alternate choice

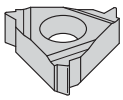
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

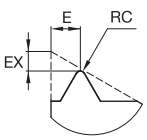
LT-NR-NPTCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR115NPTCB	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–
LT16NR14NPTCB	16	–	–	1,4	.053	1,2	.047	–	14	.7500	–	●	–



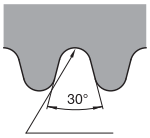
NPTF-Internal



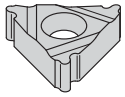


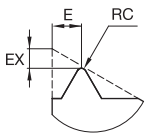
LT-NR/L-NPTF

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14NPTF	11	–	–	0,8	.031	0,99	.039	–	14	.7500	–	●	–
LT16NR14NPTF	16	–	–	0,9	.035	1,19	.047	–	14	.7500	–	●	–



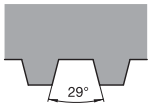
Round-Internal



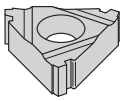


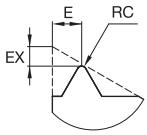
LT-NR/L-RD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR8RD	16	0,70	.0276	1,4	.055	1,40	.055	–	8	–	–	●	–
LT22NR6RD	22	0,93	.0368	1,5	.059	1,70	.067	–	6	–	–	●	–



Stub Acme-Internal



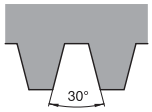


● first choice
○ alternate choice

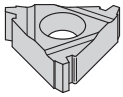
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

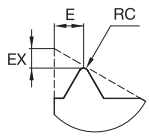
LT-NR/L-STACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10STACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16NR12STACME	16	–	–	1,1	.043	1,19	.047	–	12	–	–	●	–
LT16NR14STACME	16	–	–	1,1	.043	1,09	.043	–	14	–	–	●	–
LT16NR16STACME	16	–	–	1,0	.039	0,99	.039	–	16	–	–	●	–
LT16NR6STACME	16	–	–	1,7	.067	1,80	.071	–	6	–	–	●	–
LT16NR8STACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–



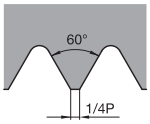
Trapez-Internal



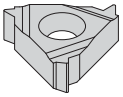


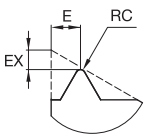
LT-NR/L-TR

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR2TR	16	–	–	1,1	.043	1,30	.051	2,0	–	–	–	●	–
LT16NR3TR	16	–	–	1,3	.051	1,50	.059	3,0	–	–	–	●	–
LT22NR4TR	22	–	–	1,7	.067	1,91	.075	4,0	–	–	–	●	–
LT22NR5TR	22	–	–	2,1	.083	2,50	.098	5,0	–	–	–	●	–



American
UN-Internal



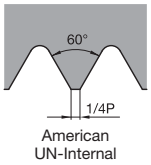


● first choice
○ alternate choice

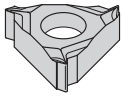
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

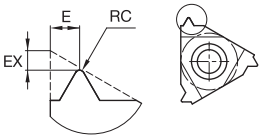
LT-NR/L-UN

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR16UN	11	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT11NR18UN	11	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT11NR20UN	11	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–
LT11NR24UN	11	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT11NR28UN	11	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT11NR32UN	11	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT11NR40UN	11	–	–	0,6	.024	0,6	.024	–	40	–	–	●	–
LT16NR10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NR12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	●	●	–
LT16NR14UN	16	–	–	0,9	.035	1,2	.047	–	14	–	–	●	–
LT16NR16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT16NR18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16NR20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–
LT16NR24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16NR28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT16NR32UN	16	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT16NR8UN	16	–	–	1,1	.043	1,5	.059	–	8	–	–	●	–
left hand													
LT11NL32UN	11	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT16NL10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NL12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	–	●	–
LT16NL16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



American
UN-Internal



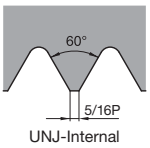


● first choice
○ alternate choice

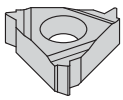
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

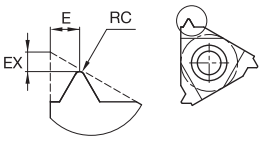
LT-NR-UNCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR16UNCB	11	–	–	0,7	.028	0,8	.031	–	16	–	–	●	–
LT11NR18UNCB	11	–	–	0,6	.024	0,8	.031	–	18	–	–	●	–
LT11NR20UNCB	11	–	–	0,6	.024	0,8	.031	–	20	–	–	●	–
LT11NR24UNCB	11	–	–	0,7	.028	0,8	.031	–	24	–	–	●	–
LT11NR32UNCB	11	–	–	1,2	.047	0,5	.020	–	32	–	–	●	–
LT16NR10UNCB	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NR12UNCB	16	–	–	1,1	.043	1,5	.059	–	12	–	–	●	–
LT16NR14UNCB	16	–	–	1,1	.043	1,5	.059	–	14	–	–	●	–
LT16NR16UNCB	16	–	–	0,7	.028	0,8	.031	–	16	–	–	●	–
LT16NR18UNCB	16	–	–	0,6	.024	0,8	.031	–	18	–	–	●	–
LT16NR20UNCB	16	–	–	0,7	.028	0,6	.024	–	20	–	–	●	–
LT16NR8UNCB	16	–	–	1,1	.043	1,5	.059	–	8	–	–	●	–



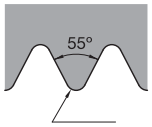
UNJ-Internal



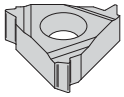


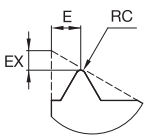
LT-NR/L-UNJ

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14UNJ	11	–	–	1,0	.039	1,2	.047	–	14	–	–	●	–
LT11NR16UNJ	11	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT11NR18UNJ	11	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16NR12UNJ	16	–	–	1,1	.043	1,3	.051	–	12	–	–	●	–
LT16NR16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal



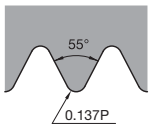


● first choice
○ alternate choice

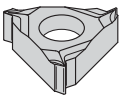
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

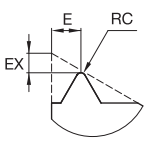
LT-NR/L-W

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14W	11	–	–	0,9	.035	1,09	.043	–	14	–	–	●	–
LT11NR19W	11	–	–	0,8	.031	0,99	.039	–	19	–	–	●	–
LT16NR10W	16	–	–	1,1	.043	1,50	.059	–	10	–	–	●	–
LT16NR11W	16	–	–	1,1	.043	1,50	.059	–	11	–	●	●	–
LT16NR12W	16	–	–	1,1	.043	1,40	.055	–	12	–	–	●	–
LT16NR14W	16	–	–	1,0	.039	1,19	.047	–	14	–	–	●	–
LT16NR16W	16	–	–	0,9	.035	1,09	.043	–	16	–	–	●	–
LT16NR19W	16	–	–	0,8	.031	0,99	.039	–	19	–	–	●	–
LT16NR20W	16	–	–	0,8	.031	0,89	.035	–	20	–	–	●	–
LT16NR8W	16	–	–	1,2	.047	1,50	.059	–	8	–	–	●	–
LT22NR7W	22	–	–	1,6	.063	2,29	.090	–	7	–	–	●	–
left hand													
LT16NL11W	16	–	–	1,1	.043	1,50	.059	–	11	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal





LT-NR-WCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR11WCB	16	–	–	1,3	.051	1,50	.059	–	11	–	–	●	–
LT16NR14WCB	16	–	–	1,3	.051	1,50	.059	–	14	–	–	●	–

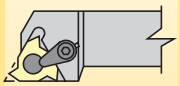
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.

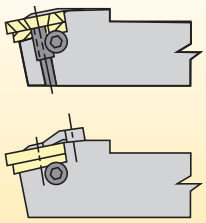
Inch

L	S	AS	R		16	3	
Insert Style	Insert Holding Method	Tool Style	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length

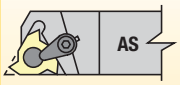
L — Laydown triangle



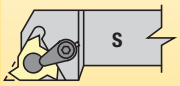
S — Insert screw or clamp only



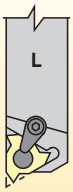
Straight shank



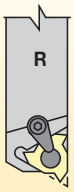
Offset shank

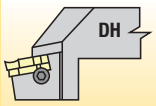


Left hand



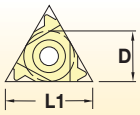
Right hand





Inch:
This shows a two-digit number that indicates the holder cross section. For shanks 5/8" square and over, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width, and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

Size equals number of 1/8" increments of IC.



inch insert size	metric insert size	D inch	L1 inch
2	11	1/4	0.433
3	16	3/8	0.650
4	22	1/2	0.866

C — qualified back and end, 5" long

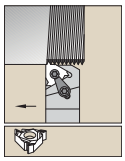
D — qualified back and end, 6" long

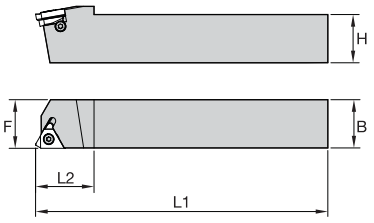
E — qualified back and end, 7" long

T — qualified back and end, 3.25" long

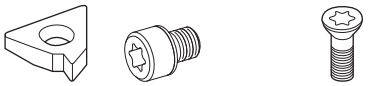
Q — qualified metric holder

NOTE: Toolholders with primary shank sizes larger than 1/2" or 12mm are supplied with clamp and insert screw. Secure the insert with either the camp or insert screw. **Do not use both.**
For Threading Shim Catalog Numbering System, please see page D73.

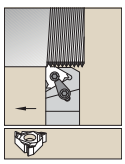


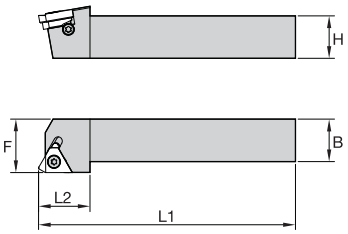


LSA

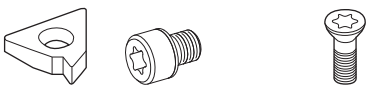


order number	catalog number	H	B	F	L1	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand											
1106230	**LSASR83**	.500	.500	.500	3.250	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281801	**LSASR103**	.625	.625	.630	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281802	**LSASR123**	.750	.750	.750	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281803	**LSASR163**	1.000	1.000	1.000	6.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281804	**LSASR164**	1.000	1.000	1.000	6.000	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281805	**LSASR203**	1.250	1.250	1.250	7.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
left hand											
1281800	**LSASL83**	.500	.500	.500	3.250	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281796	**LSASL103**	.625	.625	.630	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281797	**LSASL123**	.750	.750	.750	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281798	**LSASL163**	1.000	1.000	1.000	6.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281799	**LSASL164**	1.000	1.000	1.000	6.000	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20

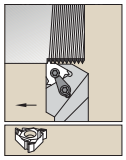


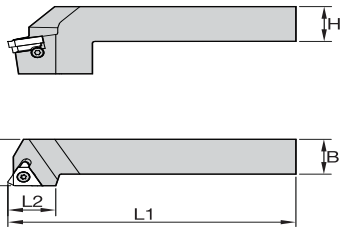


LSS



order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand												
1281817	**LSSR123D**	.750	.750	1.000	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281818	**LSSR163D**	1.000	1.000	1.250	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281819	**LSSR164D**	1.000	1.000	1.250	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281820	**LSSR203D**	1.250	1.250	1.500	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1192326	**LSSR204D**	1.250	1.250	1.500	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
left hand												
1281812	**LSSL123D**	.750	.750	1.000	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281813	**LSSL163D**	1.000	1.000	1.250	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281814	**LSSL164D**	1.000	1.000	1.250	6.000	1.200	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20





LSS-DH

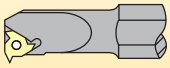
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand												
1281815	**LSSRDH123C**	.750	.750	1.000	5.000	1.500	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281816	**LSSRDH164D**	1.000	1.000	1.250	6.000	1.500	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20

How Do Catalog Numbers Work?

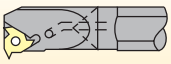
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.

S	08	12	L	S	E	R	2
Bar Type	Primary Necked Shank Bar Diameter	Secondary (Mounting) Bar Diameter	Insert Style	Insert Holding Method	Bar Style	Hand of Tool	Insert Size

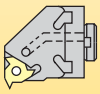
S — Steel shank without coolant



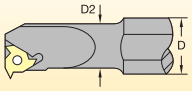
E — Carbide with coolant



H — Interchangeable head with coolant

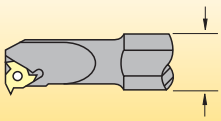


Indicates the primary bar diameter in 1/16" increments.

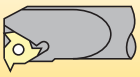


NOTE: Boring bars with primary bar diameters larger than 5/8" are supplied with clamp and insert screw. Secure the insert with either the clamp or insert screw. **Do not use both.**

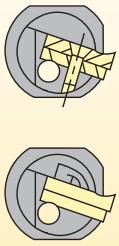
Indicates the secondary bar diameter in 1/16" increments.



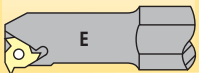
L — Laydown triangle



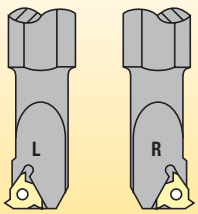
S — Insert screw



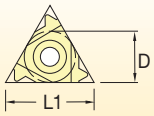
End cutting edge mount



Left Hand / Right Hand



Size equals number of 1/8" increments of IC.

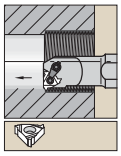


inch insert size	metric insert size	D inch	L1 inch
2	11	1/4	0.433
3	16	3/8	0.650
4	22	1/2	0.866

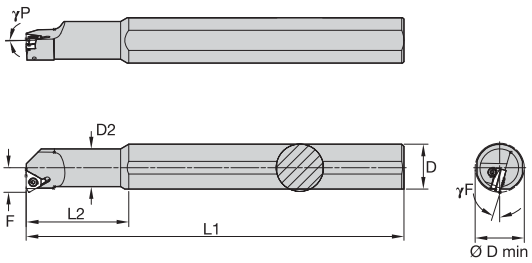
LT Threading Shim Catalog Numbering System

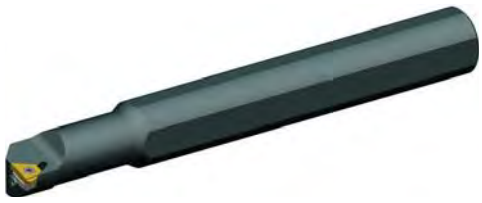
SM	Y	E	3	2P
Shim	Shim for LT Standard Inserts	Insert Threading	Insert Size	Shim Angle
		E = External **I** = Internal	D value in 1/8"	**2P** = 2° positive **1P** = 1° positive **—** = 0° neutral **1N** = 1° negative **2N** = 2° negative **3N** = 3° negative

For shims and shim kits, see pages D104–D105.

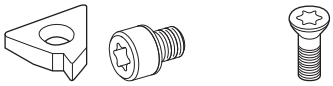


Steel shank without through coolant.



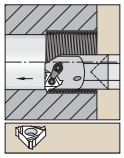


S-LSE

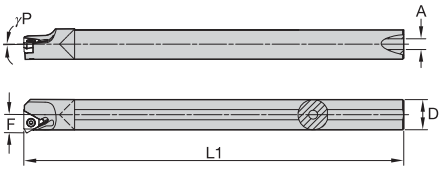


order number	catalog number	D	D min	D2	F	L1	L2	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand															
1288896	**S0612LSER2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288908	**S0812LSER2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288921	**S1012LSER3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1288937	**S1212LSER3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288961	**S1620LSER3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288962	**S1620LSER4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1192442	**S2020LSER3**	1.250	1.450	–	.770	10.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288982	**S2020LSER4**	1.250	1.500	–	.850	10.000	–	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
left hand															
1288895	**S0612LSEL2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288907	**S0812LSEL2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288920	**S1012LSEL3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NL	**–**	**–**	–	**SN3TPKG**	T10
1288936	**S1212LSEL3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288958	**S1620LSEL3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288960	**S1620LSEL4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20

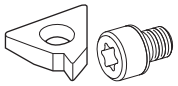
NOTE: Items listed without a shim are designed for a 1.5° inclination angle.



Carbide shank with through coolant.

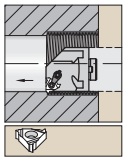


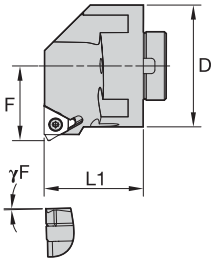
E-LSE

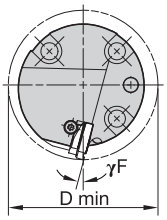


order number	catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand														
1152676	**E06LSER2**	.375	.500	.280	6.000	.125	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1152678	**E08LSER2**	.500	.650	.350	8.000	.187	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1152680	**E10LSER3**	.625	.800	.460	10.000	.218	-15.0	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1152682	**E12LSER3**	.750	.900	.510	10.000	.281	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152684	**E16LSER3**	1.000	1.200	.650	12.000	.312	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152686	**E16LSER4**	1.000	1.250	.710	12.000	.312	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
left hand														
1152677	**E06LSEL2**	.375	.500	.280	6.000	.125	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1152679	**E08LSEL2**	.500	.650	.350	8.000	.187	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1152681	**E10LSEL3**	.625	.800	.460	10.000	.218	-15.0	-1.5	LT16NL	**–**	**–**	–	**SN3TPKG**	T10
1152683	**E12LSEL3**	.750	.900	.510	10.000	.281	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10

NOTE: Items listed without a shim are designed for a 1.5° inclination angle.



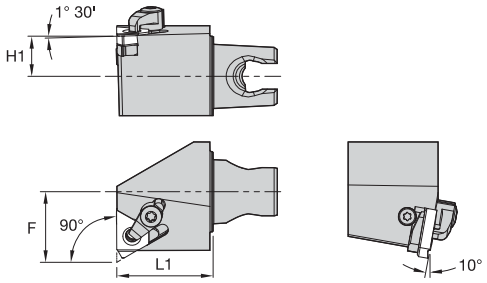




H-LSE

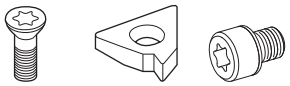
order number	catalog number	D	D min	L1	F	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand													
1095216	**H16LSER3**	1.000	1.200	1.63	.645	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095218	**H20LSER3**	1.250	1.450	1.63	.760	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095220	**H24LSER3**	1.500	1.760	1.63	.885	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095224	**H24LSER4**	1.500	1.782	1.63	.973	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1095222	**H32LSER3**	2.000	2.400	1.63	1.276	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095226	**H32LSER4**	2.000	2.400	1.63	1.276	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842895	**H32LSER5**	2.000	2.400	1.63	1.281	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
3842897	**H40LSER5**	2.500	3.030	1.63	1.531	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25

NOTE: For boring adapters, see pages B406–B409.

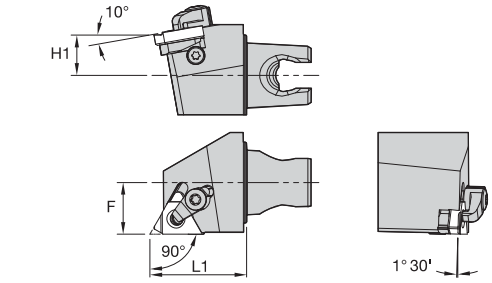


Clamp shown in images is no longer available.

LSE • End Mount

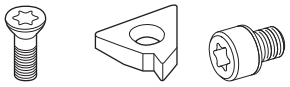


order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	insert screw	shim	shim screw
right hand											
2399506	**KM25LSER1630**	30	1.181	22	.866	12,5	.492	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
left hand											
2399507	**KM25LSEL1630**	30	1.181	22	.866	12,5	.492	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**

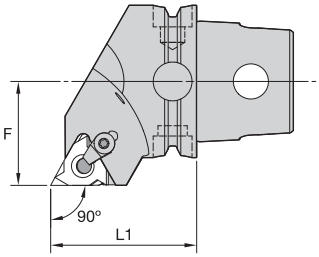


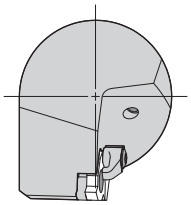
Clamp shown in images is no longer available.

LSS • Side Mount



order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	insert screw	shim	shim screw
right hand											
2399504	**KM25LSSR1630**	30	1.181	16	.630	12,5	.492	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**
3176219	**KM25LSSR2230**	30	1.181	16	.630	12,5	.492	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**
left hand											
2399505	**KM25LSSL1630**	30	1.181	16	.630	12,5	.492	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
3176220	**KM25LSSL2230**	30	1.181	16	.630	12,5	.492	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**





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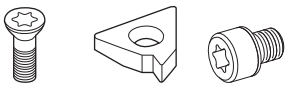
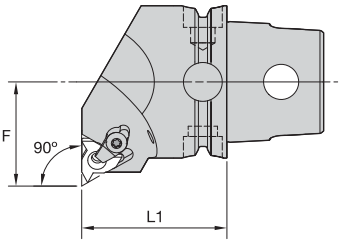
KM QUICK CHANGE

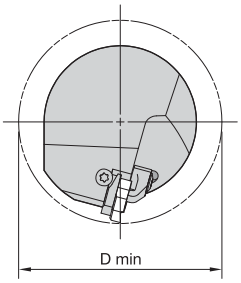
LSS 90°



order number	catalog number	L1 mm	L1 in	F mm	F in	gage insert	insert screw	shim	shim screw	kg	lbs
right hand											
3950857	**KM40TSLSSR16**	40	1.575	27	1.063	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**	0,31	.68
3950858	**KM40TSLSSR22**	40	1.575	27	1.063	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**	0,30	.66
3959401	**KM40TSLSSR27**	45	1.772	27	1.063	LT27ER	**SSA5T**	**SMYE5**	**SSY5T**	0,37	.82
left hand											
3950855	**KM40TSLSSL16**	40	1.575	27	1.063	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**	0,32	.70
3950856	**KM40TSLSSL22**	40	1.575	27	1.063	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**	0,31	.68
3959400	**KM40TSLSSL27**	45	1.772	27	1.063	LT27EL	**SSA5T**	**SMYI5**	**SSY5T**	0,37	.82

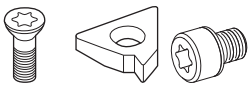
KM QUICK CHANGE





Clamp shown in images is no longer available.

LSE-N 90° • Internal Only



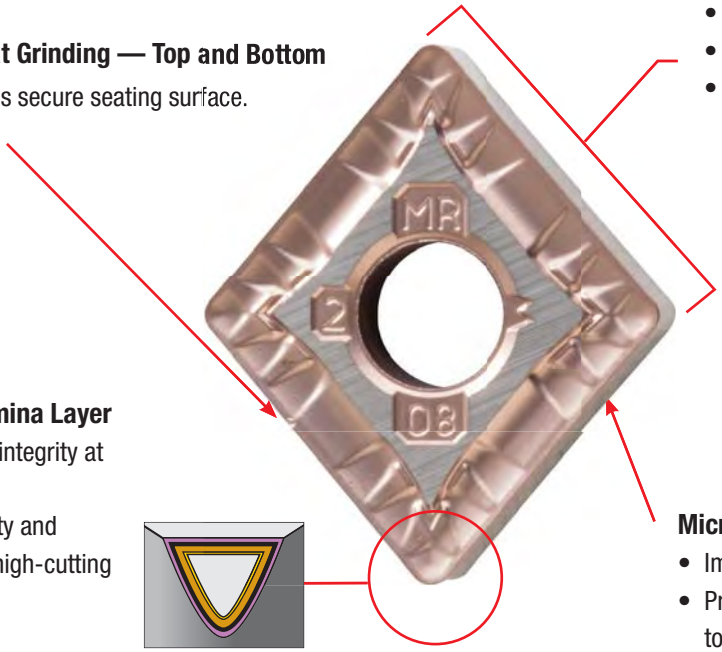
order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	insert screw	shim	shim screw	kg	lbs
right hand													
3950832	**KM40TSLSER16N**	40	1.575	27	1.063	54	2.126	LT16NR	**SSA3T**	**SMYI3**	**SSY3T**	0,35	.77
3950854	**KM40TSLSER22N**	40	1.575	27	1.063	54	2.126	LT22NR	**SSA4T**	**SMYI4**	**SSY4T**	0,35	.77
3959399	**KM40TSLSER27N**	45	1.772	27	1.063	54	2.126	LT27NR	**SSA5T**	**SMYI5**	**SSY5T**	0,39	.86
left hand													
3950831	**KM40TSLSEL16N**	40	1.575	27	1.063	54	2.126	LT16NL	**SSA3T**	**SMYE3**	**SSY3T**	0,35	.77

Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Post-Coat Treatment
- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom
- Provides secure seating surface.



Fine-Grained Alumina Layer
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges
- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

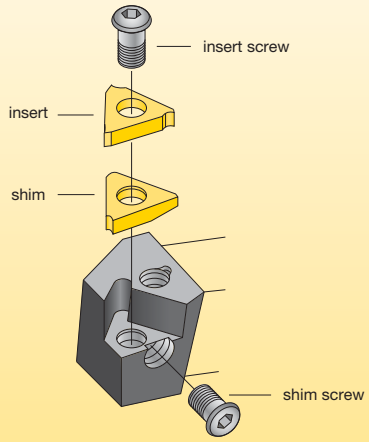
Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

kennametal.com

Laydown Threading Toolholders

In all cases, the proper shim selection is important.

Kennametal toolholders are supplied with a shim for a 1.5° lead angle. Change the shim if your thread is more than 1° different.
For more details on proper shim selections, see pages D104–D105.



insert size and screw	insert screw	shim	shim screw and washer
3ER	SS-A3T	SM-YIE3	SS-Y3T
3EL	SS-A3T	SM-YI3	SS-Y3T
4ER	SS-A4T	SM-YIE4	SS-Y4T
4EL	SS-A4T	SM-YI4	SS-Y4T
Laydown Threading boring bars			
2IR	SS-N2T	–	–
2IL	SS-N2T	–	–
3IR	SS-A3T	SM-YI3	SS-Y3T
3IL	SS-A3T	SM-YIE3	SS-Y3T
4IR	SS-A4T	SM-YI4	SS-Y4T
4IL	SS-A4T	SM-YIE4	SS-Y4T

SM	—	Y	E	3	—	2N
Shim		Y-shim for Laydown standard inserts	E – External I – Internal	IC – 1/8"		Shim Angle

2P	2° positive
1P	1° positive
–	0°
1N	1° negative
2N	2° negative
3N	3° negative

resultant angle		3.5°	2.5°	1.5°	0.5°	-0.5°	-1.5°
insert size (IC)	toolholder	shim ordering code					
3/8"	ex. RH/in. LH ex. LH/in. RH	SM-YE3-2P SM-YI3-2P	SM-YE3-1P SM-YI3-1P	SM-YE3 SM-YI3	SM-YE3-1N SM-YI3-1N	SM-YE3-2N SM-YI3-2N	SM-YE3-3N SM-YI3-3N
1/2"	ex. RH/in. LH ex. LH/in. RH	SM-YE4-2P SM-YI4-2P	SM-YE4-1P SM-YI4-1P	SM-YE4 SM-YI4	SM-YE4-1N SM-YI4-1N	SM-YE4-2N SM-YI4-2N	SM-YE4-3N SM-YI4-3N

Slanted Shim Kit

Because you might occasionally need different shims than those supplied with our standard toolholders, we strongly recommend that shim kits be readily available in every tool shop.

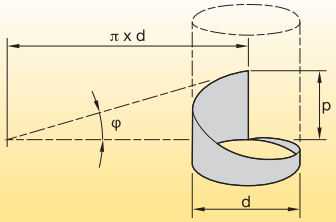
insert size	shim size (D)	ordering code	contains slanted shims
3x	3/8"	ABY3SET	SM-YE3-2P, 1P, 1N, 2N, 3N SM-YI3-2P, 1P, 1N, 2N, 3N
4x	1/2"	ABY4	SM-YE4-2P, 1P, 1N, 2N, 3N SM-YI4-2P, 1P, 1N, 2N, 3N

The Helix Angle

Example:
d = 1.892" (48,06mm)
p = .125" (3,175mm)

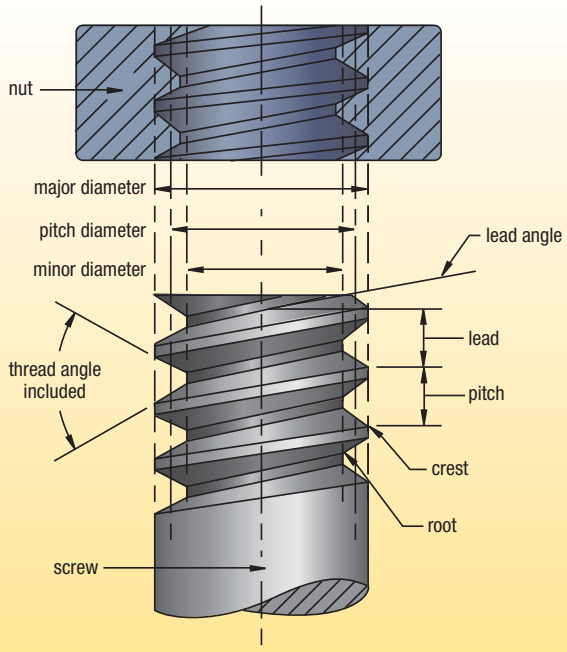
ϕ = Helix angle
p = pitch
d = pitch diameter

$$\phi = \arctan\left(\frac{p * starts}{\pi * \varnothing}\right) = 1.13°$$



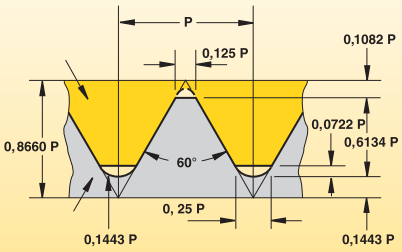
Screw Thread Definitions

1. **Major diameter** — The largest diameter of a straight screw thread. This applies to both internal and external threads.
2. **Pitch diameter** — On a straight thread, it is the diameter which passes through the thread profiles at such points which make the thread width of the groove equal to one-half of the basic pitch. On a "perfect thread," this occurs at the point where the widths of the thread and groove are equal.
3. **Thread angle (included)** — The included angle between the individual flanks of the thread form.
4. **Minor diameter** — The smallest diameter of a straight screw thread. This applies to both internal and external threads.
5. **Lead angle** — On a straight thread, the lead angle is the angle created by the helix of the thread at the pitch diameter with a plane perpendicular to the axis.
6. **Lead** — The distance a screw thread advances axially in one revolution. On a single start, the pitch and lead are identical. The lead is equal to the pitch times the number of starts.
7. **Pitch** — The distance from a point on a screw thread to a corresponding point on the next thread measured parallel to the thread axis.
8. **Crest** — The outer most surface of the thread form which joins the flanks.
9. **Root** — The inner most surface of the thread form which joins the flanks.



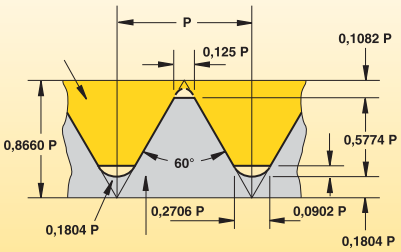
NOTE: Threads per inch (TPI) not shown:
The number of threads per inch measured axially.
The terms pitch and TPI are often used interchangeably. TPI = 1/pitch

ISO M (Metric) and UN (Unified National)



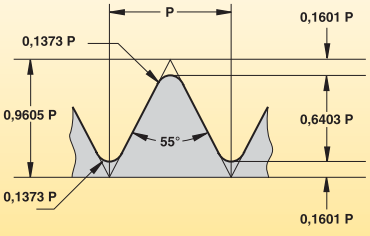
Use: All branches of mechanical industry.

UNJ (controlled root radius)



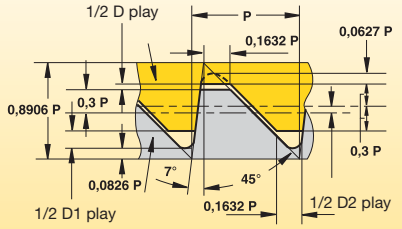
Use: Aircraft and space industry.

Whitworth (BSW)



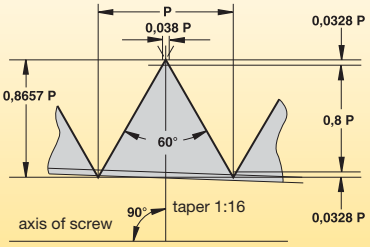
Use: Fittings and pipe couplings for gas, water, and sewer lines (replaced by ISO).

American Buttress



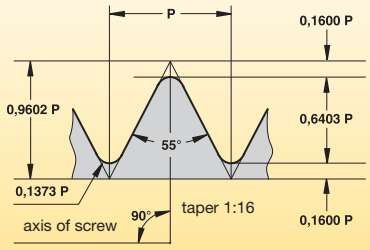
Use: Fittings and pipe couplings.

NPT (American National Pipe Thread)



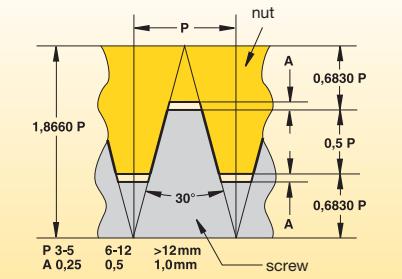
Use: Fittings and pipe couplings.

BSPT (British Standard Pipe Thread)



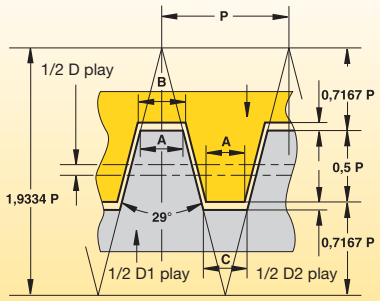
Use: Pipe thread for steam, gas, and water lines.

TR DIN 103



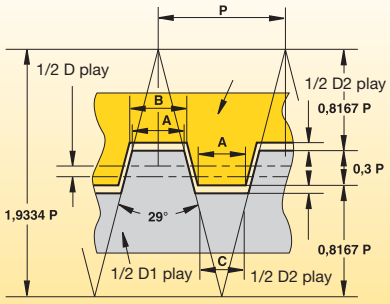
Use: Mechanical industry for motion transmission screws.

Acme



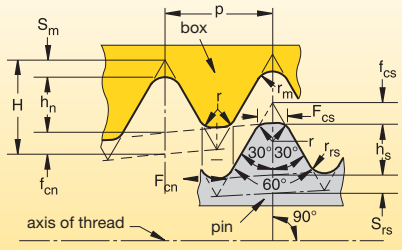
A = 0,0307 P
B = 0,3707 P—x D play
C = 0,3707 P—(D1 play—D2 play)
Use: Acme-General is used in mechanical industry for motion transmission screws.

Acme, truncated (Stub)



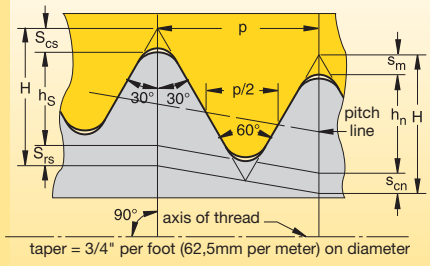
A = 0,4224 P
B = 0,4224 P—x D play
C = 0,4224 P—(D1 play—D2 play)
Use: Where normal Acme is too deep.

API Rotary Shoulder Connection



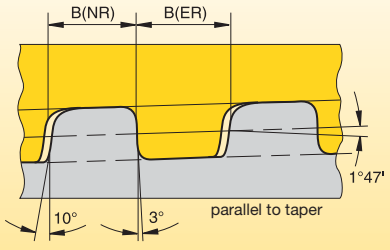
NOTE: Taper shown exaggerated.

API Casing and Tubing Round Thread Form



NOTE: Taper shown exaggerated.

API Buttress

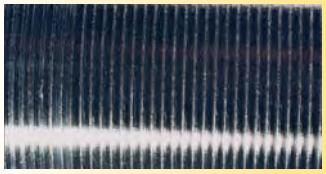


Suggested Grades and Speeds for Threading Various Workpiece Materials

workpiece group	workpiece material	recommended surface speed — SFM				
		uncoated	PVD coated			
		K68	KC5010	KC5025	KC5410	KU25T
free-machining carbon steel	10L18, 10L45, 1213, 12L13, 12L14, 1140, 1141, 11L44, 1151, 10L50	—	300–650	150–650	—	300–450
plain carbon steel	10063, 1008, 1010, 1015, 1018, 1020, 1025, 1026, 1108, 1117	—	250–650	150–575	—	250–400
alloy steels/tool steels 150–325 HB (up to 35 HRC)	1042, 1045, 1070, 1080, 1085, 1090, 1095, 1541, 1561, 1572, 5140, 8620, W1, O1, S1, P20, H13, D2, A6, H13, L6	—	250–650	125–550	—	250–400
alloy steels/tool steels 330–450 HB (36–47 HRC)		—	200–525	—	—	200–350
martensitic/ferritic stainless/precipitation hardening	416, 420F, 440F, 405, 409, 429, 430, 434, 436, 442, PH	—	150–525	100–400	—	80–200
austenitic stainless steel	201, 202, 301, 302, 303, 304, 304, 305, 321, 347, 348, 310, 314, 316, 316L, 330	200–350	200–650	150–450	—	80–350
gray cast iron 135–270 HB	class 20, 30, 35, 45	200–300	200–775	150–400	—	100–355
gray cast iron 275–450 HB	class 50, 55, 60	150–250	150–575	50–250	—	100–355
alloy/ductile iron	A536, J434C, 60-40-18, 80-55-06, 100-70-03	150–250	150–650	100–525	—	100–355
free-machining aluminum alloys	2024-T4, 2014-T6, 6061-T6 2011-T3, 3003-H18, A2, Alcan, Alcoa 510, Duralumin	400–800	400–1200	—	500–1500	100–1000
high-silicon aluminum alloys	A380, A390, A380-1, A390-1, A380-2	—	—	—	—	—
copper/zinc/brass		250–600	250–1000	150–775	—	100–800
non-metallics	Graphite, Nylon, Plastics, Rubbers, Phenolics, Carbon	400–1500	400–1300	150–1000	—	100–1000
high-temperature alloys 125–269 HB (up to 27 HRC)	Nickel 200, Monel, R405, Monel K500, INCONEL 600, INCONEL® 625/901x750/718, Waspaloy, Hastelloy C	80–120	80–400	40–250	—	45–270
high-temperature alloys 260–450 HB (26–47 HRC)	Rene 95, Waspaloy A286, Incoloy 800, Haynes 188, Stellite F, Haynes 25	80–100	100–250	20–200	—	45–200
titanium alloys	Ti-6Al-4V, TI-5Al-2.5Sn	110–180	110–325	—	—	45–250

NOTE: When workpiece hardness levels are at the top of a range, starting SFM should be at the lower end. Regularly inspect insert clamps for worn flats.

Edge preparation:
Uncoated — sharp
PVD coated — light hone except positive top rake, top rake-sharp

problem	cause	possible solution
thread with torn finish 	• Burs. • Torn finish. • Steps. • Improper shim. • Improper infeed.	• Use modified flank infeed. • Use full profile insert. • Increase coolant concentration. • Increases SFM. • Check machine “Z” travel axis. • Check insert form. • Check for correct shim in LT system. • Calculate flank clearance.
chatter	• Poor rigidity. • Insert movement. • Improper infeed. • Off centerline.	• Use modified flank infeed. • Minimize tool overhang. • Check for workpiece deflection. • Check insert and clamp. • Verify that tool cutting position is at workpiece centerline. • Adjust number of passes. Fewer passes reduce chatter.
built-up edge	• Speed too low. • Insufficient coolant. • Chip load.	• Increase SFM. • Increase coolant concentration and/or flow. • Adjust infeed angle. • Increase depth of cut per pass.
deformation	• Wrong grade. • Speed too high. • Improper infeed angle. • Insufficient coolant.	• Use modified flank infeed. • Use a more wear-resistant grade (e.g., KC5010™). • Reduce SFM. • Increase coolant flow.
chipping	• Improper infeed. • Chip load. • Wrong grade. • Incorrect speed. • Poor rigidity.	• Use modified flank infeed. • Increase or decrease number of passes. • Eliminate spring passes. • Use tougher grade (e.g., KC5025™). • Increase SFM if chipping on trailing edge. • Decrease SFM if chipping on leading edge. • Minimize tool overhang. • Check for insert movement/check clamp. Torque screw or clamp to correct value. • Check for possible part deflection. • Calculate flank clearance. • Ensure correct shim.
broken nose	• Heavy chip load. • Small nose radius. • Wrong grade. • Improper infeed.	• Use modified flank infeed. • Decrease chip load. • Use large nose radius if possible. • Use tougher grade (e.g., KC5025).
flank wear	• Improper shim. • Wrong grade. • Insufficient coolant. • Off centerline. • Insufficient flank clearance. • Improper infeed angle.	• Ensure correct shim. • Use a more wear-resistant grade (e.g., KC5025). • Increase coolant flow. • Check the centerline height of the tool. (The smaller the diameter, the more critical the need for centerline accuracy.) • Calculate flank clearance and change shim to increase clearance on worn flank. • If wear is on trailing flank, increase infeed angle clearance.

(continued)

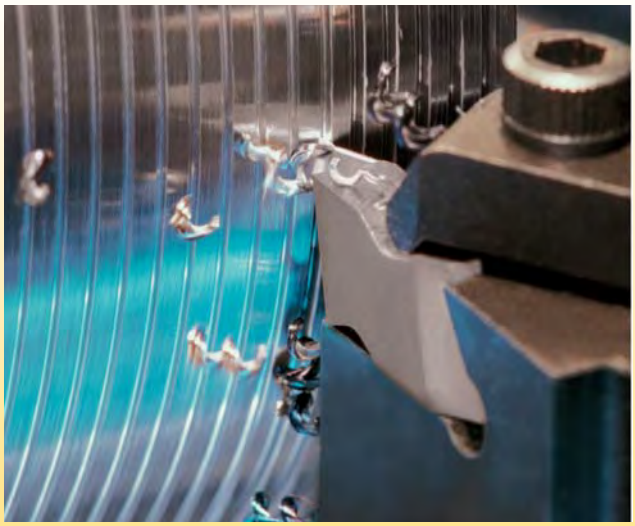
(Technical Information • Failure and Solution Guide — continued)

problem	possible solution																	
	increase SFM	reduce SFM	increase chip load	decrease chip load where failure occurs	use tougher carbide grade	use harder carbide grade	apply coolant	use coated carbide	use topping insert	change infeed angle	check for insert movement and reseat	reduce tool overhang	reselect shim	apply chipbreaker style	reduce DOC	adjust center height	begin cutting threads .472" before workpiece	change infeed method
chatter	•			•							•	•				•		•
bur on crest	•								•									•
short tool life		•	•	•		•		•										•
chipped leading edge			•	•	•													
chipped trailing edge					•					•								
broken nose (first pass)	•														•	•		
broken nose (after first pass)				•	•					•			•					•
built-up on cutting edge	•		•				•	•										•
premature topping													•					
splitting threads																	•	
poor chip evacuation														•				•

Kennametal insert technology brings chip control to your threading operations with the Top Notch™ platform. The proprietary Kennametal recessed chip groove, when used according to our recommendations, controls the chip in most applications. Our positive rake design lowers cutting pressures, which in turn lowers damaging heat generation thus providing better tool life. Long, stringy chips no longer mar the workpiece surface finish. The danger to operators when removing long chips from the workpiece and chuck is eliminated. All of these benefits combine to improve the productivity of your threading operations.

The Last Pass

Some CNC controls require the last pass to be at a 0° infeed angle because the chip will not break on the last pass. On most carbon and alloy steels, the last pass can remain at .005" (0,127mm) depth of cut and produce an acceptable finish. For some materials, a .001" (0,025mm) to .003" (0,076mm) (spring) pass may be used to improve surface finish, however, chipbreaking action may be compromised.

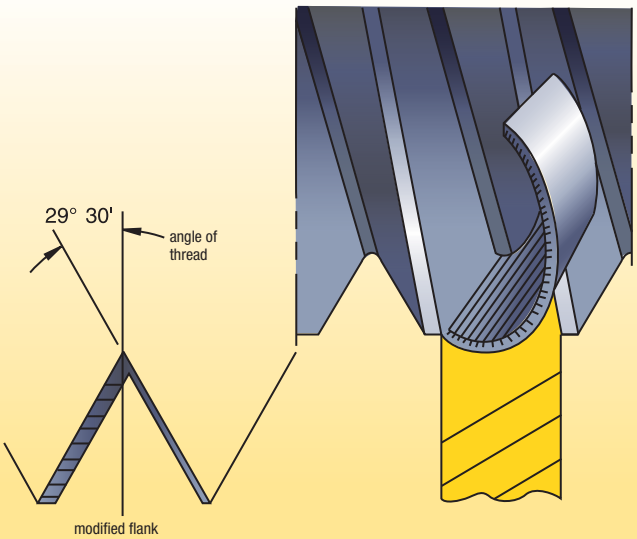


Machine Programming

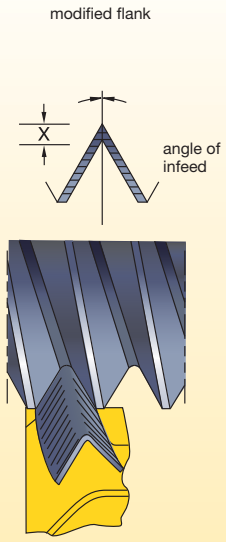
Modern CNC controls allow the programmer to easily adjust infeed angle, the number of passes, and depth of cut for each pass. The chip control threading insert performs best at an infeed angle of 29° 30', although 15° to 30° is acceptable. Also, it is important to maintain a minimum of .005" (0,127mm) depth of cut on every pass. In most applications, use of CNC canned cycles produce only marginally successful results. Custom written programs are better and are recommended.

Infeed Angle

In order to effectively and consistently break the chip, it is important to use an infeed angle between 28° and 29° 30'. Do not apply chip control inserts at infeed angles less than 15°.



Radial



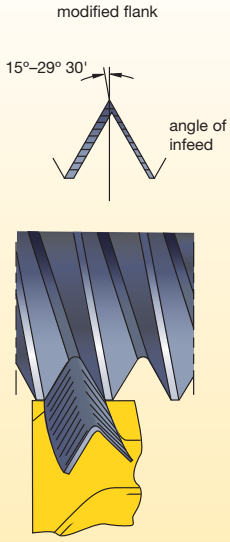
Advantage —

- Cutting on both sides of the thread form places all of the cutting edge in the cut and protects edge from chipping.
- Even wear on the insert.

Disadvantage —

- Tool develops a channel chip that may be difficult to handle.
- Tip chipping occurs when cutting high-tensile materials.
- Bur condition is increased.
- Entire cutting edge is engaged at finish of thread, causing increased tendency to chatter.

Modified flank



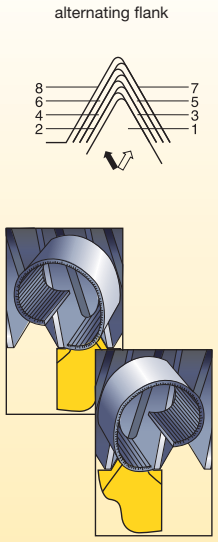
Advantage —

- Tool cuts both sides of thread form, so it is protected from chipping similar to 0° infeed. Channel-type chip develops, but uneven chip thickness helps remove the chip similar to flank infeed.
- This is the preferred method, especially when used with a chip control insert.
- Combined radial and/or alternating flank infeed.
- Results in good tool life, with wear evenly distributed over both flanks.

Disadvantage —

- Similar disadvantages as with 0° infeed, although reduced somewhat in magnitude as cutting forces are better equalized and chip flow is much less of a problem.

Alternating flank



Advantage —

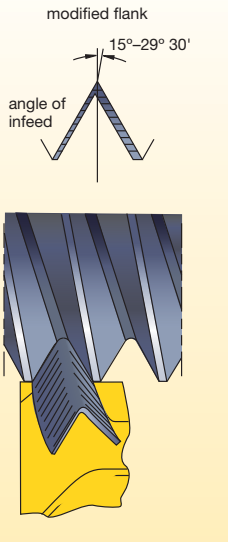
- Increased tool life because both edges are used equally.

NOTE: Some machine tools may require special programming techniques to achieve this method of infeed.

Disadvantage —

- Difficult to cut on conventional machinery.

Reversed modified flank



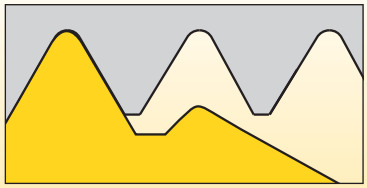
Advantage —

- Tool cuts both sides of thread form, so it is protected from chipping similar to 0° infeed. Channel-type chip develops, but uneven chip thickness helps remove the chip similar to flank infeed.
- This is the preferred method, especially when used with a chip control insert.
- Combined radial and/or alternating flank infeed.
- Results in good tool life, with wear evenly distributed over both flanks.
- As chip flow is the reversed feed direction, it is an excellent choice for internal threading.

Disadvantage —

- Programming needs to be done line by line.

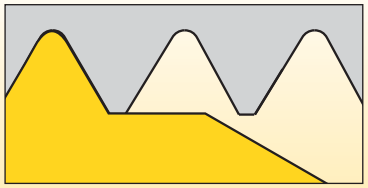
Partial Profile



Tooth profile with universal profile shape:

- Reduced inventory.
- For various pitches in a limited range.
- Major/minor diameters must be accurately pre-turned.

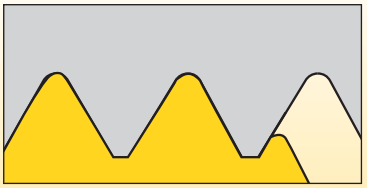
Full Profile



Tooth profile with full profile shape including tooth height:

- For bur-free, precise threads in the specified pitch.
- General application.
- Machining allowance for outside/core diameter around .004–.006".

Multi-Tooth Profile



Multi-tooth full profile generally with 2–3 teeth:

- Highly productive threading with fewer passes and longer tool life.
- Requires a rigid setup and long thread pass through.

Formulas

Inch Formula		
to find	**given**	**formula**
SFM	D (inch) RPM	$SFM = \frac{\pi \times D}{12"} \times RPM$
RPM	D (inch) SFM	$RPM = \frac{SFM \times 12"}{D \times \pi}$

Metric Formula		
to find	**given**	**formula**
m/min	D (mm) RPM	$m/min = \frac{\pi \times D}{1000} \times RPM$
RPM	D (mm) m/min	$RPM = \frac{m/min \times 1000}{D \times \pi}$

Legend

IPM	=	inch per minute
SFM	=	surface feet per minute
m/min	=	meters per minute
RPM	=	revolutions per minute
D	=	part diameter
π	=	3.1416

Maximum Cutting Speeds

On older machines cutting speed is often limited by the maximum travel speed (IPM or mm/min) of the tool allowed by the machine. Check your maximum speed with the following formulas:

inch formula: maximum cutting speed (SFM) =
part diameter (inch) x 3.14 x TPI x $\frac{\text{max IPM}}{12"}$

metric formula: maximum cutting speed (m/min) =
part diameter (mm) x 3.14 x (1/pitch) x $\frac{\text{max mm/min}}{1000mm}$

Flank clearance

γ = arctan (sin (β/2) * tan(α))
γ = side (flank) clearance
β = included angle of thread form
α = radial inclination angle

Thread	Angle	External	Internal
UN & ISO	60	5.3	8
BSW	55	4.8	7.3
TR	30	2.6	4
ACME	29	2.6	3.9
AMBUT	7	.6	.9
AMBUT	45	4	6

Recommendation for Threading Infeed Passes

TPI	48–32	28–24	20–16	14–12	11.5–9	8–6	5–4	3–2
metric pitch (mm)	0,50–0,75	0,80–1	1,25–1,5	1,75–2	2,5–3	3,5–4	4,5–6	8
Thread Type	**recommended number of passes**							
Common V-thread forms ISO, UN, UNJ, NPT, Whitworth, BSPT, API Rotary Shoulder	4–5	5–6	6–8	8–10	9–12	12–15	14–16	15–25
Acme, Trapez, Round, API Round	—	—	5–6	7–8	10–11	12–13	13–15	18–20
Stub Acme, API Buttress	—	—	5	5–6	7–8	8–10	10–12	14–16
American Buttress	—	—	7–8	9–10	11–12	13–15	17–19	22–24

NOTE: Maintain minimum .002" (0,05mm) infeed on last passes to avoid work hardening and excessive abrasion of the threading tool.

Constant Volume Infeed Values for Threading Operations

In most applications, use of CNC canned cycles produces only marginally successful results. For example, an 8-pitch external thread has a depth of .0789" (2mm).

$$\Delta ap_x = \frac{ap}{\sqrt{nap-1}} * \sqrt{\phi}$$

Formula for constant chip load infeed

Δap = radial infeed
x = actual pass (from 1 to the nap)
nap = number of passes
ϕ = 1st pass, 0.3
2nd pass, 1
3rd pass and up, x-1

Using Radial Infeed

Bending stress on the cutting edge caused by V-shaped chips from long-chipping steel workpiece materials.

High cutting forces with small cutting thicknesses require sharp edges with high strength.

Using Flank Infeed

Lower bending stress and stabilized cutting edges produce more favorable chip shapes and larger cutting thicknesses.

Carbides with high hardness, good wear resistance, and temperature stability are advantageous.

Guidelines for Infeeds — How to Determine the Number and the Size of Passes

The number of passes “s” per thread is decisive for successful threading and crest turning. The following tables give standard values for the application condition when machining steel. The proper number of passes must be determined empirically.

If insert breakage occurs, the number of passes must be increased. With increased wear, we recommend decreasing the number of passes. The chip thickness should not be less than .0019" (0,05mm). The allowance at the diameter should not exceed .0078" (0,2mm).

Metric ISO, External Thread Cutting

thread pitch P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (in)	.012	.018	.024	.030	.036	.042	.048	.060	.072	.085	.097	.109	.121
N Ap	4	4	5	6	6	8	8	10	12	14	15	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0038	0.0057	0.0066	0.0073	0.0088	0.0087	0.0099	0.0110	0.0119	0.0129	0.0142	0.0160	0.0171
2	0.0031	0.0047	0.0054	0.0061	0.0073	0.0072	0.0082	0.0090	0.0098	0.0107	0.0117	0.0132	0.0141
3	0.0029	0.0043	0.0050	0.0056	0.0067	0.0066	0.0075	0.0083	0.0090	0.0098	0.0107	0.0121	0.0129
4	0.0022	0.0033	0.0038	0.0043	0.0051	0.0050	0.0058	0.0064	0.0069	0.0075	0.0082	0.0093	0.0099
5			0.0032	0.0036	0.0043	0.0043	0.0049	0.0054	0.0058	0.0063	0.0069	0.0078	0.0084
6				0.0032	0.0038	0.0037	0.0043	0.0047	0.0051	0.0056	0.0061	0.0069	0.0074
7						0.0034	0.0039	0.0043	0.0046	0.0050	0.0055	0.0062	0.0067
8						0.0031	0.0036	0.0039	0.0043	0.0046	0.0051	0.0057	0.0061
9								0.0037	0.0040	0.0043	0.0047	0.0053	0.0057
10								0.0034	0.0037	0.0040	0.0044	0.0050	0.0054
11									0.0035	0.0038	0.0042	0.0047	0.0051
12									0.0034	0.0036	0.0040	0.0045	0.0048
13										0.0035	0.0038	0.0043	0.0046
14										0.0033	0.0037	0.0041	0.0044
15											0.0035	0.0040	0.0043
16													0.0041
T Ap (in)	0.012	0.018	0.024	0.030	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Metric ISO, Internal Thread Cutting

thread pitch P (mm)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50	4.00	4.50	5.00
T Ap	0.011	0.016	0.021	0.027	0.032	0.037	0.043	0.053	0.064	0.075	0.085	0.096	0.107
N Ap	4	4	5	6	6	8	8	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0035	0.0051	0.0058	0.0066	0.0078	0.0077	0.0089	0.0097	0.0111	0.0124	0.0129	0.0141	0.0151
2	0.0029	0.0042	0.0047	0.0055	0.0065	0.0063	0.0074	0.0080	0.0092	0.0102	0.0107	0.0116	0.0125
3	0.0026	0.0038	0.0043	0.0050	0.0059	0.0058	0.0067	0.0073	0.0084	0.0094	0.0098	0.0106	0.0114
4	0.0020	0.0029	0.0033	0.0038	0.0045	0.0044	0.0052	0.0056	0.0064	0.0072	0.0075	0.0082	0.0088
5			0.0028	0.0032	0.0038	0.0037	0.0044	0.0047	0.0054	0.0061	0.0063	0.0069	0.0074
6				0.0029	0.0034	0.0033	0.0038	0.0042	0.0048	0.0053	0.0056	0.0061	0.0065
7						0.0030	0.0035	0.0038	0.0043	0.0048	0.0050	0.0055	0.0059
8						0.0027	0.0032	0.0035	0.0040	0.0044	0.0046	0.0050	0.0054
9								0.0032	0.0037	0.0041	0.0043	0.0047	0.0050
10								0.0030	0.0035	0.0039	0.0040	0.0044	0.0047
11									0.0033	0.0037	0.0038	0.0042	0.0045
12										0.0035	0.0036	0.0040	0.0043
13											0.0035	0.0038	0.0041
14											0.0033	0.0036	0.0039
15												0.0035	0.0038
16													0.0036
T Ap	0.011	0.016	0.021	0.027	0.032	0.037	0.043	0.053	0.064	0.075	0.085	0.096	0.107

NOTE: Always allow .003–.005" extra stock for full profile inserts.

UN Thread, External Thread Cutting

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (in)	0.026	0.031	0.034	0.038	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121
N Ap	5	6	6	7	9	9	10	11	12	13	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0071	0.0076	0.0083	0.0085	0.0070	0.0081	0.0088	0.0104	0.0119	0.0134	0.0147	0.0160	0.0171
2	0.0059	0.0063	0.0069	0.0070	0.0058	0.0067	0.0072	0.0086	0.0098	0.0111	0.0122	0.0132	0.0141
3	0.0054	0.0057	0.0063	0.0064	0.0053	0.0062	0.0066	0.0079	0.0090	0.0102	0.0111	0.0121	0.0129
4	0.0041	0.0044	0.0048	0.0049	0.0040	0.0047	0.0051	0.0060	0.0069	0.0078	0.0086	0.0093	0.0099
5	0.0035	0.0037	0.0041	0.0042	0.0034	0.0040	0.0043	0.0051	0.0058	0.0066	0.0072	0.0078	0.0084
6		0.0033	0.0036	0.0037	0.0030	0.0035	0.0038	0.0045	0.0051	0.0058	0.0064	0.0069	0.0074
7				0.0033	0.0027	0.0032	0.0034	0.0040	0.0046	0.0052	0.0057	0.0062	0.0067
8					0.0025	0.0029	0.0031	0.0037	0.0043	0.0048	0.0053	0.0057	0.0061
9					0.0023	0.0027	0.0029	0.0035	0.0040	0.0045	0.0049	0.0053	0.0057
10							0.0027	0.0033	0.0037	0.0042	0.0046	0.0050	0.0054
11								0.0031	0.0035	0.0040	0.0044	0.0047	0.0051
12									0.0034	0.0038	0.0042	0.0045	0.0048
13										0.0036	0.0040	0.0043	0.0046
14											0.0038	0.0041	0.0044
15												0.0040	0.0043
16													0.0041
T Ap (in)	0.026	0.031	0.034	0.038	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121

NOTE: Always allow .003–.005" extra stock for full profile inserts.

UN Thread, Internal Thread Cutting

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap	.023	.027	.030	.034	.039	.045	.049	.054	.060	.068	.077	.090	.108
N Ap	5	6	6	7	8	9	9	10	11	12	13	14	15
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0066	0.0073	0.0076	0.0081	0.0087	0.0095	0.0099	0.0104	0.0112	0.0122	0.0137	0.0158
2	0.0052	0.0055	0.0061	0.0063	0.0067	0.0072	0.0078	0.0081	0.0086	0.0093	0.0101	0.0113	0.0131
3	0.0048	0.0050	0.0056	0.0057	0.0061	0.0066	0.0072	0.0075	0.0079	0.0085	0.0092	0.0103	0.0120
4	0.0037	0.0038	0.0043	0.0044	0.0047	0.0051	0.0055	0.0057	0.0060	0.0065	0.0071	0.0079	0.0092
5	0.0031	0.0032	0.0036	0.0037	0.0039	0.0043	0.0046	0.0048	0.0051	0.0055	0.0060	0.0067	0.0077
6		0.0029	0.0032	0.0033	0.0035	0.0038	0.0041	0.0042	0.0045	0.0048	0.0052	0.0059	0.0068
7				0.0030	0.0031	0.0034	0.0037	0.0038	0.0040	0.0044	0.0047	0.0053	0.0062
8					0.0029	0.0031	0.0034	0.0035	0.0037	0.0040	0.0044	0.0049	0.0057
9						0.0029	0.0032	0.0033	0.0035	0.0037	0.0041	0.0046	0.0053
10								0.0031	0.0033	0.0035	0.0038	0.0043	0.0050
11									0.0031	0.0033	0.0036	0.0041	0.0047
12										0.0032	0.0034	0.0039	0.0045
13											0.0033	0.0037	0.0043
14											0.0031	0.0035	0.0041
15													0.0039
16													
T Ap	0.023	0.027	0.030	0.034	0.039	0.045	0.049	0.054	0.060	0.068	0.080	0.090	0.108

NOTE: Always allow .003–.005" extra stock for full profile inserts.

NPT Thread, External, and Internal Machining

TPI	27	18	14	11.5	8
T Ap	0.030	0.044	0.056	0.068	0.098
N Ap	6	8	10	12	14
	values for flank infeed (X/Z)				
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0073	0.0091	0.0102	0.0112	0.0149
2	0.0061	0.0075	0.0084	0.0093	0.0123
3	0.0056	0.0069	0.0077	0.0085	0.0113
4	0.0043	0.0053	0.0059	0.0065	0.0086
5	0.0036	0.0045	0.0050	0.0055	0.0073
6	0.0032	0.0039	0.0044	0.0048	0.0064
7		0.0035	0.0040	0.0044	0.0058
8		0.0033	0.0037	0.0040	0.0053
9			0.0034	0.0037	0.0050
10			0.0032	0.0035	0.0047
11				0.0033	0.0044
12				0.0032	0.0042
13					0.0040
14					0.0038
15					
16					
T Ap	0.030	0.044	0.056	0.068	0.098

BSPT Thread, External, and Internal Machining

TPI	28	19	14	11
T Ap	0.023	0.034	0.046	0.057
N Ap	5	8	10	12
	values for flank infeed (X/Z)			
order of passes	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0070	0.0084	0.0094
2	0.0052	0.0058	0.0069	0.0078
3	0.0048	0.0053	0.0064	0.0071
4	0.0037	0.0041	0.0049	0.0055
5	0.0031	0.0034	0.0041	0.0046
6		0.0030	0.0036	0.0041
7		0.0027	0.0033	0.0037
8		0.0025	0.0030	0.0034
9			0.0028	0.0031
10			0.0026	0.0029
11				0.0028
12				0.0027
13				
14				
15				
16				
T Ap	0.023	0.034	0.046	0.057

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Trapezoid Thread to DIN 103, External, and Internal Machining

pitch	1.50	2.00	3.00	4.00	5.00
T Ap	0.040	0.049	0.069	0.089	0.108
N Ap	6	8	10	12	14
	values for flank infeed (X/Z)				
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0098	0.0101	0.0126	0.0147	0.0164
2	0.0081	0.0084	0.0104	0.0121	0.0135
3	0.0074	0.0077	0.0095	0.0111	0.0124
4	0.0057	0.0059	0.0073	0.0085	0.0095
5	0.0048	0.0050	0.0062	0.0072	0.0080
6	0.0042	0.0044	0.0054	0.0063	0.0071
7		0.0040	0.0049	0.0057	0.0064
8		0.0036	0.0045	0.0053	0.0059
9			0.0042	0.0049	0.0055
10			0.0039	0.0046	0.0051
11				0.0044	0.0049
12				0.0041	0.0046
13					0.0044
14					0.0042
15					
16					
T Ap	0.040	0.049	0.069	0.089	0.108

Round Thread to DIN 405, External, and Internal Machining

pitch	10	8	6
T Ap	0.052	0.064	0.085
N Ap	8	10	12
	values for flank infeed (X/Z)		
order of passes	X/Z	X/Z	X/Z
1	0.0108	0.0117	0.0140
2	0.0089	0.0096	0.0116
3	0.0081	0.0088	0.0106
4	0.0062	0.0068	0.0081
5	0.0053	0.0057	0.0069
6	0.0046	0.0050	0.0061
7	0.0042	0.0046	0.0055
8	0.0039	0.0042	0.0050
9		0.0039	0.0047
10		0.0037	0.0044
11			0.0042
12			0.0040
13			
14			
15			
16			
T Ap	0.052	0.064	0.085

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Whitworth, External, and Internal Thread Cutting

TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap	0.023	0.032	0.032	0.034	0.040	0.053	0.058	0.064	0.071	0.080	0.091	0.107	0.128
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0078	0.0078	0.0070	0.0083	0.0103	0.0112	0.0117	0.0123	0.0132	0.0138	0.0157	0.0181
2	0.0052	0.0065	0.0065	0.0058	0.0068	0.0085	0.0093	0.0096	0.0102	0.0109	0.0114	0.0129	0.0149
3	0.0048	0.0059	0.0059	0.0053	0.0063	0.0078	0.0085	0.0088	0.0093	0.0100	0.0105	0.0118	0.0137
4	0.0037	0.0045	0.0045	0.0041	0.0048	0.0060	0.0065	0.0068	0.0071	0.0077	0.0080	0.0091	0.0105
5	0.0031	0.0038	0.0038	0.0034	0.0041	0.0050	0.0055	0.0057	0.0060	0.0065	0.0068	0.0077	0.0089
6		0.0034	0.0034	0.0030	0.0036	0.0044	0.0048	0.0050	0.0053	0.0057	0.0060	0.0068	0.0078
7				0.0027	0.0032	0.0040	0.0044	0.0046	0.0048	0.0051	0.0054	0.0061	0.0071
8				0.0025	0.0030	0.0037	0.0040	0.0042	0.0044	0.0047	0.0050	0.0056	0.0065
9						0.0034	0.0037	0.0039	0.0041	0.0044	0.0046	0.0052	0.0060
10								0.0037	0.0039	0.0041	0.0043	0.0049	0.0057
11									0.0036	0.0039	0.0041	0.0046	0.0054
12										0.0037	0.0039	0.0044	0.0051
13											0.0037	0.0042	0.0049
14											0.0036	0.0040	0.0047
15												0.0039	0.0045
16													0.0043
T Ap	0.023	0.032	0.032	0.034	0.040	0.053	0.058	0.064	0.071	0.080	0.091	0.107	0.128

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Multi-Tooth Threads, Internal

	ISO metric						ISO UN					Whitworth	NPT		
type	3M	2M	3M	2M	3M	2M	2M	3M	2M	3M	2M	2M	2M	3M	2M
pitch (mm)	1.0	1.5	1.5	2.0	2.0	3.0	—	—	—	—	—	—	—	—	—
TPI	—	—	—	—	—	—	16	16	12	12	8	11	11.5	11.5	8
total depth	.024	.033	.033	.460	.460	.070	.037	.037	.490	.490	.740	.620	.690	.690	.100
1	.013	.015	.020	.020	.028	.022	.017	.022	.022	.030	.023	.029	.023	.032	.035
2	.011	.010	.013	.015	.018	.019	.012	.015	.016	.019	.020	.019	.020	.022	.025
3	—	.008	—	.011	—	.017	.008	—	.011	—	.017	.014	.014	.015	.022
4	—	—	—	—	—	.012	—	—	—	—	.014	—	.012	—	.018

Recommendations for Steel Workpieces (<300 BHN)

			total depth — on radius		
catalog number	insert size	TPI profile	1st pass	2nd pass	3rd pass
NTC-8R/L8EM	8	8 UN	.048	.064	.079
NTC-8R/L8IM	8	8 UN	.047	.061	.074
NTC-8R/L10EM	8	10 UN	.036	.050	.063
NTC-8R/L10IM	8	10 UN	.035	.048	.060
NTC-8R/L12EM	8	12 UN	.030	.041	.052
NTC-8R/L12IM	8	12 UN	.030	.037	.047
NTC-8R/L14EM	8	14 UN	.027	.037	.044
NTC-8R/L14IM	8	14 UN	.024	.031	.041
NTC-8R/L16EM 8	8	16 UN	.023	.032	.038
NTC-8R/L16IM	8	16 UN	.020	.027	.037
NTC-8R/L18EM	8	18 UN	.019	.026	.034
NTC-8R/L18IM	8	18 UN	.019	.024	.033
NDC-68RDR/L-75M	8	8 round	.058	.065	.073
NDC-61RDR/L-75M	8	10 round	.044	.051	.057
NDC-88RDRD/L-75M	8	8 round	.051	.069	.073
NDC-88VR/L-75M	8	8 NPT	.040	.068	.096
NDC-8115VR/L-75M	8	11.5 NPT	.038	.054	.067
NDN-814VR/L-75M	8	14 NPT	.038	.054	.054

NOTE: Always allow .003–.005" extra stock for full profile inserts.

ACME, External

pitch, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
depth	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
number of passes	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

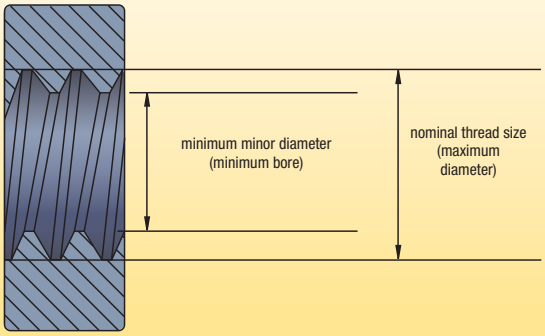
NOTE: Always allow .003–.005" extra stock for full profile inserts.

ACME, Internal

pitch, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
depth	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
number of passes	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

NOTE: Always allow .003–.005" extra stock for full profile inserts.

The following charts list the largest thread pitch that can be applied on internal applications using Top Notch threading inserts for 60° V-threading and Acme threading.



Inch-Sized 60° V-Threading Limits
internal threading limitations
NT-1, NT-2 V-threading inserts

TPI	nominal thread size		minimum minor diameter (inch)	
	NT-1	NT-2	NT-1	NT-2
6	1-7/8	—	1.695	—
7	1-3/4	—	1.595	—
8	1-5/8	—	1.490	—
9	1-9/16	—	1.442	—
10	1-1/2	15/16	1.392	.830
11	1-7/16	15/16	1.339	.830
11-1/2	1-3/8	15/16	1.281	.830
12	1-3/8	9/16	1.285	.472
13	1-5/16	9/16	1.229	.472
14	1-1/4	9/16	1.173	.472
16	1-1/4	9/16	1.182	.472
18	1-1/8	9/16	1.065	.472
20	1-1/8	1/2	1.071	.440
24*	1-1/16	1/2	1.017	.440

*Twenty-four threads per inch and finer can be cut with an NT-2 insert provided the minor diameter is 1.000" or larger (.440" or larger with NT-1).

internal threading limitations
NT-3 and- 4 V-threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4**	3	2.729
4-1/2**	2-7/8	2.634
5	2-3/4	2.534
6	2-1/2	2.320
7	2-1/4	2.095
8	2	1.865
9	1-15/16	1.817
10	1-7/8	1.767
11	1-13/16	1.714
11-1/12	1-3/4	1.656
12	1-3/4	1.660
13	1-5/8	1.542
14	1-9/16	1.485
16*	1-7/16	1.370

*Sixteen threads per inch and finer can be cut provided minor diameter is 1.370" or larger.
**NT-4 insert only.

Metric-sized 60° V-Threading Limits
internal threading limitations
NT-1, NT-2 60° V-threading inserts

TPI	nominal thread size		minimum thread diameter (inch)	
	NT-1	NT-2	NT-1	NT-2
4,00	M48 x 4.00	–	43,67	–
3,00	M42 x 3.00	–	38,75	–
2,50	M39 x 2.50	M24 x 2,50	36,29	21,29
2,00	M33 x 2.00	M15 x 2,00	30,84	12,84
1,75	M32 x 1.75	M15 x 1,75	30,11	13,11
1,50	M32 x 1.50	M15 x 1,50	30,38	13,38
1,25	M29 x 1.29	M14 x 1,25	27,65	12,65
1,00*	M27 x 1.00	M14 x 1,00	25,92	12,92
0,75	M22 x 0.75	M12 x 0,75	21,19	11,19

*Thread pitch of 1mm and less can be cut with an NT-2 insert provided the core thread diameter is 25mm or larger (11mm or larger with NT-1).

internal threading limitations
NT-3 and NT-4 60° V-threading inserts

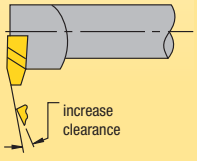
TPI	nominal thread size	minimum thread diameter (inch)
6,00**	M76 x 6.00	69,50
5,50**	M73 x 5.50	67,05
5,00	M70 x 5.00	64,59
4,00	M64 x 4.00	59,67
3,00	M52 x 3.00	48,75
2,50	M48 x 2.50	45,29
2,00	M42 x 2.00	39,84
1,75	M40 x 1.75	38,11
1,50*	M38 x 1.50	36,38

*Thread pitch of 1,5mm and less can be cut provided core thread diameter is 35mm or larger.
**NT-4-insert only.

Acme Threading Limits
internal threading limitations
NA and NAS-2, -3, -4, and -6 Acme threading inserts

TPI	nominal thread size	minimum thread diameter (inch)	
	NT-1	NT-1	NT-2
2**	5	4.500	114.3
2-1/2**	4-1/2	4.100	104.1
3**	4	3.665	93.1
4	3-1/2	3.250	82.6
5	3	2.800	71.1
6	2-1/2	2.333	59.3
8	2-1/4	2.125	54.0
10	2	1.900	48.3
12	1-3/4	1.667	42.4
14	1-5/8	1.554	39.5
16*	1-1/2	1.438	36.5

*Sixteen threads per inch and finer can be cut provided minor diameter is 1.438" (36,5mm) or larger.
**NA-6 insert only.



Additional secondary clearance can be ground on leading edge of insert to provide sufficient helical clearance for machining coarser threads and multiple start threads. Modified standard inserts may be furnished for machining threads outside of the limits shown.

Beyond™ Top Notch™ Profiling

The Top Notch system is the proven solution for high productivity. The Top Notch system provides consistent tool performance, accurate indexing, and superior clamping to provide excellent surface finishing and superior tool life.

FEATURES AND BENEFITS

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Reliability

- Predictable tool life/uniform wear.
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Versatility

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- Use in low- to high-speed applications.
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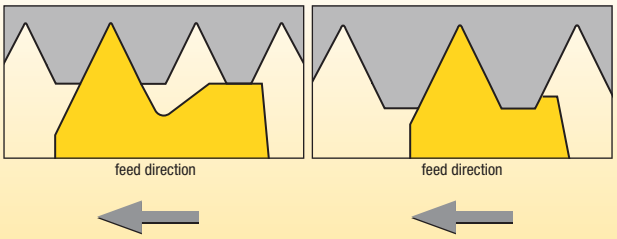
60° V-Thread Crest Turning Application Data



NTC crest turning insert for 12 threads per inch and finer (P ≤ 2mm).

NTC crest turning insert for 11 threads per inch and coarser (P ≥ 3mm).

NOTE: NTC inserts automatically control root to crest dimensions. Therefore, in setting up threading operations with NTC inserts, check the O.D. or I.D. at the thread crest for correct dimensions.

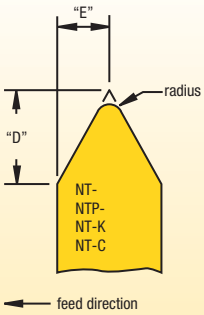
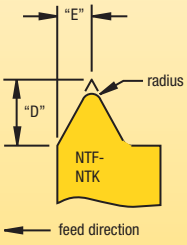
60° V-Thread Crest Turning Application Data

insert catalog number	nose radius on insert (inch)	thread radius per MIL-S-8879A (inch)
NJ-3014R/L12	.0125/.0135	.0125/.0150
NJK-3008R/L20	.0075/.0085	.0075/.0090

"J" thread note for catalog

The controlled root radius thread form (SAE8879C) is defined for the external thread only. To machine the corresponding internal thread, choose any insert that will cut a unified class 2B thread, then bore the minor diameter to size. Refer to SAE8879C and MIL-S-8879C and SAEAS8879D for the correct "J" thread minor diameter values.

60° V-Thread Application Data

insert description	insert	D** (inch)	E** (inch)	recommended TPI*		recommended TP*	
				external	internal	external	internal
	NT-1	.075	.044	–	24–12	–	1,00–2,00
	NT-2	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NT-2-K	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NTF-2	.062	.040	44–14	24–12	0,60–1,75	1,00–2,00
	NTK-2	.062	.040	44–14	24–12	0,60–1,75	1,00–2,00
	NTP-2	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NT-3	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-K	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-C	.148	.097	11–6	6 (only)	2,50–4,00	4,00 (only)
	NT-3-CK	.148	.097	11–6	6 (only)	2,50–4,00	4,00 (only)
	NTF-3	.083	.054	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-3	.083	.054	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-3	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-4	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-K	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25
	NTP-4	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25

*Based on maximum insert radius size and class 2A and 2B thread specifications.
**For metric D and E dimensions, multiply by 25,4.

API Thread Forms • Insert Applications Chart for API Rotary Shouldered Connections

thread form	Kennametal insert		tool joint application	minimum box size*
	cresting	non-cresting		
V-.038R 2" TPF 4 TPI	NDC-4038R/L2 4-E/IR4API382	ND-3038R/L	2-3/8 API internal flush 2-7/8 API internal flush 3-1/2 API internal flush 4 API internal flush 4-1/2 API internal flush 5-1/2 API internal flush 6-5/8 API internal flush 4 API full hole API #23, API #26, API #31, API #35, API #38, API #40, API #44, API #46, API #50	API #31 2-7/8 IF
V-.038R 3" TPF 4 TPI	NDC-4038R/L3 4-E/IR4API383	ND-3038R/L	API #56 API #61 API #70 API #77	API #56
V-.050 2" TPF 4 TPI	NDC-4050R/L2 4-E/IRAPI502	ND-4050R/L	5-1/2 API full hole 6-5/8 API regular 6-5/8 API full hole	5-1/2 API full hole
V-.050 3" TPF 4 TPI	NDC-4050R/L3 4-E/IR4API503	ND-4050R/L	5-1/2 API regular 7-5/8 API regular 8-5/8 API regular	5-1/2 API regular
V-.040 3" TPF 5 TPI	NDC-3040R/L3 NDC-4040R/L3 4-E/IR5API403	ND-3040R/L ND-4040R/L	2-3/8 API regular 2-7/8 API regular 3-1/2 API regular 4-1/2 API regular	3-1/2 API regular

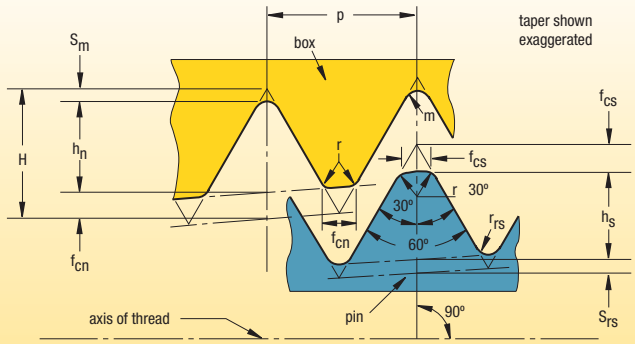
*Minimum box size that can be threaded with a standard Top Notch insert due to minimum bore equipment.

API Thread Forms
Product Thread Dimensions • Rotary Shouldered Connections (Inch)

thread form	taper inch per ft.	thread height, not truncated H	thread height, truncated $h_n=h_s$	root truncation $S_m=S_{rs}$ $f_m=f_{rs}$	crest truncation $f_{cn}=f_{cs}$	width of flat		root radius $r_m=r_{rs}$	radius at thread corners r	pitch p
						crest $f_{cn}=f_{cs}$	crest $f_m=f_{rs}$			
V-.038R	2	.216005	.121844	.038000	.056161	.065	—	.038	.015	.250
V-.038R	3	.215379	.121381	.038000	.055998	.065	—	.038	.015	
V-.040	3	.172303	.117842	.020000	.034461	.040	—	.020	.015	.250
V-.050	3	.215379	.147303	.025000	.043076	.050	—	.025	.015	
V-.050	2	.216005	.147804	.025000	.043201	.050	—	.025	.015	.250

NOTE: All dimensions in inches.

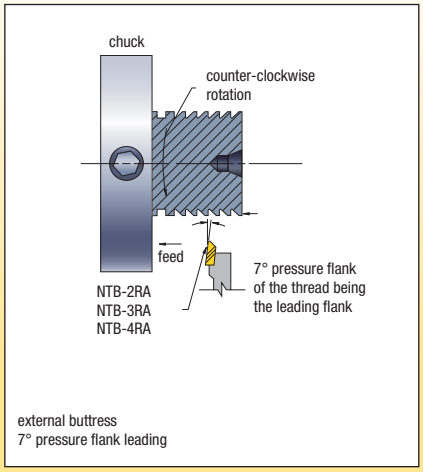
V-.040 and V-.050 Product Thread Form

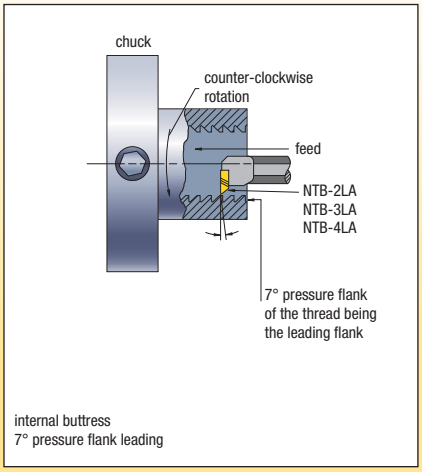


Casing and Tubing Round Thread (Height Dimensions)

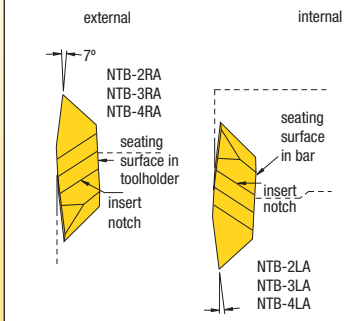
thread element		10 TPI p= .1000	8 TPI p= .1250
H	= .866p	.08660	.10825
$H_s = h_n$	= .626p - .007	.05560	.07125
$S_{rs} = S_m$	= .120p + .002	.01400	.01700
$S_{cs} = S_{cn}$	= .120p + .005	.01700	.02000

American Buttress (7° Pressure Flank Leading) NTB-A Inserts • Push Type

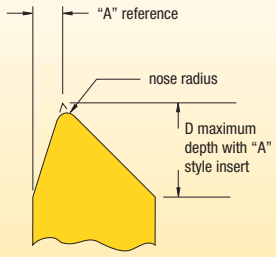




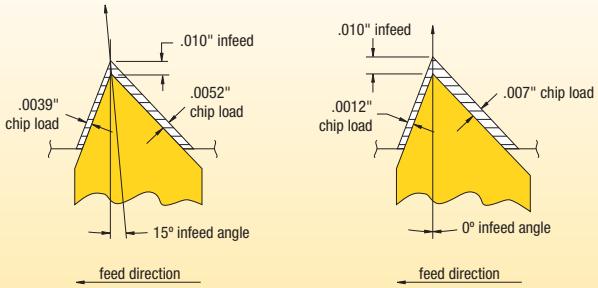
Insert vs. Toolholder Orientation



Reference Dimensions



Infeed Angle vs. Chip Load: 7° Pressure Flank Leading



NTB-A insert

insert	D (inch)	"A" ref. (inch)	nose radius (inch)	pitch based on maximum radius
NTB-2A	.133	.024	.002–.004	16–20 TPI
NTB-3A	.171	.031	.005–.008	8–16 TPI
NTB-4A	.218	.049	.008–.012	4–6 TPI

NOTE: For balanced chip load, 15° infeed angle is suggested.

Internal Threading Limitations

internal threading limitations
NTB-2A Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

internal threading limitations
NTB-3 and NTB-4A Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4*	2-1/2	2.200
5	2-1/4	2.010
6	2	1.800
8	1-3/4	1.600
10	1-5/8	1.505
12**	1-1/2	1.400

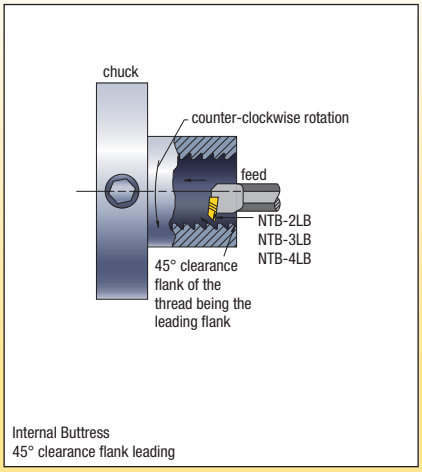
*NTB-4A insert only.
**Can cut 16 or 20 threads per inch provided minor diameter is 1.375" or larger.

Threads per Inch vs. Maximum Root Radius Chart (Inch)

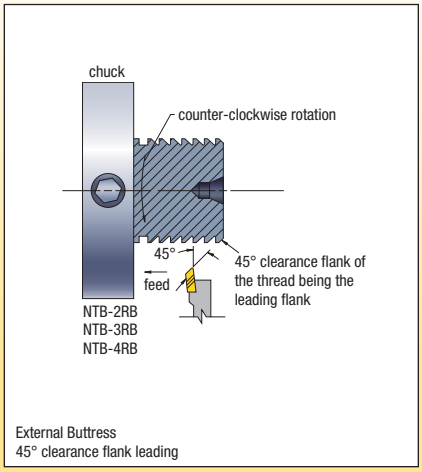
TPI	20	16	12	10	8	6	5	4	3	2-1/2	2	1-1/2	1-1/4	1
maximum root radius	.0036	.0045	.0059	.0071	.0089	.0119	.0143	.0179	.0238	.0268	.0375	.0476	.0572	.0714

NOTE: Special Buttress forms are available upon request.

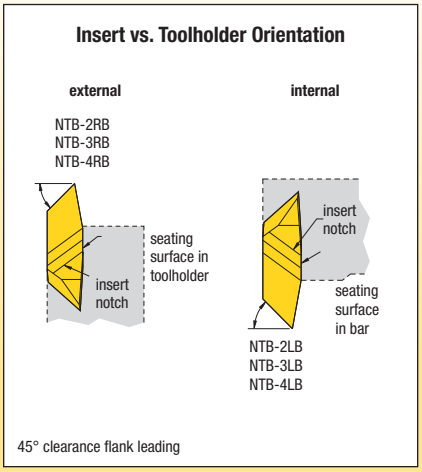
American Buttress (45° Clearance Flank Leading): NTB-B Inserts • PULL-type



Internal Buttress
45° clearance flank leading

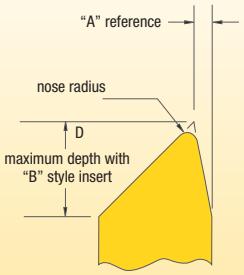


External Buttress
45° clearance flank leading

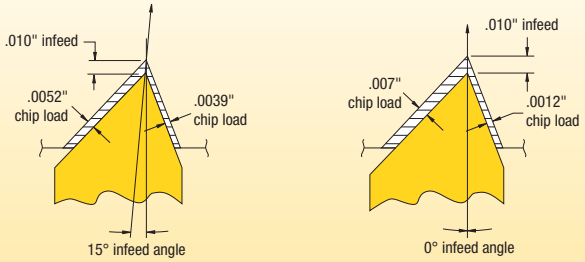


45° clearance flank leading

Reference Dimensions



Infeed Angle vs. Chip Load: 45° Clearance Flank Leading



NTB-B insert

insert	D (inch)	"A" reference (inch)	nose radius (inch)	pitch based on maximum radius
NTB-3B	.171	.031	.005–.004	8–16 TPI

NOTE: For balanced chip load, a reverse 15° infeed angle is suggested.

Internal Threading Limitations

internal threading limitations
NTB-2B Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

internal threading limitations
NTB-3 and NTB-4B Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4*	2-7/8	2.575
5	2-3/4	2.510
6	2-3/8	2.175
8	2-1/8	1.975
10	1-7/8	1.755
12	1-5/8	1.525
16	1-1/2	1.407
20	1-7/16	1.378

*NTB-4B insert only.

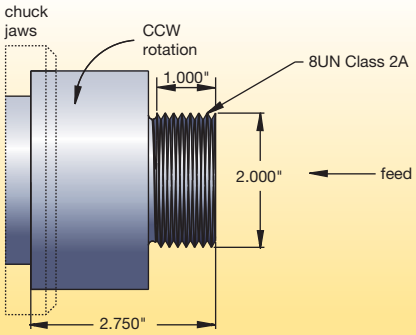
Required Information

From Part Drawing:

material:	316SS, 200 HB
thread form:	8UN
tolerance:	class 2A
operation:	external threading
pitch diameter:	2.00" x 1.00" deep

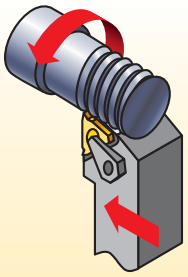
From Machine Setup Data:

tooling:	.750" x .750"
spindle rotation:	counter-clockwise
feed:	toward chuck



Steps for a Successful Threading Operation

Step 1 • Determine Threading Method



Need to Know:

- Operation (external).
- Spindle rotation (CCW).
  Counter-clockwise rotation.
- Feed direction (toward chuck).
- Right-hand toolholder.
- Right-hand insert (ER).
- Standard helix method.

Step 2 • Select Insert

Need to Know:

- Thread form (8 UN Class 2A).
- Hand of insert (right hand — ER).

Choose the High-Performance Solution

catalog number	insert size	KCU25/ KC5025
3ER8UN	3"	•

High-Performance Selection

NOTE: Use insert with largest IC available.

insert:	3ER8UN
grade:	KCU25/KC5025
speed:	500 SFM

Step 3 • Select the Grade and Speed

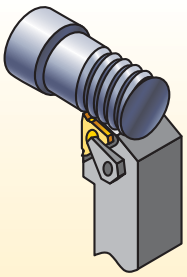
Need to Know:

- Workpiece material (316SS-200HB).
- Operation (external).

Options: Grade and Speed Selection Guidelines

threading operation	stainless steel
external	general purpose and high performance
	KC5025
	150–450 SFM

Step 4 • Select Toolholder



Need to Know:

- External or internal operation (external).
- Pitch diameter to determine minimum bore diameter (N/A).
- Type of tooling — toolholder, boring bar (toolholder).
- Hand of tool (right hand).
- Insert size (3/8").

Options:

catalog number	insert size	shim
LSASR-123	3"	SM-YE3

First choice: LSASR-123 holder

Step 5 • Select Shim

Need to Know:

- Thread form — TPI or pitch (8 TPI).
- Pitch diameter (2").
- Helix method (standard). See Laydown Threading (LT) shim selection chart.

Select SM-YE3 shim

NOTE: The SM-YE3 shim is supplied with the selected toolholder.

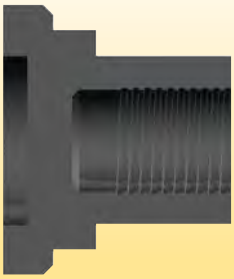
Required Information

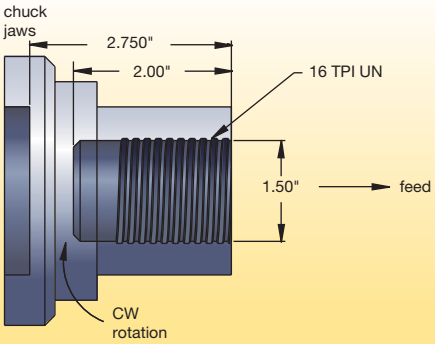
From Part Drawing:

material:	4140 steel
thread form:	16 TPI UN
tolerance:	class 2B
operation:	internal threading
pitch diameter:	1.5" x 2" deep

From Machine Setup Data:

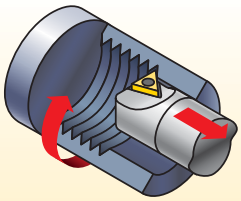
tooling:	.075" boring bar
spindle rotation:	clockwise
feed:	away from chuck





Steps for a Successful Threading Operation

Step 1 • Determine Threading Method



Need to Know:

- Operation (internal).
- Spindle rotation (CW). *Clockwise rotation.*
- Feed direction (away from chuck).
- Left-hand toolholder.
- Left-hand insert (NL).
- Reverse helix method.

Step 2 • Select Insert

Need to Know:

- Thread form (16UN Class 2B).
- Hand of insert (left hand — NL).

Choose the High-Performance Solution

catalog number	insert size	KCU25/ KC5025
2ILA60	2"	•
3ILA60	3"	•

High-Performance Selection

NOTE: Use insert with largest possible IC to go into the bore.

insert:	3ILA60
grade:	TN6025
speed:	450 SFM

Step 3 • Select the Grade and Speed

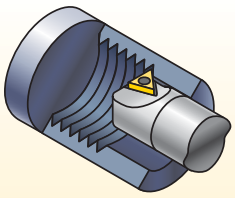
Need to Know:

- Workpiece material (4010 steel).
- Operation (internal).

Options: Grade and Speed Selection Guidelines

threading operation	steel
internal	general purpose and high performance
	KC5025
	100–550 SFM

Step 4 • Select Toolholder



Need to Know:

- External or internal operation (internal).
- Pitch diameter to determine minimum bore diameter for internal operations (1.5").
- Type of tooling — toolholder, boring bar (boring bar).
- Hand of tool (left hand).
- Insert size (3/8").

Options:

catalog number	insert size	minimum bore diameter	shim
S1212-LSEL3	3"	.90	SM-YE3
S0812-LSEL2	2"	.65	—

First choice: LSASR-123 holder

Step 5 • Select Shim

Need to Know:

- Thread form — TPI or pitch (8 TPI).
- Pitch diameter (2").
- Helix method (standard). See Laydown Threading (LT) shim selection chart.

Select SM-YE3 shim

NOTE: For this application, the standard shim supplied should be replaced with the recommended shim, SM-YE3-2N.

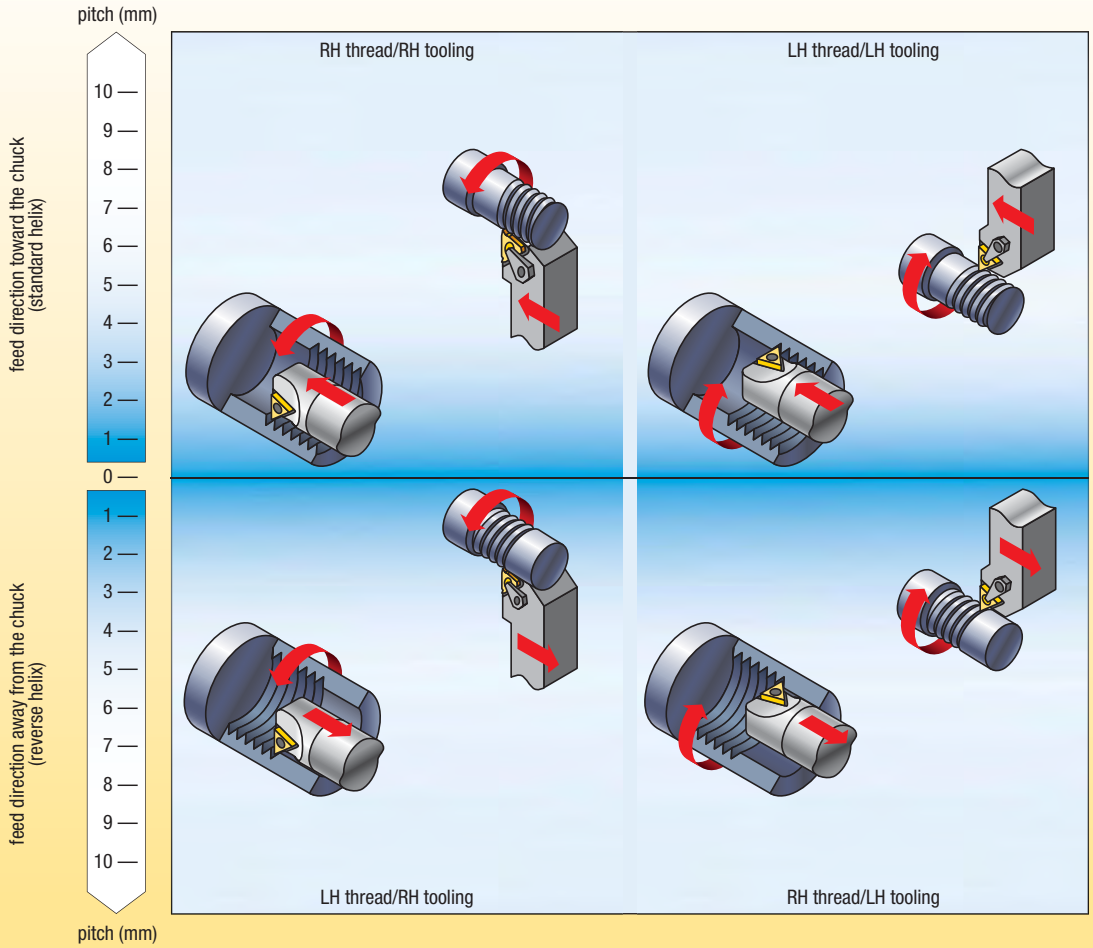
Laydown Threading Shim Selection Guidelines

It is essential to select the correct shim to ensure thread quality and maximum tool life. These parameters are needed:

- Pitch
- Pitch diameter
- Number of starts
- Feed direction

NOTE: When considering method of thread cutting, the part's shape and stability and the flow of chips are determining factors in your decision.

Laydown Selection Chart



NOTE: For multi-start threads, use the lead value instead of the pitch.

Diagram of Thread Lead Angles

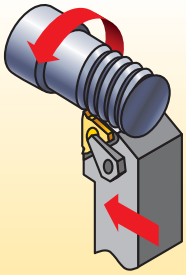
To calculate the lead angle of a given thread, use this formula:

$$ß = \text{Arctan} \frac{P \bullet S}{\pi D_e}$$

ß = thread lead angle
D_e = effective pitch diameter of thread wear
P = 1/TPI
TPI = threads per inch
S = number of starts
single-start, lead = pitch
multiple-start, lead = pitch (x) number of starts

All toolholders are designed with an inclination angle = 1.5°. When turning standard threads with a lead angle of 1–2°, this guarantees adequate clearance at the flanks of the insert's thread tooth. The thread lead angle and the required inclination angle of the insert are given by ß.

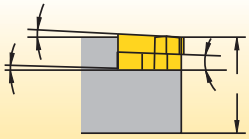
Cutting edge height is constant at every shim and insert combination. All toolholders are supplied with 1-1/2° lead angle.



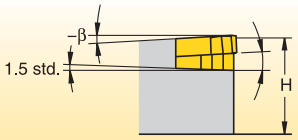
Laydown Threading Shim Selection Table • Inch

	toolholder		shim ordering code (inch)							
insert size	external	internal				standard				
3 (3/8")	RH	LH	SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3	SM–YE3–1N	SM–YE3–1.5N	SM–YE3–2N	SM–YE3–3N
3 (3/8")	LH	RH	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1.5N	SM–YI3–2N	SM–YI3–3N
4 (1/2")	RH	LH	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1.5N	SM–YE4–2N	SM–YE4–3N
4 (1/2")	LH	RH	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1.5N	SM–YI4–2N	SM–YI4–3N
TPI		pitch (mm)	pitch diameter (inch)							
72		–	–	–	–	0.12–0.31	0.32–0.84	>0.84	0.84–0.32	0.31–0.12
–		0,35	–	–	–	0.12–0.3	0.31–0.84	>0.84	0.84–0.31	0.3–0.12
64		–	–	–	–	0.14–0.35	0.36–0.95	>0.95	0.95–0.36	0.35–0.14
–		0,40	–	–	–	0.14–0.35	0.36–0.96	>0.96	0.96–0.36	0.35–0.14
56		0,45	–	–	–	0.16–0.4	0.41–1.09	>1.09	1.09–0.41	0.4–0.16
–		0,50	–	–	0.11–0.16	0.17–0.44	0.45–1.2	>1.20	1.2–0.45	0.44–0.17
48		–	–	–	0.12–0.17	0.18–0.46	0.47–1.27	>1.27	1.27–0.47	0.46–0.18
44		–	–	–	0.13–0.19	0.2–0.51	0.52–1.38	>1.38	1.38–0.52	0.51–0.2
–		0,60	–	0.1–0.12	0.13–0.2	0.21–0.53	0.54–1.44	>1.44	1.44–0.54	0.53–0.21
40		–	–	0.11–0.13	0.14–0.21	0.22–0.56	0.57–1.52	>1.52	1.52–0.57	0.56–0.22
–		0,70	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.68	>1.68	1.68–0.63	0.62–0.24
36		–	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.69	>1.69	1.69–0.63	0.62–0.24
–		0,75	0.11–0.12	0.13–0.16	0.17–0.25	0.26–0.66	0.67–1.8	>1.80	1.8–0.67	0.66–0.26
32		–	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.7	0.71–1.9	>1.90	1.9–0.71	0.7–0.27
–		0,80	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.71	0.72–1.91	>1.91	1.91–0.72	0.71–0.27
28		–	0.14–0.14	0.15–0.19	0.2–0.3	0.31–0.8	0.81–2.17	>2.17	2.17–0.81	0.8–0.31
27		–	0.14–0.15	0.16–0.2	0.21–0.31	0.32–0.83	0.84–2.25	>2.25	2.25–0.84	0.83–0.32
–		1,00	0.15–0.16	0.17–0.21	0.22–0.33	0.34–0.89	0.9–2.39	>2.39	2.39–0.9	0.89–0.34
24		–	0.16–0.17	0.18–0.23	0.24–0.35	0.36–0.94	0.95–2.53	>2.53	2.53–0.95	0.94–0.36
–		1,25	0.19–0.2	0.21–0.27	0.28–0.42	0.43–1.11	1.12–2.99	>2.99	2.99–1.12	1.11–0.43
20		–	0.19–0.21	0.22–0.27	0.28–0.42	0.43–1.13	1.14–3.04	>3.04	3.04–1.14	1.13–0.43
18		–	0.21–0.23	0.24–0.31	0.32–0.47	0.48–1.26	1.277–3.38	>3.38	3.38–1.27	1.26–0.48
–		1,50	0.22–0.25	0.26–0.33	0.34–0.5	0.51–1.34	1.35–3.59	>3.59	3.59–1.35	1.34–0.51
16		–	0.24–0.26	0.27–0.35	0.36–0.53	0.54–1.41	1.42–3.8	>3.80	3.8–1.42	1.41–0.54
–		1,75	0.26–0.29	0.3–0.38	0.39–0.59	0.6–1.56	1.57–4.19	>4.19	4.19–1.57	1.56–0.6
14		–	0.27–0.3	0.31–0.4	0.41–0.61	0.62–1.62	1.63–4.34	>4.34	4.34–1.63	1.62–0.62
13		–	0.29–0.32	0.33–0.43	0.44–0.66	0.67–1.74	1.75–4.68	>4.68	4.68–1.75	1.74–0.67
–		2,00	0.3–0.33	0.34–0.44	0.45–0.67	0.68–1.78	1.79–4.79	>4.79	4.79–1.79	1.78–0.68
12		–	0.32–0.35	0.36–0.46	0.47–0.71	0.72–1.89	1.9–5.07	>5.07	5.07–1.9	1.89–0.72
11.5		–	0.33–0.37	0.38–0.49	0.5–0.74	0.75–1.97	1.98–5.29	>5.29	5.29–1.98	1.97–0.75
11		–	0.34–0.38	0.39–0.51	0.52–0.78	0.79–2.06	2.07–5.53	>5.53	5.53–2.07	2.06–0.79
–		2,50	0.37–0.42	0.43–0.55	0.56–0.84	0.85–2.23	2.24–5.98	>5.98	5.98–2.24	2.23–0.85
10		–	0.38–0.42	0.43–0.56	0.57–0.86	0.87–2.27	2.28–6.08	>6.08	6.08–2.28	2.27–0.87
9		–	0.42–0.47	0.48–0.62	0.63–0.95	0.96–2.52	2.53–6.75	>6.75	6.75–2.53	2.52–0.96
–		3,00	0.45–0.5	0.51–0.66	0.67–1.02	1.03–2.68	2.69–7.18	>7.18	7.18–2.69	2.68–1.03
8		–	0.47–0.53	0.54–0.7	0.71–1.08	1.09–2.84	2.85–7.6	>7.60	7.6–2.85	2.84–1.09
–		3,50	0.52–0.59	0.6–0.77	0.78–1.19	1.2–3.13	3.14–8.38	>8.38	8.38–3.14	3.13–1.2
7		–	0.524–0.61	0.62–0.8	0.81–1.23	1.24–3.25	3.26–8.68	>8.68	8.68–3.26	3.25–1.24
–		4,00	0.6–0.67	0.68–0.89	0.9–1.36	1.37–3.58	3.59–9.57	>9.57	9.57–3.59	3.58–1.37
6		–	0.63–0.71	0.72–0.94	0.95–1.44	1.45–3.79	3.8–10.13	>10.13	10.13–3.8	3.79–1.45
–		5,00	0.75–0.84	0.85–1.11	1.12–1.7	1.71–4.48	4.49–11.97	>11.97	11.97–4.49	4.48–1.71
5		–	0.76–0.86	0.87–1.13	1.14–1.73	1.74–4.55	4.56–12.16	>12.16	12.16–4.56	4.55–1.74
4.5		–	0.84–0.95	0.96–1.26	1.27–1.92	1.93–5.06	5.07–13.51	>13.51	13.51–5.07	5.06–1.93
–		6,00	0.9–1.01	1.02–1.33	1.34–2.04	2.05–5.37	5.38–14.36	>14.36	14.36–5.38	5.37–2.05
4		–	0.95–1.07	1.08–1.41	1.42–2.16	2.17–5.69	5.7–15.2	>15.20	15.2–5.7	5.69–2.17
inclination angle			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			standard helix (feed toward the chuck)						reverse helix (feed away from the chuck)	

1. Select TPI or pitch from the left-hand columns.
2. Follow row to specified pitch diameter and the correct feed direction.
3. Follow the column to the top for the required shim based on the toolholder and insert size.



standard helix method:
Used when RH thread is cut with RH tool or LH thread with LH tool.



reverse helix method:
Used when RH thread is cut with LH tool or when LH thread is cut with RH tool.

Application Specific

Fix-Perfect E2–E23

Top Notch Profiling E24–E49

Railroad Machining E50–E67

K-Lock Inserts ..... E68 –E71

Fix-Perfect™

Precision Ground Insert Program Goes Above and Beyond!

The breakthrough performance characteristics of these precision ground inserts enable outstanding indexing accuracy and excellent chip flow when machining steel, cast iron, and stainless steel workpiece materials.

Fix-Perfect Beyond inserts are the ideal solution to machining operations in a multitude of industries, including fluid power, energy, automotive, heavy equipment, and general engineering applications.

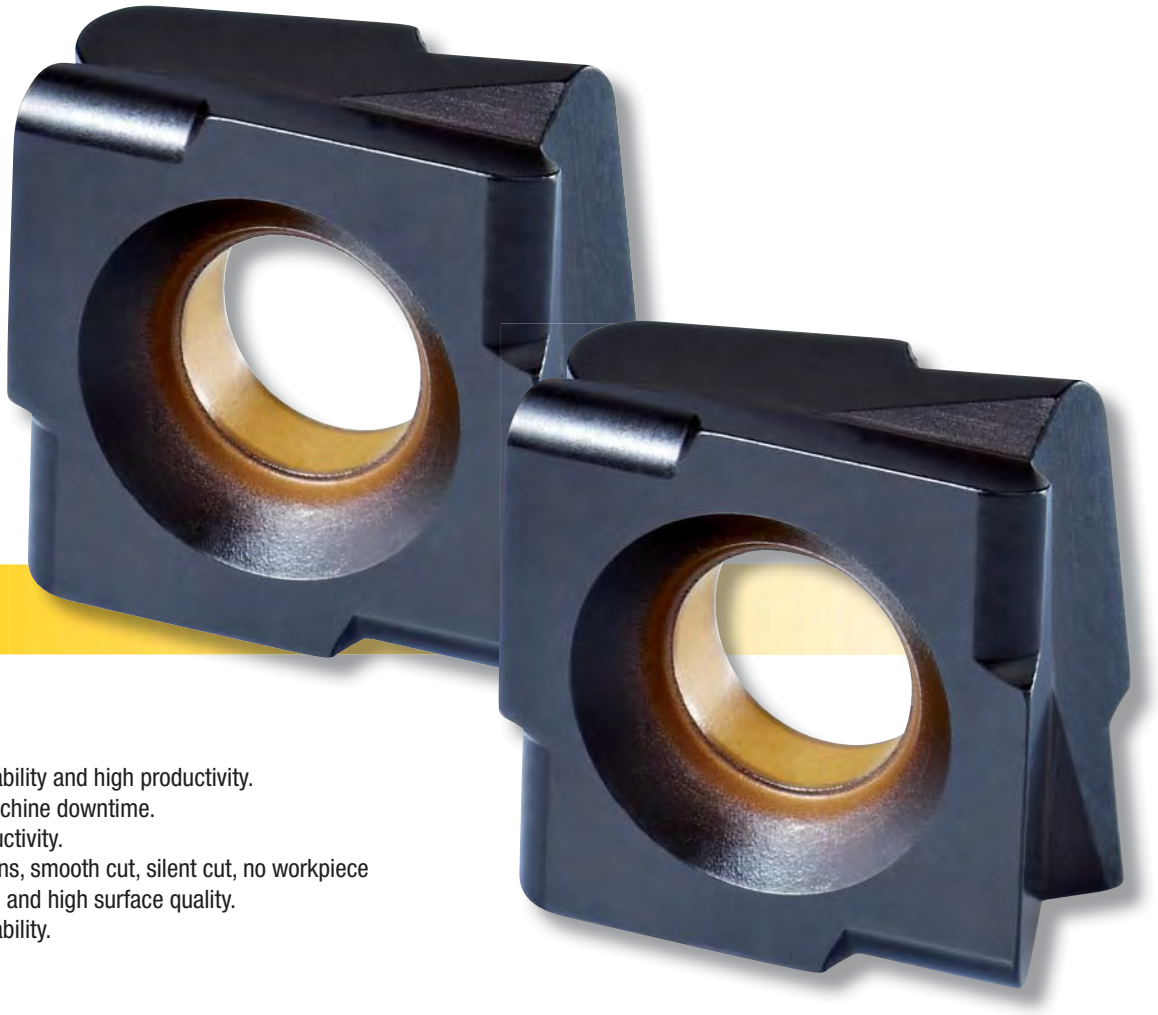
Features, Functions, and Benefits

Features

- Tangential design.
- Rigid clamping system.
- Up to eight cutting edges (protected by pocket seat).
- Positive geometry.
- Precision ground insert.

Functions

- Stable system.
- Very stable clamping system and quick and easy cutting edge switch.
- Use up to eight edges per insert.
- Very low cutting forces and excellent chip control.
- Better indexing accuracy.

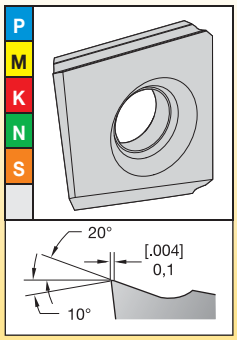


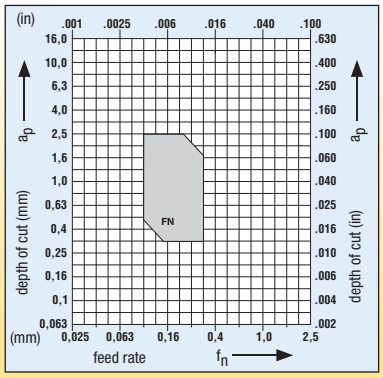
Benefits

- Process reliability and high productivity.
- Reduced machine downtime.
- Higher productivity.
- Low vibrations, smooth cut, silent cut, no workpiece deformation, and high surface quality.
- Process reliability.

Finishing

D2FIX-FN

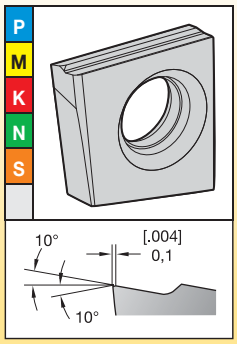


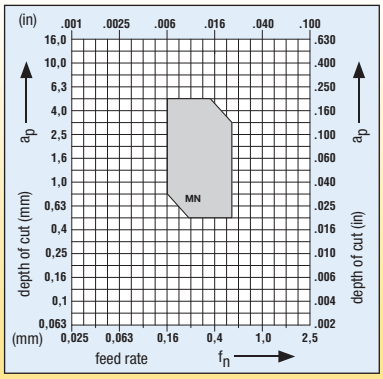


P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

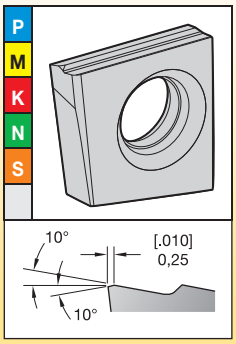
Medium Machining

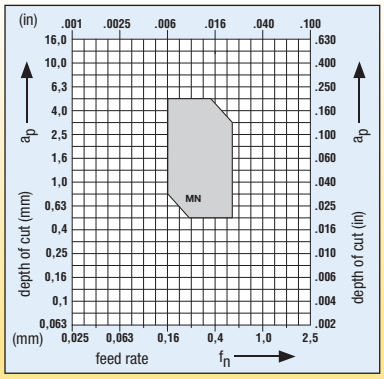
C2FIX15-MN



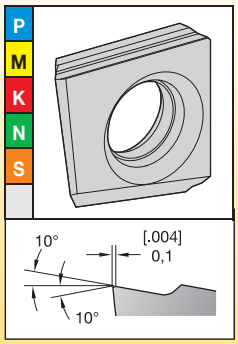


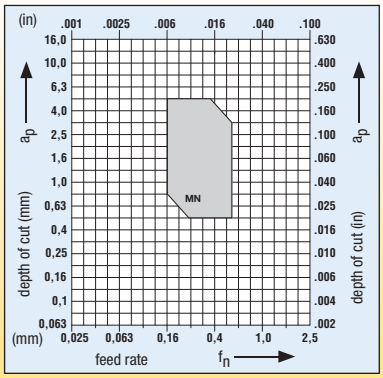
C2FIX18-MN



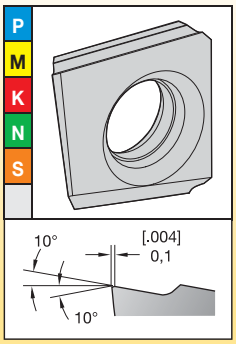


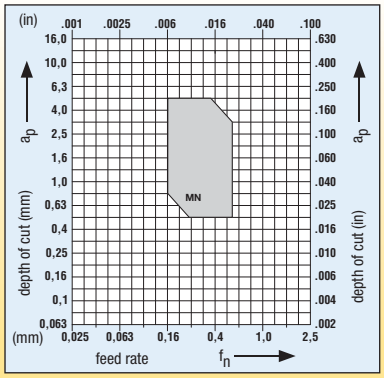
D2FIX-MN



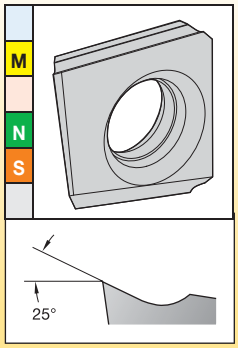


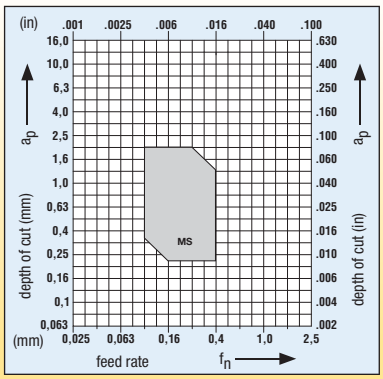
K2FIX-MN



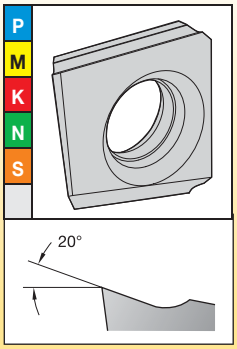


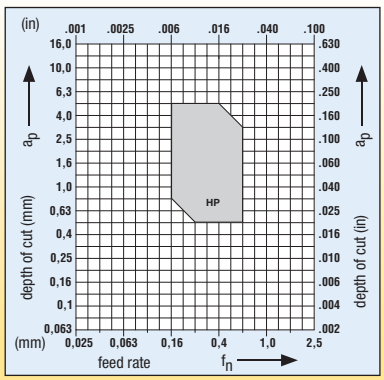
D2FIX-MS





D2FIX-HP

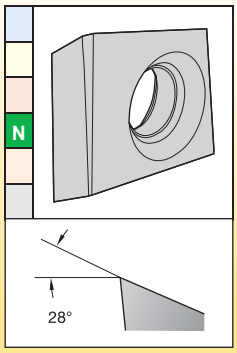


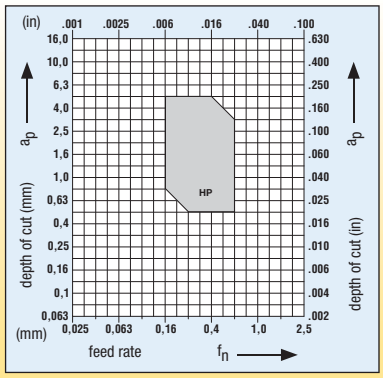


Medium Machining

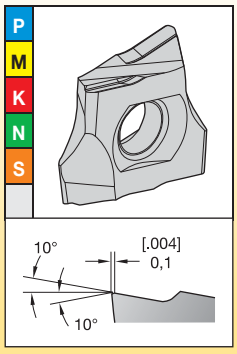
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

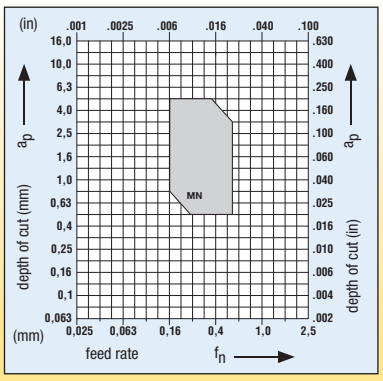
E2FIX-HP



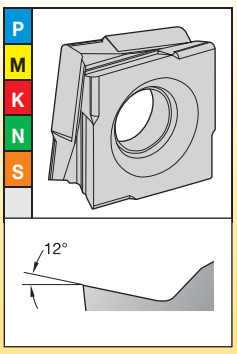


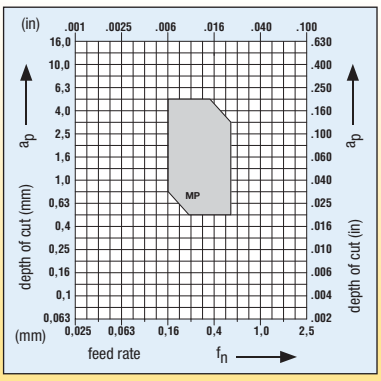
D4FIX-MN





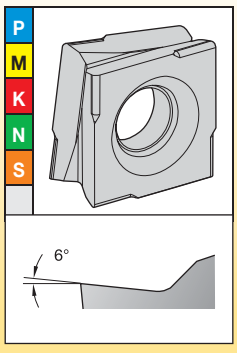
C8FIX-MP

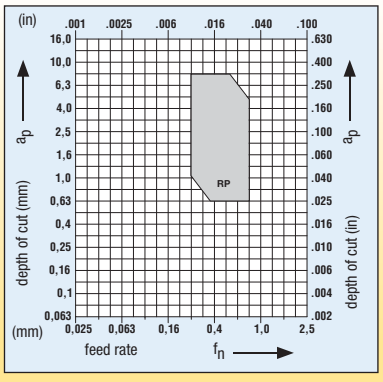




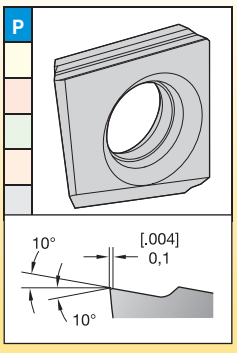
Roughing

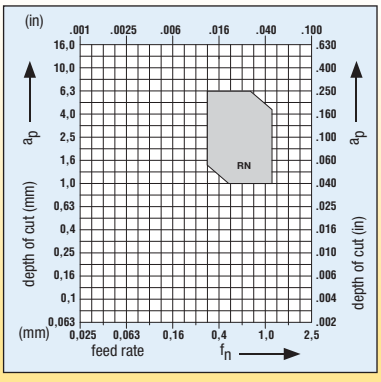
C8FIX-RP



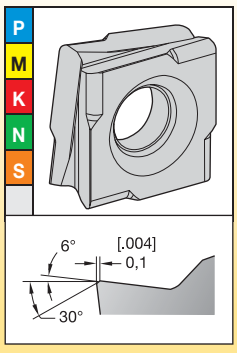


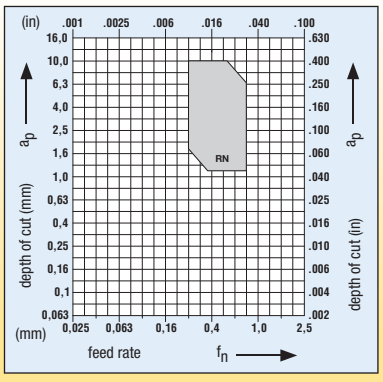
D2FIX-RN



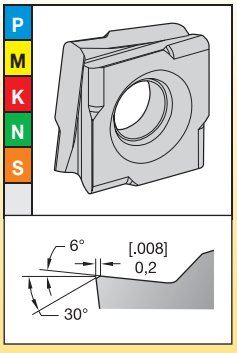


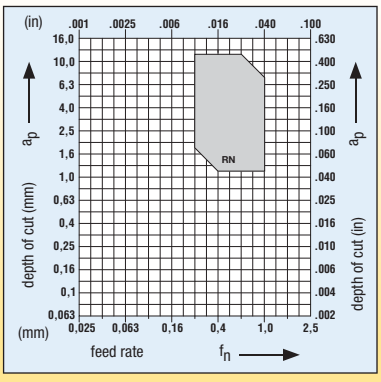
C8FIX15-RN





C8FIX18-RN





Select the Insert Geometry

8-Edged Inserts

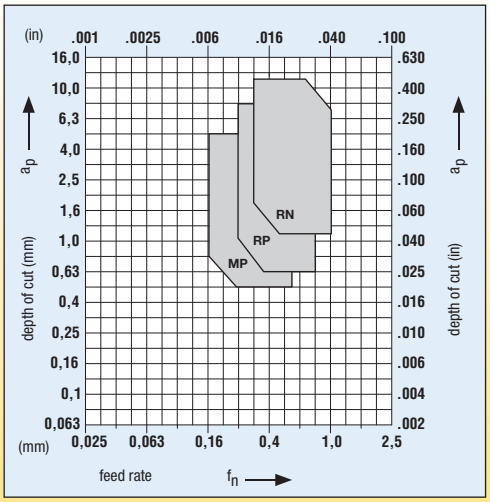
Roughing
Interrupted cut and/or heavy scale
USE: -RP OR -RN

-RP

-RN

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -MP

-MP

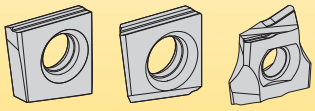


2- and 4-Edged Inserts

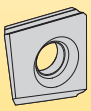
Roughing
Interrupted cut and/or heavy scale
USE: -RN

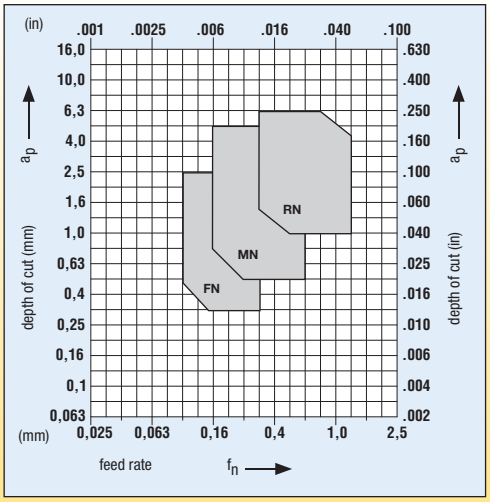
-RN

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -MN


-MN

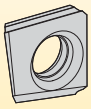
Finishing
Non-interrupted cut, not scale
USE: FN

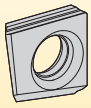

-FN

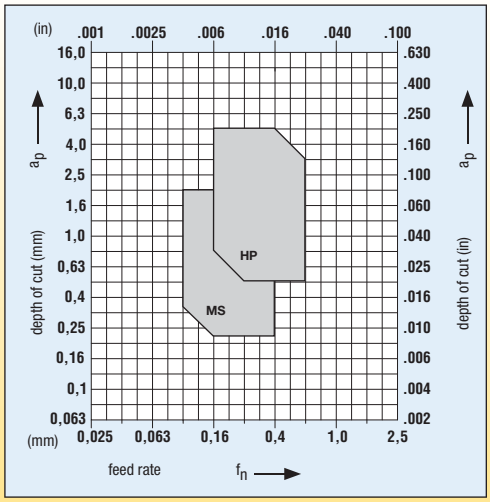


2-Edged Inserts, High Positive

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -HP OR -MS


-HP


-MS



Select the grade

	P	M	K	N	S	H
heavily interrupted	KCP40/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
lightly interrupted	KCP25/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
varying depths of cut	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10
smooth	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10

Select the cutting speed

Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	60 (200)	90 (300)	120 (400)	105 (500)	185 (617)	215 (717)	245 (800)	275 (900)	300 (1000)	m/min	SFM
P	KCP40				◁▷						150	500
	KCU10						◁▷				200	650
	KCP25						◁▷				200	650
	KCP10							◁▷			250	180

Stainless Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	45 (150)	70 (233)	90 (300)	115 (383)	140 (467)	165 (550)	185 (617)	210 (700)	230 (767)	m/min	SFM
M	KCP40					◁▷					140	450
	KCM15						◁▷				165	550
	KCU25						◁▷				165	550
	KCU10							◁▷			185	600

Cast Iron — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	m/min	SFM
K	KCU25			◁▷							140	450
	KCU10			◁▷							165	550
	KCP25				◁▷						165	550
	KCP10					◁▷					185	600

Non-Ferrous — speed — m/min (SFM) — starting conditions ◁▷

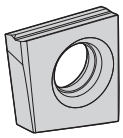
material group	grade	150 (500)	225 (750)	300 (1000)	380 (1267)	460 (1533)	535 (1783)	610 (2033)	685 (2283)	760 (2533)	m/min	SFM
N	KCU10					◁▷					460	1500

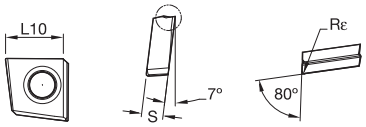
High-Temperature Alloys — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	95 (317)	120 (400)	140 (467)	m/min	SFM
S	KCU25		◁▷								45	150
	KCU10				◁▷						60	200

Hardened Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	5 (17)	15 (50)	25 (83)	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	m/min	SFM
H	KCU10				◁▷						30	100



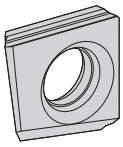


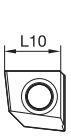
● first choice
○ alternate choice

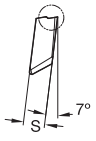
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

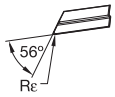
C2FIX-MN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C2FIX110404RMN	10,70	.423	4,00	.157	0,40	.016	–	–	–	–	●	–
C2FIX110405RMN	10,70	.432	4,00	.157	0,50	.020	–	●	●	–	–	–
C2FIX150510RMN	14,50	.572	5,00	.197	1,00	.039	–	●	–	–	–	–
C2FIX150512RMN	14,50	.571	5,00	.197	1,20	.048	–	–	–	–	–	●
C2FIX150505RMN	14,70	.578	5,00	.197	0,50	.020	–	●	–	–	–	–
left hand												
C2FIX110404LMN	10,70	.423	4,00	.157	0,40	.016	–	–	–	–	–	●
C2FIX110405LMN	10,70	.423	4,00	.157	0,50	.020	–	●	●	–	●	–
C2FIX110408LMN	10,70	.419	4,00	.157	0,80	.032	–	●	–	–	–	–
C2FIX150510LMN	14,50	.571	5,00	.197	1,00	.039	–	●	●	–	–	–
C2FIX150508LMN	14,60	.574	5,00	.197	0,80	.032	–	●	–	–	●	●
C2FIX150504LMN	14,70	.578	5,00	.197	0,40	.016	–	–	●	–	–	●
C2FIX150505LMN	14,70	.578	5,00	.197	0,50	.020	–	●	●	–	●	–
C2FIX180610LMN	17,50	.689	6,00	.236	1,00	.039	–	●	●	–	●	–









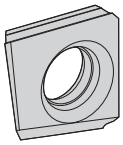
● first choice
○ alternate choice

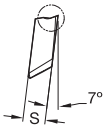
beyond

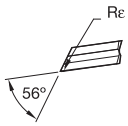
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

D2FIX-MN

	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX110405RMN	10,50	.413	4,00	.157	0,50	.020	–	●	●	–	–	–
D2FIX150508RMN	14,20	.560	5,00	.197	0,80	.032	–	●	–	–	–	–
D2FIX150505RMN	14,50	.571	5,00	.197	0,50	.020	●	●	●	–	–	–
D2FIX150504RMN	14,60	.575	5,00	.197	0,40	.016	–	●	–	–	–	–
D2FIX150503RMN	14,70	.579	5,00	.197	0,30	.012	–	●	–	–	–	–
left hand												
D2FIX110405LMN	10,50	.413	4,00	.157	0,50	.020	–	●	●	–	–	–
D2FIX150508LMN	14,20	.560	5,00	.197	0,80	.032	–	●	–	–	–	–
D2FIX150505LMN	14,50	.571	5,00	.197	0,50	.020	–	●	–	–	–	–

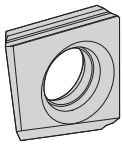


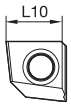


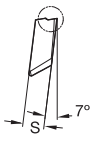


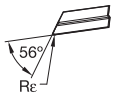
D2FIX-HP

	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX110404RHP	10,00	.394	4,00	.157	0,40	.016	–	–	–	–	–	●
D2FIX110403RHP	10,10	.396	4,00	.157	0,30	.012	–	●	–	–	●	–
D2FIX150508RHP	13,60	.535	5,00	.197	0,80	.032	–	–	–	–	●	●
D2FIX150504RHP	14,00	.551	5,00	.197	0,40	.016	–	–	–	–	●	●
D2FIX150503RHP	14,10	.554	5,00	.197	0,30	.012	–	●	–	–	●	–
left hand												
D2FIX110403LHP	10,10	.396	4,00	.157	0,30	.012	–	–	–	–	●	–
D2FIX150508LHP	13,60	.535	5,00	.197	0,80	.032	–	–	–	–	●	–
D2FIX150503LHP	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–







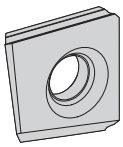


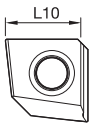
● first choice
○ alternate choice

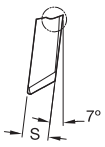
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

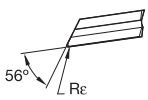
D2FIX-MS

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RMS	13,90	.549	5,00	.197	0,50	.020	–	–	–	–	●	–
D2FIX150503RMS	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–
left hand												
D2FIX150505LMS	13,90	.549	5,00	.197	0,50	.020	–	–	–	–	●	–
D2FIX150503LMS	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–



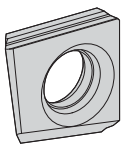


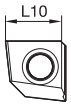


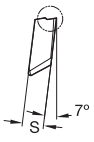


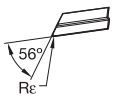
D2FIX-FN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RFN	13,90	.549	5,00	.197	0,50	.020	–	●	–	–	●	–









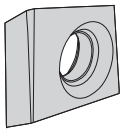
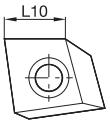
D2FIX-RN

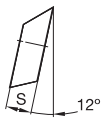
catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RRN	14,50	.571	5,00	.197	0,50	.020	●	–	●	–	–	–
left hand												
D2FIX150505LRN	14,50	.571	5,00	.197	0,50	.020	–	●	–	–	–	–

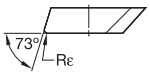
beyond

P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

● first choice
○ alternate choice

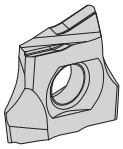



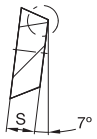


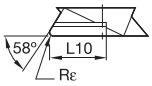


E2FIX-HP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
E2FIX100505RHP	10,50	.413	5,00	.197	0,50	.020	–	–	–	–	●	–
left hand												
E2FIX100505LHP	10,50	.413	5,00	.197	0,50	.020	–	–	–	–	●	–

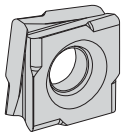


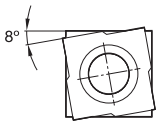


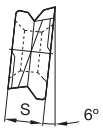


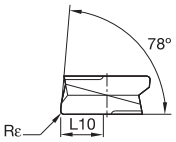
D4FIX-MN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D4FIX140608RMN	6,70	.264	5,90	.233	0,80	.031	●	●	–	–	●	●
D4FIX140605RMN	7,00	.276	5,90	.233	0,50	.020	●	●	–	–	–	–
D4FIX140604RMN	7,10	.280	5,90	.233	0,40	.016	–	–	●	–	–	●
D4FIX140603RMN	7,20	.283	5,90	.232	0,30	.012	●	●	–	–	–	–
left hand												
D4FIX140608LMN	6,70	.264	5,90	.233	0,80	.031	–	●	–	–	–	–







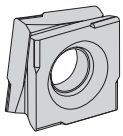


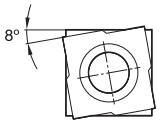
● first choice
○ alternate choice

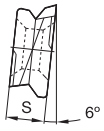
P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

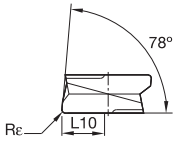
C8FIX-RN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C8FIX150612RRN	8,60	.339	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608RRN	8,90	.350	6,60	.260	0,80	–	●	●	●	–	–	●
C8FIX150605RRN	9,10	.358	6,60	.260	0,50	.020	●	●	●	–	●	●
C8FIX180812RRN	10,60	.417	7,90	.311	1,20	–	–	●	●	–	–	●
C8FIX180808RRN	10,90	.429	7,90	.311	0,80	–	–	●	●	–	–	–
left hand												
C8FIX150612LRN	8,60	.339	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608LRN	8,90	.350	6,60	.260	0,80	–	–	●	–	–	–	●
C8FIX150605LRN	9,10	.358	6,60	.260	0,50	.020	–	●	●	–	–	●
C8FIX180812LRN	10,60	.417	7,90	.311	1,20	–	–	●	–	–	–	–



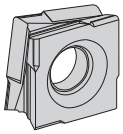


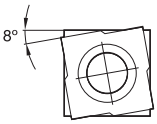


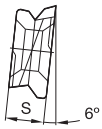


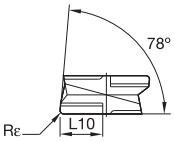
C8FIX-RP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C8FIX120508RRP	6,90	.272	5,50	.217	0,80	.031	●	●	–	–	–	–
C8FIX120505RRP	7,10	.280	5,50	.217	0,50	.020	–	●	–	–	–	●
C8FIX120504RRP	7,20	.283	5,50	.217	0,40	.016	●	●	–	–	–	–
C8FIX120503RRP	7,30	.287	5,50	.217	0,30	.012	–	●	●	–	–	–
left hand												
C8FIX120508LRP	6,90	.272	5,50	.217	0,80	.031	–	●	●	–	–	–
C8FIX150612LRP	7,80	.306	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608LRP	8,80	.345	6,60	.260	0,80	.031	–	–	–	–	–	●









● first choice
○ alternate choice

beyond

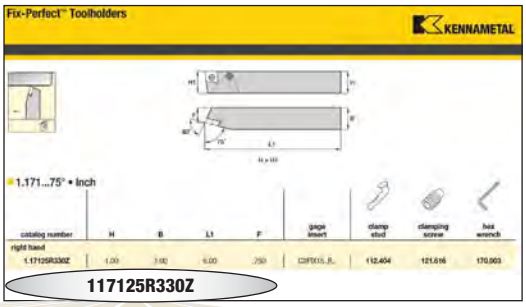
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

C8FIX-MP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C8FIX120503RMP	7,30	.287	5,50	.217	0,30	.012	–	●	–	–	●	●
C8FIX150603RMP	9,30	.366	6,60	.260	0,30	.012	●	●	●	–	●	●
C8FIX180805RMP	11,10	.437	7,90	.311	0,50	.020	–	●	–	–	–	–
left hand												
C8FIX120503LMP	7,30	.287	5,50	.217	0,30	.012	●	●	–	–	●	–
C8FIX150603LMP	9,30	.366	6,60	.260	0,30	.012	–	●	–	–	–	–

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.



Metric/Inch

1	1	71	25	R	3	3	0	Z
Turning Program	Number of Cutters	Version	Shaft Dimensions	Direction of Working	Insert Size and Type	Insert Shape	Clamping Screw Support	Inch Toolholder

1 = Fix-Perfect

1 = Inserts with 2 cutting edges

3 = Inserts with 4 cutting edges

7 = Inserts with 8 cutting edges

R = Right

L = Left

0 = Activated from main cutting edge

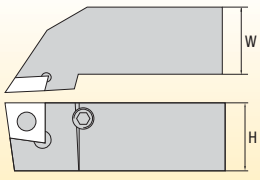
1 = Minor cutting edge

2 = Above

5 = Main cutting edge with sharp-edged full cartridge

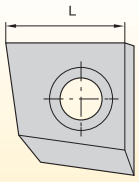
6 = Minor cutting edge with sharp-edged full cartridge

08 = 90° or 93° setting, for machining aluminum
16 = 92° setting angle
20 = 92° setting angle
22 = 92° setting angle
30 = 75° setting angle
71 = 75° setting angle
72 = 45° setting angle
77 = 90° setting angle
80 = 90° or 93° setting angle

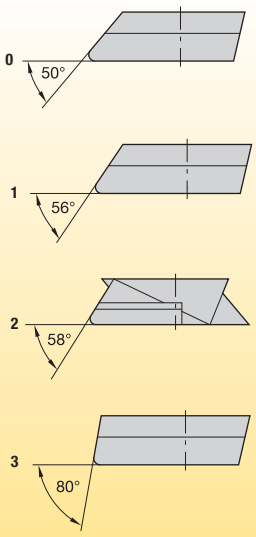


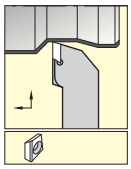
Toolholder

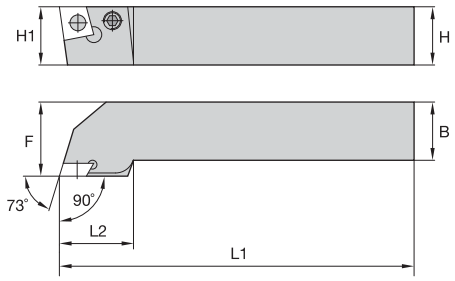
10 = 10 x 10mm
11 = 40 x 40mm
16 = 16 x 16mm
20 = 20 x 20mm
21 = 50 x 50mm
25 = 25 x 25mm
32 = 32 x 25mm
32 x 32mm
40 = 40 x 32mm



	L	cutting edges
0	8mm 20mm 25mm	4 4 4
1	10,5mm 12mm	2 8
3	14,5mm 15mm	2 8
4	17,5mm 18mm	2 8
5	23,5mm 21mm	2 8
7	10,5mm	2 Alu



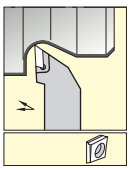


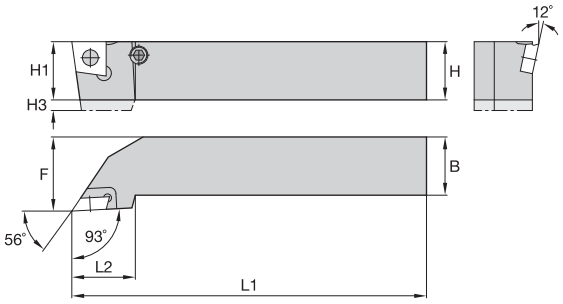


H = H1

1.108...90° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.10825R700	25	25	150,0	32,0	E2FIX10..R..	**410.081**	**121.616**	**170.003**

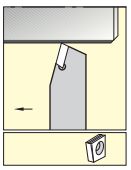


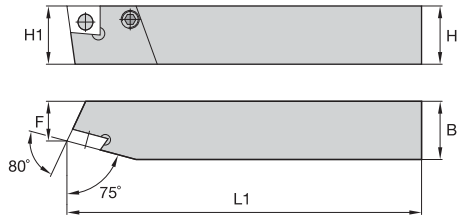


H = H1

1.108...93° • Metric

catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand									
1.10820R310	20	5	20	125,0	25,0	D2FIX15..RHP/FN/MS	**112.403**	**121.612**	**170.003**
1.10825R310	25	–	25	150,0	32,0	D2FIX15..RHP/FN/MS	**112.404**	**121.616**	**170.003**
left hand									
1.10825L310	25	5	25	150,0	32,0	D2FIX15..LHP/FN/MS	**112.404**	**121.616**	**170.003**

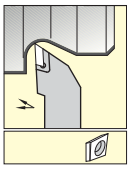


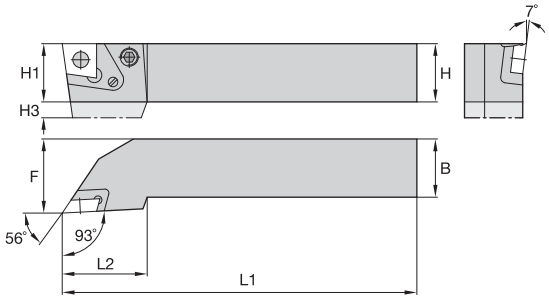


H = H1

1.171...75° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.17125L330	25	25	150,0	17,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

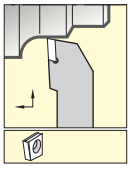


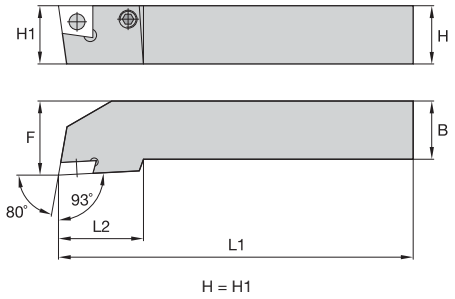


H = H1

1.18 • Metric

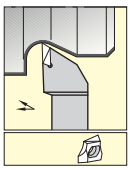
catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench	steel nest assembly
right hand										
1.18016R110	16	4	16	100,0	24,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R110	20	–	20	125,0	25,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R310	20	5	20	125,0	26,0	D2FIX15..R..	**112.403**	**121.612**	**170.003**	–
1.18025R110	25	–	25	150,0	32,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18025R310	25	–	25	150,0	32,0	D2FIX15..R..	**112.404**	**121.616**	**170.003**	–
1.18025R315	25	7	25	150,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
1.18032R315	32	–	25	170,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
left hand										
1.18016L110	16	4	16	100,0	24,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18020L110	20	–	20	125,0	25,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18025L310	25	–	25	150,0	32,0	D2FIX15..L..	**112.404**	**121.616**	**170.003**	–
1.18025L315	25	7	25	150,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**
1.18032L315	32	–	25	170,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**

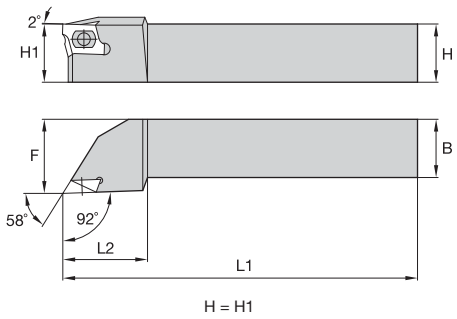




1.180...93° • Metric

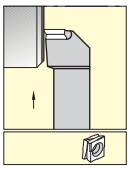
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

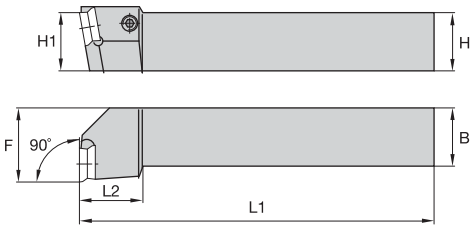




1.380...92° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	**114.111**	**121.812**	**170.004**
1.38025R021	25	25	150,0	32,0	D4FIX..R..	**114.114**	**121.816**	**170.004**
left hand								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	**114.114**	**121.816**	**170.004**



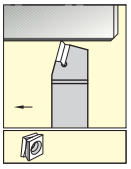


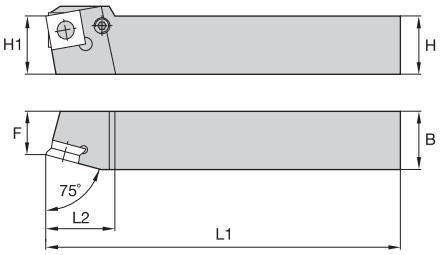
H = H1

1.777...90° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77725R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOTE: Right-hand tool requires left-hand insert.

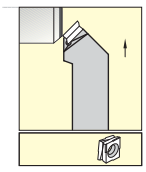


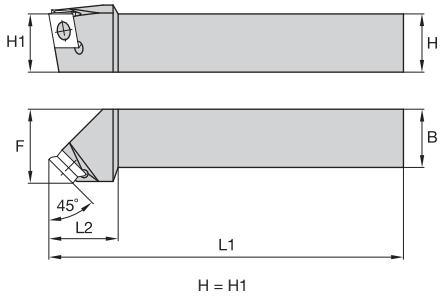


H = H1

1.771...75° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77120R100	20	20	125,0	17,0	C8FIX12..R..	**118.204**	**121.612**	**170.003**
1.77125R300	25	25	150,0	21,0	C8FIX115..R..	**410.084**	**121.816**	**170.004**
1.77132R400	32	32	170,0	27,0	C8FIX18..R..	**410.091**	**–**	**–**
left hand								
1.77120L100	20	20	125,0	17,0	C8FIX12..L..	**118.204**	**121.612**	**170.003**

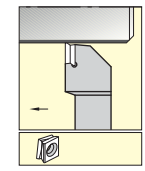


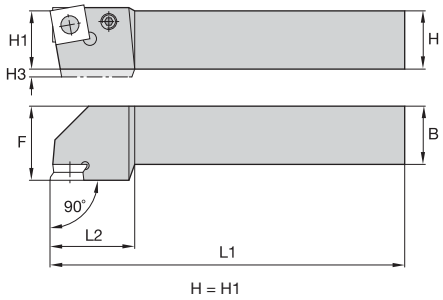


1.772...45° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77225R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

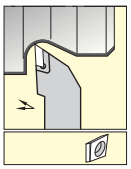
NOTE: C8FIX15..L.. is usable for plunging only.
For both plunging and turning, C4FIX15..L.. has to be used.

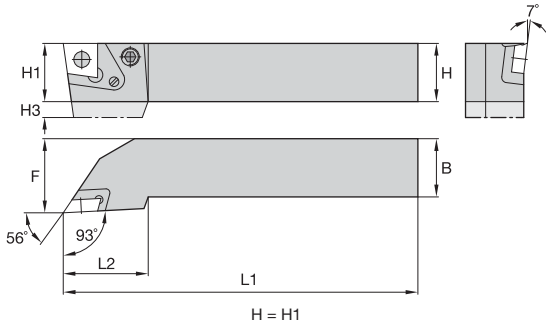




1.780...90° • Metric

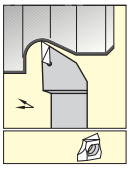
catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand									
1.78012R103	12	–	12	80,0	14,0	C8FIX12..R..	**–**	**–**	**170.003**
1.78016R100	16	4	16	100,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78020R100	20	–	20	125,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78025R100	25	–	25	150,0	32,0	1.81201R...	**118.204**	**121.616**	**170.003**
1.78025R300	25	–	25	150,0	32,0	C8FIX15..R..	**410.084**	**121.816**	**170.004**
1.78032R400	32	–	32	170,0	40,0	C8FIX18..R..	**410.091**	**121.825**	**170.004**
left hand									
1.78025L100	25	–	25	150,0	32,0	1.81202L...	**118.204**	**121.616**	**170.003**
1.78025L300	25	–	25	150,0	32,0	C8FIX15..L..	**410.084**	**121.816**	**170.004**

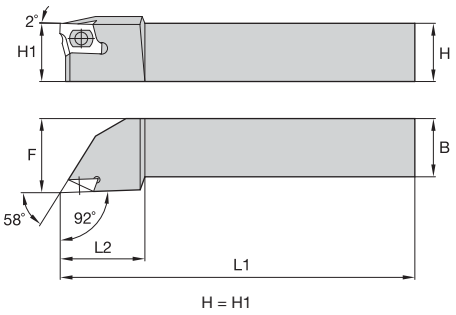




1.18 • Inch

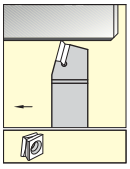
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	**112.404**	**121.616**	**170.003**

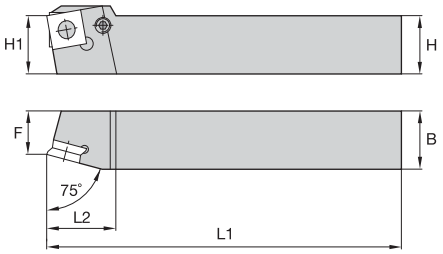




1.380...92° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	**114.114**	**121.816**	**170.004**

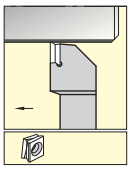


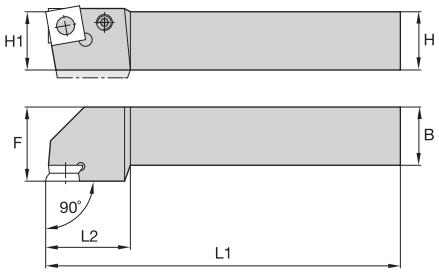


H = H1

1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	**410.084**	**121.816**	**170.004**

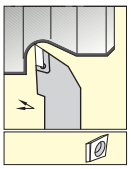


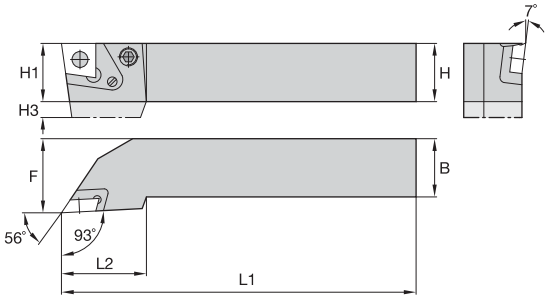


H = H1

1.78...90° • Inch

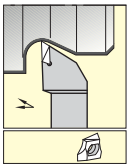
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	**410.084**	**121.816**	**170.004**
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	**410.084**	**121.816**	**170.004**
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	**410.091**	**121.825**	**170.004**

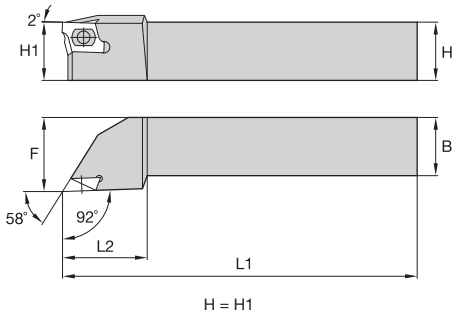




1.18 • Inch

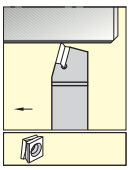
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	**112.404**	**121.616**	**170.003**

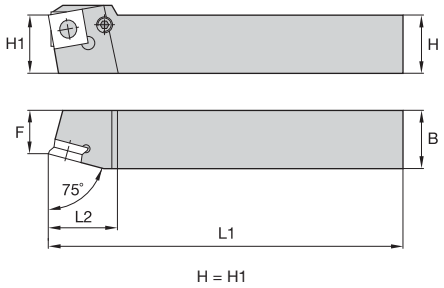




1.380...92° • Inch

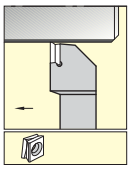
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	**114.114**	**121.816**	**170.004**

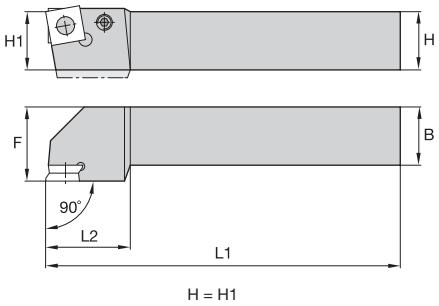




1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	**410.084**	**121.816**	**170.004**





1.78...90° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	**410.084**	**121.816**	**170.004**
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	**410.084**	**121.816**	**170.004**
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	**410.091**	**121.825**	**170.004**

Beyond™ Top Notch™ Profiling

The Top Notch system is the proven solution for high productivity. The Top Notch system provides consistent tool performance, accurate indexing, and superior clamping to provide excellent surface finishing and superior tool life.

Features and Benefits

Beyond™ Grades

Higher Productivity and Profitability

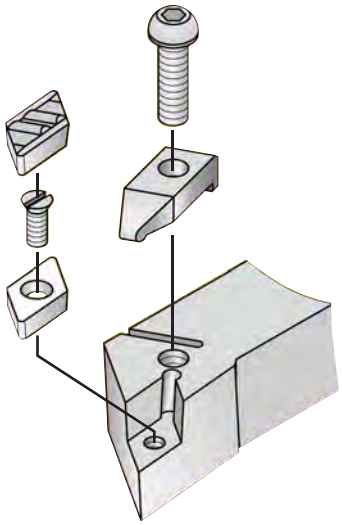
- Lower cutting forces increase speeds and reduce cycle time.
- Extended tool life.

Reliability

- Predictable tool life/uniform wear.
- Resists chip flow damage.
- Consistent surface finish.

Versatility

- Products can be applied across a wide range of applications.
- Use in low- to high-speed applications.
- Complete portfolio of products.
- For finish to rough turning of steel, cast iron, stainless steel, and high-temp alloys.



FP Geometry

- Higher metal removal rate.
- Versatility.
- Long tool life.
- Optimum chip control over wide range of cutting conditions and workpiece materials.
- Improved surface finish.
- Better indexability.
- Less adjustment during insert change.

UF Geometry

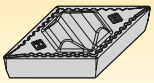
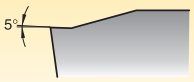
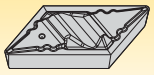
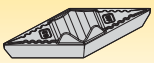
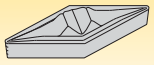
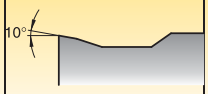
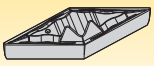
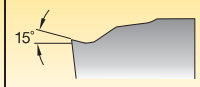
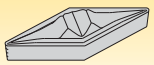
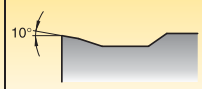
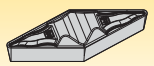
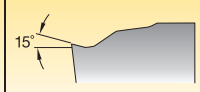
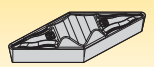
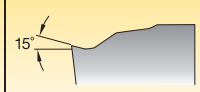
- Reduces cutting forces.
- Long tool life.
- Optimum chip control over wide range of cutting conditions.
- Chip control in finishing applications.

HP Geometry

- Reduces cutting forces.
- Long tool life.
- Interference is avoided to improve surface finish of the workpiece.
- Better indexability.
- Good control over job dimensions.
- Reduces workpiece material sticking.

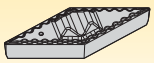
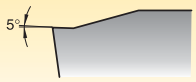
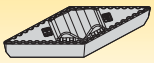
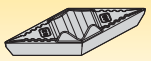
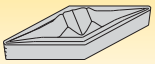
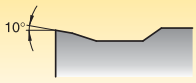
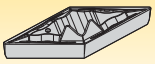
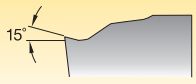
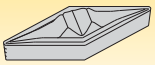
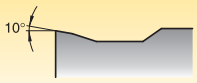
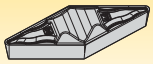
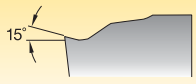
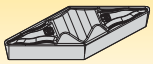
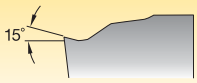
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
fine finishing	DCGR-UF			.0015 (0,04) – .004 (0,1): .002–.010 (0,1–0,3); .004 (0,1) – .025 (0,63): .005–.050 (0,1–1,3)
	KCGR-UF			.0015 (0,04) – .004 (0,1): .002–.010 (0,1–0,3); .004 (0,1) – .025 (0,63): .005–.050 (0,1–1,3)
finishing	DCGR			.0015 (0,04) – .004 (0,1): .002–.010 (0,1–0,3); .004 (0,1) – .025 (0,63): .005–.050 (0,1–1,3)
	KCGR			.0025 (0,063) – .006 (0,16): .004–.014 (0,1–0,4); .006 (0,16) – .040 (1,0): .010–.080 (0,3–2,0)
	DCGR-FP			.0015 (0,04) – .004 (0,1): .0025–.015 (0,063–0,25); .004 (0,1) – .025 (0,63): .006–.060 (0,16–1,6)
	DCGR-HP			.0015 (0,04) – .004 (0,1): .004–.014 (0,1–0,4); .004 (0,1) – .025 (0,63): .010–.080 (0,3–2,0)
	KCGR-FP			.0015 (0,04) – .004 (0,1): .0025–.015 (0,063–0,25); .004 (0,1) – .025 (0,63): .006–.060 (0,16–1,6)
	KCGR-HP			.0015 (0,04) – .004 (0,1): .0025–.015 (0,063–0,25); .004 (0,1) – .025 (0,63): .006–.060 (0,16–1,6)

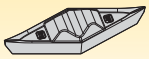
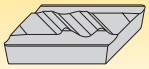
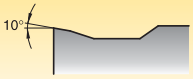
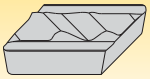
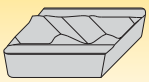
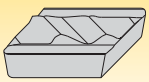
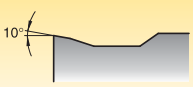
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm)	depth of cut — in (mm)
fine finishing	VBMR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
	VCMR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
	VPGR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
finishing	VBMR			.004–.014 (0,1–0,4)	.010–.080 (0,3–2,0)
	VBMR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)
	VCGR			.004–.014 (0,1–0,4)	.010–.080 (0,3–2,0)
	VCMR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)
	VPGR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)

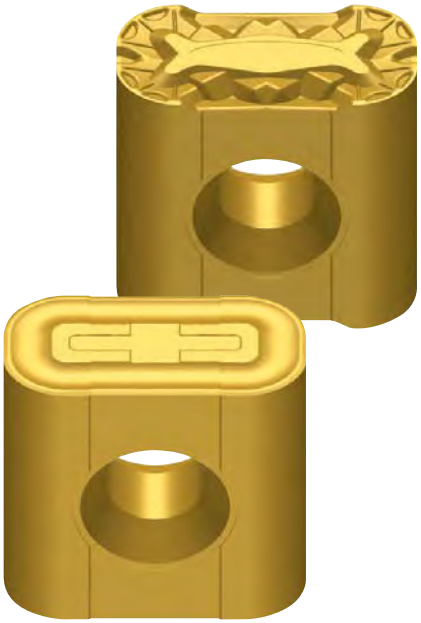
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
finishing	VPGR-HP			.007–.015 (0,2–0,4); .025–.090 (0,6–2,3)
finishing	KNGX-15			.006–.016 (0,2–0,4); .030–.110 (0,8–2,8)
finishing	KNGX-20			.008–.018 (0,2–0,5); .040–.120 (1,0–3,0)
finishing	KNGX-25			.010–.022 (0,3–0,6); .045–.140 (1,1–3,6)
finishing	KNGX-32			.012–.026 (0,3–0,7); .060–.200 (1,5–5,1)

Kennametal Tools for **Railways** and **Wheel Machining**

Kennametal offers a complete line of tooling for wheel and axle maintenance in railroad shops. All tools incorporate the latest technology for maximum metal removal and higher productivity. They are proven performers in actual use over extended periods of time, under a wide range of operating conditions. Standard off-the-shelf inserts and fewer pieces of hardware reduce inventory and operating costs. Included in this range are tools for reconditioning mounted wheel sets, wheel boring, wheel truing, axle turning, and journal burnishing.



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KENNAMETAL®

kennametal.com

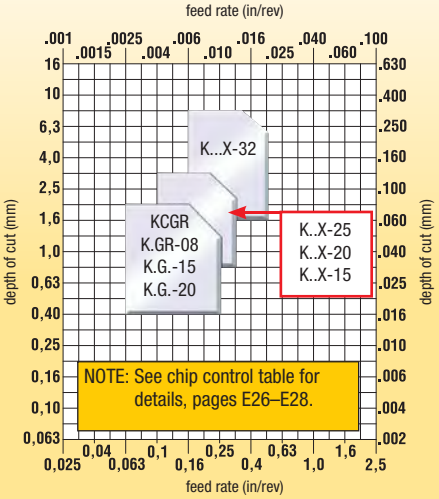
Step 1 • Select the insert geometry

Negative Inserts

-K...X-32
Roughing

-K...X-25–K...X-15,
Medium Machining

-K. GR-08, K.G.-15,
K.G.-20
Finishing



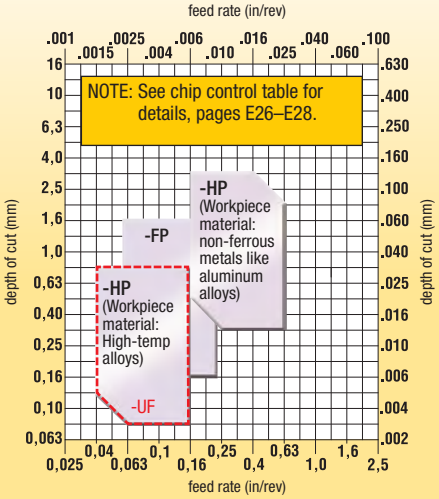
Positive Inserts

-VCMR
Medium Machining

-.CGR, VBMR
Finishing

-VCGN
Finishing

-KCGR
Finishing



Chip Control Range
-UF: feed 0,08–0,3 mm/rev; DOC 0,1–1,3mm
-FP: feed 0,1–0,3 mm/rev; DOC 0,1–1,3mm
-HP: feed 0,2–0,4 mm/rev; DOC 0,6–2,3mm

Step 2 • Select the grade

		Steel			Stainless Steel		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**	**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KCP25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**
lightly interrupted cut		**KCP10**	**KCP25**	**KCP25**	**KC5010/KCU10**	**KC5025/KCU25**	**KC5025/KCU25**
varying depth of cut, casting, or forging skin		**KT315**	**KCP25**	**KCP25**	**KT315**	**KCM25**	**KCM25**
smooth cut, pre-turned surface		**KT315**	**KCP05/KCP10**	**KCP10**	**KT315**	**KC5010/KCU10**	**KCM25**

		Cast Iron			Non-Ferrous		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**	**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KCP10**	**KCP10**	**KCP10**	**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/313/ KCU10**
lightly interrupted cut		**KCP05**	**KCP05**	**KCP05**	**KC5410/KD1425**	**KC5010/KCU10**	**KC5010**
varying depth of cut, casting, or forging skin		**KCK05**	**KCK05**	**KCK05**	**KD1425**	**KC5410**	**KC5410**
smooth cut, pre-turned surface		**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/KCU10**	**KD1425**	**KC5410**	**KC5410**

		High-Temperature Alloys		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KC5025/KUC25**	**K68**	**K68**
lightly interrupted cut		**KC5010**	**KC5010**	**KCM25**
varying depth of cut, casting, or forging skin		**KC5010**	**KC5010**	**KC5010**
smooth cut, pre-turned surface		**KC5010/KCU10/ K313**	**KC5010/KCU10**	**KC5010**

Step 3 • Select the cutting speed

Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
P	KT315					◁▷				260	850
	KCP05/KCP10					◁▷				340	800
	KCP25				◁▷					180	600
	KCM25				◁▷					165	550

Stainless Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
M	KT315			◁▷						230	750
	KC5010/KCU10				◁▷					180	600
	KC5025/KCU25			◁▷						120	400
	KCM25				◁▷					150	500

Cast Iron — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	500 (1600)	750 (2400)	m/min	SFM
K	KB1345								◁▷	760	2520
	KT315				◁▷					275	900
	KC5010/KCU10			◁▷						245	800
	KCK20				◁▷					245	800
	KCP25			◁▷						230	750

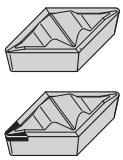
Non-Ferrous — speed — m/min (SFM) — starting conditions ◁▷

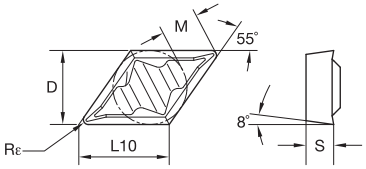
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	m/min	SFM
N	K01425			◁▷						765	2500
	KC5410		◁▷							550	1800
	KC5010/KCU10		◁▷							460	1500
	K68/K313	◁▷								150	500

High-Temperature Alloys — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	15 (50)	40 (120)	55 (180)	80 (250)	100 (330)	170 (550)	200 (655)	120 (400)	m/min	SFM
S	KC5010/KCU10				◁▷					60	200
	KC5025/KCU25			◁▷						50	170
	KCM25				◁▷					70	230
	K68/K313		◁▷							30	100

◁▷ Represents the recommended starting conditions. Optimize for your specific application.



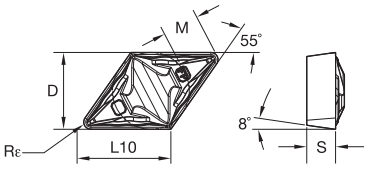


● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

DCGR • DPGR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404	DPGR431	12,70	1/2	15,50	0.610	4,76	3/16	6,94	0.273	0,4	1/64	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
DCGR150408	DPGR432	12,70	1/2	15,50	0.610	4,76	3/16	6,48	0.255	0,8	1/32	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
DCGR150412	DPGR433	12,70	1/2	15,50	0.610	4,76	3/16	6,01	0.237	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–



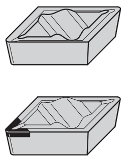
DCGR-FP • DPGR-FP

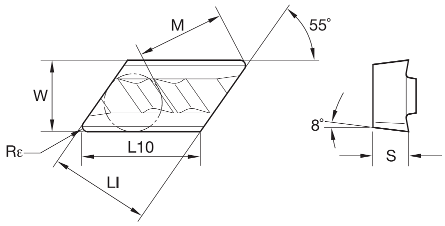
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404FP	DPGR431FP	12,70	1/2	15,50	0.610	4,76	3/16	6,94	0.273	0,4	1/64	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–
DCGR150408FP	DPGR432FP	12,70	1/2	15,50	0.610	4,76	3/16	6,48	0.255	0,8	1/32	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–

Application Specific

		P	M	K	N	S	H
K68		●	●	●	●	●	
K313		●	●	●	●	●	
KU10		●	●	●	●	●	
KCP10		●		○			
KCP25B		●		○			
KCP25		●		○			
KCK05		○		●			
KCM15B		○	●			●	
KCM25B		○	●			●	
KCM25		○	●			●	
KCU10		●	●	●	●	●	
KCU25		●	●	●	●	●	
KC5010		●	●	●	●	●	
KC5025		●	●	●	●	●	
KC5410					●		
KT315		●	●	●			
KD1425					●		

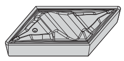
● first choice
○ alternate choice

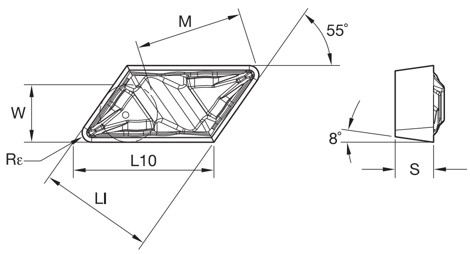




KCGR • NPGR

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KCGR110304R08	NPGR51R	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,10	.358	0,4	1/64	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	●
KCGR110308R08	NPGR52R	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	8,66	.341	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–
left hand																														
KCGR110304L08	NPGR51L	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,10	.358	0,4	1/64	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
KCGR110308L08	NPGR52L	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	8,66	.341	0,8	1/32	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	–	●

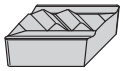


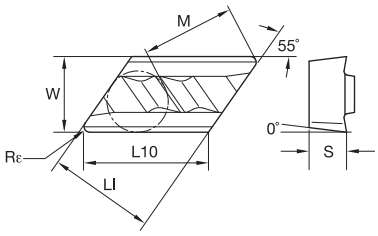


KCGR-FP • NPGR-FP

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KCGR110304R08FP	NPGR51RFP	9,52	.375	11,60	.457	6,35	.250	3,18	1/8	9,13	.360	0,4	1/64	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–
KCGR110308R08FP	NPGR52RFP	9,52	.375	11,63	.458	6,35	.250	3,18	1/8	8,73	.344	0,8	1/32	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
left hand																														
KCGR110304L08FP	NPGR51LFP	9,52	.375	11,60	.457	6,35	.250	3,18	1/8	9,13	.360	0,4	1/64	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–	–	–
KCGR110308L08FP	NPGR52LFP	9,52	.375	11,63	.458	6,35	.250	3,18	1/8	8,73	.344	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–

Application Specific





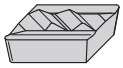
● first choice
○ alternate choice

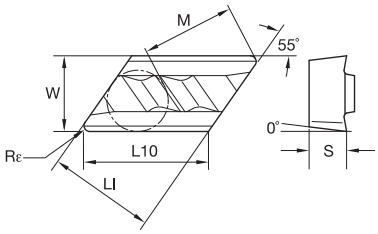
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●														
M		●	●	●					●	●	●	●	●	●	●		●														
K		●	●	●	○	○	○	●				●	●	●	●		●														
N		●	●	●								●	●	●	●	●															
S		●	●	●					●	●	●	●	●	●	●																
H																															

KNGX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KNGX150404R20	**NPR131F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150408R20	**NPR132F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
KNGX150401R15	**NPR1305**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,76	.542	0,1	.005	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX150402R15	**NPR1308**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,67	.538	0,2	.008	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX220404R25	**NPR331N**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,91	.784	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
KNGX220408R32	**NPR332**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
left hand																														
KNGX150408L20	**NPL132F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150404L20	**NPL131F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX220408L20	**NPL332F**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

Application Specific





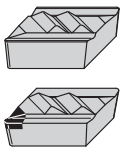
● first choice
○ alternate choice

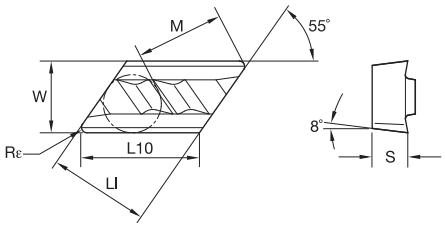
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KNUX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in
right hand													
KNUX150405R20	**NPR13M05F**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020
KNUX150405R25	**NPR13M05N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020
KNUX150410R25	**NPR13M10N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039
KNUX160405R2	**KNUX160405R2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020
KNUX160410R1	**KNUX160410R1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	1,0	.039
KNUX160410R2	**KNUX160410R2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	1,0	.039
KNUX160405R1	**KNUX160405R1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020
left hand													
KNUX150410L25	**NPL13M10N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039
KNUX150405L25	**NPL13M05N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020
KNUX160405L2	**KNUX160405L2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020
KNUX160405L1	**KNUX160405L1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020

ISO catalog number	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																	
KNUX150405R20	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R25	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
KNUX150410R25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405R2	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R1	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R2	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160405R1	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–
left hand																	
KNUX150410L25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX150405L25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405L2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
KNUX160405L1	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–





KCGX • NPR/L

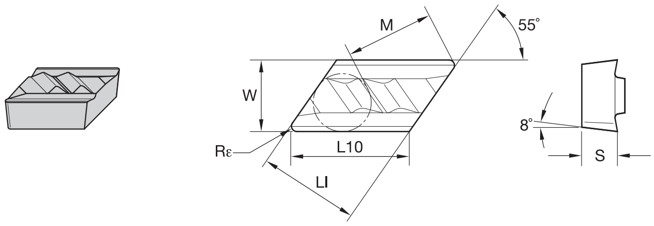
ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in
right hand													
KCGX110301R15	**NPR505**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005
KCGX110302R15	**NPR508**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008
KCGX110304R15	**NPR51**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64
KCGX110308R15	**NPR52**	9,57	.377	–	–	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32
left hand													
KCGX110301L15	**NPL505**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005
KCGX110302L15	**NPL508**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008
KCGX110304L15	**NPL51**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64
KCGX110308L15	**NPL52**	9,57	.377	–	–	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32

ISO catalog number	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																	
KCGX110301R15	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	●
KCGX110302R15	–	●	–	–	–	–	–	–	–	–	●	●	●	–	–	●	●
KCGX110304R15	●	●	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●
KCGX110308R15	●	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
left hand																	
KCGX110301L15	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●
KCGX110302L15	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●
KCGX110304L15	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	●
KCGX110308L15	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

Application Specific

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P	●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M	●	●	●					●	●	●	●	●	●	●		●	
K	●	●	●	○	○	○	●				●	●	●	●		●	
N	●	●	●								●	●	●	●	●		●
S	●	●	●					●	●	●	●	●	●	●			
H																	

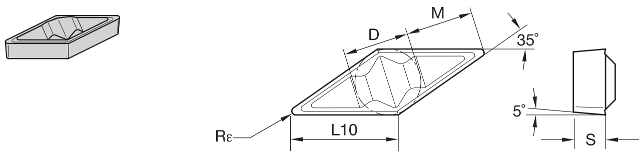
● first choice
○ alternate choice



Application Specific

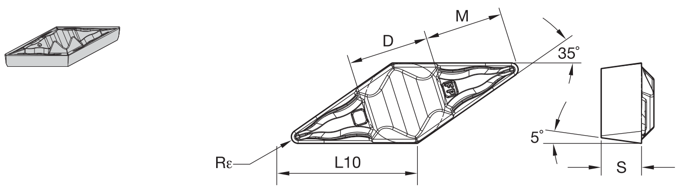
KCUX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KCUX110302R15	NPR5M02	9,50	.374	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
KCUX110305R15	NPR5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R20	NPR13M05F	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
left hand																														
KCUX110302L15	NPL5M02	9,46	.373	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KCUX110305L15	NPL5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



VBMR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110304	VBMR221	6,35	1/4	11,07	0.436	3,18	1/8	6,46	0.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–

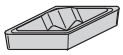


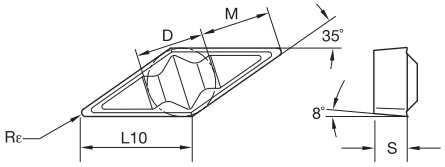
VBMR-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110302FP	VBMR2205FP	6,35	1/4	11,04	0.435	3,18	1/8	6,91	0.272	0,2	.008	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
VBMR110304FP	VBMR221FP	6,35	1/4	11,07	0.436	3,18	1/8	6,46	0.254	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
VBMR110308FP	VBMR222FP	6,35	1/4	11,07	0.436	3,18	1/8	5,54	0.218	0,8	1/32	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–

● first choice
○ alternate choice

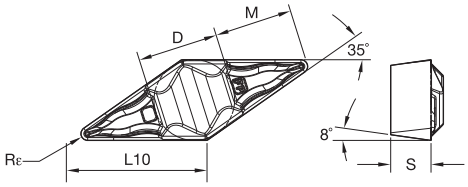
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		





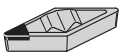
VCMR

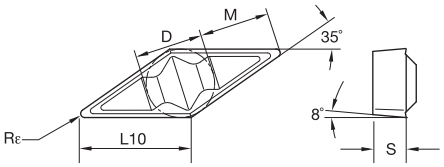
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404	VCMR331	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	–	–	–	–	●	–	–	–	●	●	●	–	●	–
VCMR160408	VCMR332	9,53	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–



VCMR-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404FP	VCMR331FP	9,52	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	●	–	●	–	–	–	●	●	●	–	–	–	–	–
VCMR160408FP	VCMR332FP	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–



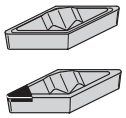


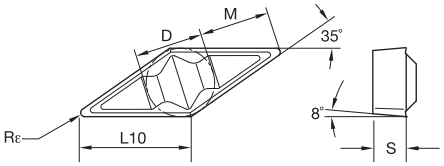
● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

VPGN

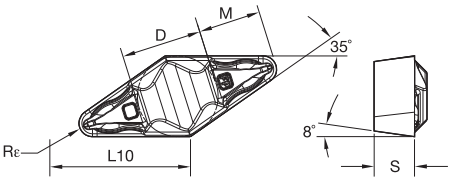
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGN160404	**VPGN331**	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VCGN160408	**VPGN332**	9,53	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●





VCGR • VPGR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402	**VPGR3305**	9,53	3/8	16,61	0.654	4,76	3/16	10,60	0.417	0,2	.008	●	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VCGR160404	**VPGR331**	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	●	●	–	–	–	●	–	–	–	–	●	●	●	●	●	●	●
VCGR160408	**VPGR332**	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	●	●	–	–	●	–	–	–	–	–	●	●	●	●	●	●	●
VCGR160412	**VPGR333**	9,53	3/8	16,61	0.654	4,76	3/16	8,31	0.327	1,2	3/64	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
VCGR160416	**VPGR334**	9,53	3/8	16,61	0.654	4,76	3/16	7,38	0.291	1,6	1/16	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

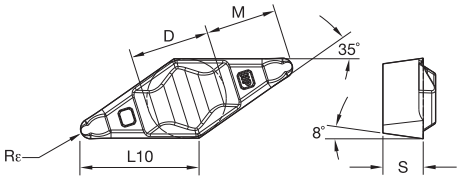


● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

VCGR-FP • VPGR-FP

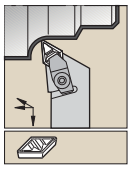
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402FP	VPGR3305FP	9,52	3/8	16,61	0.654	4,76	3/16	10,60	0.417	0,2	.008	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VCGR160404FP	VPGR331FP	9,52	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–
VCGR160408FP	VPGR332FP	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–
VCGR160412FP	VPGR333FP	9,52	3/8	16,61	0.654	4,76	3/16	8,31	0.327	1,2	3/64	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–
VCGR160416FP	VPGR334FP	9,52	3/8	16,61	0.654	4,76	3/16	7,38	0.291	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

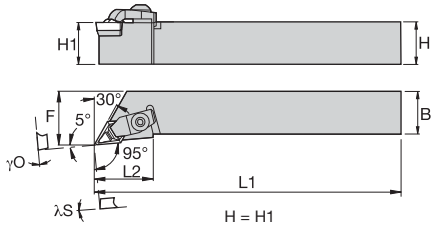


VCGR-HP • VPGR-HP

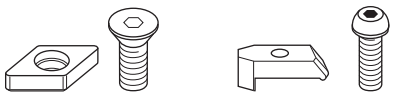
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160404HP	VPGR331HP	9,52	3/8	16,61	0.654	4,76	3/16	—	—	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Application Specific

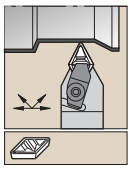


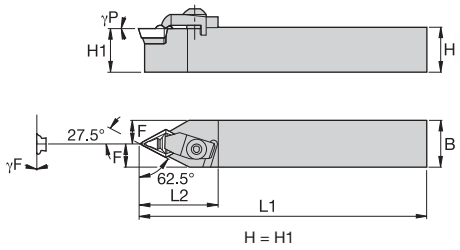


NDLP -5°

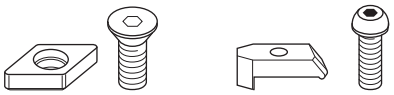


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand														
NDLPR164D	1.000	1.000	1.250	6.00	1.38	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32
left hand														
NDLPL164D	1.000	1.000	1.250	6.00	1.38	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM117**	**S532**	5/32

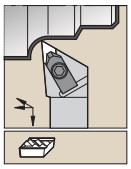


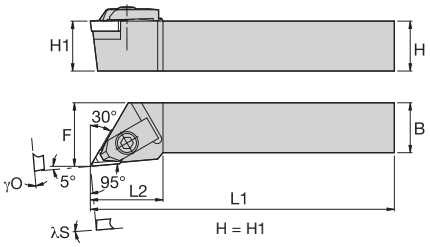


NDPP 27.5°

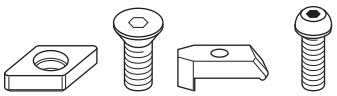


catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
NDPPN164D	1.000	1.000	0.500	6.00	1.59	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32

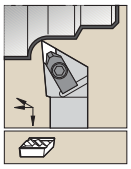


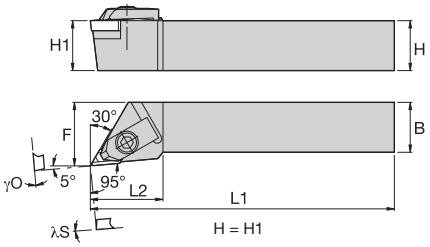


NKLC -5°

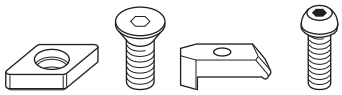


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NKLCR0805V	0.500	0.500	0.750	3.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
NKLCR1005B	0.625	0.625	0.750	4.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
NKLCR1205A	0.750	0.750	1.000	4.00	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
NKLCR1205B	0.750	0.750	1.000	4.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
NKLCR1605C	1.000	1.000	1.250	5.00	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
left hand													
NKLCL0805V	0.500	0.500	0.750	3.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM71**	**S524**	1/8
NKLCL1005B	0.625	0.625	0.750	4.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM71**	**S524**	1/8
NKLCL1205A	0.750	0.750	1.000	4.00	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
NKLCL1205B	0.750	0.750	1.000	4.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
NKLCL1605C	1.000	1.000	1.250	5.00	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8

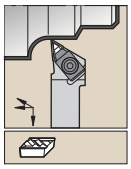


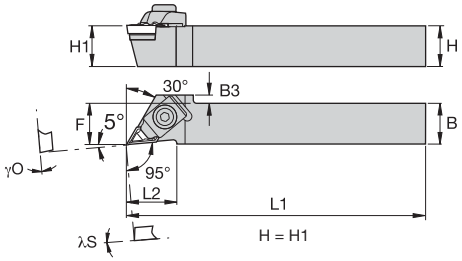


NKLN -5°

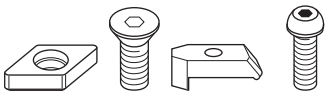


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NKLNR121B	0.750	0.750	1.000	4.50	1.22	-2.0	-5.0	NPR132F	**SM272**	**SL344**	**CM66**	**S625**	5/32
NKLNR161C	1.000	1.000	1.250	5.00	1.25	-2.0	-5.0	NPR132F	**SM272**	**SL344**	**CM66**	**S625**	5/32
left hand													
NKLNL121B	0.750	0.750	1.000	4.50	1.22	-2.0	-5.0	NPL132F	**SM271**	**SL344**	**CM66**	**S625**	5/32
NKLNL161C	1.000	1.000	1.250	5.00	1.25	-2.0	-5.0	NPL132F	**SM271**	**SL344**	**CM66**	**S625**	5/32

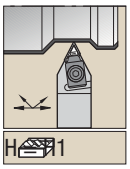


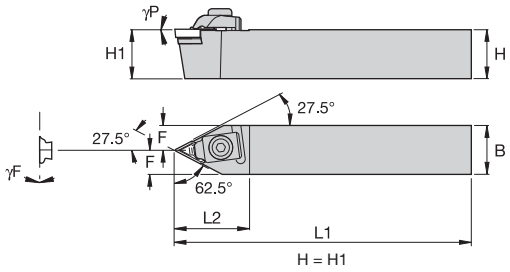


NKLC-F -5°

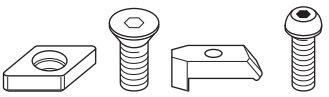


catalog number	H	B	F	L1	LH	B3	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand														
NKLCRF0805D	0.500	0.500	0.500	6.00	0.75	0.15	0.0	0.0	NP..51R	**SM285**	**S959**	**CM180**	**S524**	1/8
NKLCRF1005B	0.625	0.625	0.625	4.50	0.75	—	0.0	0.0	NP..51R	**SM285**	**S959**	**CM180**	**S524**	1/8
left hand														
NKLCLF0805D	0.500	0.500	0.500	6.00	0.75	0.15	0.0	0.0	NP..51L	**SM286**	**S959**	**CM181**	**S524**	1/8

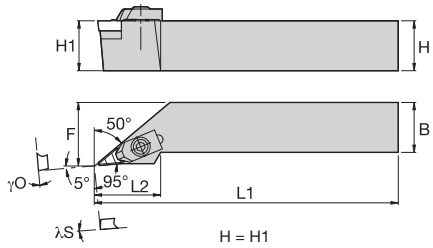




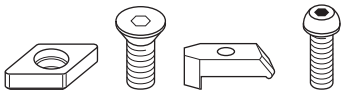
NKPC 27.5°



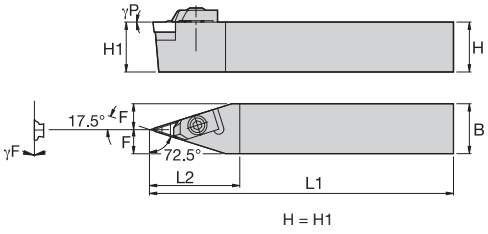
catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
NKPCN1205B	0.750	0.750	0.375	4.50	1.13	0.0	0.0	NP..51R	SM285	S959	CM68	S524	1/8



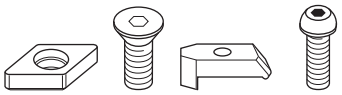
NVLC -5°



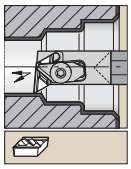
catalog number	H	B	F	L1	LH	γO°	λS°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NVLCR123B	0.750	0.750	1.000	4.50	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR163D	1.000	1.000	1.250	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR203D	1.250	1.250	1.500	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR243D	1.500	1.500	2.000	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
left hand													
NVLCL123B	0.750	0.750	1.000	4.50	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL163D	1.000	1.000	1.250	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL203D	1.250	1.250	1.500	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL243D	1.500	1.500	2.000	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32



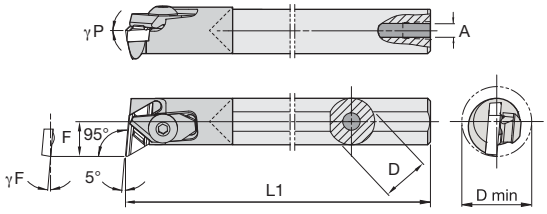
NVVC 17.5°



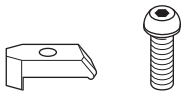
catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
NVVCN163D	1.000	1.000	0.497	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32



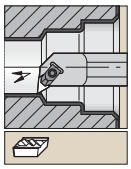
Carbide shank with through coolant.



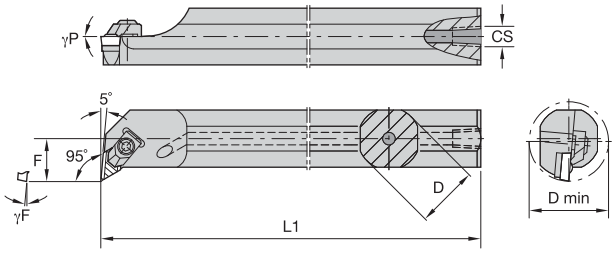
E-NEL -5°



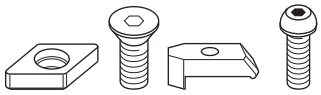
catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	clamp	clamp screw	hex (inch)
right hand											
E08NELR05	.500	.750	.375	8.15	.187	-5.0	0.0	NPL51	**CM106**	**S518**	3/32



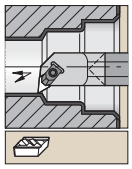
Steel shank with through coolant.



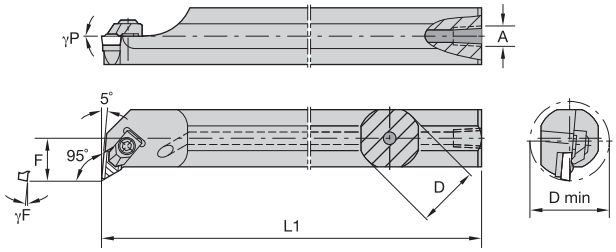
A-NKLC -5°



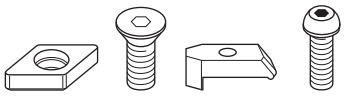
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A10NKLCR05	.625	.900	.495	10.06	1/8-27 NPT	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM79**	**S524**	1/8
A12SNKLCR05	.750	.980	.562	10.00	1/8-27 NPT	-5.0°	0.0°	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A16NKLCR05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A20NKLCR05	1.250	1.580	.875	14.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A24NKLCR05	1.500	1.870	1.000	14.00	1/4-18 NPT	-2.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
left hand													
A10SNKLCL05	.625	.900	.500	10.00	1/8-27 NPT	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM71**	**S524**	1/8
A12SNKLCL05	.750	.980	.562	10.00	1/8-27 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
A16NKLCL05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



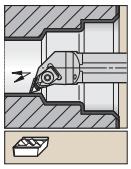
Carbide shank with through coolant.



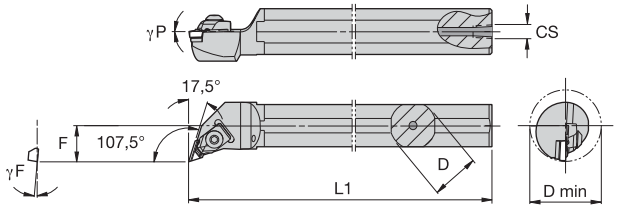
E-NKLC -5°



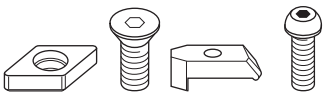
catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
E08NKLCR05	.500	.660	.375	8.00	.187	-5.0	0.0	NP..51L	**–**	**–**	**CM106**	**S518**	3/32
E10NKLCR05	.625	.900	.500	10.00	.218	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM79**	**S524**	1/8
E12NKLCR05	.750	.980	.562	10.00	.281	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
E16NKLNR1	1.000	1.500	.750	12.25	.313	-5.0	-5.0	NPL132	**SM271**	**SL344**	**CM66**	**S625**	5/32
left hand													
E08NKLCL05	.500	.660	.375	8.00	.187	-5.0	0.0	NP..51R	**–**	**–**	**CM105**	**S518**	3/32
E10NKLCL05	.625	.900	.500	10.00	.218	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM71**	**S524**	1/8
E12NKLCL05	.750	.980	.562	10.00	.281	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



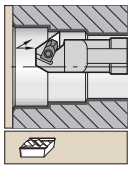
Steel shank with through coolant.



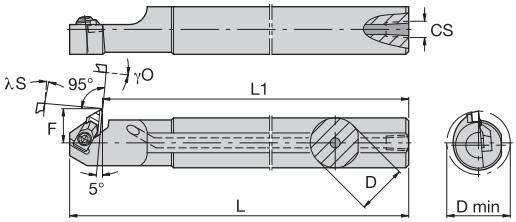
A-NKQC -17.5°



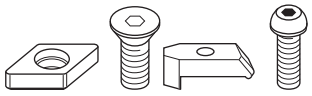
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A08NKQCR05	.500	.670	.375	8.00	1/16-27 NPT	-6.0	0.0	NP..51L	**–**	**–**	**CM112**	**S518**	3/32
A12SNKQCR05	.750	.980	.562	10.00	1/8-27 NPT	-6.0°	0.0°	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A16NKQCR05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
left hand													
A08NKQCL05	.500	.670	.375	8.00	1/16-27 NPT	-6.0	0.0	NP..51R	**–**	**–**	**CM111**	**S518**	3/32
A12SNKQCL05	.750	.980	.562	10.00	1/8-27 NPT	-6.0°	0.0°	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
A16NKQCL05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



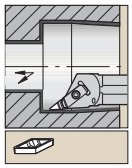
Steel shank with through coolant.



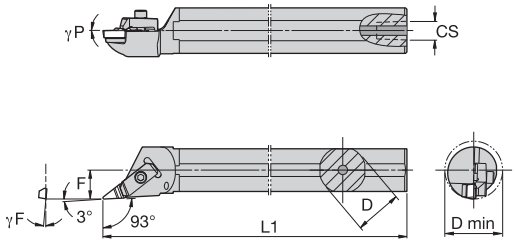
A-NKXC -5°



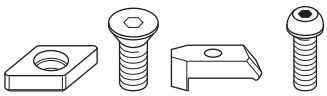
catalog number	D	D min	F	L1	L	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand														
A12NKXCR05	.750	1.060	.625	10.00	10.63	1/8-27 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
A16NKXCR05	1.000	1.300	.750	12.00	12.63	1/4-18 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8



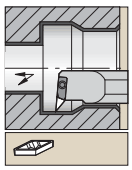
Steel shank with through coolant.



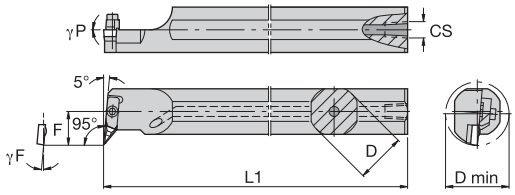
A-NVJC -3°



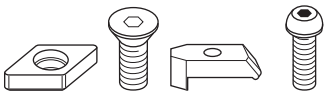
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A20NVJCR3	1.250	1.774	.765	14.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32



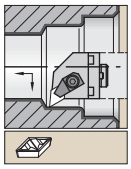
Steel shank with through coolant.



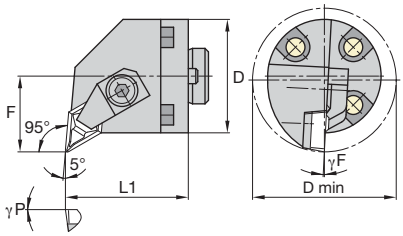
A-NVLC -5°



catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A20NVLCR3	1.250	1.830	1.120	14.07	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
A24NVLCR3	1.500	2.120	1.250	14.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
A32NVLCR3	2.000	2.620	1.500	16.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32

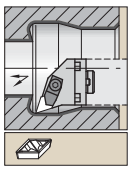


With through coolant.

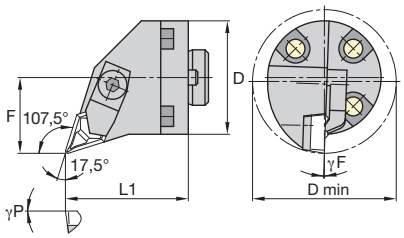


H-NDLP -5°

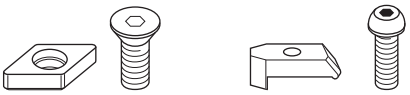
catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand													
H20NDLPR4W	1.250	1.580	.875	1.625	-3.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32
H24NDLPR4W	1.500	1.870	1.000	1.625	-2.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32



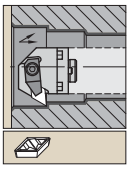
With through coolant.



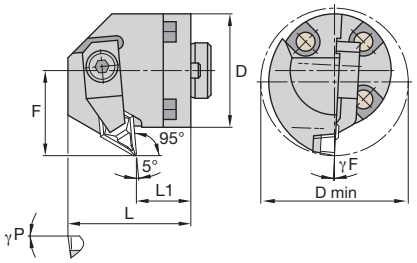
H-NDQP -17.5°



catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
left hand													
H32NDQPL4W	2.000	2.500	1.375	1.625	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32

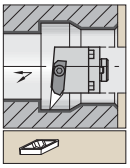


With through coolant.

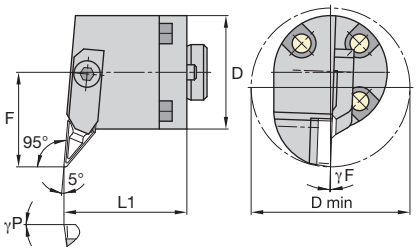


H-NDXP -5°

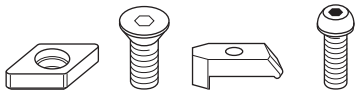
catalog number	D	D min	F	L1	L	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand														
H24NDXPR4W	1.500	2.000	1.125	.750	1.62	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32
left hand														
H20NDXPL4W	1.250	1.705	1.000	.750	1.62	-3.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM119**	**S532**	5/32
H40NDXPL4W	2.500	3.125	1.625	.750	1.62	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM119**	**S532**	5/32



With through coolant.



H-NVLP -5°



catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand												
H24NVLPR3W	1.500	2.120	1.250	1.625	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32

Railroad

The intimate understanding Kennametal provides of the economics of the railroad value chain enables us to offer unparalleled custom solutions tailored to your needs. We deliver superior value because we listen closely to you, our customer, and innovate based on your feedback. Our goal is to help you be more competitive — both locally and on a global scale.

Best Practices in Productivity

As your trusted partner for optimized production, Kennametal offers customers a unique commitment to research and development excellence, leading to continued delivery of highly innovative ways to enhance your productivity. Certification to ISO 9001, QS 9000 TES, and VDA 6.4 guarantees the highest possible quality standards.

Best Performance, Less Environmental Impact

With technology, we can do both. Kennametal helps customers focus on the root causes of unsustainable behavior in highly complex manufacturing systems, while at the same time improving cost structure, quality, and performance. In addition to offering the latest in metalcutting tools and technology, our Advanced Engineering Team will analyze your existing production processes and help you identify new methods to improve your overall performance.

Wheel Lathe Tooling

Kennametal railroad tooling incorporates a unique locking unit design developed through years of testing on all types of wheel lathes and machining wheels with all types of tread surfaces.

This heavy-duty, rugged design has proven to be effective in reducing machining costs on tread turning applications, the most severe machining operation encountered in wheel and axle shops.

Strong inserts, with raised chipbreaker land and honed cutting edges, offer more effective chip control and a stronger cutting edge. Combining this tool geometry with the Kennametal grade selection delivers higher wheel turning productivity.

Wheelset

Advantages of Kennametal Wheel Lathe Tools:

- No top clamp to wear out or interfere with chip flow.
- Insert locks against two walls in the toolholder to prevent insert movement under heavy cutting loads.
- Hardened steel locking unit provides positive insert seating and holder protection.
- Fast, trouble-free insert indexing — just unlock one screw to release the insert.
- Quick removal of the steel locking unit and insert for cleaning or replacement.
- Heavy-duty steel locking unit design ensures longer life and helps reduce operating costs.
- Fewer parts to inventory.
- Toolholders and steel locking units, made from heat-treated alloy steel, provide support to withstand severe roughing cuts on work-hardened wheels.

LNUX-RRF Full Radius

LNUX-RRP Full Radius

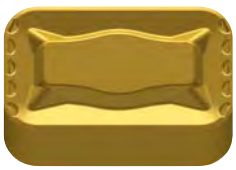
LNUX-RRH

LNUX-RRP

KRR6586-71

KRR6586-75

LNUX-RRSM


KRR6586-65

KRR6586-52

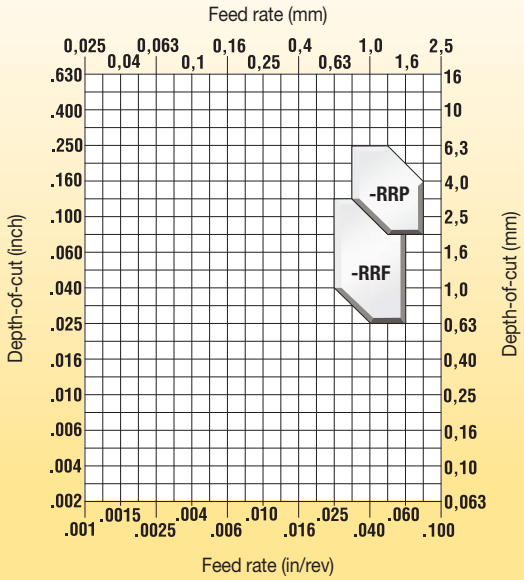
KRR6586-50

LNUX

Full-Radius Design

Our well-performed chipbreaking geometry RRF and RRP

- One insert can be applied in profiling and facing.
- Chip control even at smaller DOC will be improved!



-RRP

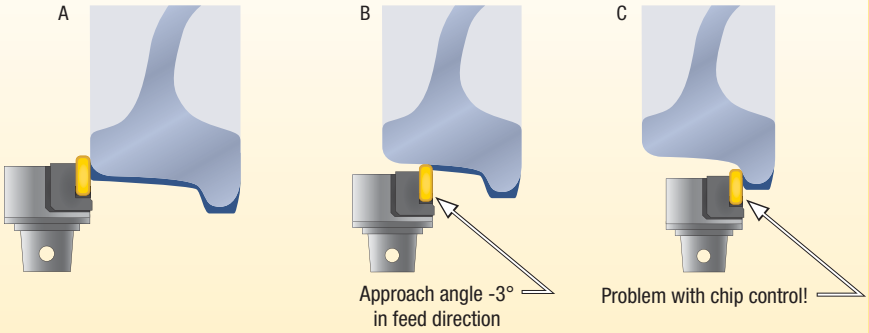
-RRF

Application Recommendation

A: At the beginning of the process, the DOC is higher because most of the bigger bur needs to be removed.

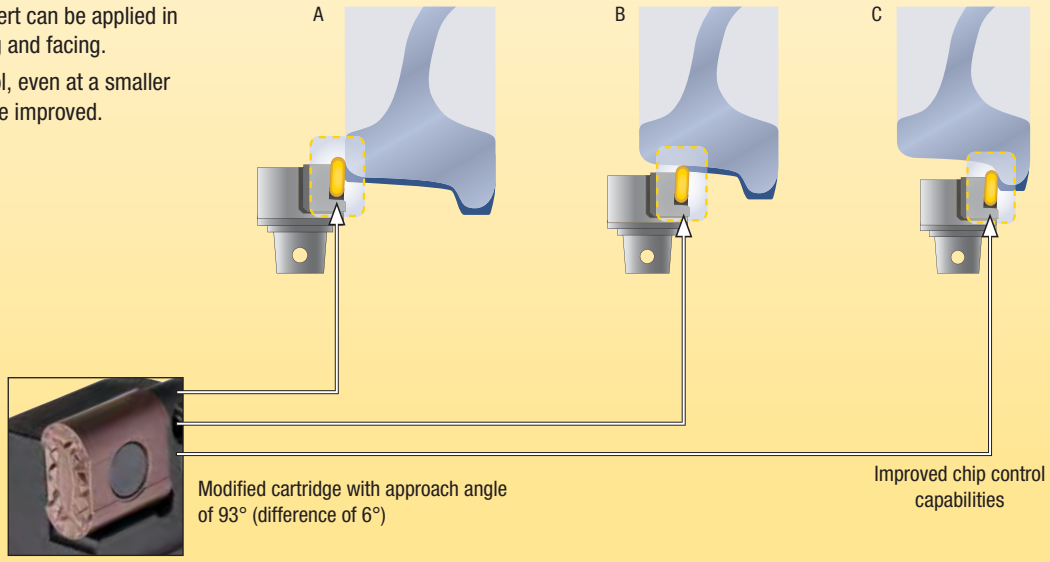
B: The DOC is smaller, but sometimes it has “hot spots” or brake spots.

C: Most critical area in regards to chip control because the thickness of the chip is quite thin and very diffficult to manage.

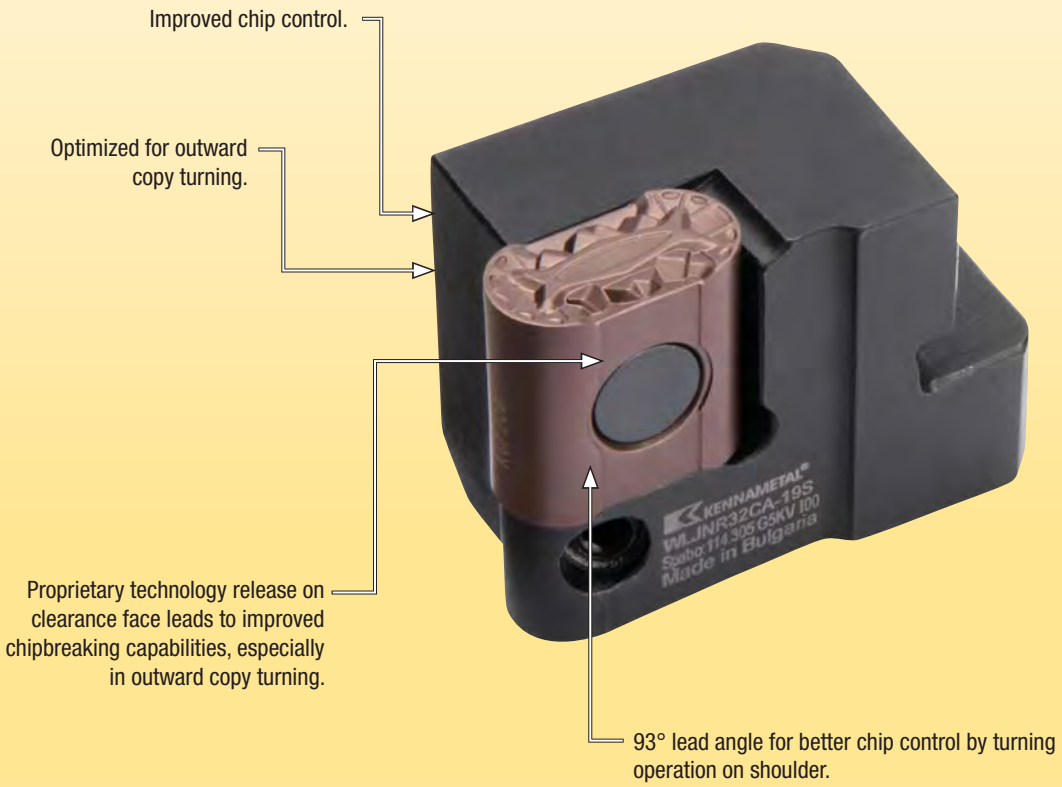


A, B, & C: One insert can be applied in profiling and facing.

A & C: Chip control, even at a smaller DOC, will be improved.



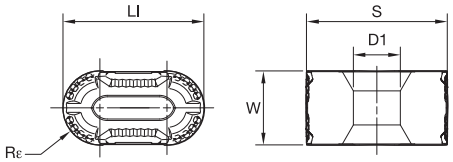
Features and Benefits



- The well performed RRF and RRP chipbreaker geometry with a full-radius design offers better chip control even at smaller DOC.

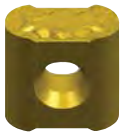
● first choice
○ alternate choice

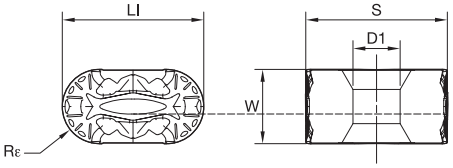
P		●	●
M			
K			
N			
S			
H			



LNUX-RRF Full-Radius

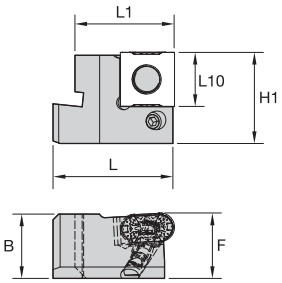
ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP25B
LNUX191950RRF	**LNUX191950RRF**	10,00	.394	19,05	.750	19,05	3/4	5,00	.196	6,35	.250	●	●

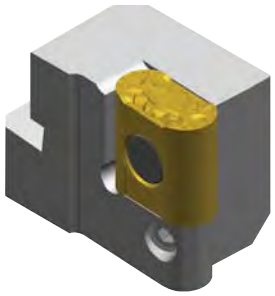




LNUX-RRP Full-Radius

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP25B
LNUX191950RRP	**LNUX191950RRP**	10,00	.394	19,05	.750	19,05	3/4	5,00	.197	6,35	.250	●	●
LNUX301960RRP	**LNUX301960RRP**	12,00	.472	30,00	1.181	19,05	3/4	6,00	.236	6,35	.250	●	●

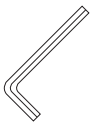




Cartridge WLJN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L10 mm	L10 in	L1 mm	L1 in	L mm	L in	gage insert
6049016	**WLJNL32CA19S**	32,00	1.260	22,60	.890	23,00	.906	19,050	.750	35,00	1.38	42,70	1.681	LNUX191950RRP
6049018	**WLJNL32CA30S**	32,00	1.260	22,60	.890	23,50	.925	30,000	1.181	35,00	1.38	45,00	1.772	LNUX301960RRP
6049015	**WLJNR32CA19S**	32,00	1.260	22,60	.890	23,00	.906	19,050	.750	35,00	1.38	42,70	1.681	LNUX191950RRP
6049017	**WLJNR32CA30S**	32,00	1.260	22,60	.890	23,50	.925	30,000	1.181	35,00	1.38	45,00	1.772	LNUX301960RRP

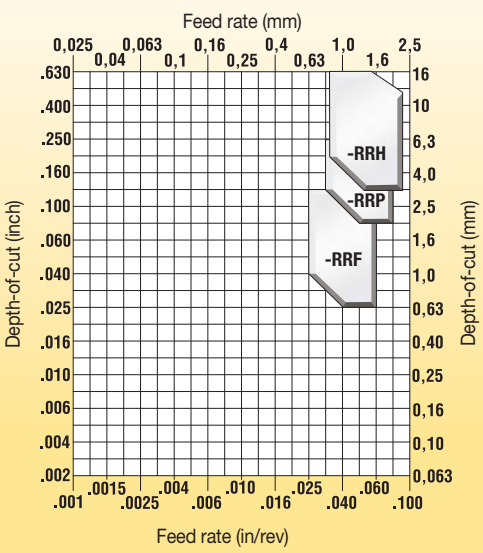
Spare Parts



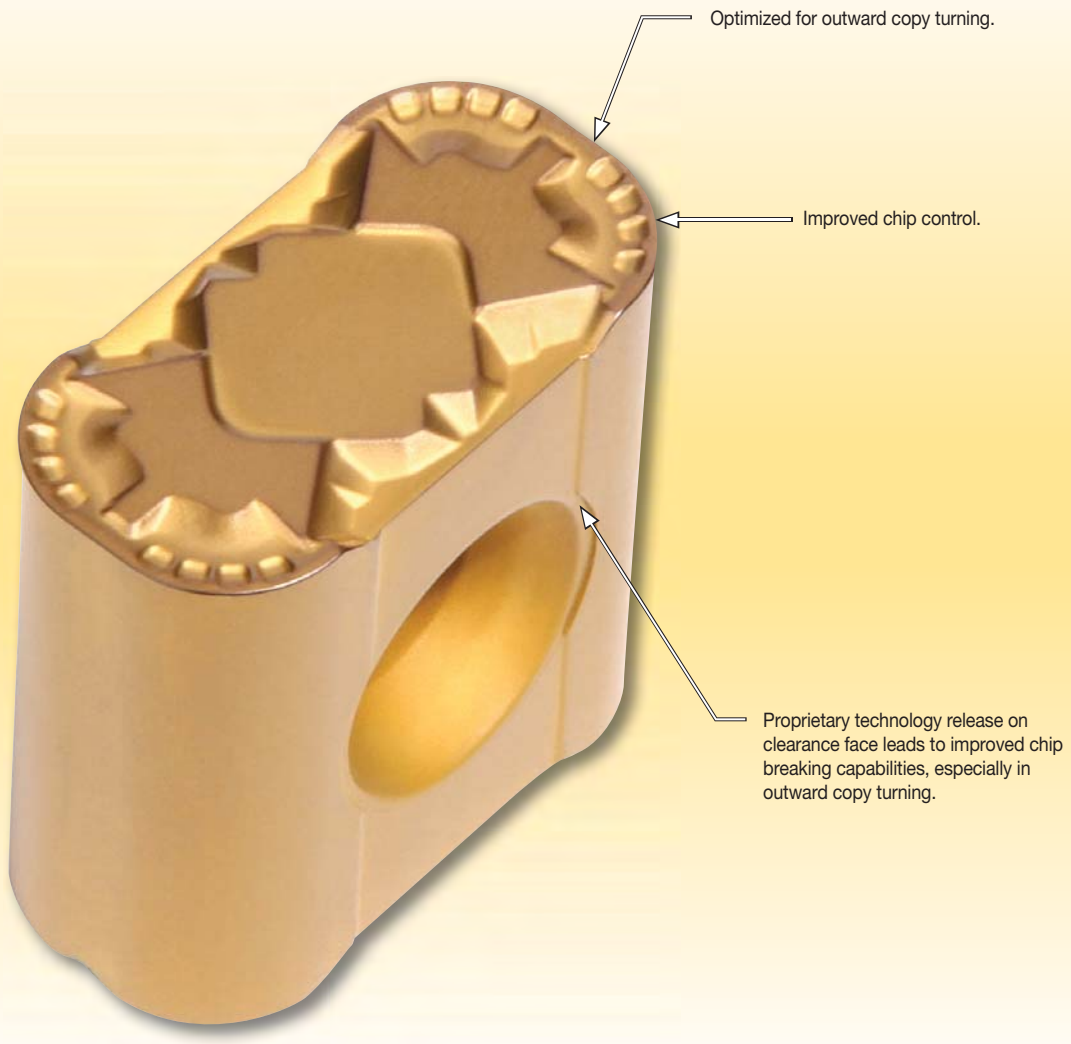
catalog number	clamp stud	clamp screw	hex wrench
WLJNL32CA19S	**114.305**	**121.616**	**170.003**
WLJNL32CA30S	**114.305**	**121.616**	**170.003**
WLJNR32CA19S	**114.305**	**121.616**	**170.003**
WLJNR32CA30S	**114.305**	**121.616**	**170.003**

New Chip Breaking Geometry

For Rail Wheel Machining — RRF



Small DOC Re-Profiling

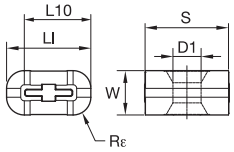


Kennametal stocks a complete line of standard inserts for wheel and axle machining. Inserts are available in various styles, sizes, and grades.

- **Wheel boring** — molded chipbreaker inserts in round, square, octagon, and regrindable inserts.
- **Axle turning** — triangle- and diamond-shaped inserts with chipbreakers.
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

● first choice
○ alternate choice

		KCP10B	KCP10	KCP25B	KCP25
P		●	●	●	●
M					
K		○	○	○	○
N					
S					
H					



LNUX-RRF

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRF	**LNUX191940RRF**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRF	**LNUX301940RRF**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	–

NOTE: Also available in KC9105™.

LNUX-RRH

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRH	**LNUX191940RRH**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRH	**LNUX301940RRH**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	●	–	–	●

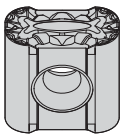
NOTE: Also available in KC9105.

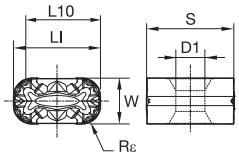
Kennametal stocks a complete line of standard inserts for wheel and axle machining. Inserts are available in various styles, sizes, and grades.

- **Wheel boring** — molded chipbreaker inserts in round, square, octagon, and regrindable inserts.
- **Axle turning** — triangle- and diamond-shaped inserts with chipbreakers.
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

● first choice
○ alternate choice

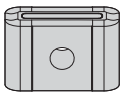
P		●	●	●	●
M					
K		○	○	○	○
N					
S					
H					

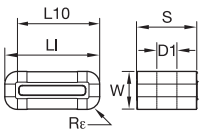




LNUX-RRP

ISO catalog number	ANSI catalog number	W		LI		L10		S		Rε		D1		KCP10B	KCP10	KCP25B	KCP25
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
LNUX191940RRP	**LNUX191940RRP**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRP	**LNUX301940RRP**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	–	–	–	●





LNUX-RRSM

ISO catalog number	ANSI catalog number	W		LI		L10		S		Rε		D1		KCP10B	KCP10	KCP25B	KCP25
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
LNUX191940RRSM	**LNUX191940RRSM**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	–	●	–
LNUX301940RRSM	**LNUX301940RRSM**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	●	–	–	–

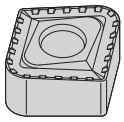
NOTE: Also available in KC9105™.

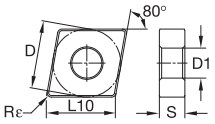
Kennametal stocks a complete line of standard inserts for wheel and axle machining. Inserts are available in various styles, sizes, and grades.

- **Wheel boring** — molded chipbreaker inserts in round, square, octagon, and regrindable inserts.
- **Axle turning** — triangle- and diamond-shaped inserts with chipbreakers.
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

● first choice
○ alternate choice

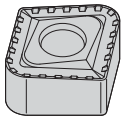
P		●	●	●	●
M					
K			●	●	●
N					
S					
H					

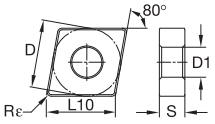




CNMM-RRP

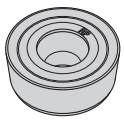
ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
CNMM190740RRP	CNMM190740RRP	19,34	.762	7,94	5/16	4,00	5/32	7,93	.313	●	–	–	–

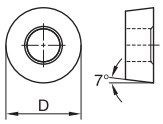




LNUX-WT5

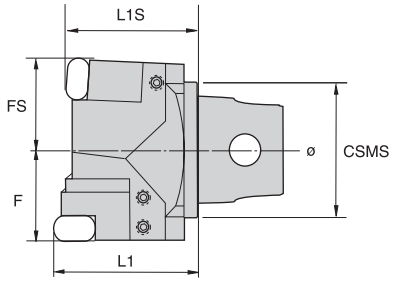
ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940S-WT5	LNUX191940S-WT5	19,05	.750	19,05	3/4	4,00	5/32	6,35	.250	–	–	●	–
SNMX190640S-WT5	SNMX190640S-WT5	19,05	.750	6,35	1/4	4,00	5/32	6,35	.250	–	–	●	–





RCMX

ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
RCMX2507M076	RCMX2507M076	—	—	7,94	5/16	—	—	7,40	.291	–	–	●	–

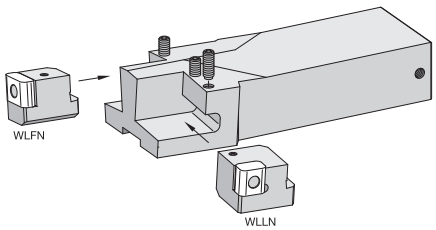


TK

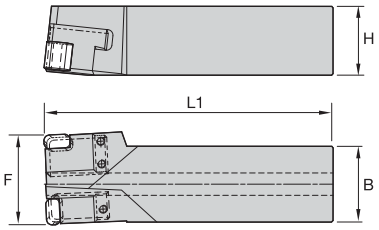
order number	catalog number	CSMS system size	F		FS		L1		L1S	
			mm	in	mm	in	mm	in	mm	in
1781755	**TK01338D**	KM63	42,50	1.673	42,50	1.673	66,00	2.598	60,00	2.362
1781756	**TK01339D**	KM63	42,50	1.673	42,50	1.673	66,00	2.598	60,00	2.362

Assembly Instructions

basic/KM shank	cartridge WLLN..	cartridge WLFN..
right	right	left
left	left	right

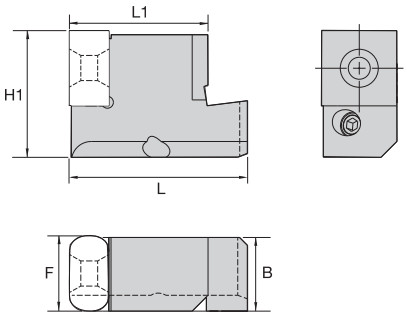


Assembly of complete tool



Basic Shank WXXN

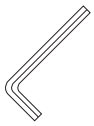
order number	catalog number	H		B		F assembly		L1 assy		clamp screw
		mm	in	mm	in	mm	in	mm	in	
1251261	**WXXNL4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**
1251262	**WXXNR4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**



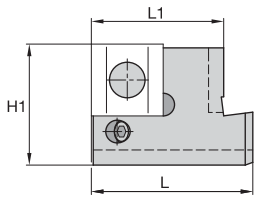
Cartridge WLFN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L1 mm	L1 in	L mm	L in	insert 1
2435188	WLFNL32CA19S	32,00	1.260	18,60	.732	19,00	.748	35,00	1.378	42,70	1.681	LNUX191940...
2435187	WLFNR32CA19S	32,00	1.260	18,60	.732	19,00	.748	35,00	1.378	42,70	1.681	LNUX191940...

Spare Parts



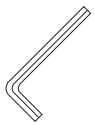
catalog number	clamp stud	clamp screw	hex wrench
WLFNL32CA19S	114.305	121.616	170.003
WLFNR32CA19S	114.305	121.616	170.003



Cartridge WLLN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L1 mm	L1 in	L mm	L in	insert 1
2435184	WLLNL32CA19S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX191940...
2435186	WLLNL32CA30S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX301940...
2435183	WLLNR32CA19S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX191940...
2435185	WLLNR32CA30S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX301940...

Spare Parts



catalog number	clamp stud	clamp screw	hex wrench
WLLNL32CA19S	114.305	121.616	170.003
WLLNL32CA30S	114.305	121.616	170.003
WLLNR32CA19S	114.305	121.616	170.003
WLLNR32CA30S	114.305	121.616	170.003

Wheel and Wheelset Truing with Beyond™ RU and UP Geometries

Kennametal tooling incorporates the latest technology for maximum metal removal and higher productivity. Standard off-the-shelf inserts and fewer pieces of hardware reduce inventory and operating costs. These tools are for reconditioning mounted wheel sets, wheel boring, wheel truing, axle turning, and journal burnishing.

Features and Benefits

Advantages of Kennametal Wheel Lathe Tools

- Heavy-duty steel locking unit.
- No top clamp to wear out or interfere with chip flow.
- Hardened-steel locking unit prevents insert movement.
- Quick removal of the steel locking unit.
- Fast trouble-free insert indexing.
- Withstand severe roughing cuts on work-hardened wheels.

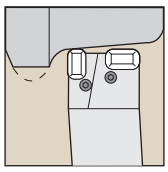
Achieve superior results while lowering production time and maintenance costs in these tough conditions:

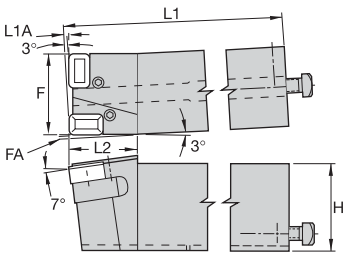
- Skid flat areas.
- Accidental torch burns.
- Overheating of spinning wheels.
- Excessive mushroom and rollovers that are hardened by unusual hump retarder pressure.
- Mismatched wheels that cause excessive wear on the flange side.

RU–Roughing Universal

UP–Universal Positive

- Fully automatic, heavy-duty wheel lathe with integrated measuring device to determine wheel set profile wear.
- Portal-type machine bed enables roll-through operation.
- Suitable for machining wheel sets for locomotives, transit, passenger, and freight cars.



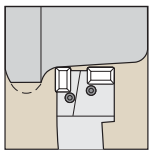


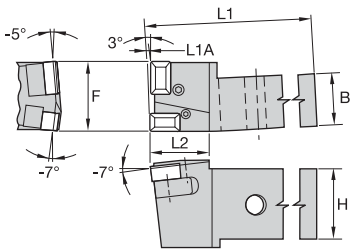
Tread Profile Truing

order number	catalog number	H		F		L1		L2		FA		L1A		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
1015754	**HUWTCL**	80,00	3.150	76,20	3.000	275,00	10.827	63,50	2.500	3,00	.118	3,00	.118	KRR6586__
1015723	**HUWTCR**	80,00	3.150	76,20	3.000	275,00	10.827	63,50	2.500	3,00	.118	3,00	.118	KRR6586__

NOTE: Requires two inserts.

- Maximum productivity at minimum operating costs.
- Fast insert indexing while tool is mounted in the tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Gage location on tool, over insert, is held to +/- .003" (0,08mm).
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Improved inserts with chip control.



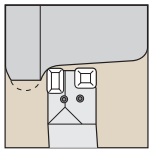


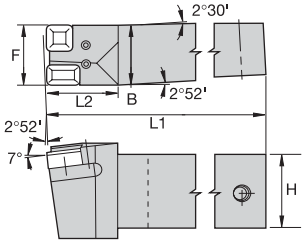
Wheel Tread Contouring

order number	catalog number	H		F		L1		L2		FA		L1A		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
1015688	**FUWTCL**	76,20	3.000	57,15	2.250	76,20	3.000	254,00	10.000	66,55	2.620	3,05	.120	KRR6586__
1015687	**FUWTCR**	76,20	3.000	57,15	2.250	76,20	3.000	254,00	10.000	66,55	2.620	3,05	.120	KRR6586__

NOTE: Requires two inserts.

- Maximum productivity at minimum operating costs.
- Fast insert indexing tool mounted in tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Minimum parts for lower inventory.
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Indexable inserts with pre-formed chipbreakers deliver chip control at optimum feeds and speeds.

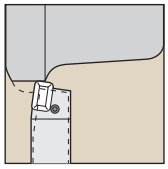


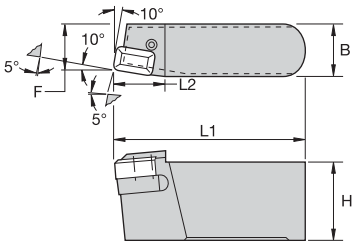


Wheel Tread Contouring

order number	catalog number	H		B		F		L1		L2		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	
1015659	**SUWTCL**	76,20	3.000	57,15	2.250	57,15	2.250	254,00	10.000	66,55	2.620	KRR6586__
1015658	**SUWTCR**	76,20	3.000	57,15	2.250	57,15	2.250	254,00	10.000	66,55	2.620	KRR6586__

NOTE: Requires two inserts.



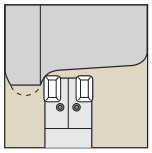


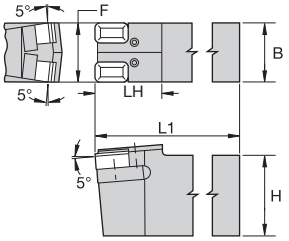
Wheel Flange Topping

order number	catalog number	H		B		F		L1		L2		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	
1015690	**NUFRL**	63,50	2.500	41,28	1.625	36,53	1.438	152,40	6.000	39,62	1.560	KRR6586__
1015689	**NUFRR**	63,50	2.500	41,28	1.625	36,53	1.438	152,40	6.000	39,62	1.560	KRR6586__

- Maximum productivity at minimum operating costs.
- Fast insert indexing tool mounted in tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Gage location on tool, over insert, is held to +/- .003" (0,08mm).
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Indexable inserts with pre-formed chipbreakers deliver chip control at optimum feeds and speeds.

Simmons-Niles Wheel Turning Lathe





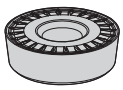
Wheel Tread Contouring

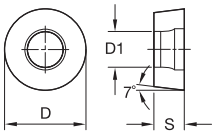
order number	catalog number	H		B		F		L1		LH		insert 1	steel locking unit	lock screw
		mm	in	mm	in	mm	in	mm	in	mm	in			
1015684	**NUWTC**	76,20	3.000	57,15	2.250	57,15	2.250	412,75	16.250	95,25	3.750	KRR6586__	**SU3**	**S1006PKG**

NOTE: Requires two inserts.

● first choice
○ alternate choice

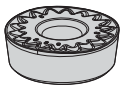
		KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P		○	●	●	●	●	●	○
M								●
K		●	●	○	○	○	○	○
N								○
S								●
H								○

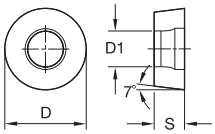




RCMH-UPG

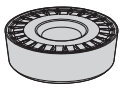
ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0TUPG	RCMH2507M0TUPG	25	.984	7,55	.297	7,94	.313	–	–	–	●	–	●	–	–
RCMH3209M0TUPG	RCMH3209M0TUPG	32	1.260	10,35	.407	9,52	.375	–	–	–	●	–	●	–	–

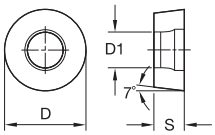




RCMH-RU

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0RU	RCMH2507M0RU	25	.984	7,55	.297	7,94	.313	–	–	–	–	●	–	–	–
RCMH3209M0RU	RCMH3209M0RU	32	1.260	10,35	.407	9,53	.375	–	–	–	–	●	–	–	–



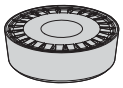


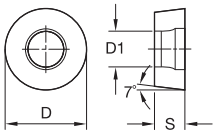
RCMT-UPG

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMT1606M0UPG	RCMT1606M0UPG	16	.630	5,50	.217	6,35	.250	●	–	–	●	–	●	●	–
RCMT2006M0UPG	RCMT2006M0UPG	20	.787	6,50	.256	6,35	.250	●	–	–	●	–	●	●	–

● first choice
○ alternate choice

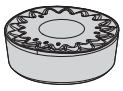
		KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P			○	●	●	●	●	●	○
M									●
K		●	●	○	○	○	○		○
N									○
S									●
H									○

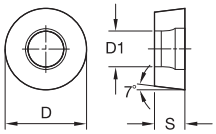




RCMX-UPG

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0TUPG	RCMX2507M0TUPG	25	.984	7,19	.283	7,94	.313	–	–	–	●	–	●	–	–
RCMX3209M0TUPG	RCMX3209M0TUPG	32	1.260	9,78	.385	9,52	.375	–	–	–	●	–	●	–	–





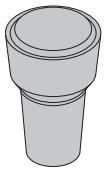
RCMX-RU

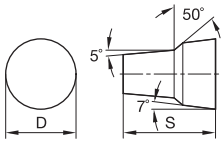
ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0RU	RCMX2507M0RU	25	.984	7,19	.283	7,94	.313	–	●	–	–	–	–	–	–
RCMX3209M0RU	RCMX3209M0RU	32	1.260	9,78	.385	9,53	.375	–	●	●	–	–	–	–	–

K-Lock™ Inserts

Features and Benefits

- K-Lock inserts are ideal for deep grooving and profiling.
- A unique insert clamping system enables unimpeded chip flow.
- Available in molded and ground peripheries.



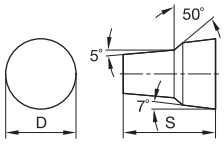


● first choice
○ alternate choice

P			○	○	○	○	
M			●	●	●	●	
K	○						
N	●	○					●
S	●	●	●	●	●		
H							

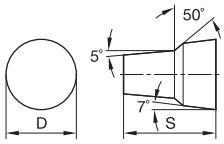
RCGK-FS

ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300FS	RCGK152FS	4,76	3/16	6,38	.251	–	●	–	–	–	–
RCGK060400FS	RCGK23FS	6,35	1/4	9,09	.358	–	●	–	●	–	–
RCGK090700FS	RCGK35FS	9,53	3/8	13,23	.521	–	●	–	●	●	–
RCGK120800FS	RCGK46FS	12,70	1/2	16,61	.654	–	●	–	–	–	–



RCGK-HP

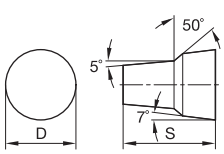
ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300HP	RCGK152HP	4,76	3/16	6,38	.251	–	●	–	●	–	–
RCGK060400HP	RCGK23HP	6,35	1/4	9,09	.358	–	●	–	●	–	●
RCGK090700HP	RCGK35HP	9,53	3/8	13,23	.521	–	●	–	–	–	●
RCGK120800HP	RCGK46HP	12,70	1/2	16,61	.654	–	●	–	–	–	●



RCMK

ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCMK040300	RCMK152	4,76	3/16	6,38	.251	–	–	–	●	–	–
RCMK060400	RCMK23	6,35	1/4	9,09	.358	–	●	–	●	–	–
RCMK090700	RCMK35	9,53	3/8	13,23	.521	–	–	–	●	–	–
RCMK120800	RCMK46	12,70	1/2	16,61	.654	–	–	–	●	–	–

- Medium geometry with positive rake face for chip control in difficult materials.

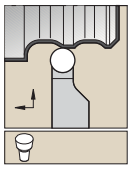


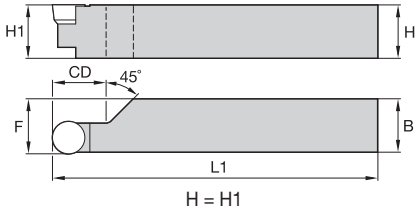
● first choice
○ alternate choice

P			●	●	●	●	
M							
K							
N						●	
S	●	●	●	●	●		●
H							

RCMK-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KCS10
RCMK060400MP	RCMK23MP	6,35	1/4	–	–	–	–	–	–	–	–	–	–	●
RCMK090700MP	RCMK35MP	9,53	3/8	–	–	–	–	–	–	–	–	–	–	●
RCMK120800MP	RCMK46MP	12,70	1/2	–	–	–	–	–	–	–	–	–	–	●

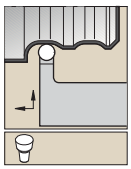


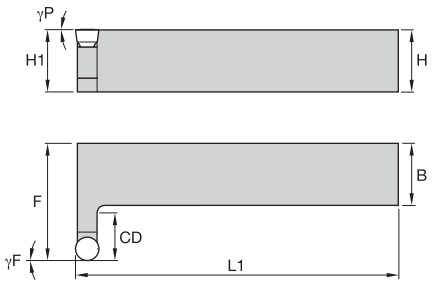


H = H1

TRAO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRAOR1615D	1.00	1.00	1.003	6.00	.50	0.0	0.0	RC..152
TRAOR162D	1.00	1.00	1.016	6.00	.75	0.0	0.0	RC..23
TRAOR163D	1.00	1.00	1.020	6.00	.75	0.0	0.0	RC..35
TRAOR164D	1.00	1.00	1.032	6.00	1.00	0.0	0.0	RC..46
TRAOR2015D	1.25	1.25	1.253	6.00	.50	0.0	0.0	RC..152
TRAOR202D	1.25	1.25	1.266	6.00	.75	0.0	0.0	RC..23
TRAOR203D	1.25	1.25	1.270	6.00	.75	0.0	0.0	RC..35
TRAOR204D	1.25	1.25	1.282	6.00	1.00	0.0	0.0	RC..46
TRAOR2415E	1.50	1.50	1.503	7.00	.50	0.0	0.0	RC..152
TRAOR242E	1.50	1.50	1.516	7.00	.75	0.0	0.0	RC..23
TRAOR243E	1.50	1.50	1.520	7.00	.75	0.0	0.0	RC..35
TRAOR244E	1.50	1.50	1.532	7.00	1.00	0.0	0.0	RC..46
left hand								
TRAOL1615D	1.00	1.00	1.003	6.00	.50	0.0	0.0	RC..152
TRAOL162D	1.00	1.00	1.016	6.00	.75	0.0	0.0	RC..23
TRAOL163D	1.00	1.00	1.020	6.00	.75	0.0	0.0	RC..35
TRAOL164D	1.00	1.00	1.032	6.00	1.00	0.0	0.0	RC..46
TRAOL2015D	1.25	1.25	1.253	6.00	.50	0.0	0.0	RC..152
TRAOL202D	1.25	1.25	1.266	6.00	.75	0.0	0.0	RC..23
TRAOL203D	1.25	1.25	1.270	6.00	.75	0.0	0.0	RC..35
TRAOL204D	1.25	1.25	1.282	6.00	1.00	0.0	0.0	RC..46
TRAOL2415E	1.50	1.50	1.503	7.00	.50	0.0	0.0	RC..152
TRAOL242E	1.50	1.50	1.516	7.00	.75	0.0	0.0	RC..23
TRAOL243E	1.50	1.50	1.520	7.00	.75	0.0	0.0	RC..35
TRAOL244E	1.50	1.50	1.532	7.00	1.00	0.0	0.0	RC..46



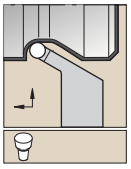


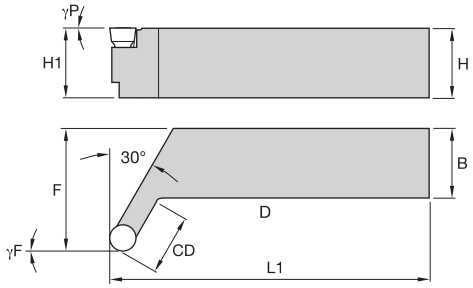
H = H1

TRHO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRHOR1615D	1.00	1.00	1.625	6.00	.50	0.0	0.0	RC..152
TRHOR162D	1.00	1.00	1.875	6.00	.75	0.0	0.0	RC..23
TRHOR2015D	1.25	1.25	1.875	6.00	.50	0.0	0.0	RC..152

NOTE: Left-hand holders are available as specials.





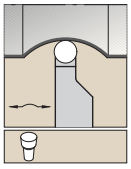
H = H1

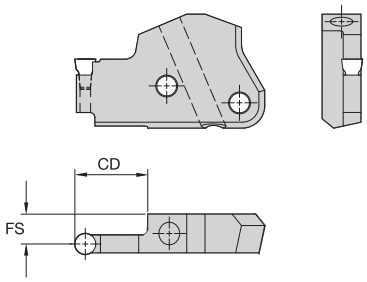
TRTO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRTOR1615D	1.00	1.00	1.500	6.00	.55	0.0	0.0	RC..152
TRTOR162D	1.00	1.00	1.750	6.00	.84	0.0	0.0	RC..23
TRTOR2015D	1.25	1.25	1.750	6.00	.55	0.0	0.0	RC..152
TRTOR202D	1.25	1.25	2.000	6.00	.84	0.0	0.0	RC..23

NOTE: Left-hand holders are available as specials.

Modular Blades





TRM

catalog number	CD mm	CD in	FS mm	FS in	cartridge size	gage insert
right hand						
TRM50R0432M	32	1.25	9,62	.379	50	RCMK152
TRM50R0620M	19	.75	8,98	.354	50	RCMK23
TRM50R0632M	32	1.25	8,98	.354	50	RCMK-23
TRM50R0640M	38	1.50	8,98	.354	50	RCGK23
TRM50R0720M	19	.75	8,42	.332	50	RCMK-2.55
TRM50R0920M	19	.75	7,64	.301	50	RC_K35
TRM50R0932M	32	1.25	7,65	.301	50	RCMK-35
TRM50R0940M	38	1.50	7,64	.301	50	RC_K35
TRM50R0950M	50	1.95	7,65	.301	50	RCMK-35
left hand						
TRM50L0432M	32	1.25	9,62	.379	50	RCMK152
TRM50L0620M	19	.75	8,98	.354	50	RCMK23
TRM50L0632M	32	1.25	8,98	.354	50	RCMK-23
TRM50L0640M	38	1.50	8,98	.354	50	RCGK23
TRM50L0920M	19	.75	7,64	.301	50	RC_K35
TRM50L0932M	32	1.25	7,65	.301	50	RCMK-35
TRM50L0950M	50	1.95	7,65	.301	50	RCMK-35

Order No.	Catalog No.	Page(s)
1015658	SUWTCR	E64
1015659	SUWTCL	E64
1015684	NUWTC	E65
1015687	FUWTCR	E63
1015688	FUWTCL	E63
1015689	NUFRR	E64
1015690	NUFRL	E64
1015723	HUWTCR	E63
1015754	HUWTCL	E63
1016432	MCLNL164C	B63
1016454	MDJNR204D	B89
1016456	A16TMCLNR4	B71
1016462	NSR163D	C182, D27
1016474	NSR245D	C182, D27
1016544	SM837 K9	B186, B397
1016582	SM449 K9	T113
1016596	SM414 K9	E40, E48–49
1016598	SM432 K9	B372–373
1016602	SKTP343 K9	B259–260
1016624	SKCP343 K9	B193–196
1016626	SKDP343 K9	B227–229
1016628	SKCP453 K9	B194
1016644	IWSN433 K9	B163
1016646	SMRN42B K9	B170, B385
1016648	ITSN323 K9	B131–135, B137, B139, B143
1016650	ITSN636 K9	B134, B137
1016652	ISSN322 K9	B111, B113
1016674	ISSN433 K9	B109, B111–113, B120
1016678	ICSN433 K9	B58–65, B67–71, B75–76
1016682	IDSN443 K9	B87–93, B96
1016694	IDSN533 K9	B89–90
1016700	SM26 K9	B375
1016724	SM36 K9	B172–173, B376–378
1016726	SM37 K9	B179–184, B188, B378–382, B389–390, B393
1016728	SM40 K9	B172–173, B376–378
1016730	SM41 K9	B179–184, B188, B378–382, B389–390, B393
1016746	SM45 K9	B373
1016748	SM46 K9	B373
1016750	SM47 K9	B374
1016752	SM48 K9	B375
1016820	SM119 K9	B179, B181–182, B378, B381–382
1016822	SM120 K9	B172, B376
1016922	SM216 K9	B375
1016944	SM218 K9	B373
1016950	SM271 K9	E41, E45
1016952	SM272 K9	E41
1016964	SM285 K9	E41–42, E44–46
1016966	SM286 K9	E41–42, E44–46
1017084	SM369 K9	B165, B376, B389
1017166	SM396 K9	B372
1017168	SM412 K9	E43, E47, E49
1017170	SM417 K9	B210–211
1017172	SM420 K9	C184, D28
1017174	SMYE3 K9	D71–72, D74–75, D77–79
1017176	SMYI3 K9	D71, D74–79
1017178	SMYE4 K9	D71–72, D74, D77–78
1017180	SMYI4 K9	D71, D74–79
1017182	SMRN63B K9	B170, B385
1017214	SMRN84B K9	B170, B385
1017220	ITSN322 K9	B140–142
1017222	ISSN332 K9	B113
1017224	IRSN33 K9	B98
1017226	IVSN322 K9	B150–155
1017228	SKVN343 K9	B282
1017230	IDSN432 K9	B94–95
1017246	IRSN43 K9	B98
1017248	IRSN44 K9	B98–99, B371
1017252	ICSN432 K9	B72–74
1017274	ICSN442 K9	B66, B371
1017276	ITSN433 K9	B132–143
1017278	ISSN432 K9	B115–117, B119
1017282	IVSN432 K9	B150–151
1017294	ITSN534 K9	B133–137
1017296	ISSN533 K9	B111–113
1017298	ICSN533 K9	B61–65, B67–69, B71, B74–76
1017300	ISSN633 K9	B111–115, B119–120
1017302	IRSN63 K9	B98
1017334	ICSN633 K9	B59, B61–65, B68, B71, B74–76
1018325	CK6	B63, B71, B98, B111, B113, B132–137, B163, B373
1018327	CK7	B69, B76, B89–90, B93, B96, B133, B139, B143, B165, B172, B183–185, B376, B389–390, B392
1018329	CK9	B62, B65, B98, B111–114, B132–139, B143, B172–173, B179, B181–184, B374–382, B389–390
1018331	CK10	B172–173, B179, B181–184, B188, B374–382, B389–390, B393
1018333	CK7LP	B170, B388, B392–393
1018345	CK12	B61–65, B69, B71, B75–76, B89–90, B93, B96, B98, B111–112, B114, B120, B133–134, B137, B165, B373, B376
1018347	CK13	B165, B180, B376, B379–380
1018349	CK19	B132, B135–136, B179, B181–185, B378, B381–382, B389–390, B392
1018351	CK20	B60–64, B69–71, B75–76, B89–90, B163, B165, B183–185, B372–374, B389–390, B392
1018353	CK21	B61, B66, B69, B98–99, B120, B371–372
1018365	CK22	B92, B96, B155, B165, B389
1018367	CK23	B89–90, B180, B379–380
1018369	CK24	B63–64, B98, B111–112
1018373	CK27	B183–185, B388–390, B392
1018395	CK28	B374
1018397	CK29	B172, B376
1018401	CK43	B152–155
1018407	CM105	E45
1018409	CM106	E44–45
1018413	CM109	C190, D36–37
1018447	CM111	E46
1018449	CM112	E46
1018525	CM66	E41, E45
1018527	CM68	E41–42, E44–46
1018529	CM71	E41, E44–45
1018531	CM-72	C193, D31–33, D36, D39
1018533	CM73	C193, D31–33, D36, D39
1018567	CM79	E41, E44–46
1018569	CM80	C182, C187, C191, D26–27, D32, D35
1018571	CM81	C182, C187, D26–27, D32
1018647	MW25	U28–29, V148–149
1018649	MW3	U35–37
1019380	STC4	B61–65, B69, B71, B75–76, B89–90, B93, B96, B98, B111–114, B120, B132–139, B143, B152–155, B165, B172–173, B179–184, B188, B373–382, B389–390, B393
1019382	STC5	B63, B71, B89–90, B93, B96, B98, B111, B113, B132–137, B163, B172, B179, B373, B376, B378
1019388	STC8	B165, B172–173, B179–184, B188, B376–382, B389–390, B393
1019390	STC9	B69, B76, B132–133, B135–136, B139, B143, B165, B170, B179, B181–185, B376, B378, B381–382, B388–390, B392–393
1019392	STC11	B71, B165, B180, B183–185, B372–373, B379–380, B389–390, B392
1019434	STC19	B63–64, B98, B111–112, B172, B376
1019436	STC20	B60–64, B66, B69–71, B75–76, B89–90, B92, B96, B98–99, B120, B155, B163, B371–372, B374
1019480	STC27	B183–185, B388–390, B392
1019640	S111	B165, B172–173, B179–182, B184, B188, B372–382, B390, B393, C184, D28, D38, E40, E48–49
1019656	S125	B172–173, B179–184, B188, B375–382, B389–390, B393
1019694	S19	B165, B183, B376, B389
1019696	S112	C184, D28
1019818	S625	E41, E45
1019858	S518	E44–46
1019864	S524	E41–42, E44–46
1019866	S532	E40, E48–49
1019886	S322	B406–407
1019888	S325	B409
1019892	S327	B406–407, B409
1019924	S330	B406–407, B409
1019926	S415	B407–408
1019932	S425	B408, S122
1019938	S39	C191, C193, D35–37
1019940	S310	C182, C185–187, C191, C193, D25–27, D29, D35–37
1019978	S304	C190, D36–37
1019990	S412	B407–408, C184, C187, C193, C195, D26, D28, D36, D38, E43, E47, E49
1020018	S337	B406–407, B409
1020044	S340	B406–407, B409
1020056	S350	B406–407, B409
1020058	S352	C182, C187, C191, D26–27, D35
1020060	S353	B406–407, B409
1020272	S965	D29
1020355	SL344	B170, B172, B179, B181–182, B372–374, B376, B378, B381–382, B393, C184, D28, E41, E45
1020361	S959	E41–47, E49
1020545	MS1861	H100
1020657	CKM41	B74, B94
1020787	KUAM20	B217–223, B245, B276–278
1020789	KUAM22	B72–74, B94, B115–119, B140–142, B174, B186–187, B394, B397–398
1020791	KUAM23	B198, B245, B249–251, B276–279, C196, D41
1020805	KUAM26	B74, C196, D41
1020807	KUAM27	B74, B115, B119, T91–92
1020809	KUAM28	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
1020811	KUAM30	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
1020813	KUAM31	B72–74, B94, B115–119, B140–142, B174, B186–187, B198, B245, B249–251, B276–279, B394, B397–398, C196, D41
1020835	KUAM32	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
1020839	KUAM34	B217–223, B245, B276–278
1020841	KUAM35	B217, B220, B222–223
1020843	KUAM25	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
1020917	SRS3	B193–196, B227–229, B259–260, B282, S39, T113
1020919	SRS4	B194
1020923	SSY3T	D71–72, D74–79
1020935	SSY4T	D71–72, D74–79
1020939	MS1374	T89–92
1020941	SSN2T	D74–75
1020943	SSA3T	D71–72, D74–79
1020965	SSA4T	D71–72, D74–79
1020973	MS412	C196, D41
1020975	MS125	B186, B397
1020977	MS1273	C52–55, T119–120
1021007	MS1321	B168–169, B386–387
1021037	MS1027	B209–212, B216
1021039	MS1028	B210–211
1021051	MS1025	C196, D41
1021143	MS364	B74, B115, B119
1021183	MS1375	K89–90
1021301	MS1571	C135–136
1021337	MS1152	B273, B276–278, J25, J27, J29, J31, J33, J35, J37, J39
1021339	MS1153	B193–197, B209–215, B217–223, B227–230, B234–237, B243–245, B259–262, B270–279, B282–285, B287, B289–290, B292, K78–80, K85, K89–90
1021341	MS1155	B193, B195–198, B212–215, B217, B220, B227–230, B234–235, B237, B245, B254–255, B261–262, B271–279, B282–285, B287, B289–290
1021343	MS1156	B193–196, B227–229, B243–244, B259–260, B282, C127–128
1021375	MS1158	B194, B243
1021393	MS1281	U17–18
1021415	MS1282	U17–18
1021417	MS1284	U17–18
1021419	MS1285	C52–55
1021421	STCM9	B72–74, B94–95, B115–117, B119, B140–142
1021423	STCM11	U28–29, U35–36
1021455	STCM8	B74, B115, B119, B186, B397
1021463	STCM20	B74
1021503	STCM32	U28
1021505	STCM37	B140–142
1021507	STCM38	B72–74, B94, B115–119, B140–142, B174–176, B186–187, B394–398
1021511	STCM40	B74, B94, B115–117, B119
1021535	KLM43	B72–74, B115–119
1021537	KLM46	B72, B74, B94–95, B140–142
1021539	KLM58	B74
1021541	KLM68	B74, B115, B119
1021543	KLM33L	B94, B140–142
1021565	KLM34L	B140–142
1021569	KLM46S	B72–74, B94–95, B115–117, B119
1021589	FT5	K78
1021591	FT7	K78–80, K85, K89–90, K124–125
1021593	FT8	K42, K85
1021605	FT15	K85, K124–125
1021607	FT20	K124–125
1021657	CM113	E43, E47, E49
1021659	CM114	E43
1021661	CM116	E40, E48
1021663	CM117	E40
1021675	CM118	E48–49
1021677	CM119	E49
1021679	CM120	C184, C187, C191, D26, D28, D32, D35
1021681	CM121	C184, C187, C191, C195, D26, D28, D32, D35, D38
1021711	CM145	C195, D38
1021827	BP812	B170, B385
1021829	BP46	B170, B385
1021831	BP68	B170, B385
1021895	SU3	E65
1022051	CM144	C184, D28
1022075	KL23	B132, B134–136
1022077	KL33L	B93, B96, B139, B143, B163
1022081	KL33	B63, B71
1022083	KL34	B111, B113

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1022115	KL34L	B63, B89–90, B96, B98, B132–137, B139, B143, B152–155
1022117	KL46	B60–65, B69–71, B75–76, B98, B111–113, B120, B132–139, B143, B152–155, B163
1022119	KL46L	B66, B89–90, B92–93, B96, B99, B371
1022121	KL58	B61–65, B69, B71, B75–76, B89–90, B111–113, B133–137
1022123	KL68	B61–65, B71, B75–76, B98, B111–114, B120
1022135	KL44	B69, B71, B76, B114
1022141	KL810	B63–64, B98, B111–112
1022315	TT15	K42–43, T119–120, U17–18
1022436	CKM37	B74, B115–117, B119
1022485	DT7	U13, W40
1022487	DT8	U3, W29–31, W40, W42–43
1022489	DT9	V156
1022491	DT10	U3, W40–43
1022493	DT15	S56, S58, T89–92, U3, V155–156
1022519	TT25	K42–43, V87–88, V91, W40–43
1022521	TT30	K42–43, W41
1022649	S319PKG	B406–407
1022691	KT6	V123
1022695	KT8	K76, V122–123
1022697	KT9	S64, S67, S70
1022701	KT15	K76, K89–90, S122–123, V121–123
1022703	KT20	V121–123, V132–133
1022725	KT25	C143, C145
1022727	KT27	K77–78, K88
1023055	S1006PKG	E65
1023244	S422	B408, C184, C195, D28, D38, T109, V47, V54
1023315	S458	S5, S10, S14, S17, S20, S24, S32, S45, S50, S56, S58, S64, S67, S121–123, T7, T33, T113, U18, U29, V38, V54, V58
1024853	D32TTB28	B409
1024930	KSSISR300SD430C4	T113
1024931	KSSISR300SD430M4	T113
1024932	KSSISR300SD430F4	T113
1024933	KSSISR500SD430C6	T113
1024964	KSSISR500SD430M6	T113
1024965	KSSISR500SD430F6	T113
1024966	KSSISR600SD430C6	T113
1024967	KSSISR600SD430M6	T113
1024968	KSSISR600SD430F6	T113
1024970	KSSISR200SD430C3	T113
1024972	KSSISR200SD430M3	T113
1024994	KSSISR200SD430F3	T113
1024998	KSSISR250SD430M4	T113
1025000	KSSISR250SD430F4	T113
1025025	KSSISR400SD430C5	T113
1025027	KSSISR400SD430C6	T113
1025029	KSSISR400SD430M5	T113
1025031	KSSISR400SD430M6	T113
1025033	KSSISR400SD430F5	T113
1025065	KSSISR400SD430F6	T113
1025071	KSSISR600SD430C8	T113
1025094	KSSISR600SD430M8	T113
1025102	KSSISR800SD430C10	T113
1025134	KSSISR800SD430M10	T113
1025136	KSSISR800SD430F10	T113
1025140	KSSISR1000SD430M10	T113
1025612	HSFS0125	H86, H128–129, J13–15, J52–53, J89
1025861	KS44BLNE1240	U18
1025862	KS45BLNE1245	U18
1025863	KS46BLNE1245	U18
1025894	KS48BLNE1255	U18
1025895	KS54LNE1240	U17
1025896	KS55LNE1245	U17
1025897	KS85LNE1245	U17
1025898	KS56LNE1245	U17
1025899	KS58LNE1255	U17
1025930	KS34LNE1240	U17
1025931	KS44LNE1240	U17
1025932	KS64LNE1240	U17
1025933	KS84LNE1240	U17
1025964	KS45LNE1245	U17
1025965	KS65LNE1245	U17
1025966	KS46LNE1245	U17
1025967	KS66LNE1245	U17
1025968	KS86LNE1245	U17
1025969	KS48LNE1255	U17
1025970	KS68LNE1255	U17
1025971	KS88LNE1255	U17
1067613	CM74	C182–183, C185–188, C191–193, C196, D25–27, D29–31, D33, D35–36, D39, D41
1067614	CM75	C182–183, C185, C187–188, C191–193, C196, D25–27, D30–31, D33, D35–37, D39, D41
1067630	CM146	C191–193, D35–37, D39–40
1067631	CM147	C191–193, D35–37, D39–40
1067765	KS254BLNE1240	U18
1067766	KS255BLNE1245	U18
1080487	S4440W	B406
1082075	D24TTB21	B409
1082671	SCFPR08CA06	B217
1083005	MCLNR164C	B63
1085234	CSSPR164D	B173, B378
1085914	D20TTB18	B409
1086536	SCSPR08CA06	B222
1086694	D28TTB25	B409
1091551	D16TTB16	B409
1091555	D40TTB35	B409
1092071	STC26	B165, B389
1093271	75HC060M	G79
1093272	75HC080M	G79
1093273	75HC100M	G79
1093524	75HC120M	G79
1093525	75HC140M	G79
1093526	75HC160M	G79
1094300	MS1595	C34–41, C46–47, C49–50, C52–55, C122–126, C129, C131–133
1094409	STFCR062	B259
1094410	STFCL062	B259
1094421	STGCR062	B260
1094422	STGCL062	B260
1094423	STGCR082	B260
1094424	STGCL082	B260
1094427	STGCR103	B260
1094428	STGCL103	B260
1094429	STGCR123	B260
1094430	STGCL123	B260
1094433	SCACR052D	B193
1094435	SCACR062D	B193
1094436	SCACL062D	B193
1094437	SCACR083D	B193
1094438	SCACL083D	B193
1094443	SCFCR082	B193
1094444	SCFCL082	B193
1094453	SCGCR062	B194
1094455	SCGCR082	B194
1094457	SCGCR102	B194
1094459	SCGCR103	B194
1094461	SCGCR123	B194
1094462	SCGCL123	B194
1094475	SCLCR052	B194
1094476	SCLCL052	B194
1094477	SCLCR062	B194
1094478	SCLCL062	B194
1094479	SCLCR082	B194
1094480	SCLCL082	B194
1094481	SCLCR102	B194
1094482	SCLCL102	B194
1094483	SCLCR103	B194
1094484	SCLCL103	B194
1094485	SCLCR123	B194
1094486	SCLCL123	B194
1094491	SCLCRF062D	B195
1094492	SCLCLF062D	B195
1094493	SCLCRF082D	B195
1094494	SCLCLF082D	B195
1094495	SCLCRF083D	B195
1094496	SCLCLF083D	B195
1094497	SCMCN062	B195
1094498	SCMCN082	B195
1094500	SCMCN083	B195
1094501	SCMCN103	B195
1094502	SCMCN123	B195
1094511	SCRCR083	B196
1094512	SCRCL083	B196
1094513	SCRCR103	B196
1094519	SDJCR062	B228
1094520	SDJCL062	B228
1094521	SDJCR082	B228
1094522	SDJCL082	B228
1094523	SDJCR102	B228
1094524	SDJCL102	B228
1094525	SDJCR083	B228
1094526	SDJCL083	B228
1094527	SDJCR103	B228
1094528	SDJCL103	B228
1094529	SDJCR123	B228
1094530	SDJCL123	B228
1094531	SDJCR163	B228
1094532	SDJCL163	B228
1094533	SVJBR062	B282
1094534	SVJBL062	B282
1094535	SVJBR082	B282
1094536	SVJBL082	B282
1094537	SVJBR102	B282
1094538	SVJBL102	B282
1094539	SVJBR123	B282
1094540	SVJBL123	B282
1094541	SVJBR163	B282
1094542	SVJBL163	B282
1094543	SROCN102	B244
1094544	SROCN122	B244
1094545	SROCN162	B244
1094546	SROCN123	B244
1094547	SROCN163	B244
1094548	SRGCR122	B244
1094550	SRGCR162	B244
1094551	SRGCL162	B244
1094554	SRGCR163	B244
1094556	SRGCR203	B244
1094557	SRGCL203	B244
1094572	SCGCR163	B194
1094573	SCGCL163	B194
1094576	SCLCR163	B194
1094577	SCLCL163	B194
1094578	SCMCN163	B195
1094581	STFCR163	B259
1094583	STGCR163	B260
1094584	STGCL163	B260
1094589	SCACR103B	B193
1094590	SCACL103B	B193
1094591	SCLCRF523Z	B195
1094593	SCLCRF103B	B195
1094594	SCLCLF103B	B195
1094595	SDACR062D	B227
1094596	SDACL062D	B227
1094597	SDACR082D	B227
1094598	SDACL082D	B227
1094599	SDACR103B	B227
1094600	SDACL103B	B227
1094601	SDJCRF062D	B228
1094602	SDJCLF062D	B228
1094603	SDJCRF082D	B228
1094604	SDJCLF082D	B228
1094605	SDJCRF103B	B228
1094606	SDJCLF103B	B228
1094607	SVABR062D	B282
1094608	SVABL062D	B282
1094609	SVABR082D	B282
1094610	SVABL082D	B282
1094611	SVABR103B	B282
1094612	SVABL103B	B282
1094613	SVJBRF103B	B283
1094614	SVJBLF103B	B283
1094615	SVJBRF062D	B283
1094616	SVJBLF062D	B283
1094617	SVJBRF082D	B283
1094618	SVJBLF082D	B283
1094621	SROCN203	B244
1094651	A0506STFPR18	B273
1094653	A06MSTFPR2	B271
1094654	A06MSTFPL2	B271
1094655	A08RSTFPR2	B271
1094656	A08RSTFPL2	B271
1094657	A10SSTFPR2	B271
1094659	A12SSTFPR3	B271
1094660	A12SSTFPL3	B271
1094661	A16STFPR3	B271
1094663	A0306GSCLDR12	B203
1094664	A0306GSCLDL12	B203
1094665	A0406HSCLDR12	B203
1094666	A0406HSCLDL12	B203
1094667	A0506KSCLPR18	B215
1094669	A06MSCLPR2	B213
1094670	A06MSCLPL2	B213
1094671	A08RSCLPR2	B213
1094672	A08RSCLPL2	B213
1094673	A10SSCLPR2	B213
1094674	A10SSCLPL2	B213
1094675	A10SSCLPR3	B213
1094676	A10SSCLPL3	B213
1094677	A12SSCLPR3	B213
1094678	A12SSCLPL3	B213
1094679	A16TSCLPR3	B213
1094680	A16SCLPL3	B213
1094681	A08RSDXPR2	B235
1094682	A08RSDXPL2	B235
1094683	A10SSDXPR2	B235
1094684	A10SSDXPL2	B235
1094685	A12SSDXPR3	B235
1094687	A16TSDXPR3	B235
1094688	A16TSDXPL3	B235
1094689	A06MSDUPR2	B234
1094690	A06MSDUPL2	B234
1094691	A08RSDUPR2	B234
1094692	A08RSDUPL2	B234
1094693	A10SSDUPR2	B234
1094694	A10SSDUPL2	B234
1094695	A12SSDUPR3	B234
1094696	A12SSDUPL3	B234
1094697	A16TSDUPR3	B234
1094698	A16TSDUPL3	B234
1094699	A12SSVUBR2	B285
1094700	A12SSVUBL2	B285
1094701	A16TSVUBR3	B285
1094702	A16TSVUBL3	B285
1094703	A0306SWLPR15	B291
1094704	A0306SWLPL15	B291
1094705	A0406SWLPR15	B291
1094707	A0506KSWLPR15	B291
1094709	A06MSWLPR2	B289
1094711	A08RSWLPR2	B289
1094712	A08RSWLPL2	B289
1094713	A10SSWLPR3	B289
1094714	A10SSWLPL3	B289
1094715	A12SSWLPR3	B289
1094716	A12SSWLPL3	B289
1094717	A16SWLPR3	B289
1094719	A10SSVQBR2	B284
1094720	A10SSVQBL2	B284
1094721	A12SSVQBR2	B284
1094722	A12SSVQBL2	B284
1094723	A16TSVQBR3	B284
1094724	A16TSVQBL3	B284
1094725	A06MSCFPR2	B212
1094726	A06MSCFPL2	B212
1094727	A08RSCFPR2	B212
1094728	A08RSCFPL2	B212
1094729	A10SSCFPR2	B212
1094730	A10SSCFPL2	B212
1094731	A12SSCFPR3	B212
1094732	A12SSCFPL3	B212
1094733	A16SCFPR3	B212
1094745	A06MSTLPR2	B274
1094746	A06MSTLPL2	B274
1094747	A08RSTLPR2	B274
1094748	A08RSTLPL2	B274
1094749	A10SSTLPR2	B274
1094750	A10SSTLPL2	B274

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1094751	A12SSTLPR3	B274
1094752	A12SSTLPL3	B274
1094753	A16STLPR3	B274
1094755	A05KSTFPR18	B271
1094757	A08SCLPR2D	B217
1094758	A10SCLPR2D	B217
1094759	A12SCLPR3D	B217
1094792	A16CRGNR3	B388
1094793	A16CRGNL3	B388
1094816	A08RCTLNR2	B388
1094818	A10SCTLNR2	B388
1094819	A10CTLNL2	B388
1094824	A08NER2	C191, D35
1094825	A08NEL2	C191, D35
1094826	A06NER1	C190, D36
1094827	A08NER1	C190, D36
1094828	A10NER1	C190, D36
1094829	A10SNER2	C191, D35
1094830	A10SNEL2	C191, D35
1094831	A12SNER2	C191, D35
1094832	A12NEL2	C191, D35
1094833	A16TNER2	C191, D35
1094834	A16TNEL2	C191, D35
1094835	A16NER3	C191, D35
1094836	A16NEL3	C191, D35
1094837	A20NER3	C191, D35
1094838	A20NEL3	C191, D35
1094839	A24NER3	C191, D35
1094840	A24NEL3	C191, D35
1094841	A28NER3	C191, D35
1094842	A28NEL3	C191, D35
1094843	A32NER3	C191, D35
1094844	A32NEL3	C191, D35
1094845	A40NER3	C191, D35
1094846	A40NEL3	C191, D35
1094847	A28NER4	C191, D35
1094848	A28NEL4	C191, D35
1094849	A32NER4	C191, D35
1094850	A32NEL4	C191, D35
1094853	A40NER4	C191, D35
1094856	A32NEL5	C191, D35
1094859	A32NER6	C191, D35
1094860	A32NEL6	C191, D35
1094863	A16CTLPL3	B185, B390
1094872	A06RCTFPR2	B183, B389
1094874	A08RCTFPR2	B183, B389
1094875	A08RCTFPL2	B183, B389
1094876	A10SCTFPR2	B183, B389
1094877	A10CTFPL2	B183, B389
1094878	A12SCTFPR3	B183, B389
1094879	A12SCTFPL3	B183, B389
1094880	A16TCTFPR3	B183, B389
1094882	A20UCTFPR3	B183, B389
1094884	A24CTFPR3	B183, B389
1094888	A24CTFPR4	B183, B389
1094889	A24CTFPL4	B183, B389
1094892	A32CTFPR4	B183, B389
1094896	A16CCLPR4	B165, B389
1094900	A24CCLPR4	B165, B389
1094904	A06MCTLPR2	B185, B390
1094906	A08RCTLPR2	B185, B390
1094907	A08RCTLPL2	B185, B390
1094908	A12SCTLPR3	B185, B390
1094909	A12SCTLPL3	B185, B390
1094910	A16CTLPR3	B185, B390
1094911	A16TNSR3	C194
1094912	A16TNSL3	C194
1094913	A20UNSR3	C194
1094915	A24UNSR3	C194
1094916	A24UNSL3	C194
1094919	A32VNSR3	C194
1094920	A32VNSL3	C194
1094921	A40VNSR3	C194
1094941	S4416W	B406
1094942	S4420W	B406
1094943	S4424W	B406
1094944	S4428W	B406
1094945	S4432W	B406
1094947	S4440W48	B406
1094953	A10SSCLPR3AP5	B216
1094954	A12SSCLPR3AP5	B216
1094955	A16SCLPR3AP5	B216
1094956	A10SSCLPL3AP5	B216
1094957	A12SSCLPL3AP5	B216
1094958	A16SCLPL3AP5	B216
1095001	H24CRGNR4	B170, B393
1095003	H32CRGNR4	B170, B393
1095216	H16LSER3	D76
1095218	H20LSER3	D76
1095220	H24LSER3	D76
1095222	H32LSER3	D76
1095224	H24LSER4	D76
1095226	H32LSER4	D76
1095291	H40MCKNR6	B75
1095308	H16MCLNR4	B76
1095309	H16MCLNL4	B76
1095313	H20MTFNR3	B143
1095314	H20NER3W	C195, D38
1095315	H20NEL3W	C195, D38
1095317	H20MVUNR3	B155
1095318	H20MVUNL3	B155
1095321	H20CTFPR3W	B188, B393
1095325	H20MCLNR4	B76
1095326	H20MCLNL4	B76
1095334	H20MDUNR4	B96
1095335	H20MDUNL4	B96
1095341	H20MWLNR4	B163
1095360	H24MSSNR4	B120
1095361	H24MTFNR3	B143
1095362	H24NER3W	C195, D38
1095363	H24NEL3W	C195, D38
1095365	H24MVUNR3	B155
1095366	H24MVUNL3	B155
1095367	H24NER8W	C195, D38
1095369	H24MCKNR4	B75
1095377	H24MCLNR4	B76
1095378	H24MCLNL4	B76
1095379	H24MCLNR5	B76
1095380	H24MCLNL5	B76
1095383	H24MDPNR4	B96
1095385	H24MDUNR3	B96
1095388	H24MDUNR4	B96
1095389	H24MDUNL4	B96
1095392	H24MSKNR4	B120
1095395	H24MWLNR4	B163
1095400	H24MWLNL4	B163
1095417	H28MTFNR3	B143
1095418	H28NER3W	C195, D38
1095419	H28NEL3W	C195, D38
1095421	H28NER4W	C195, D38
1095429	H28MCLNR4	B76
1095430	H28MCLNL4	B76
1095436	H28MDUNR4	B96
1095437	H28MDUNL4	B96
1095442	H28MWLNR4	B163
1095452	H28NER6W	C195, D38
1095456	H32NER3W	C195, D38
1095457	H32NEL3W	C195, D38
1095458	H32NER4W	C195, D38
1095459	H32NEL4W	C195, D38
1095461	H32MVUNR4	B155
1095464	H32MCKNR4	B75
1095469	H32MCLNR4	B76
1095472	H32MCLNL4	B76
1095474	H32MCLNR5	B76
1095475	H32MCLNL5	B76
1095476	H32MCLNR6	B76
1095477	H32MCLNL6	B76
1095479	H32MDUNR3	B96
1095480	H32MDUNR4	B96
1095483	H32MDUNL4	B96
1095485	H32MSKNR4	B120
1095489	H32MWLNR4	B163
1095495	H32MWLNL4	B163
1095512	H32NER6W	C195, D38
1095514	H32MTFNR4	B143
1095515	H32MVUNL4	B155
1095516	H36NER4W	C195, D38
1095531	H40MSSNR6	B120
1095533	H40NER3W	C195, D38
1095534	H40NEL3W	C195, D38
1095535	H40NER4W	C195, D38
1095536	H40NEL4W	C195, D38
1095538	H40MVUNR4	B155
1095539	H40MVUNL4	B155
1095540	H40MCKNR5	B75
1095541	H40MCKNL5	B75
1095542	H40CTFPR4W	B188, B393
1095548	H40MCLNR5	B76
1095549	H40MCLNL5	B76
1095550	H40MCLNR6	B76
1095551	H40MCLNL6	B76
1095553	H40MDUNR4	B96
1095556	H40MDUNL4	B96
1095558	H40MSKNR6	B120
1095560	H40MSKNL6	B120
1095571	H40NER6W	C195, D38
1095573	H40MTFNR4	B143
1095574	NASR083D	C185, D25
1095575	NASL083D	C185, D25
1095576	NASR102B	C185, D25
1095577	NASL102B	C185, D25
1095580	NEL062	C187, D26
1095581	NER062	C187, D26
1095582	NSL062	C182, D27
1095583	NSR062	C182, D27
1095588	STGPR062	B270
1095589	STGPR082V	B270
1095590	STFPR062	B270
1095592	SCLPR123B	B210
1095594	SCLPR062	B210
1095595	SCLPR083V	B210
1095596	SCGPR123B	B210
1095597	SCGPR062	B210
1095598	SCGPR083V	B210
1095600	SCFPR083V	B209
1095601	SCRPR062	B212
1095602	SCRPR083V	B212
1095605	SCMPN123B	B211
1095606	SCMPN062	B211
1095607	SCMPN083V	B211
1095632	SVUBR082	B283
1095633	SVUBR102	B283
1095634	SVUBL082	B283
1095635	SVUBL102	B283
1095644	SDUCR083	B229
1095645	SDUCR082	B229
1095647	SDUCR103	B229
1095648	SDUCL083	B229
1095649	SDUCL082	B229
1095651	SDUCL103	B229
1095654	SCLPRF062D	B211
1095655	SCLPRF083D	B211
1095658	SCLPLF062D	B211
1095659	SCLPLF083D	B211
1095661	SCAPR052D	B209
1095662	SCAPR062D	B209
1095663	SCAPR083D	B209
1095665	SCAPL052D	B209
1095667	SCAPL083D	B209
1095668	NASR103B	C185, D25
1095670	NASR082D	C185, D25
1095671	NASR062D	C185, D25
1095672	NASL103B	C185, D25
1095674	NASL082D	C185, D25
1095675	NASL062D	C185, D25
1095681	STGPL062	B270
1095682	STGPL082V	B270
1095685	SCLPL123B	B210
1095686	SCLPL062	B210
1095687	SCLPL083V	B210
1095688	SCGPL123B	B210
1095689	SCGPL062	B210
1095690	SCGPL083V	B210
1095692	SCFPL083V	B209
1095693	SCRPL062	B212
1095694	SCRPL083V	B212
1095802	PROON164D	B170, B385
1095803	PROON204D	B170, B385
1095804	PROON206D	B170, B385
1095805	PROON208D	B170, B385
1095806	PROON244D	B170, B385
1095808	PROON246	B170, B385
1095829	B10CTFPR2	B184, B390
1095830	B12CTFPR3	B184, B390
1095831	B14CTFPR3	B184, B390
1095832	B16CTFPR3	B184, B390
1095833	B20CTFPR3	B184, B390
1095834	B24CTFPR4	B184, B390
1095836	B32CTFPR4	B184, B390
1095839	D5420W	B407
1095840	D5424W	B407
1095841	D5428W	B407
1095842	D5432W	B407
1095844	D5440W	B407
1095901	A10NKLCR05	E44
1095902	A12SNKLCR05	E44
1095903	A16NKLCR05	E44
1095904	A20NKLCR05	E44
1095905	A24NKLCR05	E44
1095908	A10SNKLCL05	E44
1095909	A12SNKLCL05	E44
1095910	A16TNKLCL05	E44
1095915	A08NKQCR05	E46
1095916	A12SNKQCR05	E46
1095917	A16NKQCR05	E46
1095918	A08NKQCL05	E46
1095919	A12SNKQCL05	E46
1095920	A16NKQCL05	E46
1095921	A12NKXCR05	E46
1095922	A16NKXCR05	E46
1095926	A20NVLCR3	E47
1095927	A32NVLCR3	E47
1095928	A24NVLCR3	E47
1095943	H32NDQPL4W	E48
1095945	H20NDLPR4W	E48
1095946	H24NDLPR4W	E48
1095956	H24NDXPR4W	E49
1095959	H20NDXPL4W	E49
1095962	H40NDXPL4W	E49
1095964	H24NVLPR3W	E49
1095975	MRGNR163D	B98
1095981	MRGNR166D	B98
1095982	MRGNL166D	B98
1096002	MVVNN123B	B153
1096003	MVVNN163C	B153
1096004	MVVNN163D	B153
1096005	MVVNN164D	B153
1096006	MVVNN203D	B153
1096007	MVVNN204D	B153
1096008	MTJNR082B	B136
1096009	MTJNL082B	B136
1096012	MTJNR103B	B136
1096013	MTJNL103B	B136
1096014	MTJNR123B	B136
1096015	MTJNL123B	B136
1096016	MTJNR163C	B136
1096017	MTJNL163C	B136
1096018	MTJNR163D	B136
1096019	MTJNL163D	B136
1096022	MTJNR164D	B136
1096023	MTJNL164D	B136
1096024	MTJNR204D	B136
1096025	MTJNL204D	B136
1096026	MTJNR205D	B136
1096027	MTJNL205D	B136
1096029	MSRNL204D	B112
1096032	MCFNR124B	B60
1096033	MCFNR164C	B60
1096034	MCFNR164D	B60
1096037	MCFNL164D	B60
1096038	MSSNR123B	B113
1096039	MSSNR124B	B113
1096040	MSSNR164C	B113
1096041	MSSNR164D	B113
1096042	MSSNR206D	B113
1096047	MSSNL164C	B113
1096048	MSSNL164D	B113
1096049	MSSNL206D	B113
1096052	MTANR123B	B132
1096053	MTANR164D	B132
1096056	MTANR082B	B132
1096058	MTANR103B	B132
1096059	MTANL123B	B132
1096060	MTANL164D	B132
1096065	MTANL103B	B132
1096066	MCLNR123B	B63
1096067	MCLNR124B	B63

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1096068	MCLNR163C	B63
1096069	MCLNR163D	B63
1096070	MCLNR164D	B63
1096071	MCLNR165C	B63
1096072	MCLNR165D	B63
1096073	MCLNR166D	B63
1096075	MCLNR204D	B63
1096076	MCLNR205D	B63
1096077	MCLNR206D	B63
1096079	MCLNR244D	B63
1096080	MCLNR245E	B63
1096081	MCLNR246D	B63
1096082	MCLNR246E	B63
1096083	MCLNR854D	B63
1096086	MCLNR083A	B63
1096087	MCLNR103A	B63
1096088	MCLNL123B	B63
1096089	MCLNL124B	B63
1096092	MCLNL164D	B63
1096093	MCLNL165C	B63
1096094	MCLNL165D	B63
1096095	MCLNL166D	B63
1096097	MCLNL204D	B63
1096101	MCLNL244D	B64
1096102	MCLNL245E	B64
1096103	MCLNL246D	B64
1096104	MCLNL246E	B64
1096105	MCLNL854D	B64
1096107	MCLNL866E	B64
1096108	MCLNL083A	B63
1096109	MCLNL103A	B63
1096110	MCGNR124B	B61
1096111	MCGNR164C	B61
1096112	MCGNR164D	B61
1096113	MCGNL124B	B61
1096114	MCGNL164C	B61
1096115	MCGNL164D	B61
1096116	MCRNR124B	B65
1096117	MCRNR164C	B65
1096118	MCRNR164D	B65
1096119	MCRNR165D	B65
1096120	MCRNR166D	B65
1096121	MCRNR204D	B65
1096122	MCRNR206D	B65
1096123	MCRNR246E	B65
1096124	MCRNL124B	B65
1096125	MCRNL164C	B65
1096126	MCRNL164D	B65
1096127	MCRNL165D	B65
1096128	MCRNL166D	B65
1096129	MCRNL204D	B65
1096130	MCRNL206D	B65
1096131	MCRNL246E	B65
1096132	MCKNR124B	B62
1096133	MCKNR164C	B62
1096134	MCKNR164D	B62
1096135	MCKNR204D	B62
1096136	MCKNR206D	B62
1096137	MCKNL124B	B62
1096138	MCKNL164C	B62
1096139	MCKNL164D	B62
1096140	MCKNL204D	B62
1096141	MCKNL206D	B62
1096142	MCMNN124B	B64
1096143	MCMNN164C	B64
1096144	MCMNN164D	B64
1096145	MCMNN166D	B64
1096146	MCMNN204D	B64
1096147	MCMNN206D	B64
1096149	MSRNR124B	B112
1096150	MSRNR164C	B112
1096151	MSRNR164D	B112
1096152	MSRNR205D	B112
1096153	MSRNR206D	B112
1096154	MSRNR246D	B112
1096155	MSRNR246E	B112
1096156	MSRNR856D	B112
1096159	MSRNL124B	B112
1096160	MSRNL164C	B112
1096161	MSRNL164D	B112
1096162	MSRNL205D	B112
1096163	MSRNL206D	B112
1096164	MSRNL246D	B112
1096165	MSRNL246E	B112
1096169	MSKNR124B	B111
1096170	MSKNR164C	B111
1096171	MSKNR164D	B111
1096180	MSDNN083	B111
1096181	MSDNN103	B111
1096182	MSDNN123	B111
1096183	MSDNN124	B111
1096184	MSDNN164	B111
1096185	MSDNN854	B111
1096186	MSDNN855	B111
1096187	MSDNN856	B111
1096188	MTGNR123B	B135
1096189	MTGNR124B	B135
1096192	MTGNR164C	B135
1096193	MTGNR164D	B135
1096194	MTGNR204D	B135
1096195	MTGNR205D	B135
1096197	MTGNR082B	B135
1096199	MTGNR103B	B135
1096200	MTGNL123B	B135
1096201	MTGNL124B	B135
1096204	MTGNL164C	B135
1096205	MTGNL164D	B135
1096206	MTGNL204D	B135
1096207	MTGNL205D	B135
1096211	MTGNL103B	B135
1096212	MTFNR123B	B134
1096216	MTFNR164C	B134
1096217	MTFNR164D	B134
1096218	MTFNR204D	B134
1096219	MTFNR205D	B134
1096221	MTFNR246E	B134
1096226	MTFNL123B	B134
1096230	MTFNL164C	B134
1096231	MTFNL164D	B134
1096232	MTFNL204D	B134
1096234	MTFNL245D	B134
1096235	MTFNL246E	B134
1096240	MDJNR123B	B89
1096241	MDJNR124B	B89
1096242	MDJNR163C	B89
1096243	MDJNR163D	B89
1096244	MDJNR164C	B89
1096245	MDJNR164D	B89
1096246	MDJNR165D	B89
1096247	MDJNR203D	B89
1096248	MDJNR205D	B89
1096250	MDJNR245D	B89
1096251	MDJNR854D	B89
1096252	MDJNL123B	B89
1096253	MDJNL124B	B89
1096254	MDJNL163C	B89
1096255	MDJNL163D	B89
1096256	MDJNL164C	B89
1096257	MDJNL164D	B89
1096259	MDJNL203D	B89
1096260	MDJNL204D	B89
1096261	MDJNL205D	B89
1096263	MDJNL245D	B89
1096265	MDQNR124B	B90
1096266	MDQNR164C	B90
1096267	MDQNR164D	B90
1096268	MDQNR204D	B90
1096269	MDQNR244D	B90
1096270	MDQNR244E	B90
1096271	MDQNL124B	B90
1096272	MDQNL164C	B90
1096273	MDQNL164D	B90
1096274	MDQNL204D	B90
1096275	MDQNL244D	B90
1096276	MDQNL244E	B90
1096277	MDPNN123B	B90
1096279	MDPNN163D	B90
1096280	MDPNN164D	B90
1096282	MDPNN205D	B90
1096284	MDPNN245D	B90
1096286	MVJNR123B	B152
1096287	MVJNR124B	B152
1096288	MVJNR163C	B152
1096289	MVJNR163D	B152
1096290	MVJNR164C	B152
1096291	MVJNR164D	B152
1096292	MVJNR203D	B152
1096293	MVJNR204D	B152
1096294	MVJNR244D	B152
1096295	MVJNL123B	B152
1096297	MVJNL163C	B152
1096298	MVJNL163D	B152
1096299	MVJNL164C	B152
1096300	MVJNL164D	B152
1096301	MVJNL203D	B152
1096302	MVJNL204D	B152
1096303	MVJNL244D	B152
1096304	MRGNR123B	B98
1096305	MRGNR124B	B98
1096306	MRGNR164C	B98
1096307	MRGNR164D	B98
1096308	MRGNR204D	B98
1096309	MRGNR206D	B98
1096314	MRGNL164D	B98
1096315	MRGNL204D	B98
1096316	MRGNL206D	B98
1096318	MTCNN083	B133
1096319	MTCNN124	B133
1096320	MTCNN443	B133
1096321	MTCNN644	B133
1096324	MTRNR164D	B138
1096336	MTJNRS123	B137
1096337	MTJNRS124	B137
1096338	MTJNRS163	B137
1096339	MTJNRS164	B137
1096340	MTJNRS165	B137
1096341	MTJNRS204	B137
1096342	MTJNRS205	B137
1096343	MTJNLS123	B137
1096344	MTJNLS124	B137
1096345	MTJNLS163	B137
1096346	MTJNLS164	B137
1096347	MTJNLS165	B137
1096348	MTJNLS204	B137
1096349	MTJNLS205	B137
1096350	MTENNS082	B134
1096351	MTENNS103	B134
1096352	MTENNS123	B134
1096353	MTENNS163	B134
1096354	MTENNS164	B134
1096355	MTENNS205	B134
1096356	MTENNS246	B134
1096367	A40VMCLNR4	B71
1096368	A40MCLNL4	B71
1096369	A16MCLNR4D	B69
1096370	A20MCLNR4D	B69
1096371	A24MCLNR4D	B69
1096372	A32MCLNR4D	B69
1096373	A32MCLNR5D	B69
1096381	A20MTUNR3D	B139
1096385	A16MTFNR3	B139
1096386	A20UMTFNR3	B139
1096387	A24UMTFNR3	B139
1096388	A28MTFNR3	B139
1096389	A24UMTFNR4	B139
1096390	A28MTFNR4	B139
1096391	A32MTFNR4	B139
1096394	A16MTFNL3	B139
1096403	A20MSKNR4	B114
1096408	A40MSKNR6	B114
1096415	A16MCLNR3	B71
1096418	A20UMCLNR4	B71
1096419	A24UMCLNR4	B71
1096420	A28UMCLNR4	B71
1096421	A32VMCLNR4	B71
1096422	A24MCLNR5	B71
1096423	A32MCLNR5	B71
1096424	A32VMCLNR6	B71
1096426	A40VMCLNR6	B71
1096427	A16MCLNL3	B71
1096430	A16TMCLNL4	B71
1096431	A20UMCLNL4	B71
1096432	A24UMCLNL4	B71
1096433	A28UMCLNL4	B71
1096434	A32VMCLNL4	B71
1096435	A24MCLNL5	B71
1096436	A32MCLNL5	B71
1096437	A32VMCLNL6	B71
1096440	A20MCKNR4	B70
1096441	A24UMCKNR4	B70
1096442	A20MCKNL4	B70
1096443	A24MCKNL4	B70
1096444	A16TMDUNR3	B93
1096447	A20UMDUNR4	B93
1096448	A24UMDUNR4	B93
1096449	A28MDUNR4	B93
1096450	A32VMDUNR4	B93
1096455	A16TMDUNL3	B93
1096458	A20UMDUNL4	B93
1096459	A24UMDUNL4	B93
1096460	A28MDUNL4	B93
1096461	A32VMDUNL4	B93
1096466	A20UMVUNR3	B154
1096467	A24UMVUNR3	B154
1096468	A20UMVUNL3	B154
1096469	A24UMVUNL3	B154
1096470	A20UMDQNR4	B93
1096471	A24UMDQNR4	B93
1096472	A20MDQNL4	B93
1096473	A24MDQNL4	B93
1096481	H16MDUNL3	B96
1096482	H16MWLNL3	B163
1096484	H16MDUNR3	B96
1096643	MCLNRC164D	B66, B371
1096646	MRGNRC244D	B99, B371
1096647	MRGNRC164D	B99, B371
1096648	MRGNRC204D	B99, B371
1096672	MRGNLC244D	B99, B371
1096673	MRGNLC164D	B99, B371
1096674	MRGNLC204D	B99, B371
1096690	NKPCN1205B	E42
1096691	CSSPL164D	B173, B378
1096693	CSSPL856D	B173, B378
1096696	CTGPR082B	B182, B382
1096698	CCLNLP163D	B372
1096699	CCLNRP163D	B372
1096701	CCRNRP163D	B373
1096703	CRGNRP163D	B374
1096705	CRGNRP164D	B374
1096706	CRGNLP204D	B374
1096707	CRGNRP204D	B374
1096717	CCLNL164	B372
1096722	CCLNR164	B372
1096728	CRGNL123	B373
1096729	CRGNL163	B373
1096730	CRGNL164	B373
1096733	CRGNR123	B373
1096734	CRGNR163	B373
1096735	CRGNR164	B373
1096739	CSDNN164	B374
1096750	CSKNR856	B375
1096772	CSDNN124	B374
1096798	CTANR123	B375
1096887	CTGNR164	B375
1096898	CCLPL124B	B165, B376
1096899	CCLPL164C	B165, B376
1096902	CCLPR084V	B165, B376
1096903	CCLPR124B	B165, B376
1096904	CCLPR164C	B165, B376
1096909	CSDPN103	B172, B376
1096910	CSDPN124	B172, B376
1096911	CSDPN164	B172, B376
1096912	CSDPN644	B172, B376
1096914	CSDPN856	B172, B376
1096917	CSKPL164D	B172, B377
1096920	CSKPR164D	B172, B377
1096925	CSRPL124B	B173, B377
1096926	CSRPL164D	B173, B377
1096927	CSRPL856D	B173, B377
1096928	CSRPL866E	B173, B377
1096932	CSRPR164D	B173, B377
1096934	CSRPR866E	B173, B377
1096935	CSSPL854D	B173, B378
1096937	CSSPR854D	B173, B378
1096941	CTAPL123B	B179, B378
1096944	NDLPR164D	E40
1096946	CTAPL854D	B179, B378
1096948	CTAPR082B	B179, B378

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1096949	CTAPR102B	B179, B378
1096950	CTAPR123B	B179, B378
1096951	CTAPR163D	B179, B378
1096952	CTAPR854D	B179, B378
1096955	CTBPL123B	B179, B379
1096959	CTBPR123B	B179, B379
1096960	CTBPR163D	B179, B379
1096963	CTCPL163C	B180, B379
1096965	CTCPL164D	B180, B379
1096966	CTCPL204D	B180, B379
1096968	CTCPL244D	B180, B379
1096971	CTCPN124	B180, B380
1096972	CTCPN443	B180, B380
1096973	CTCPN644	B180, B380
1096974	CTCPN664	B180, B380
1096976	CTCPR123B	B180, B379
1096977	CTCPR163C	B180, B379
1096978	CTCPR164C	B180, B379
1096979	CTCPR164D	B180, B379
1096980	CTCPR204D	B180, B379
1096982	CTCPR244D	B180, B379
1096985	CTEPR123B	B181, B380
1096989	CTEPL854D	B181, B380
1096992	CTEPR163D	B181, B380
1096993	CTEPR854D	B181, B380
1096997	CTFPL123B	B181, B381
1096999	CTFPL163D	B181, B381
1097001	CTFPL164D	B181, B381
1097004	CTFPL854D	B181, B381
1097008	CTFPR082V	B181, B381
1097011	CTFPR123B	B181, B381
1097013	CTFPR163D	B181, B381
1097014	CTFPR164C	B181, B381
1097015	CTFPR164D	B181, B381
1097016	CTFPR204D	B181, B381
1097018	CTFPR854D	B181, B381
1097021	CTGPL102B	B182, B382
1097022	CTGPL123B	B182, B382
1097023	CTGPL163C	B182, B382
1097024	CTGPL163D	B182, B382
1097026	CTGPL164D	B182, B382
1097027	CTGPL204D	B182, B382
1097033	NDLPL164D	E40
1097035	CTGPR102B	B182, B382
1097036	CTGPR123A	B182, B382
1097037	CTGPR123B	B182, B382
1097038	CTGPR163C	B182, B382
1097039	CTGPR163D	B182, B382
1097041	CTGPR164C	B182, B382
1097042	CTGPR164D	B182, B382
1097043	CTGPR204D	B182, B382
1097048	NKLCR1605C	E41
1097049	NKLCL1605C	E41
1097118	NVLCR123B	E43
1097119	NVLCR203D	E43
1097120	NVLCR243D	E43
1097121	NVLCR163D	E43
1097122	NVLCL123B	E43
1097123	NVLCL203D	E43
1097124	NVLCL243D	E43
1097125	NVLCL163D	E43
1097128	NVVCN163D	E43
1097182	NKLCL1205A	E41
1097185	NKLCL1205B	E41
1097186	NKLNL121B	E41
1097187	NKLNL161C	E41
1097189	NKLCL0805V	E41
1097190	NKLCL1005B	E41
1097191	NKLCRF1005B	E42
1097231	NEL122B	C187, D26
1097232	NEL162C	C187, D26
1097233	NEL123B	C187, D26
1097234	NEL163C	C187, D26
1097235	NEL203D	C187, D26
1097236	NEL243D	C187, D26
1097237	NEL163D	C187, D26
1097238	NEL853D	C187, D26
1097239	NEL164C	C187, D26
1097240	NEL204D	C187, D26
1097241	NEL244D	C187, D26
1097242	NEL164D	C187, D26
1097243	NEL206D	C187, D26
1097246	NEL205D	C187, D26
1097247	NEL082V	C187, D26
1097248	NEL102B	C187, D26
1097249	NRL123B	C189
1097250	NRL163C	C189
1097251	NRL203D	C189
1097253	NRL163D	C189
1097254	NSL122B	C182, D27
1097255	NSL162C	C182, D27
1097256	NSL123B	C182, D27
1097257	NSL163C	C182, D27
1097258	NSL203D	C182, D27
1097259	NSL243D	C182, D27
1097260	NSL163D	C182, D27
1097261	NSL123A	C182, D27
1097262	NSL853D	C182, D27
1097263	NSL164C	C184, D28
1097264	NSL204D	C184, D28
1097265	NSL244D	C184, D28
1097266	NSL164D	C184, D28
1097267	NSL243E	C182, D27
1097268	NSL244E	C184, D28
1097269	NSL854D	C184, D28
1097271	NSL204C	C184, D28
1097272	NSL205D	C182, D27
1097273	NSL206D	C184, D28
1097274	NSL246D	C184, D28
1097275	NSL166D	C184, D28
1097278	NSL082V	C182, D27
1097279	NSL102B	C182, D27
1097314	NDPPN164D	E40
1097454	NKLCRF0805D	E42
1097455	NKLCLF0805D	E42
1097508	NKLCR1205A	E41
1097511	NKLCR1205B	E41
1097512	NKLNR121B	E41
1097513	NKLNR161C	E41
1097515	NKLCR0805V	E41
1097516	NKLCR1005B	E41
1097559	NER122B	C187, D26
1097560	NER162C	C187, D26
1097561	NER123B	C187, D26
1097562	NER163C	C187, D26
1097563	NER203D	C187, D26
1097564	NER243D	C187, D26
1097565	NER163D	C187, D26
1097566	NER853D	C187, D26
1097567	NER164C	C187, D26
1097568	NER204D	C187, D26
1097569	NER244D	C187, D26
1097570	NER164D	C187, D26
1097571	NER206D	C187, D26
1097575	NER205D	C187, D26
1097577	NER082V	C187, D26
1097578	NER102B	C187, D26
1097579	NRR123B	C189
1097580	NRR163C	C189
1097581	NRR203D	C189
1097582	NRR243D	C189
1097583	NRR163D	C189
1097584	NSR122B	C182, D27
1097585	NSR162C	C182, D27
1097586	NSR123B	C182, D27
1097587	NSR163C	C182, D27
1097588	NSR203D	C182, D27
1097589	NSR243D	C182, D27
1097590	NSR123A	C182, D27
1097591	NSR853D	C182, D27
1097592	NSR164C	C184, D28
1097593	NSR204D	C184, D28
1097594	NSR244D	C184, D28
1097595	NSR164D	C184, D28
1097596	NSR243E	C182, D27
1097597	NSR244E	C184, D28
1097598	NSR854D	C184, D28
1097599	NSR864E	C184, D28
1097600	NSR204C	C184, D28
1097601	NSR205D	C182, D27
1097602	NSR206D	C184, D28
1097603	NSR246D	C184, D28
1097604	NSR166D	C184, D28
1097605	NSR168D	C184, D28
1097608	NSR082V	C182, D27
1097609	NSR102B	C182, D27
1097644	NSRDH122B	C186, D29
1097645	NSRDH162C	C186, D29
1097646	NSRDH163C	C186, D29
1097647	NSRDH203D	C186, D29
1097648	NSRDH163D	C186, D29
1097649	NSRDH123A	C186, D29
1097650	NSRDH204D	C186, D29
1097673	NSUR124C	D29
1097676	NSUR164D	D29
1097680	NSUL164D	D29
1097681	NSLDH203D	C186, D29
1098328	SCSPR06CA05	B222
1098380	NER12CA2	C196, D41
1098436	MSRNR10CA3	B116
1098465	MSYNR25CA19	B119
1098529	MTUNL12CA3	B142
1098535	MTUNL16CA3	B142
1098536	MTUNR20CA4	B142
1098541	SCLPR06CA05	B220
1098542	SCLPR08CA06	B220
1098543	SCLPR10CA09	B220
1098544	SCLCR12CA12	B198
1098545	SCLCR16CA12	B198
1098548	SCSPL06CA05	B222
1098549	SCSPL08CA06	B222
1098551	SCFPR06CA05	B217
1098552	SCKPR08CA06	B219
1098554	SCGPR08CA06	B218
1098555	SCRPR08CA06	B221
1098556	SCTPR06CA05	B223
1098557	SCTPR08CA06	B223
1098558	STFPL12CA16	B276
1098559	STFPL10CA11	B276
1098561	STFPL08CA09	B276
1098562	STFPR12CA16	B276
1098563	STFPR10CA11	B276
1098565	STFPR08CA09	B276
1098566	STGPR12CA16	B277
1098567	STGPR10CA11	B277
1098570	SSKPR10CA09	B254
1098572	SSSPR10CA09	B255
1098574	SSRPR10CA09	B254
1098624	NEL12CA2	C196, D41
1098626	NEL25CA3	C196, D41
1098691	MSYNL20CA15	B119
1098711	SRGCR08CA06	B245
1098713	SRGCR12CA10	B245
1098719	SSKCR12CA12	B249
1098720	SSKCR16CA12	B249
1098721	SSKCL12CA12	B249
1098723	SSRCR12CA12	B250
1098725	SSRCL12CA12	B250
1098728	SDUPR10CA07	B237
1098730	SCLPL08CA06	B220
1098731	SCLPL10CA09	B220
1098732	SCLCL12CA12	B198
1098736	SCTPL08CA06	B223
1098737	SSSCR12CA12	B251
1098739	SSSCL12CA12	B251
1098741	STTPR12CA16	B278
1098742	STTPR10CA11	B278
1098744	STTPR08CA09	B278
1098749	STWPR12CA16	B279
1098750	STWPR10CA11	B279
1098757	SDJPR10CA07	B236
1098758	SDJPL10CA07	B236
1098760	STGPL10CA11	B277
1098762	STGPL08CA09	B277
1098763	SCKPL08CA06	B219
1098764	SSSPL10CA09	B255
1098766	SCFPL08CA06	B217
1098786	NASR1616K3Q	C185
1098788	NASR1010M2Q	C185
1098789	NASR1212M2Q	C185
1098790	NSR1010E2	C183
1098791	NSR1212F2	C183
1098792	NSR1616H2	C183
1098793	NSR2020K2	C183
1098794	NSR2525M2	C183
1098795	NSR2020K3	C183
1098796	NSR2525M3	C183
1098797	NSR3225P3	C183
1098798	NSR3232P3	C183
1098799	NSR2525M4	C183
1098800	NSR3225P4	C183
1098801	NSR3232P4	C183
1098803	NER1616H2	C188
1098804	NER2020K2	C188
1098805	NER2525M2	C188
1098806	NER2525M3	C188
1098807	NER3225P3	C188
1098808	NER2525M4	C188
1098809	NER3225P4	C188
1098810	NER3232P4	C188
1098812	NRR2020K3	C189
1098813	NRR2525M3	C189
1098814	NRR3225P3	C189
1098857	NASL1616K3Q	C185
1098859	NASL1010M2Q	C185
1098860	NASL1212M2Q	C185
1098861	NSL1010E2	C183
1098862	NSL1212F2	C183
1098863	NSL1616H2	C183
1098864	NSL2020K2	C183
1098865	NSL2525M2	C183
1098866	NSL2020K3	C183
1098867	NSL2525M3	C183
1098868	NSL3225P3	C183
1098869	NSL3232P3	C183
1098870	NSL2525M4	C183
1098871	NSL3225P4	C183
1098872	NSL3232P4	C183
1098874	NEL1616H2	C188
1098875	NEL2020K2	C188
1098876	NEL2525M2	C188
1098877	NEL2525M3	C188
1098878	NEL3225P3	C188
1098879	NEL2525M4	C188
1098880	NEL3225P4	C188
1098881	NEL3232P4	C188
1098883	NRL2020K3	C189
1098884	NRL2525M3	C189
1098885	NRL3225P3	C189
1098943	A10KNNTOR1	C190
1098944	A12MNNTOR1	C190
1098945	A12MNNTOR2	C192
1098946	A12MNNTOL2	C192
1098947	A16MNNTOR2	C192
1098948	A16MNNTOL2	C192
1098949	A20QNNTOR2	C192
1098950	A20QNNTOL2	C192
1098951	A25RNNTOR2	C192
1098952	A25RNNTOL2	C192
1098953	A25RNNTOR3	C192
1098954	A25RNNTOL3	C192
1098955	A32SNNTOR3	C192
1098956	A32SNNTOL3	C192
1098957	A40TNNTOR3	C192
1098958	A40TNNTOL3	C192
1099001	A40TNNTOR4	C192
1099002	A40TNNTOL4	C192
1099003	A50UNNTOR4	C192
1099162	KRCSCFPR061A	K86
1099163	KRCSCFPR062A	K86
1099164	KRCSCFPR063A	K86
1099165	KRCSCFPR061B	K86
1099166	KRCSCFPR062B	K86
1099167	KRCSCFPR063B	K86
1099168	KRCSCFPR061C	K86
1099169	KRCSCFPR062C	K86
1099170	KRCSCFPR063C	K86
1099171	KRCSCFPR061D	K86
1099172	KRCSCFPR062D	K86
1099173	KRCSCFPR063D	K86
1099174	KRCSCFPR061E	K89, K108–109
1099175	KRCSCFPR062E	K89, K108–109
1099176	KRCSCFPR063E	K89, K108–109
1099177	KRCSCFPR061F	K89, K110–114
1099178	KRCSCFPR062F	K89, K110–114
1099179	KRCSCFPR063F	K89, K110–114
1099379	CM180	E42
1099380	CM181	E42

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1099381	CM182	C185, D25
1099382	CM183	C185, D25
1099433	SM427 K9	D38
1099435	SM434 K9	B374
1099437	SM437 K9	B170, B374, B393
1099445	SKSN566K K9	B115–117, B119
1099450	ITSN333 K9	B135–136
1099451	ICSN332 K9	B59, B63
1099452	IDSN322 K9	B87, B89–90, B92, B96
1099453	IDSN543 K9	B87
1099454	IVSN433 K9	B152–155
1099461	SM416 K9	C184, D28
1099463	SM419 K9	C184, D28
1099469	ITSN443 K9	B131
1099614	MS1933	B214–215, B217, B220, B222–223, B271–272
1099615	MS1939	B197, B212–215, B287, B289
1099640	MS1034	C190
1099644	MS1157	B198, B249–251
1099645	MS1160	C34–45, C52–57, C122–129, C134
1099646	MS1200	C183, C185, C188, C192–193, D30
1099649	KLM33	B72, B115–119
1099650	KLM54	B115–117, B119
1099651	FT10	K42
1099661	KL68L	B134, B137
1099675	MS-1896	K85
1099676	KT30	V121–123, V132
1100493	MCLNR12CA4	B74
1102784	E12STFPR3 KWH	B272
1104600	TRAOR242E	E70
1105612	191.924	H122, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J84–85, J114, V156
1106230	LSASR83	D71
1106359	TRAOL2415E	E70
1106668	MS1970	C34–41, C46–51, C122–126, C129–133
1106715	A2732SVSPRW4	B285
1107188	HSK100AKR50085M	K92
1112602	SNHX1102T KC725M	U14
1112603	SNHX1103T KC725M	U14
1112604	SNHX1203T KC725M	U14
1112605	SNHX1204T KC725M	U14
1112606	SNHX12045T KC725M	U14
1112607	SNHX1205T KC725M	U14
1113180	NBD2R K313	C177
1113182	NBD3R K313	C177
1113183	NBD3L K313	C177
1113194	NB2L K313	C176
1113195	NB3L K313	C176
1113196	NB4L K313	C176
1113197	NB2R K313	C176
1113198	NB3R K313	C176
1113199	NB4R K313	C176
1113205	NT2L K313	D17
1113208	NT2R K313	D17
1113209	NT3R K313	D17
1113216	NR3031R K313	C172
1113217	NR3047R K313	C172
1113218	NR3062R K313	C172
1113219	NR3078R K313	C172
1113221	NR4094R K313	C172
1113224	NR3031L K313	C172
1113225	NR3047L K313	C172
1113226	NR3062L K313	C172
1113231	NR3094L K313	C172
1113233	NG2031R K313	C170
1113234	NG2041R K313	C170
1113237	NG2062R K313	C170
1113238	NG2094R K313	C170
1113240	NG2031L K313	C170
1113244	NG2062L K313	C170
1113245	NG2094L K313	C170
1113248	NG3125R K313	C170
1113252	NG3189R K313	C170
1113253	NG3047R K313	C170
1113254	NG3062R K313	C170
1113257	NG3094R K313	C170
1113261	NG3125L K313	C171
1113265	NG3047L K313	C170
1113266	NG3062L K313	C170
1113268	NG3094L K313	C170
1113269	NG4125R K313	C170
1113270	NG4189R K313	C170
1113272	NG4125L K313	C171
1113276	NF3125R K313	C175
1113277	NF3125L K313	C175
1113477	NJF3009R18 K68	D15
1113486	NA3L4 K68	D11
1113499	NTF2L K68	D21
1113500	NTF3L K68	D21
1113501	NTF2R K68	D21
1113502	NTF3R K68	D21
1113504	NT2L K68	D17
1113505	NT3L K68	D17
1113506	NT4L K68	D17
1113507	NT2R K68	D17
1113508	NT3R K68	D17
1113509	NT4R K68	D17
1113510	NTP2L K68	D22
1113511	NTP3L K68	D22
1113513	NTP2R K68	D22
1113514	NTP3R K68	D22
1113559	NJ3010R16 K68	D15
1114462	NGD3189R K313	C171
1114463	NGD4250R K313	C171
1114464	NGD4250L K313	C171
1114465	NGD3189L K313	C171
1114470	NRP3047R K313	C169
1114483	NGD3125RK K313	C165
1114484	NGD3062RK K313	C165
1114486	NGD3094RK K313	C165
1114487	NGD3125LK K313	C165
1114490	NGD3094LK K313	C165
1114624	NTK2R K68	D21
1114625	NTK3R K68	D21
1114626	NTK2L K68	D21
1114627	NTK3L K68	D21
1114680	NJP3014R12 K68	D16
1116320	TRAOL1615D	E70
1116889	CKM34	B72–74, B94–95, B115–119, B140–142, B174–176, B186–187, B394–398
1120731	AFB31115SCFCR09	K134
1121036	EB43040450	K143
1121195	112.244	E16
1121205	552.232	B383–384
1121232	552.221	B383, B391
1121302	552.230	B391
1121703	EB33040350	K143
1121711	BT50BT13088	K142
1121716	880.252.550	K137–138
1122168	PKG1565	K141–143
1122180	191.726	H122–123, J49, J52–53
1122185	CV50BT13069	K142
1122328	192.759	J92
1122397	CPGM2151 K313	B205
1123620	TRAOR202D	E70
1124019	26X2R043B25STN16D	W43
1124104	MS1163	C65–73, C143–151
1124195	SPMT3252LF K68	B252
1124300	TNMA432 K68	B122
1124975	PKG0002	K145
1125085	EB18030200	K143
1125092	RS1606	K129
1125110	AFB09075SCFCR06	K134
1125440	TNMA332 K68	B122
1125685	NPL13M10N K68	E35
1126021	170.270	H72, H81, H85–86, H88
1126032	170.271	H84, H88
1126040	170.272	H72, H81, H85–86, H88
1126049	170.273	H88
1126066	170.274	H72, H81, H85–86, H88
1126072	170.275	H88
1126079	170.276	H72, H81, H85–86, H88
1126088	170.277	H88
1126361	FT6	K79, T24
1126830	EB28035300	K143
1126838	AFB27115SCFCR09	K134
1127019	MS1162	C52–57, C65–73, C143–151, S94, S98, S100, V87–88, V91
1127184	PKG7001	K128
1127271	AFB34115SCFCR09	K134
1127907	B510S08000 AS3	J86
1127915	B510S25000 AS3	J86
1127923	B510S30000 AS3	J86
1128324	AFB24115SCFCR09	K134
1128691	NPR13M10N K68	E35
1129375	5.34050-028450	J88
1129376	5.34050032350	J88
1129377	5.34050-032500	J88
1129378	5.34050-040450	J88
1129379	5.34050-040600	J88
1129380	5.34050-048450	J88
1129381	5.34050-048600	J88
1129382	5.34050-058450	J88
1129383	5.34050-058600	J88
1130286	364.010	H72–73, H75, H77, H79, H81–82, H84–86, H122
1130295	364.011	H72–75, H77–79, H81–82, H84–86, H122
1130302	11X1R020B20STN11N	W40
1130303	364.012	H72, H74–76, H78–86, H122–123
1130313	364.013	H72, H74, H76, H78, H80–81, H83–86, H123
1130686	17X1R022B16STN16N	W40
1130740	20X1R043B20STN16N	W40
1130837	22X1R025B25STN16L	W41
1130969	30X1R052B25STN27N	W40
1130977	30X1R092B25STN27L	W41
1131036	B510S08000 A30	J86
1131051	B510S15000 A30	J86
1131060	B510S20000 A30	J86
1131069	37X1R058B32STN27N	W40
1131070	B510S25000 A30	J86
1131086	37X1R098B32STN27L	W41
1131090	B510S30000 A30	J86
1131111	KM40FBH01660	K128
1131118	42X2R045B32STN27D	W43
1131119	B510S10000 AS3	J86
1131128	B510S15000 AS3	J86
1131134	B510S20000 AS3	J86
1131459	MS1488	D31, D33, D39–40
1131479	191.282	K76
1131602	191.375	J49, J52
1131646	191.405	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
1131653	191.406	B72–74, B94, B115–119, B140–142, B174, B186–187, B198, B245, B249–251, B276–279, B394, B397–398, C196, D41
1131658	191.407	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
1131977	SN2TPKG	W40, W42–43
1132036	KM50FBH01670	K128
1132063	191.698	H122, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J84–85
1132119	191.725	I14–15, V155–156
1132130	191.727	J87–90
1132138	191.728	J87, J89–92
1132154	191.729	J91–92
1132436	191.848	J49–50, J52–53, J84–85, V44–47
1132523	191.916	C42–45, H122–123, J25, J27, J29, J31, J33, J35, J37, J39, J85, J114
1132599	ISSN846 K9	B111–112
1132616	9X1R012B12STN10M	W40
1132781	15X1R022B16STN16T	W42
1132857	EB23035250	K143
1132931	192.057	I27
1132990	DCMT2151LF K313	B225
1133075	192.111	J84–85
1133083	192.112	J84–85
1133110	192.126	J92
1133202	PKG3242	K134, K136
1133229	192.156	J87–90
1133236	192.157	J87–91
1133280	EB13030150	K143
1133349	SN3TPKG	D74–75, W40–43
1133581	DV50BT13069	K142
1133669	R31FBHS06	K140
1133883	AFB13085SCFCR06	K134
1133894	AFB17100SCFCR06	K134
1133903	PKG2025	K134, K136
1133914	RS1608	K129
1134129	840.142.550	K122–123
1134246	192.416	J10–15, J75
1134271	192.419	J87–90
1134279	192.420	J87–90
1134285	SNMA432 K68	B100
1134298	192.421	J87–91
1134307	192.422	J87–90
1134316	192.423	J87–91
1134324	192.424	J87, J89–92
1134333	192.425	J87, J89–92
1134342	192.426	J91–92
1134353	5.34032-028115	J88
1134361	5.34032-028200	J88
1134385	192.432	H122, I14–15, J10–15, J25, J27, J29, J31, J33, J35, J37, J39, J75, J84–85, J114
1134388	5.34032-032125	J88
1134393	192.433	J25, J27, J29, J31, J33, J35, J37, J39
1134415	5.34050-028300	J88
1134425	5.34050-032200	J88
1134434	5.34050-040148	J88
1134440	5.34050-040300	J88
1134457	5.34050-048168	J88
1134464	5.34050-048300	J88
1134472	5.34050-058186	J88
1134482	5.34050-058300	J88
1134503	5.34128R028150	J87
1134512	5.34132R032100	J87
1134523	5.34132R032200	J87
1134530	5.34140R040200	J87
1134547	5.34148R048200	J87
1134555	5.34158R058300	J87
1134564	5.34170R070186	J87
1134570	5.34170R070300	J87
1134581	5.34170R070500	J87
1134588	5.34180R080204	J87
1134597	5.34180R080300	J87
1134609	5.36050154040	J91
1134614	5.34180R080500	J87
1134624	5.34240R032100	J87
1134631	5.34248R040100	J87
1134639	5.34258R048100	J87
1134650	5.34280R040080	J87
1134657	5.34280R058080	J87
1134666	5.34280R070150	J87
1134674	5.34350-090100	J92
1134725	192.530	U13
1134879	193.113	I27
1134964	192.592	J75, J84
1134971	192.593	J84–85
1135110	193.114	I27
1135177	NPL5M05 K68	E36
1135184	NPR5M02 K68	E36
1135192	NPL5M02 K68	E36
1135217	NPR13M05N K68	E35
1135224	NPR5M05 K68	E36
1135346	PKG156502	K143–144
1135358	PKG7994	K145
1135369	R40FBHS06	K140
1135375	EBUFF0975	K145

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1135387	192.718	I14–15
1135404	192.720	I14–15
1135473	192.730	J92
1135481	192.731	J92
1135617	840.142.720	K122–123
1135623	840.142.940	K122–123
1135642	RS1610	K129
1135662	RS1612	K129
1135739	NPL13M05N K68	E35
1135802	KM63BT13065	K141
1135826	19X1R023B20STN16T	W42
1135984	170.008	J90–92
1136105	192.888	I14–15
1136108	112.403	E15–16
1136114	192.889	I14–15
1136116	112.404	E15–17, E20, E22
1136144	112.505	E16
1136174	114.114	E17, E20, E22
1136242	192.902	J75, J84–85
1136247	118.204	E18–19
1136251	192.903	J84–85
1136295	118.314	E18–19
1136414	192.932	V58
1136436	193.115	I27
1136445	193.116	I27
1136625	121.612	E15–16, E18, S64, S67
1136633	121.616	E15–17, E19–20, E22, E55, E61, S70
1136675	121.808	K48–50
1136703	121.812	E17, K48–50
1136713	121.816	E17–23
1136743	121.825	E19, E21, E23
1136819	199.123	H87
1136858	5.36050-154050	J91
1136949	360.510	I25–26
1136955	360.511	I25–26
1137111	125.625	K48–50
1137209	125.820	J84–85
1137229	125.830	J84–85
1137405	128.508	H87
1137412	128.510	H87
1137420	128.610	J75
1137479	R51FBHS06	K140
1137487	R24FBHS06	K140
1137505	R67FBHS09	K140
1137520	129.612	J84–85
1137528	129.616	J84–85
1137713	360.550	I25–27
1137720	360.551	H87, I25–27
1137835	AFB21110SCFCR09	K134
1137910	STCM25	V148–149
1137929	STN10100ISOI KC620M	W45
1137965	STN1611BSW KC610M	W46
1138019	STN1614BSW KC610M	W46
1138033	STN16150ISOE KC610M	W45
1138041	STN16150ISOE KC620M	W45
1138136	STN27200ISOE KC610M	W45
1138273	170.000	K76
1138297	170.002	K51
1138307	170.003	E15–20, E22, E55, E61, I14, K51, S64, S67, S70, S121–123
1138315	170.004	E17–23, J90, K48–51
1138323	170.005	I14, J91, K48–50
1138331	170.006	J90–91, K48–50
1138413	170.023	J10–15, J25, J27, J29, J31, J33, J35, J37, J39
1138430	170.024	I25–27, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J114
1138438	170.025	I14–15, I25–27, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J114, S4–5, S8–10, S14, S17, S20, V44–47, V51–54, V62
1138446	170.026	J49, J52–53, V58
1138455	170.027	J10–15
1138465	170.028	I14–15, J10–15, J25, J27, J29, J31, J33, J35, J37, J39, J114
1138748	170.135	K51
1138755	170.136	K51
1139210	190.076	I27
1139321	190.116	J75
1139429	190.195	I27
1139563	360.513	I25–26
1139601	B510S10000 A30	J86
1139637	190.371	I27
1140602	EB38040400	K143
1146699	CKM35	B74, B115, B140–142, B186, B397
1147002	ICSN846 K9	B63–64
1147269	MS1454	B203, K79
1150356	460.716	J92
1150624	5.34280R048080	J87
1150802	A20NVJCR3	E47
1151411	MS1276	J91
1152199	SPG422 K68	B171
1152584	E08KCTFPR2 KWH	B184, B392
1152586	E08RCTFPR2 KWH	B184, B392
1152588	E10MCTFPR2 KWH	B184, B392
1152590	E10SCTFPR2 KWH	B184, B392
1152592	E12QCTFPR3 KWH	B184, B392
1152593	E12QCTFPL3 KWH	B184, B392
1152594	E12SCTFPR3 KWH	B184, B392
1152595	E12SCTFPL3 KWH	B184, B392
1152598	E16TCTFPR3 KWH	B184, B392
1152600	E08NKLCR05 KWH	E45
1152601	E08NKLCL05 KWH	E45
1152602	E10NKLCR05 KWH	E45
1152603	E10NKLCL05 KWH	E45
1152604	E12NKLCR05 KWH	E45
1152605	E12NKLCL05 KWH	E45
1152606	E10NER2 KWH	C193, D36
1152607	E10NEL2 KWH	C193, D36
1152608	E12NER2 KWH	C193, D36
1152609	E12NEL2 KWH	C193, D36
1152610	E16NER3 KWH	C193, D36
1152611	E16NEL3 KWH	C193, D36
1152668	E12CTLNR2 KWH	B392
1152676	E06LSER2 KWH	D75
1152677	E06LSEL2 KWH	D75
1152678	E08LSER2 KWH	D75
1152679	E08LSEL2 KWH	D75
1152680	E10LSER3 KWH	D75
1152681	E10LSEL3 KWH	D75
1152682	E12LSER3 KWH	D75
1152683	E12LSEL3 KWH	D75
1152684	E16LSER3 KWH	D75
1152686	E16LSER4 KWH	D75
1152688	E08NER2 KWH	C193, D36
1152689	E08NEL2 KWH	C193, D36
1152690	E16NKLNR1 KWH	E45
1152692	E12SCLPR3AP5 KWH	B216
1152693	E16SCLPR3AP5 KWH	B216
1152694	E12SCLPL3AP5 KWH	B216
1152695	E16SCLPL3AP5 KWH	B216
1152698	E08NELR05 KWH	E44
1152704	E12STLPR3 KWH	B275
1152705	E12STLPL3 KWH	B275
1152706	E16STLPR3 KWH	B275
1152707	E05STFPR18	B272
1152708	E05STFPL18 KWH	B272
1152709	E06STFPR2 KWH	B272
1152710	E06STFPL2 KWH	B272
1152711	E08STFPR2 KWH	B272
1152712	E08STFPL2 KWH	B272
1152713	E10STFPR2 KWH	B272
1152714	E10STFPL2 KWH	B272
1152715	E12STFPL3 KWH	B272
1152716	E16STFPR3 KWH	B272
1152722	E05KSCLPR18 KWH	B214
1152723	E05KSCLPL18 KWH	B214
1152724	E06SCLPR2 KWH	B214
1152725	E06SCLPL2 KWH	B214
1152726	E08SCLPR2 KWH	B214
1152727	E08SCLPL2 KWH	B214
1152728	E10SCLPR2 KWH	B214
1152729	E10SCLPL2 KWH	B214
1152730	E12SCLPR2 KWH	B214
1152731	E12SCLPL2 KWH	B214
1152732	E10SCLPR3 KWH	B214
1152733	E10SCLPL3 KWH	B214
1152734	E12SCLPR3 KWH	B214
1152735	E12SCLPL3 KWH	B214
1152736	E16SCLPR3 KWH	B214
1152737	E16SCLPL3 KWH	B214
1152738	E06SDUPR2 KWH	B234
1152739	E06SDUPL2 KWH	B234
1152740	E08SDUPR2 KWH	B234
1152741	E08SDUPL2 KWH	B234
1152742	E10SDUPR2 KWH	B234
1152743	E10SDUPL2 KWH	B234
1152744	E12SDUPR2 KWH	B234
1152746	E12SSDUPR3 KWH	B234
1152747	E12SSDUPL3 KWH	B234
1152748	E16TSDUPR3 KWH	B234
1152749	E16TSDUPL3 KWH	B234
1152750	E03HSWLPR15 KWH	B290
1152752	E04HSWLPR15 KWH	B290
1152753	E04HSWLPL15 KWH	B290
1152754	E05SWLPR15 KWH	B290
1152755	E05SWLPL15 KWH	B290
1152756	E06SWLPR2 KWH	B290
1152757	E06SWLPL2 KWH	B290
1152758	E08SWLPR2 KWH	B290
1152759	E08SWLPL2 KWH	B290
1152760	E10SWLPR3 KWH	B290
1152761	E10SWLPL3 KWH	B290
1152762	E12SWLPR3 KWH	B290
1152764	E16SWLPR3 KWH	B290
1152766	E16STLPL3 KWH	B275
1152767	E06STLPR2 KWH	B275
1152768	E06STLPL2 KWH	B275
1152769	E08STLPR2 KWH	B275
1152770	E08STLPL2 KWH	B275
1152771	E10STLPR2 KWH	B275
1152772	E10STLPL2 KWH	B275
1152777	C6420W KWH	B408
1152778	C6424W KWH	B408
1152779	C6428W KWH	B408
1152780	C6432W KWH	B408
1152782	C6440W KWH	B408
1152783	C11816W KWH	B407
1152784	C11820W KWH	B407
1152787	C11932W KWH	B409
1152789	C11940W KWH	B409
1152790	C6420 KWH	B408
1152834	E16RNNTOR2 KWH	C193
1152835	E16RNNTOL2 KWH	C193
1152836	E20SNNTOR2 KWH	C193
1153403	HSK63AKR32075M	K92
1153604	HSK63AKR50080M	K92
1153606	HSK100AKR32075M	K92
1153612	HSK100AKR80090M	K92
1156428	SNMA643 K68	B100
1156449	4111593VRS	B168, B386
1159961	CNMG432 K313	B47
1159964	CNMG432P K313	B52
1159971	SNMG432 K313	B100
1159980	VNMG332P K313	B147
1160004	RNMA43 K68	B97
1160005	RNMA54 K68	B97
1160013	CNMA432 K68	B47
1160018	CNMG431 K68	B47
1160019	CNMG432 K68	B47
1160020	CNMG433 K68	B47
1160025	CNMG643 K68	B47
1160027	DNMG432 K68	B78
1160039	SNMG433 K68	B100
1160060	TNMG433 K68	B122
1160068	VNMG332 K68	B145
1160069	VNMG333 K68	B145
1160070	VNMG432 K68	B145
1160071	VNMG433 K68	B145
1160077	VNGA331 K68	B144
1160078	VNGA332 K68	B144
1161093	VNGG332LF K313	B144
1161095	CNMP431 K313	B56
1161096	CNMP432 K313	B56
1161098	CNMP643 K313	B56
1161105	VNGP331K K313	B145
1161106	VNGP332K K313	B145
1161107	SNMP643 K313	B108
1161108	TNMP331 K313	B129
1161109	TNMP332 K313	B129
1161112	CNGP431 K313	B46
1161113	CNGP432 K313	B46
1161114	CNGP433 K313	B46
1161116	CNGP543K K313	B47
1161118	DNGP431 K313	B77
1161119	DNGP432 K313	B77
1161121	DNGP441 K313	B77
1161124	VNMP331 K313	B149
1161125	VNMP332 K313	B149
1161127	VNGP432 K313	B144
1161146	CNMP431 K68	B56
1161147	CNMP432 K68	B56
1161148	CNMP433 K68	B56
1161155	CNMS432 K68	B57
1161157	CNMS642 K68	B57
1161158	CNMS643 K68	B57
1161159	DNMP431 K68	B85
1161160	DNMP432 K68	B85
1161161	DNMP433 K68	B85
1161168	DNMS432 K68	B86
1161172	SNMP643 K68	B108
1161173	SNMS432 K68	B108
1161175	SNMS643 K68	B108
1161182	TNMP434 K68	B129
1161186	CNGP431 K68	B46
1161187	CNGP432 K68	B46
1161191	TNMS331 K68	B130
1161192	TNMS332 K68	B130
1161194	TNMS432 K68	B130
1161199	VNMP331 K68	B149
1161200	VNMP332 K68	B149
1161201	VNMP331K K68	B149
1161202	VNMP332K K68	B149
1161203	VNMS331 K68	B149
1161204	VNMS332 K68	B149
1162181	CCGT21505HP K313	B189
1162182	CCGT2151HP K313	B189
1162183	CCGT32505HP K313	B189
1162184	CCGT3251HP K313	B189
1162185	CCGT431HP K313	B189
1162186	CCGT432HP K313	B189
1162187	CCMT2151LF K313	B191
1162189	CCMT32505LF K313	B191
1162190	CCMT3251LF K313	B191
1162191	CCMT3252LF K313	B191
1162192	CDHB120605 K313	B199
1162194	CPGT32505HP K313	B205
1162195	CPGT3251HP K313	B205
1162199	CPMT2151LF K313	B207
1162200	CPMT2152LF K313	B207
1162204	DCGT21505HP K313	B224
1162205	DCGT2151HP K313	B224
1162206	DCGT32505HP K313	B224
1162207	DCGT3251HP K313	B224
1162208	DCGT3252HP K313	B224
1162209	DCMT21505LF K313	B225
1162211	DCMT3251LF K313	B225
1162212	DCMT3252LF K313	B225
1162216	DPGT3251HP K313	B231
1162223	TPMT2151LF K313	B268
1162225	VBGT221LF K313	B280
1162226	VBGT3305LF K313	B280
1162228	VBGT331HP K313	B280
1162229	VBGT332HP K313	B280
1162230	VBMT221LF K313	B281
1162233	VBMT3305LF K313	B281
1162234	VBMT331LF K313	B281
1162235	VBMT332LF K313	B281
1162241	RCGT0803M0HP K313	B238
1162242	RCGT10T3M0HP K313	B238
1162243	RCGT1204M0HP K313	B238
1162245	RCMT325 K313	B240
1162246	RCMT0602M0 K313	B240
1162247	RCMT0803M0 K313	B240
1162249	RCMT1204M0 K313	B240
1162250	RCMT1605M0 K313	B240
1162251	RCMT2006M0 K313	B240
1162254	TCGT2151HP K313	B256
1162255	TCGT3251HP K313	B256
1162256	TCGT3252HP K313	B256
1162272	CPMT2151LF K68	B207
1162274	CPMT3252LF K68	B207

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1162288	VBGT2205LF K68	B280
1162289	VBGT331HP K68	B280
1162296	RCGT0803M0HP K68	B238
1162297	RCMT0602M0 K68	B240
1162586	SPU422 K68	B171
1162732	TPU221 K68	B178
1162733	TPU222 K68	B178
1162734	TPU321 K68	B178
1162735	TPU322 K68	B178
1162737	TPU432 K68	B178
1162738	TPU433 K68	B178
1163009	CPGM3251 K313	B205
1163010	CPGM3252 K313	B205
1163033	TD6P K68	B266
1163051	CPGM21505 K68	B205
1163052	CPGM2151 K68	B205
1163054	CPGM32505 K68	B205
1163055	CPGM3251 K68	B205
1163056	CPGM3252 K68	B205
1163276	NPR508 K313	E35
1163277	NPL508 K313	E35
1163280	NPR505 K313	E35
1163281	NPR51 K313	E35
1163283	NPL505 K313	E35
1163284	NPL51 K313	E35
1163285	NPL52 K313	E35
1163286	VPGR331 K313	B369, E38
1163287	VPGR332 K313	B369, E38
1163311	NPR505 K68	E35
1163312	NPR51 K68	E35
1163313	NPR52 K68	E35
1163314	NPL505 K68	E35
1163315	NPL51 K68	E35
1163316	NPL52 K68	E35
1163317	NPR1305 K68	E34
1163323	NPL132F K68	E34
1163325	VPGR3305 K68	E38
1163326	VPGR331 K68	E38
1163327	VPGR332 K68	E38
1163328	VPGR333 K68	B369, E38
1163336	NPGR51R K68	E33
1163338	NPGR51L K68	E33
1163341	DPGR432 K68	E32
1163532	RCMK23 K313	E69
1163533	RCMK35 K313	E69
1163535	RCMK152 K313	E69
1164694	SPU421 K68	B171
1173988	HSK100AKR63100M	K92
1175211	3.77000R028V	J84
1175212	3.77000R031V	J84
1175225	193.281	J10–15, J25, J27, J33, J35
1176134	B105A08200 K10	G25
1176636	TRAOL202D	E70
1176804	STN22300ISOIC KC610M	W45
1176808	STN27350ISOIC KC610M	W45
1176964	15X1R020B16STN16C	W42
1176967	25X1R040B25STN27C	W42
1176970	10X1R015B20STN11T	W42
1178986	35X1R055B32STNB38N	W41
1180107	RNMG64 K313	B97
1180737	TPG433T0820 KY3500	B320
1180917	SDET43PDSR8GB KC725M	T116, T123, U39
1181980	DNGA442T0820 KY3500	B314
1181982	SNGA643T0820 KY3500	B314
1181984	TNGA332T0820 KY3500	B314
1181985	TNGA333T0820 KY3500	B314
1181986	WNGA432T0820 KY3500	B315
1181987	WNGA433T0820 KY3500	B315
1181988	WNGA434T0820 KY3500	B315
1181989	CNGA432T0820 KY3500	B313
1181990	CNGA433T0820 KY3500	B313
1181991	CNGA434T0820 KY3500	B313
1181992	CNGA543T0820 KY3500	B313
1181993	CNGA544T0820 KY3500	B313
1181994	CNGA643T0820 KY3500	B313
1181995	CNGA644T0820 KY3500	B313
1181996	SNGA432T0820 KY3500	B314
1181997	SNGA433T0820 KY3500	B314
1181998	SNGA434T0820 KY3500	B314
1181999	SNGA543T KY3500	B314
1182000	SNGA544T KY3500	B314
1182002	DNGA432T0820 KY3500	B314
1182003	DNGA433T0820 KY3500	B314
1182004	DNGA434T0820 KY3500	B314
1182005	DNGA443T0820 KY3500	B314
1182006	VNGA332T0820 KY3500	B315
1182008	TNGA334T0820 KY3500	B314
1182363	NT1L K68	D23
1182370	NTB3RB K68	D18
1182373	NTB3LB K68	D18
1182375	NTB2RA K68	D17
1182379	NTB3LA K68	D17
1182853	SPG422 K313	B171
1182856	SPG633 K313	B171
1182877	SNG322T0820 KY3500	B318
1182878	SNG432T0820 KY3500	B318
1182879	SNG433T0820 KY3500	B318
1182880	SNG434T0820 KY3500	B318
1182882	SNG438T0820 KY3500	B318
1182884	SNG454T0820 KY3500	B318
1182886	SNG634T0820 KY3500	B318
1182921	SPG321 K68	B171
1182922	SPG322 K68	B171
1182925	SPG421 K68	B171
1182926	SPG423 K68	B171
1182929	SPG632 K68	B171
1183203	TPG221 K313	B177
1183205	TPG321 K313	B177
1183206	TPG322 K313	B177
1183207	TPG323 K313	B177
1183209	TPG3205 K313	B177
1183210	TPG431 K313	B177
1183211	TPG432 K313	B177
1183232	TNG332T0820 KY3500	B319
1183236	TNG434T0820 KY3500	B319
1183237	TPG322T0820 KY3500	B320
1183238	TPG323T0820 KY3500	B320
1183239	TPG432T0820 KY3500	B320
1183254	TPG221 K68	B177
1183255	TPG222 K68	B177
1183257	TPG321 K68	B177
1183258	TPG322 K68	B177
1183260	TPG324 K68	B177
1183262	TPG3205 K68	B177
1183264	TPG431 K68	B177
1183265	TPG432 K68	B177
1183266	TPG433 K68	B177
1183267	TPG434 K68	B177
1183421	CPG421 K313	B164
1183422	CPG422 K313	B164
1183435	CNG432T0820 KY3500	B316
1183436	CNG433T0820 KY3500	B316
1183437	CNG434T0820 KY3500	B316
1183439	CNG453T0820 KY3500	B316
1183457	CPG421 K68	B164
1183458	CPG422 K68	B164
1183542	RPG42 K313	B166
1183544	RCGV45 K313	B166
1183553	DNGX120708T02020 KY3500	B317
1183554	DNGX120712T02020 KY3500	B317
1183555	DNGX120716T02020 KY3500	B317
1183557	SNGX453T0820 KY3500	B318
1183558	SNGX454T0820 KY3500	B318
1183560	RNG65T0820 KY3500	B318
1183562	DNGX452T0820 KY3500	B317
1183563	DNGX453T0820 KY3500	B317
1183564	DNGX454T0820 KY3500	B317
1183567	ENGX454T0820 KY3500	B317
1183572	SNGX556T0820 KY3500	B318
1183574	RNG43T0820 KY3500	B318
1183575	RNG45T0820 KY3500	B318
1184088	LNEU1245R08 KC725M	U19
1184089	LNEU1245R16 KC725M	U19
1184090	LNEU1245R32 KC725M	U19
1184091	LNEU1250R08 KC725M	U19
1184092	LNEU1255R08 KC725M	U19
1184093	LNEU1255R16 KC725M	U19
1184094	LNEU1255R32 KC725M	U19
1184097	LNEU1245R04 KC725M	U19
1184098	LNEU1250R04 KC725M	U19
1184099	LNEU1255R04 KC725M	U19
1184100	LNEU1260R04 KC725M	U19
1184103	LNEQ1245R04 KC725M	U20
1184105	LNEQ1255R04 KC725M	U20
1184106	LNEQ1260R04 KC725M	U20
1185809	S447	T64
1185937	DFT370R4WD40M	J50
1185959	DFT410R4WD40M	J50
1186677	SNGX554T0820 KY3500	B318
1190977	1.78025R300	E19
1191046	3.37052R320	I14
1191047	3.37052R820	I14
1191048	3.37061R320	I14
1191049	3.37061R820	I14
1191050	3.37071R320	I14
1191051	3.37071R820	I14
1191052	3.37091R320	I14
1191053	3.37091R820	I14
1191054	3.37100R720	I26
1191055	3.37101R832	I14
1191056	3.37111R332	I14
1191057	3.37111R832	I14
1191058	3.37120R732	I26
1191059	3.37121R832	I14
1191060	3.37131R332	I14
1191061	3.37140R732	I26
1191062	3.37141R832	I14
1191063	3.37151R332	I14
1191072	3.42805R001 CS5	I30
1191073	3.42807R001 CS5	I30
1191074	CBTF200R2WD20N3M	J114
1191075	CBTF220R2WD20N3M	J114
1191076	CBTF260R2WD20N2M	J114
1191103	DFT260R4WD32M	J50
1191130	3.76055R032V	J82–83
1191131	3.76063R032V	J82–83
1191132	3.76073R040V	J82–83
1191133	3.76084R048V	J82–83
1191134	3.76102R058V	J82–83
1191135	3.77000R024V	J84
1191136	3.77000R025V	J84
1191137	3.77000R026V	J84
1191138	3.77000R027V	J84
1191139	3.77000R029V	J84
1191140	3.77000R038V	J84
1191141	3.77000R039V	J84
1191142	3.77000R081V	J84
1191143	3.77000R082V	J84
1191300	SPHX15T6ZCSRGP K110M	S71
1191346	SNHX1102PZTNGP K110M	U15
1191347	SNHX1203PZTNGP K110M	U15
1191395	9X1R017B20STN10M	W40
1191414	B105A03000 K10	G24
1191415	B105A03100 K10	G24
1191416	B105A03200 K10	G24
1191417	B105A03300 K10	G24
1191418	B105A03500 K10	G24
1191419	B105A04000 K10	G24
1191420	B105A04200 K10	G24
1191421	B105A04500 K10	G24
1191422	B105A05000 K10	G24
1191423	B105A05100 K10	G24
1191424	B105A05500 K10	G24
1191425	B105A05700 K10	G24
1191426	B105A05800 K10	G24
1191427	B105A06000 K10	G24
1191428	B105A06300 K10	G24
1191429	B105A06400 K10	G24
1191430	B105A06500 K10	G24
1191431	B105A06700 K10	G25
1191432	B105A06800 K10	G25
1191433	B105A07000 K10	G25
1191434	B105A07100 K10	G25
1191435	B105A07500 K10	G25
1191436	B105A07800 K10	G25
1191437	B105A08000 K10	G25
1191438	B105A08400 K10	G25
1191439	B105A08500 K10	G25
1191440	B105A08700 K10	G25
1191441	B105A08800 K10	G25
1191442	B105A09000 K10	G25
1191443	B105A09500 K10	G25
1191444	B105A09700 K10	G25
1191445	B105A09800 K10	G25
1191446	B105A10000 K10	G25
1191448	B105A10200 K10	G25
1191449	B105A10300 K10	G25
1191450	B105A10500 K10	G25
1191451	B105A10700 K10	G25
1191452	B105A11000 K10	G25
1191453	B105A11800 K10	G25
1191454	B105A12000 K10	G25
1191455	B105A12500 K10	G25
1191456	B105A12700 K10	G25
1191457	B105A12800 K10	G25
1191458	B105A13000 K10	G25
1191459	B105A13800 K10	G25
1191460	B105A14000 K10	G25
1191461	B105A14200 K10	G26
1191462	B105A14500 K10	G26
1191463	B105A15000 K10	G26
1191464	B105A15100 K10	G26
1191465	B105A15800 K10	G26
1191466	B105A16000 K10	G26
1191467	B105A16500 K10	G26
1191468	B105A18000 K10	G26
1191469	B105A20000 K10	G26
1191470	B105A20500 K10	G26
1191612	B411A05000 KF1	G94
1191613	B411A06000 KF1	G94
1191614	B411A08000 KF1	G94
1191616	B411A10000 KF1	G95
1191617	B411A12000 KF1	G95
1191618	B411A14000 KF1	G95
1191619	B411A16000 KF1	G95
1191620	B501Z06000 K10	G144
1191628	B505Z04000 K10	G144
1191629	B505Z06000 K10	G144
1191630	B505Z10000 K10	G144
1191631	B505Z12000 K10	G144
1191632	B505Z16000 K10	G144
1191633	B505Z20000 K10	G144
1191970	DV50BKR32040M	K91
1191971	DV50BKR50040M	K91
1192275	KR32KR32038100M	K93
1192276	KR32KR32047100M	K93
1192280	KR50KR50065100M	K93
1192281	KR50SVS4B094M	K83
1192295	KRDCKR32M	K91–93
1192296	KRDCKR50M	K91–93
1192326	LSSR204D	D71
1192442	S2020LSER3	D74
1192530	SPHX060204R21 KM1	J116
1192534	SPHX070304R21 KM1	J116
1192535	SPHX070304R22 KM1	J117
1192538	SPHX090304R21 KM1	J116
1192539	SPHX090304R22 KM1	J117
1192616	TRAOL163D	E70
1192617	TRAOL2015D	E70
1192618	TRAOR243E	E70
1192621	TRTOR1615D	E71
1196489	MS1438	B290–291
1197315	KM80BT13070	K141
1197539	SPHX1205ZCERGP KCK15	S65
1197540	SPHX1205ZCELGP KCK15	S65
1197721	410.081	E15, S64, S67
1197803	3.37530R010	I27
1198114	SNHX12L5PZTNGP K110M	U15
1198117	SNHX12L5PZFNGE K110M	U14
1198178	SCMT325211 KT315	B246
1198179	DCMT2150511 KT315	B224
1198180	VBMT220511 KT315	B280
1198181	SCMT325111 KT315	B246
1198182	SCMT43111 KT315	B246
1198183	VBMT33111 KT315	B280
1198184	VBMT33211 KT315	B280
1198185	TCMT215111 KT315	B256
1198186	TCMT325111 KT315	B256
1198187	CCMT215111 KT315	B190
1198188	CCMT325111 KT315	B190
1198189	CCMT325211 KT315	B190
1198191	DCMT215111 KT315	B224
1198192	DCMT325111 KT315	B224
1198564	B411A03200 KF1	G94
1198566	B411A03300 KF1	G94
1198568	B411A03800 KF1	G94

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1198570	B411A04000 KF1	G94
1198572	B411A04200 KF1	G94
1198574	B411A04500 KF1	G94
1198576	B411A04600 KF1	G94
1198578	B411A04650 KF1	G94
1198580	B411A04800 KF1	G94
1198582	B411A04900 KF1	G94
1198586	B411A05100 KF1	G94
1198588	B411A05200 KF1	G94
1198590	B411A05500 KF1	G94
1198592	B411A05550 KF1	G94
1198594	B411A05800 KF1	G94
1198597	B411A06300 KF1	G94
1198599	B411A06400 KF1	G94
1198602	B411A06500 KF1	G94
1198606	B411A06600 KF1	G94
1198608	B411A06800 KF1	G94
1198610	B411A07000 KF1	G94
1198613	B411A07400 KF1	G94
1198617	B411A07500 KF1	G94
1198620	B411A07800 KF1	G94
1198625	B411A08400 KF1	G94
1198628	B411A08500 KF1	G94
1198630	B411A09000 KF1	G95
1198632	B411A09300 KF1	G95
1198635	B411A09500 KF1	G95
1198637	DNMG33233 KT315	B78
1198640	B411A09800 KF1	G95
1198644	B411A10200 KF1	G95
1198645	DNMG33133 KT315	B78
1198648	B411A10500 KF1	G95
1198650	B411A11000 KF1	G95
1198652	B411A11200 KF1	G95
1198656	B411A11500 KF1	G95
1198658	B411A11800 KF1	G95
1198663	B411A12500 KF1	G95
1198665	B411A13000 KF1	G95
1198667	B411A13500 KF1	G95
1198670	B411A13800 KF1	G95
1198679	B411A14500 KF1	G95
1198682	B411A15000 KF1	G95
1198684	B411A15500 KF1	G95
1198686	CNMG43233 KT315	B48
1198689	DNMG44133 KT315	B78
1198691	B411A16500 KF1	G95
1198693	DNMG44233 KT315	B78
1198694	B411A17000 KF1	G95
1198697	B411A17500 KF1	G95
1198701	B411A18000 KF1	G95
1198703	B411A19000 KF1	G95
1198704	B411A19500 KF1	G95
1198707	B411A20000 KF1	G95
1198711	B411A21000 KF1	G95
1198714	B411A22000 KF1	G95
1198716	B411A23000 KF1	G95
1198718	B411A24000 KF1	G95
1198721	B411A25000 KF1	G95
1198724	B501Z04000 K10	G144
1198733	B501Z10000 K10	G144
1198743	B505Z08000 K10	G144
1198753	B501Z12000 K10	G144
1199223	B105A12100 K10	G25
1199225	B105A08300 K10	G25
1199228	B105A04700 K10	G24
1199229	B105A06100 K10	G24
1199238	B105A08100 K10	G25
1199243	B105A10100 K10	G25
1199251	B105A10800 K10	G25
1199306	B105A07600 K10	G25
1199308	B105A11100 K10	G25
1199311	B105A09100 K10	G25
1199316	B105A11700 K10	G25
1199334	B105A03700 K10	G24
1199337	B105A03800 K10	G24
1199348	B105A04650 K10	G24
1199351	B105A04800 K10	G24
1199360	B105A05200 K10	G24
1199365	B105A05550 K10	G24
1199380	B105A06600 K10	G25
1199387	B105A07400 K10	G25
1199406	B105A09300 K10	G25
1199421	B105A11200 K10	G25
1199424	B105A11500 K10	G25
1199434	B105A13100 K10	G25
1199438	B105A13500 K10	G25
1199455	B105A15500 K10	G26
1199469	B105A17000 K10	G26
1199472	B105A17500 K10	G26
1199480	B105A18500 K10	G26
1199488	B105A19000 K10	G26
1199492	B105A19500 K10	G26
1199675	B105A21000 K10	G26
1199682	B105A04100 K10	G24
1199685	B105A08600 K10	G25
1201617	B105A03400 K10	G24
1201621	B105A03600 K10	G24
1201661	B105A04900 K10	G24
1201677	B105A05600 K10	G24
1201708	B105A06200 K10	G24
1201713	B105A06350 K10	G24
1201892	B105A10400 K10	G25
1202275	B411A08800 KF1	G95
1208579	3.41020R901 CS5	I16
1208588	3.41020R902 CS5	I16
1208594	3.41020R903 CS5	I16
1208601	3.41220R901 CS5	I16
1208606	3.41220R902 CS5	I16
1208615	3.41220R903 CS5	I16
1208627	3.41020R900 KMF	I17
1208635	3.42805R001 KMF	I30
1208642	3.42807R001 KMF	I30
1208648	3.41220R900 KMF	I17
1208764	SPHX060204R22 KM1	J117
1208782	SPHX120404R21 KM1	J116
1208789	SPHX120404R22 KM1	J117
1208830	SPHX150504R21 KM1	J116
1208833	SPHX150504R22 KM1	J117
1221501	SPHX120508PCSRGP KCK15	S68
1223594	SPHX1205PCERGPB KCK15	S68
1229047	KSSR150SP10T30F2	T109
1229078	KSSR200SP10T30F3	T109
1229079	KSSR250SP10T30F4	T109
1229080	KSSR300SP10T30F4	T109
1229081	KSSR400SP10T30F5	T109
1229091	KISR075SP10T30F	T108
1229092	KISR100SP10T30F	T108
1229095	KISR125SP10T30F	T108
1229096	KISR150SP10T30F	T108
1229112	KISBR150SP10T30F	T107
1229113	KISBR200SP10T30F	T107
1230196	B105A04300 K10	G24
1230373	CKM36	B72, B94–95, B115–119
1232019	SDJCRF083D	B228
1232519	3.76068R040V	J82–83
1236002	A08RSVMBR2E	B284
1236006	A10SSVMBR2E	B284
1236007	A12SSVMBR3E	B284
1236018	A16TSVMBR3E	B284
1242260	PT00163	E60
1243476	114.111	E17
1243527	132.151	E16
1243529	132.156	E16
1243735	192.158	J92
1243752	3.77000R083V	J84
1243753	3.77000R084V	J84
1243754	3.77000R086V	J84
1243769	302.009	J90
1243770	302.010	J90
1243771	302.011	J90
1243777	360.630	I26, I29
1243778	360.631	I26, I29
1243779	360.632	I26, I29
1243780	360.633	I26, I29
1243781	360.634	I26
1243782	360.635	I26, I29
1243783	360.636	I26, I29
1244281	1.78025R300Z	E21, E23
1245236	1.18025L310	E16
1245237	1.18025R315	E16
1245244	1.10820R310	E15
1245245	1.10825L310	E15
1245247	1.10825R310	E15
1245248	1.10825R700	E15
1245255	1.18016R110	E16
1245256	1.18020L110	E16
1245257	1.18020R110	E16
1245258	1.18020R310	E16
1245259	1.18025R310	E16
1245260	1.18032L315	E16
1245261	1.18032R315	E16
1245277	1.17125L330	E16
1245287	1.18016L110	E16
1245292	1.18025L330	E17
1245326	1.18025L315	E16
1245338	1.38020R021	E17
1245339	1.38025L021	E17
1245340	1.38025R021	E17
1245357	1.77132R400	E18
1245364	1.78032R400	E19
1245371	1.77120L100	E18
1245372	1.77120R100	E18
1245374	1.77125R300	E18
1245382	1.77225R301	E19
1245388	1.77725R301	E18
1245392	1.78012R103	E19
1245394	1.78016R100	E19
1245397	1.78020R100	E19
1245398	1.78025L300	E19
1245712	302.014	J92
1245716	3.37042R320	I14
1245717	3.37042R820	I14
1245718	3.37051R320	I14
1245719	3.37051R820	I14
1245720	3.37062R320	I14
1245721	3.37062R820	I14
1245722	3.37081R320	I14
1245723	3.37081R820	I14
1245724	3.37101R332	I14
1245725	3.37121R332	I14
1245726	3.37131R832	I14
1245727	3.37141R332	I14
1245728	3.37151R832	I14
1245729	3.37161R332	I14
1245730	3.37161R832	I14
1245731	3.37171R332	I14
1245732	3.37171R832	I14
1245733	3.37181R332	I14
1245734	3.37181R832	I14
1245735	3.37060R720	I26
1245736	3.37080R720	I26
1245737	3.37160R732	I26
1245738	3.37180R732	I26
1245739	3.37526R006	I27
1245740	3.37528R008	I27
1245741	3.37532R012	I27
1245742	3.37534R014	I27
1245743	3.37538R016	I27
1245744	3.37540R018	I27
1245745	3.37542R020	I27
1245746	3.76063R040V	J82–83
1245747	3.76078R048V	J82–83
1245748	3.76096R058V	J82–83
1245749	3.76045R028V	J82–83
1245750	3.76050R028V	J82–83
1245751	3.76058R032V	J82–83
1245752	3.76078R040V	J82–83
1245753	3.76090R048V	J82–83
1245754	3.76096R048V	J82–83
1245755	3.76108R058V	J82–83
1245756	3.76115R070V	J82–83
1245757	3.76122R070V	J82–83
1245758	3.76130R070V	J82–83
1245759	3.76140R080V	J82–83
1245760	3.76150R080V	J82–83
1245761	3.76158R080V	J82–83
1245762	3.76162R080V	J82–83
1245818	3.77000R023V	J84
1245819	3.77000R030V	J84
1245820	3.77000R048V	J84
1245821	3.77000R049V	J84
1245822	3.77000R050V	J84
1245823	3.77000R051V	J84
1245824	3.77000R052V	J84
1245825	3.77000R053V	J84
1245826	3.77000R073V	J84
1245827	3.77000R074V	J84
1245828	3.77000R075V	J84
1245829	3.77000R076V	J84
1245830	3.77000R077V	J84
1245831	3.77000R078V	J84
1245832	3.77000R079V	J84
1245833	3.77000R080V	J84
1245834	3.77000R085V	J84
1245835	3.77000R087V	J84
1245836	3.77000R088V	J84
1245980	KSEM160R3WN20M	H73
1245983	KSEM160R5WN20M	H73
1245986	KSEM165R3WN20M	H73
1245988	KSEM165R5WN20M	H73
1245991	KSEM170R3WN20M	H73
1245993	KSEM170R5WN20M	H73
1245995	KSEM175R3WN20M	H73
1245997	KSEM175R5WN20M	H73
1245999	KSEM180R3WN20M	H73
1246001	KSEM180R5WN20M	H73
1246003	KSEM185R3WN25M	H73
1246005	KSEM185R5WN25M	H73
1246007	KSEM190R3WN25M	H73
1246008	KSEM190R5WN25M	H73
1246011	KSEM195R3WN25M	H73
1246013	KSEM195R5WN25M	H73
1246014	KSEM200R3WN25M	H73
1246017	KSEM200R5WN25M	H73
1246018	KSEM205R3WN25M	H73
1246021	KSEM205R5WN25M	H73
1246022	KSEM210R3WN25M	H73
1246024	KSEM210R5WN25M	H73
1246026	KSEM215R3WN25M	H73
1246028	KSEM215R5WN25M	H73
1246031	KSEM220R3WN25M	H73
1246032	KSEM220R5WN25M	H73
1246034	KSEM225R3WN25M	H74
1246036	KSEM225R5WN25M	H74
1246037	KSEM230R3WN25M	H74
1246040	KSEM230R5WN25M	H74
1246041	KSEM235R3WN25M	H74
1246044	KSEM235R5WN25M	H74
1246046	KSEM240R3WN25M	H74
1246048	KSEM240R5WN25M	H74
1246051	KSEM245R3WN32M	H74
1246053	KSEM245R5WN32M	H74
1246055	KSEM250R3WN32M	H74
1246057	KSEM250R5WN32M	H74
1246059	KSEM255R3WN32M	H74
1246061	KSEM255R5WN32M	H74
1246063	KSEM260R3WN32M	H74
1246065	KSEM260R5WN32M	H74
1246067	KSEM265R3WN32M	H74
1246069	KSEM265R5WN32M	H74
1246071	KSEM270R3WN32M	H74
1246073	KSEM270R5WN32M	H74
1246075	KSEM275R3WN32M	H74
1246077	KSEM275R5WN32M	H74
1246079	KSEM280R3WN32M	H74
1246081	KSEM280R5WN32M	H74
1246083	KSEM285R5WN32M	H74
1246085	KSEM290R3WN32M	H74
1246088	KSEM290R5WN32M	H74
1246089	KSEM295R3WN32M	H74
1246092	KSEM295R5WN32M	H74
1246093	KSEM300R3WN32M	H74
1246095	KSEM300R5WN32M	H74
1246098	KSEM305R3WN32M	H74
1246099	KSEM305R5WN32M	H74
1246102	KSEM310R3WN32M	H74
1246103	KSEM310R5WN32M	H74
1246106	KSEM315R3WN32M	H74
1246107	KSEM315R5WN32M	H74
1246109	KSEM320R3WN32M	H74
1246112	KSEM320R5WN32M	H74
1246166	CBTF300R2WD20N3M	J114
1246168	CBTF420R2WD32N3M	J114
1246170	CBTF180R2WD20N3M	J114
1246187	CBTF330R2WD20N3M	J114
1246188	CBTF360R2WD32N3M	J114
1246195	CBTF400R2WD32N3M	J114
1246203	CBTF240R2WD20N2M	J114

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1246205	CBTF280R2WD20N3M	J114
1246207	CBTF320R2WD20N3M	J114
1246216	CBTF460R2WD32N3M	J114
1246234	DFT250R4WD32M	J50
1246238	DFT270R4WD32M	J50
1246239	DFT280R4WD32M	J50
1246242	DFT290R4WD32M	J50
1246243	DFT300R4WD32M	J50
1246245	DFT310R4WD32M	J50
1246247	DFT320R4WD32M	J50
1246248	DFT250R4WD40M	J50
1246249	DFT260R4WD40M	J50
1246250	DFT270R4WD40M	J50
1246251	DFT280R4WD40M	J50
1246253	DFT290R4WD40M	J50
1246256	DFT300R4WD40M	J50
1246258	DFT310R4WD40M	J50
1246260	DFT320R4WD40M	J50
1246262	DFT330R4WD40M	J50
1246263	DFT340R4WD40M	J50
1246266	DFT350R4WD40M	J50
1246267	DFT360R4WD40M	J50
1246271	DFT380R4WD40M	J50
1246273	DFT390R4WD40M	J50
1246275	DFT400R4WD40M	J50
1246278	DFT420R4WD40M	J50
1246279	DFT430R4WD40M	J50
1246282	DFT440R4WD40M	J50
1246284	DFT450R4WD40M	J50
1246285	DFT460R4WD40M	J50
1246288	DFT470R4WD40M	J50
1246289	DFT480R4WD40M	J50
1246688	KBFI4	I15
1246691	KBFI5B	I15
1246696	KBFI6B	I15
1246700	KBFI7	I15
1246703	KBFI8	I15
1246704	KBFI9	I15
1246707	KBFI10	I15
1246708	KBFI11	I15
1246710	KBFI12	I15
1246714	KBFI13	I15
1246716	KBFI15	I15
1246718	KBFI16	I15
1246720	KBFI18	I15
1247650	KAP1250632	U7–8
1247652	KAP1250634	U7–8
1247660	KAP1871004	U7–8
1247663	KAP2251254	U7–8
1247666	KAP3121254	U7–8
1247668	KAP3502004	U7–8
1247669	KAP5502004	U8
1247675	KAP1250764	U7–8
1247681	KS426SNH1102	U13
1247684	KS526SNH1102	U13
1247686	KS33SNH1103	U13
1247688	KS43SNH1103	U13
1247691	KS53SNH1103	U13
1247694	KS63SNH1103	U13
1247698	KVNS020630D	U7
1247704	KVNS021180D	U7
1247710	KVNS030630D	U7
1247712	KVNS030870D	U7
1247716	KVNS031180D	U7
1247718	KVNS031580D	U7
1247721	KVNS031970D	U8
1247722	KVNS032360D	U8
1247725	KVNS040630D	U7
1247727	KVNS040870D	U7
1247730	KVNS041180D	U7
1247732	KVNS041580D	U7
1247735	KVNS042360D	U8
1247738	KVNS050630D	U7
1247740	KVNS050870D	U7
1247742	KVNS051180D	U7
1247746	KVNS051580D	U7
1247753	KVNS060870D	U7
1247757	KVNS061180D	U7
1247768	KVNS081180D	U7
1247778	KVNS101180D	U7
1247785	KVNS102360D	U8
1249028	5.34280R028080	J87
1251261	WXXNL4455X-FL	E60
1251262	WXXNR4455X-FL	E60
1253759	TRAOR1615D	E70
1255899	170.285	H88
1255900	170.286	H88
1255901	170.287	H88
1255902	170.288	H88
1255968	B105A05400 K10	G24
1258625	B105A03900 K10	G24
1260086	CC09	B200–204
1260087	CC11	B200–203
1261328	CSKPR12CA4	B174, B394
1261379	CSSPR10CA3	B176, B396
1263816	DV40BKR50060M	K91
1263825	DV40BT13069	K142
1264135	DV50BKR63060M	K91
1264136	DV50BKR80070M	K91
1270619	EB48040500	K143
1270620	EB53050550	K143
1270621	EB58050600	K143
1270939	E03HSCFDR12	B200
1270940	E03HSCLDL12A	B202
1270941	E03HSCLDR12A	B202
1270944	E03HSTLDR128	B265
1270946	E03MSCFDR12	B200
1270947	E03MSCLDR12A	B202
1270950	E03MSTLDR128	B265
1270952	E04HSCFDR12	B200
1270953	E04HSCLDL12	B202
1270954	E04HSCLDR12	B202
1270956	E04HSTFDR128	B264
1270958	E04HSTLDR128	B265
1270960	E04MSCFDR12	B200
1270961	E04MSCLDL12	B202
1270962	E04MSCLDR12	B202
1270964	E04MSTLDL128	B265
1270965	E04MSTLDR128	B265
1270968	E05HSTFDR128	B264
1270970	E05HSTLDR128	B265
1270971	E05MSTFDR128	B264
1270973	E05MSTLDR128	B265
1270981	E06MSTLDL07	B265
1270982	E06MSTLDR07	B265
1270991	E08MSTLDL07	B265
1270992	E08MSTLDR07	B265
1271036	E25MSC7DR12	B204
1271038	E03HSCLDR12	B202
1271040	E03MSCLDR12	B202
1271092	FC11	B265
1271093	FC14	B264–265
1274022	ICSN643 K9	B58–60
1274659	IRSN84 K9	B98
1274800	ISSN443 K9	B109–110
1274807	ISSN643 K9	B109–110
1279732	KRCSTFPR113F	K90
1279733	KRDCKR63M	K91–93
1279734	KRDCKR80M	K91–93
1279736	KRDE070019M	K89, K108
1279739	KRDE083019M	K89, K108
1279740	KRDE096019M	K89, K109
1279741	KRDE101023M	K89, K110
1279742	KRDE120023M	K89, K110–111
1279743	KRDE139026M	K89, K111
1279745	KRDE156026M	K89, K112
1279746	KRDE175026M	K89, K113
1279748	KRDE193026M	K89, K114
1279772	KR32KR32038050M	K93
1279775	KR32KR32047050M	K93
1279785	KR50KR50065050M	K93
1279787	KR50SVS5B094M	K83
1279791	KR63KR63085050M	K93
1279792	KR63KR63085100M	K93
1279793	KR63SVS6B126M	K83
1279797	KR80KR80095050M	K93
1279798	KR80KR80095100M	K93
1279856	KSEM165R7WN20M	H75
1279857	KSEM170R7WN20M	H75
1279858	KSEM175R7WN20M	H75
1279859	KSEM180R7WN20M	H75
1279863	KSEM185R7WN25M	H75
1279864	KSEM190R7WN25M	H75
1279866	KSEM195R7WN25M	H75
1279867	KSEM200R7WN25M	H75
1279868	KSEM205R7WN25M	H75
1279872	KSEM210R7WN25M	H75
1279873	KSEM215R7WN25M	H75
1279874	KSEM220R7WN25M	H75
1279878	KSEM225R7WN25M	H75
1279881	KSEM230R7WN25M	H75
1279882	KSEM235R7WN25M	H75
1279889	KSEM245R7WN32M	H75
1279891	KSEM250R7WN32M	H75
1279892	KSEM255R7WN32M	H75
1279893	KSEM260R7WN32M	H76
1279894	KSEM265R7WN32M	H76
1279895	KSEM270R7WN32M	H76
1279896	KSEM275R7WN32M	H76
1279898	KSEM280R7WN32M	H76
1279902	KSEM285R3WN32M	H74
1279903	KSEM285R7WN32M	H76
1279905	KSEM290R7WN32M	H76
1279906	KSEM295R7WN32M	H76
1279908	KSEM300R7WN32M	H76
1279911	KSEM305R7WN32M	H76
1279913	KSEM310R7WN32M	H76
1279914	KSEM315R7WN32M	H76
1279915	KSEM320R7WN32M	H76
1280494	K067TM2RW075STN11D	W43
1280517	K102TM2RW100STN16D	W43
1280598	K165TM2RW125STN27D	W43
1281796	LSASL103	D71
1281797	LSASL123	D71
1281798	LSASL163	D71
1281799	LSASL164	D71
1281800	LSASL83	D71
1281801	LSASR103	D71
1281802	LSASR123	D71
1281803	LSASR163	D71
1281804	LSASR164	D71
1281805	LSASR203	D71
1281812	LSSL123D	D71
1281813	LSSL163D	D71
1281814	LSSL164D	D71
1281815	LSSRDH123C	D72
1281816	LSSRDH164D	D72
1281817	LSSR123D	D71
1281818	LSSR163D	D71
1281819	LSSR164D	D71
1281820	LSSR203D	D71
1282100	MCLNR16CA4	B74
1282677	KSEM240R7WN25M	H75
1282803	MSRNL12CA4	B116
1282807	MSSNR12CA4	B117
1287636	SN5TM	W40–43
1288604	STN1616UNI KC610M	W44
1288861	A03XSCFDR12	B200
1288862	A03XSCLDL12	B201
1288863	A03XSCLDR12	B201
1288867	A03GSTLDR128	B265
1288869	A04FSCFDR12	B200
1288870	A04FSCLDL12	B201
1288871	A04FSCLDR12	B201
1288873	A04HSTFDR128	B264
1288875	A04HSTLDR128	B265
1288881	A05HSTLDR128	B265
1288895	S0612LSEL2	D74
1288896	S0612LSER2	D74
1288907	S0812LSEL2	D74
1288908	S0812LSER2	D74
1288920	S1012LSEL3	D74
1288921	S1012LSER3	D74
1288936	S1212LSEL3	D74
1288937	S1212LSER3	D74
1288958	S1620LSEL3	D74
1288960	S1620LSEL4	D74
1288961	S1620LSER3	D74
1288962	S1620LSER4	D74
1288982	S2020LSER4	D74
1289015	A03XSC7DL12	B204
1289016	A03XSC7DR12	B204
1289024	A03XSCLDR12A	B201
1291027	TRAOL162D	E70
1291029	TRAOL164D	E70
1291030	TRAOL203D	E70
1291031	TRAOL204D	E70
1291032	TRAOL242E	E70
1291033	TRAOL243E	E70
1291034	TRAOL244E	E70
1291035	TRAOR162D	E70
1291037	TRAOR163D	E70
1291038	TRAOR164D	E70
1291039	TRAOR2015D	E70
1291040	TRAOR203D	E70
1291041	TRAOR204D	E70
1291042	TRAOR2415E	E70
1291043	TRAOR244E	E70
1291085	TRHOR1615D	E70
1291086	TRHOR162D	E70
1291089	TRHOR2015D	E70
1291123	TRTOR162D	E71
1291126	TRTOR2015D	E71
1291127	TRTOR202D	E71
1291909	VBMT22111 KT315	B280
1294964	11X1R012B12STN11N	W40
1298873	4111492VRS	B168, B386
1298876	4111573VRS	B168, B386
1298879	4111603VRS	B168, B386
1298882	4111654VRS	B168, B386
1298883	4111664VRS	B168, B386
1298884	4111674VRS	B168, B386
1300343	5.34270R058100	J87
1300344	5.34280R032080	J87
1309256	D48TTB42	B409
1310704	DPGT2151LF KC5010	B231
1310705	DPGT32505LF KC5010	B231
1310707	DPGT3250LF KC5010	B231
1310718	CCGT21505LF KC5010	B189
1310719	DPGT3251HP KC5010	B231
1310720	DPGT3251LF KC5010	B231
1310721	CCGT2150LF KC5010	B189
1310723	DPGT3252HP KC5010	B231
1310724	CCGT2151HP KC5010	B189
1310725	DPGT3252LF KC5010	B231
1310726	CCGT2151LF KC5010	B189
1310728	CCGT2152LF KC5010	B189
1310730	CCGT32505HP KC5010	B189
1310733	CCGT32505LF KC5010	B189
1310735	CCGT3250LF KC5010	B189
1310737	CCGT3251HP KC5010	B189
1310739	CCGT3251LF KC5010	B189
1310740	CCGT3252LF KC5010	B189
1310746	CCGT4305HP KC5010	B189
1310750	CCGT431HP KC5010	B189
1310777	CNGP432K KC5010	B47
1310793	TPGT21505HP KC5010	B267
1310800	TPGT3251HP KC5010	B267
1310802	TPGT3252HP KC5010	B267
1310803	CPGM2151 KC5010	B205
1310805	TPGT3252LF KC5010	B267
1310838	CPGT21505LF KC5010	B206
1310839	CPGT2150LF KC5010	B206
1310841	VBMT2205LF KC5010	B281
1310842	CPGT2151LF KC5010	B206
1310844	CPGT32505HP KC5010	B205
1310845	VBMT221LF KC5010	B281
1310846	CPGT32505LF KC5010	B206
1310849	VBMT331LF KC5010	B281
1310850	CPGT3251HP KC5010	B205
1310878	CPGT3251LF KC5010	B206
1310880	DCGT32505HP KC5010	B224
1310881	DCGT3251HP KC5010	B224
1310882	DCGT3252HP KC5010	B224
1310885	DCMT2151LF KC5010	B225
1310887	DCMT32505LF KC5010	B225
1310890	DCMT3251LF KC5010	B225
1310939	TPGT2151HP KC5010	B267
1310943	TPGT2151LF KC5010	B267
1310944	DPGT21505HP KC5010	B231
1310945	DPGT2151HP KC5010	B231
1310946	TPGT3251LF KC5010	B267
1310947	DPGT21505LF KC5010	B231
1310948	VBMT332LF KC5010	B281
1310950	WNGP432K KC5010	B156
1310951	DCMT21505LF KC5010	B225
1310954	CCGT432HP KC5010	B189
1310955	CNMG432 KC5010	B47

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1310956	CNMG432MG KC5010	B57
1311193	KSEM160R7WN20M	H75
1312498	364.015	H72, H74, H81, H83, H85–86, H123
1314840	DCMT3252LF KC5010	B225
1315965	MS1489	D31–33, D39
1316525	3.42805R001 KC7215	I30
1316526	3.42807R001 KC7215	I30
1319470	IWSN322 K9	B163
1319576	S316	B409
1321012	410.083	S121–123
1322363	ODG1063ISGB KC735M	U9
1322365	ODG2087ISGB KC735M	U9
1322366	ODG3125ISGB KC735M	U9
1322367	ODG4158ISGB KC735M	U9
1322368	ODC2087IEGD KMF	U9
1322370	ODC3125IEGD KMF	U9
1322371	ODC4158IEGD KMF	U9
1322958	SPHX1205ZCTRGPK KY3500	S65
1324700	193.297	C130–131
1328560	A06MSCFCR2	B196
1328572	A08RSCFCR2	B196
1328575	A10SSCFCR2	B196
1328577	A10SSCFCL2	B196
1328578	A12SSCFCR3	B196
1328579	A12SSCFCL3	B196
1328580	A16TSCFCR3	B196
1328582	A06MSCLCR2	B197
1328583	A06MSCLCL2	B197
1328584	A08RSCLCR2	B197
1328585	A08RSCLCL2	B197
1328586	A10SSCLCR2	B197
1328587	A10SSCLCL2	B197
1328588	A10SSCLCR3	B197
1328589	A10SSCLCL3	B197
1328590	A12SSCLCR3	B197
1328591	A12SSCLCL3	B197
1328592	A16TSCLCR3	B197
1328593	A16TSCLCL3	B197
1328594	A06MSTFCR2	B261
1328596	A08RSTFCR2	B261
1328598	A08RSTFCL2	B261
1328599	A10SSTFCR2	B261
1328601	A12SSTFCR3	B261
1328602	A12SSTFCL3	B261
1328603	A16STFCR3	B261
1328604	A16STFCL3	B261
1328605	A06MSTLCR2	B262
1328606	A06MSTLCL2	B262
1328607	A08RSTLCR2	B262
1328608	A08RSTLCL2	B262
1328610	A10SSTLCR2	B262
1328611	A10SSTLCL2	B262
1328612	A12SSTLCR3	B262
1328613	A12SSTLCL3	B262
1328614	A16STLCR3	B262
1328615	A16STLCL3	B262
1328616	A06MSDUCR2	B230
1328617	A06MSDUCL2	B230
1328619	A08RSDUCR2	B230
1328621	A08RSDUCL2	B230
1328623	A10SSDUCR2	B230
1328624	A10SSDUCL2	B230
1328625	A12SSDUCR3	B230
1328626	A12SSDUCL3	B230
1328628	A16TSDUCR3	B230
1328629	A16TSDUCL3	B230
1328630	A08RSDXCR2	B230
1328632	A08RSDXCL2	B230
1328637	A12SSDXCR3	B230
1328639	A16TSDXCR3	B230
1328640	A16TSDXCL3	B230
1328642	A06MSWLCR2	B287
1328644	A08RSWLCR2	B287
1328646	A10SSWLCR3	B287
1329168	S424	S10, S14, S45, T7, V38, V70
1329354	KSEM0906R5SS100	H78
1329355	KSEM0875R5SS125	H77
1329703	KSEM0750R5SS075	H77
1329704	KSEM1031R5SS125	H78
1329705	KSEM1000R5SS125	H78
1329706	KSEM0984R5SS100	H78
1329707	KSEM1000R5SS100	H78
1329708	KSEM0969R5SS100	H78
1329709	KSEM0938R5SS100	H78
1329710	KSEM0875R5SS100	H77
1329731	KSEM0844R5SS100	H77
1329732	KSEM0813R5SS100	H77
1329733	KSEM0781R5SS100	H77
1329734	KSEM0750R5SS100	H77
1329735	KSEM0719R5SS075	H77
1329737	KSEM0656R5SS075	H77
1329932	KSEM1250R5SS125	H78
1329933	KSEM1250R5SS150	H78
1329934	KSEM1156R5SS125	H78
1329935	KSEM1188R5SS125	H78
1329936	KSEM1219R5SS125	H78
1329937	KSEM1125R5SS125	H78
1329938	KSEM1094R5SS125	H78
1330471	KSEM0625R5SS075	H77
1330472	KSEM1063R5SS125	H78
1339151	MCKNR165D	B62
1339367	MSSNR10CA3	B117
1500650	KRCSCFPR062L	K86
1501356	KRCSCFPR061L	K86
1501357	KRCSCFPR063L	K86
1503488	KSEM0688R5SS075	H77
1504247	SPHX1205ZCTRGP4SK KY3500	S65
1505110	KSEM0625R3SSF075	H82
1505111	KSEM0688R3SSF075	H82
1505112	KSEM0750R3SSF075	H82
1505113	KSEM0750R3SSF100	H82
1505115	KSEM0813R3SSF100	H82
1505116	KSEM0875R3SSF100	H82
1505117	KSEM0875R3SSF125	H82
1505119	KSEM0938R3SSF100	H82
1505120	KSEM0984R3SSF100	H82
1505122	KSEM1000R3SSF100	H83
1505123	KSEM1000R3SSF125	H83
1505125	KSEM1063R3SSF125	H83
1505127	KSEM1125R3SSF125	H83
1505128	KSEM1188R3SSF125	H83
1505130	KSEM1250R3SSF125	H83
1505132	KSEM1250R3SSF150	H83
1505138	KSEM0625R5SSF075	H82
1505171	KSEM0688R5SSF075	H82
1505174	KSEM0750R5SSF075	H82
1505177	KSEM0750R5SSF100	H82
1505179	KSEM0813R5SSF100	H82
1505180	KSEM0875R5SSF100	H82
1505181	KSEM0875R5SSF125	H82
1505183	KSEM0938R5SSF100	H82
1505184	KSEM0969R5SSF100	H82
1505188	KSEM1000R5SSF100	H83
1505189	KSEM1000R5SSF125	H83
1505190	KSEM1063R5SSF125	H83
1505191	KSEM1125R5SSF125	H83
1505194	KSEM1188R5SSF125	H83
1505196	KSEM1250R5SSF125	H83
1505198	KSEM1250R5SSF150	H83
1505208	KSEM0984R5SSF100	H82
1505366	SPHX1205ZCTR-GP1WK KY3500	S66
1505370	SPHX1205PCTRGPBK KY3500	S68
1505394	SPHX1205PCTRGP4SBK KY3500	S68
1505400	SPHX1205PCTR-GP1WBK KY3500	S69
1505865	SPHX1205PCSRGPB KC725M	S68
1505881	SPHX1205ZCERGP4S KCK15	S65
1505883	479.100	S64, S67, S70
1505923	SPHX1205PCERGP4SB KCK15	S68
1510773	170.281	H84, H88
1510776	170.282	H84, H88
1510779	170.283	H84, H88
1510781	170.284	H84, H88
1511189	VPGR331 KT315	E38
1514498	50A05RP90SP12CUFP	S67
1515716	KSEM0813R8SSF100	H84
1515717	KSEM0750R8SSF100	H84
1515718	KSEM0875R8SSF100	H84
1516937	SPHX1205ZCER-GP1W KCK15	S66
1517181	KSEM1063R8SSF125	H84
1517211	KSEM1250R8SSF150	H84
1517212	KSEM1000R8SSF125	H84
1517234	KSEM0750R8SSF075	H84
1517235	KSEM0938R8SSF100	H84
1517236	KSEM0984R8SSF100	H84
1517238	KSEM0625R8SSF075	H84
1517239	KSEM0875R8SSF125	H84
1517240	KSEM1250R8SSF125	H84
1517254	KSEM1188R8SSF125	H84
1517255	KSEM1125R8SSF125	H84
1517256	KSEM1000R8SSF100	H84
1517257	KSEM0688R8SSF075	H84
1517764	SPHX1205PCER-GP1WB KCK15	S69
1519227	KSEM0625R7SS075	H79
1519229	KSEM0656R7SS075	H79
1519230	KSEM0688R7SS075	H79
1519262	KSEM0719R7SS075	H79
1519263	KSEM0750R7SS075	H79
1519264	KSEM0750R7SS100	H79
1519265	KSEM0781R7SS100	H79
1519267	KSEM0813R7SS100	H79
1519269	KSEM0844R7SS100	H79
1519270	KSEM0875R7SS100	H79
1519271	KSEM0875R7SS125	H79
1519272	KSEM0906R7SS100	H79
1519274	KSEM0938R7SS100	H79
1519275	KSEM0969R7SS100	H79
1519276	KSEM0984R7SS100	H79
1519277	KSEM1000R7SS100	H79
1519280	KSEM1000R7SS125	H79
1519282	KSEM1031R7SS125	H80
1519285	KSEM1063R7SS125	H80
1519286	KSEM1094R7SS125	H80
1519288	KSEM1125R7SS125	H80
1519289	KSEM1156R7SS125	H80
1519292	KSEM1188R7SS125	H80
1519294	KSEM1219R7SS125	H80
1519296	KSEM1250R7SS125	H80
1519297	KSEM1250R7SS150	H80
1520056	ODG1063ISGD KC735M	U9
1520057	ODG2087ISGD KC735M	U9
1520058	ODG3125ISGD KC735M	U9
1520059	ODG4158ISGD KC735M	U9
1520076	ODC1063IEGD KMF	U9
1522026	DFT1813R4SSF150	J53
1522027	DFT1625R4SSF150	J53
1522028	DFT1563R4SSF150	J53
1522029	DFT1875R4SSF150	J53
1522030	DFT1688R4SSF150	J53
1522062	KRBB16SCLDRS406A	K79, K102
1522063	KRBB16SCFPR06085A	K79, K102
1522064	KRBB16SCFPR0611A	K79, K102
1522068	KRBB16SCFPR06135A	K79, K102
1522069	KRBB16SCFPR0616A	K79, K103
1522070	KRBB16SCFPR0619A	K79, K103
1522071	KRBB16SCFPR0622A	K79, K103
1522101	DFT1438R4SSF150	J53
1522102	DFT1750R4SSF150	J53
1522103	DFT1531R4SSF150	J53
1522104	DFT1938R4SSF150	J53
1522105	DFT1375R4SSF150	J53
1522106	DFT1500R4SSF150	J53
1522107	DFT1250R4SSF150	J53
1522108	DFT1000R4SSF150	J53
1522109	DFT1125R4SSF150	J53
1522110	DFT1625R4SSF125	J53
1522111	DFT1563R4SSF125	J53
1522112	DFT1531R4SSF125	J53
1522113	DFT1500R4SSF125	J53
1522114	DFT1469R4SSF125	J53
1522115	DFT1438R4SSF125	J53
1522117	DFT1375R4SSF125	J53
1522118	DFT1406R4SSF125	J53
1522119	DFT1313R4SSF125	J53
1522120	DFT1281R4SSF125	J53
1522121	DFT1250R4SSF125	J53
1522123	DFT1219R4SSF125	J53
1522124	DFT1188R4SSF125	J53
1522125	DFT1156R4SSF125	J53
1522126	DFT1125R4SSF125	J53
1522127	DFT1063R4SSF125	J53
1522129	DFT1094R4SSF125	J53
1522130	DFT1031R4SSF125	J53
1522133	DFT1000R4SSF100	J53
1522135	DFT0984R4SSF100	J53
1522242	DFT1000R4SSF125	J53
1522248	DFT2000R4SSF150	J53
1522249	DFT2125R4SSF150	J53
1522250	DFT2000R4SSF200	J53
1522321	DFT2125R4SSF200	J53
1522517	DFT1688R4SSF125	J53
1522848	TPGT18151LF KC5010	B267
1522850	TPGT32505HP KC5010	B267
1522905	CPGT21505HP KC5010	B205
1522907	CPGT2151HP KC5010	B205
1522942	TCGT2151HP KC5010	B256
1522943	TCGT32505HP KC5010	B256
1522945	TCGT3251HP KC5010	B256
1522946	TCGT2151LF KC5010	B256
1522947	TCGT32505LF KC5010	B256
1522948	TCGT3251LF KC5010	B256
1522949	TCGT3252LF KC5010	B256
1523196	TCGT21505HP KC5010	B256
1523329	TPGT181505LF KC5010	B267
1523354	TCGT3252HP KC5010	B256
1523501	RCGK152HP K313	E69
1527051	SCMT43211 KT315	B246
1527689	DFT0906R2SSF125	J51
1527992	DCMT325211 KT315	B224
1527995	TCMT325211 KT315	B256
1528316	DFT0938R2SSF125	J51
1528317	DFT0969R2SSF125	J51
1528318	DFT0984R2SSF125	J51
1528319	DFT1000R2SSF125	J51
1528320	DFT1031R2SSF125	J51
1528328	DV50BKR32041M	K91
1528341	DFT1063R2SSF125	J51
1528342	DFT1094R2SSF125	J51
1528343	DFT1125R2SSF125	J51
1528344	DFT1156R2SSF125	J51
1528345	DFT1188R2SSF125	J51
1528346	DFT1219R2SSF125	J51
1528347	DFT1250R2SSF125	J51
1528348	DFT1281R2SSF125	J51
1528349	DFT1313R2SSF125	J51
1528350	DFT1375R2SSF125	J51
1528361	DFT1406R2SSF125	J51
1528362	DFT1438R2SSF125	J51
1528363	DFT1469R2SSF125	J51
1528364	DFT1500R2SSF125	J51
1528365	DFT1531R2SSF125	J51
1528366	DFT1563R2SSF125	J51
1528367	DFT1625R2SSF125	J51
1528368	DFT1688R2SSF125	J51
1528369	DFT1000R2SSF150	J51
1528370	DFT1219R2SSF150	J51
1528391	DFT1250R2SSF150	J51
1528392	DFT1281R2SSF150	J51
1528393	DFT1313R2SSF150	J51
1528394	DFT1375R2SSF150	J51
1528395	DFT1406R2SSF150	J51
1528396	DFT1438R2SSF150	J51
1528397	DFT1469R2SSF150	J51
1528398	DFT1500R2SSF150	J51
1528399	DFT1531R2SSF150	J51
1528400	DFT1563R2SSF150	J51
1528401	DFT1625R2SSF150	J51
1528402	DFT1688R2SSF150	J51
1528403	DFT1750R2SSF150	J51
1528404	DFT1813R2SSF150	J51
1528405	DFT1875R2SSF150	J51
1528406	DFT1938R2SSF150	J52
1528407	DFT2000R2SSF150	J52
1528408	DFT2125R2SSF150	J52
1528409	DFT2000R2SSF200	J52
1528410	DFT2125R2SSF200	J52
1528421	DFT2250R2SSF200	J52
1528422	DFT2375R2SSF200	J52
1528423	DFT2500R2SSF200	J52
1528424	DFT2750R2SSF200	J52
1528426	DFT3000R2SSF200	J52
1528427	DFT3250R2SSF200	J52
1530058	193.300	S64, S70
1531202	KSEM0634R7SS075	H79
1531204	KSEM0884R7SS100	H79

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1531205	KSEM1011R7SS125	H79
1532254	250C20RP70SP12C4WUFP	S64
1532255	200C16RP70SP12C4WUFP	S64
1532257	125B10RP70SP12C2WUFP	S64
1532258	100B08RP70SP12C2WUFP	S64
1533937	KSEM0759R7SS075	H79
1533938	KSEM0634R5SS075	H77
1533939	KSEM0759R5SS075	H77
1533940	KSEM0884R5SS100	H77
1533981	KSEM1011R5SS125	H78
1535836	SDET433PDER8GB KC725M	T116, T123, U39
1536224	SDET43PDER8GB KC520M	T116, T123, U39
1539005	DV40BKR32041M	K91
1539678	KHSST08003	M124
1540114	KHSST08039	M124
1540142	KHSST08015	M124
1540362	KHSST08043	M36
1540367	KHSST08044	M40
1540369	KHSST08061	M36
1540411	KHSST08067	M124
1540415	KHSST08082	M124
1540432	KHSST08083	M127
1540437	KHSST08087	M124
1540438	CCLNR164DMX5	B383
1540440	KHSST08088	M127
1540442	KHSST08090	M36
1540443	CCLNL164DMX5	B383
1540445	CCLNR204DMX5	B383
1540447	CCLNL204DMX5	B383
1540453	KHSST08091	M40
1540467	KHSST08101	M124
1540473	KHSST08104	M36
1540474	KHSST08112	M124
1540475	KHSST08116	M124
1540476	KHSST08117	M127
1540479	KHSST08119	M36
1540492	CSDNN164DMX5	B383
1540495	CSKNR164DMX5	B384
1540519	KHSST08140	M124
1540523	KHSST08148	M124
1540524	KHSST08149	M127
1540531	A24CCLNR4MX5	B391
1540552	A32CCLNR4MX5	B391
1541345	KHSST08205	M36
1541367	DFT250R2WD32M	J48
1541368	DFT260R2WD32M	J48
1541369	DFT270R2WD32M	J48
1541370	DFT280R2WD32M	J48
1541374	CSKNL164DMX5	B384
1541381	DFT290R2WD32M	J48
1541382	DFT300R2WD32M	J48
1541383	DFT310R2WD32M	J48
1541384	DFT320R2WD32M	J48
1541385	DFT330R2WD32M	J48
1541386	DFT340R2WD32M	J48
1541387	DFT350R2WD32M	J48
1541388	DFT360R2WD32M	J48
1541389	DFT370R2WD32M	J48
1541390	DFT380R2WD32M	J48
1541391	DFT390R2WD32M	J48
1541392	DFT400R2WD32M	J48
1541393	DFT410R2WD32M	J48
1541394	DFT420R2WD32M	J48
1541395	DFT430R2WD32M	J48
1541396	DFT440R2WD32M	J48
1541498	KHSST08193	M127
1541500	KHSST08197	M127
1541511	KHSST08151	M124
1541532	KHSST08152	M127
1541538	KHSST08156	M36
1541545	KHSST08157	M36
1541552	KHSST08159	M40
1541555	KHSST08160	M40
1541574	KHSST08173	M127
1541576	KHSST08175	M36
1541592	KHSST08203	M36
1541605	KHSST08172	M124
1541608	KHSST08192	M124
1541621	KHSST08218	M124
1541624	KHSST08234	M124
1541627	KHSST08239	M127
1541629	KHSST08243	M36
1541632	KHSST08245	M36
1541651	KHSST08235	M127
1541654	KHSST08238	M124
1541742	A24CCLNL4MX5	B391
1541743	A32CCLNL4MX5	B391
1541847	DFT250R2WD40M	J48
1541848	DFT260R2WD40M	J48
1541849	DFT270R2WD40M	J48
1541850	DFT280R2WD40M	J48
1541851	DFT290R2WD40M	J48
1541852	DFT300R2WD40M	J48
1541853	DFT310R2WD40M	J48
1541854	DFT320R2WD40M	J48
1541855	DFT330R2WD40M	J48
1541856	DFT340R2WD40M	J48
1541857	DFT350R2WD40M	J48
1541858	DFT360R2WD40M	J48
1541859	DFT370R2WD40M	J48
1541860	DFT480R2WD40M	J48
1541871	DFT380R2WD40M	J48
1541872	DFT390R2WD40M	J48
1541873	DFT400R2WD40M	J48
1541874	DFT410R2WD40M	J48
1541875	DFT420R2WD40M	J48
1541876	DFT430R2WD40M	J48
1541877	DFT440R2WD40M	J48
1541878	DFT450R2WD40M	J48
1541879	DFT460R2WD40M	J48
1541880	DFT470R2WD40M	J48
1541901	DFT490R2WD40M	J48
1541902	DFT500R2WD40M	J48
1541903	DFT510R2WD40M	J48
1541904	DFT520R2WD40M	J48
1541905	DFT530R2WD40M	J48
1541906	DFT540R2WD40M	J48
1541931	DFT450R2WD50M	J48
1541932	DFT460R2WD50M	J48
1541933	DFT470R2WD50M	J48
1541934	DFT480R2WD50M	J48
1541935	DFT490R2WD50M	J48
1541936	DFT500R2WD50M	J48
1541951	DFT510R2WD50M	J48
1541952	DFT520R2WD50M	J48
1541953	DFT530R2WD50M	J48
1541954	DFT670R2WD50M	J49
1542020	KHSST08334	M36
1542043	DFT540R2WD50M	J48
1542044	KHSST08246	M40
1542071	DFT550R2WD50M	J48
1542072	DFT560R2WD50M	J48
1542073	KHSST08261	M124
1542074	DFT570R2WD50M	J48
1542075	KHSST08262	M127
1542076	DFT580R2WD50M	J48
1542079	KHSST08268	M124
1542080	KHSST08269	M127
1542081	DFT600R2WD50M	J48
1542082	KHSST08272	M124
1542083	DFT610R2WD50M	J49
1542084	KHSST08273	M127
1542089	KHSST08280	M36
1542090	DFT620R2WD50M	J49
1542092	DFT630R2WD50M	J49
1542093	DFT640R2WD50M	J49
1542096	DFT650R2WD50M	J49
1542097	DFT660R2WD50M	J49
1542099	DFT680R2WD50M	J49
1542105	DFT690R2WD50M	J49
1542107	DFT700R2WD50M	J49
1542112	KHSST08282	M36
1542133	KHSST08294	M124
1542134	KHSST08295	M127
1542137	KHSST08296	M36
1542145	KHSST08316	M125
1542146	KHSST08317	M128
1542148	KHSST08320	M125
1542149	KHSST08321	M128
1542153	KHSST08324	M125
1542156	KHSST08327	M128
1542157	KHSST08331	M36
1542158	KHSST08332	M36
1542159	KHSST08333	M40
1542228	KHSST08336	M36
1542250	KHSST08353	M125
1542251	KHSST08354	M128
1542252	KHSST08355	M125
1542254	KHSST08356	M128
1542258	KHSST08364	M36
1542454	KHSST08380	M125
1542455	KHSST08381	M128
1542465	KHSST08391	M36
1542493	KHSST08392	M128
1542494	KHSST08393	M36
1542567	KHSST08409	M125
1542570	KHSST08411	M125
1542586	KHSST08419	M36
1542589	KHSST08434	M125
1542590	KHSST08435	M128
1542598	KHSST08443	M36
1542599	KHSST08444	M36
1542610	KHSST08459	M125
1542611	KHSST08460	M128
1542612	KHSST08461	M125
1542613	KHSST08467	M36
1542625	KHSST08477	M125
1542628	KHSST08478	M128
1542654	KHSST08484	M36
1542699	KHSST08493	M125
1542702	KHSST08494	M128
1542752	KHSST08498	M36
1542757	KHSST08508	M125
1542759	KHSST08510	M125
1542781	DFT710R2WD50M	J49
1542782	DFT720R2WD50M	J49
1542787	KHSST08703	M157
1542790	KHSST08704	M157
1542871	KHSST08516	M36
1542879	KHSST08530	M125
1542880	KHSST08531	M128
1542881	KHSST08537	M36
1542883	KHSST08545	M125
1542884	KHSST08546	M128
1542886	KHSST08553	M125
1542887	KHSST08554	M128
1542891	KHSST08561	M125
1542893	KHSST08562	M128
1542894	KHSST08566	M36
1542895	KHSST08574	M125
1542896	KHSST08575	M128
1542897	KHSST08578	M36
1542912	KHSST08595	M125–126
1542913	KHSST08596	M128
1542914	KHSST08599	M36
1542915	KHSST08608	M126
1542917	KHSST08609	M128
1542920	KHSST08616	M126
1542921	KHSST08617	M128–129
1542924	KHSST08630	M126
1542925	KHSST08631	M129
1542941	KHSST08705	M157
1542943	KHSST08709	M157
1542945	KHSST08712	M157
1542947	KHSST08715	M157
1542952	KHSST08724	M157
1543065	551.326	B383–384, B391
1543077	554.260	B383–384, B391
1543235	DFT730R2WD50M	J49
1543236	DFT740R2WD50M	J49
1543237	DFT750R2WD50M	J49
1543238	DFT760R2WD50M	J49
1543239	DFT770R2WD50M	J49
1543240	DFT780R2WD50M	J49
1543311	DFT790R2WD50M	J49
1543312	DFT800R2WD50M	J49
1543313	DFT810R2WD50M	J49
1543314	DFT820R2WD50M	J49
1543707	KHSST27709	M130
1543711	KHSST27710	M131
1543717	KHSST27711	M41
1543733	KHSST27719	M41
1543736	KHSST27721	M130
1543737	KHSST27722	M131
1543738	KHSST27723	M41
1543744	KHSST27729	M130
1543746	KHSST27730	M131
1543749	KHSST27731	M41
1543826	KHSST27773	M130
1543830	KHSST27781	M130
1544072	KHSST27737	M130
1544075	KHSST27738	M131
1544079	KHSST27739	M41
1544083	KHSST27741	M130
1544086	KHSST27742	M131
1544092	KHSST27743	M41
1544096	KHSST27749	M130
1544097	KHSST27750	M131
1544101	KHSST27751	M41
1544107	KHSST27757	M130
1544108	KHSST27758	M131
1544109	KHSST27759	M41
1544112	KHSST27765	M130
1544113	KHSST27766	M131
1544114	KHSST27767	M41
1544146	KHSST27787	M41
1544148	KHSST27793	M130
1544150	KHSST27796	M130
1544152	KHSST27798	M41
1544153	KHSST27800	M130
1544155	KHSST27809	M130
1544236	KHSST09000	M124
1544245	KHSST09003	M127
1544247	KHSST09004	M124
1544263	KHSST09008	M124
1544266	KHSST09009	M127
1544268	KHSST09010	M124
1544364	DFT590R2WD50M	J48
1544512	KHSST09011	M127
1544513	KHSST09012	M124
1544514	KHSST09013	M127
1544515	KHSST09014	M124
1544516	KHSST09015	M127
1544520	KHSST09018	M125
1544531	KHSST09019	M128
1544533	KHSST09021	M128
1544534	KHSST09022	M125
1544537	KHSST09025	M128–129
1544538	KHSST09026	M125
1544539	KHSST09027	M128
1544540	KHSST09028	M125
1544562	KHSST09029	M128
1544563	KHSST09030	M125
1544574	KHSST09035	M128
1544579	KHSST09039	M128
1544601	KHSST09041	M128
1544603	KHSST09042	M126
1544748	KHSST09043	M128
1544769	KHSST09047	M129
1544771	KHSST09048	M126
1544781	KHSST09054	M130
1544798	KHSST09101	M36
1544800	KHSST09103	M36
1544801	KHSST09104	M36
1544802	KHSST09105	M36
1544804	KHSST09106	M36
1544807	KHSST09108	M36
1544808	KHSST09109	M36
1544811	KHSST09111	M36
1544812	KHSST09112	M36
1544813	KHSST09113	M36
1544816	KHSST09114	M36
1544817	KHSST09115	M36
1544820	KHSST09116	M36
1544852	KHSST09119	M36
1544853	KHSST09120	M36
1544854	KHSST09121	M36
1544855	KHSST09122	M36
1544856	KHSST09123	M36
1545009	KHSST09133	M41
1545192	KHSST09124	M36
1545200	KHSST09125	M36
1545203	KHSST09126	M36
1545209	KHSST09127	M36
1545210	KHSST09128	M36
1545211	KHSST09129	M41

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1545213	KHSST09130	M41
1545215	KHSST09131	M41
1545216	KHSST09132	M41
1545225	KHSST09135	M41
1545228	KHSST09137	M157
1545233	KHSST09140	M157
1545236	KHSST09143	M157
1545242	KHSST09147	M157
1545250	KHSST09151	M157
1546392	SMYE5 K9	D78
1546393	SMYI5 K9	D76, D78–79
1549256	SN3TM	W40, W42
1551609	KSEM160R10WN20M	H75
1551610	KSEM165R10WN20M	H75
1551831	KSEM170R10WN20M	H75
1551833	KSEM175R10WN20M	H75
1551834	KSEM180R10WN20M	H75
1551835	KSEM185R10WN25M	H75
1551836	KSEM190R10WN25M	H75
1551837	KSEM195R10WN25M	H75
1551838	KSEM200R10WN25M	H75
1551839	KSEM210R10WN25M	H75
1551840	KSEM220R10WN25M	H75
1551841	KSEM230R10WN25M	H75
1551842	KSEM240R10WN25M	H75
1551843	KSEM250R10WN32M	H75
1551844	KSEM260R10WN32M	H76
1551845	KSEM265R10WN32M	H76
1551846	KSEM270R10WN32M	H76
1551847	KSEM280R10WN32M	H76
1551848	KSEM290R10WN32M	H76
1551849	KSEM300R10WN32M	H76
1551850	KSEM310R10WN32M	H76
1551861	KSEM320R10WN32M	H76
1553521	SPHX1205ZCTLGPK KY3500	S65
1556483	LNEQ1245R04 KC520M	U20
1556531	LNEU1245R04 KC520M	U19
1556533	LNEU1245R08 KC520M	U19
1556535	LNEU1245R16 KC520M	U19
1556536	LNEU1245R32 KC520M	U19
1556542	LNEU1255R08 KC520M	U19
1558021	A32CRGNR4MN5	B391
1560389	CCGT2151HP KC5410	B189
1560390	CCGT32505HP KC5410	B189
1560600	CCGT21505HP KC5410	B189
1560651	CCGT3251HP KC5410	B189
1560653	CCGT431HP KC5410	B189
1560655	CCGT432HP KC5410	B189
1560692	CPGT2151LF KC5410	B206
1560693	CPGT32505HP KC5410	B205
1560694	CPGT3251HP KC5410	B205
1560698	CPGT3251LF KC5410	B206
1560699	DCGT32505HP KC5410	B224
1560714	DCGT3251HP KC5410	B224
1560715	DCGT3252HP KC5410	B224
1560717	DNGP4305 KC5410	B77
1560721	DPGT2151HP KC5410	B231
1560723	DPGT3251HP KC5410	B231
1560751	RCGK23HP KC5410	E69
1560752	RCGK35HP KC5410	E69
1560753	RCGK46HP KC5410	E69
1560756	TPGT2151HP KC5410	B267
1560757	TPGT3251HP KC5410	B267
1560759	TPGT3252HP KC5410	B267
1560781	VPGR331 KC5410	E38
1560783	VPGR332 KC5410	E38
1560784	WNGP432K KC5410	B156
1560790	CNMP431 KC5410	B56
1560795	CNMP432 KC5410	B56
1560797	CNMS432 KC5410	B57
1560799	CNMS542 KC5410	B57
1560801	CNMS642 KC5410	B57
1560803	DNMS432 KC5410	B86
1560808	SNMS643 KC5410	B108
1560829	TNMS432 KC5410	B130
1560833	VNMS331 KC5410	B149
1560834	VNMS332 KC5410	B149
1566071	46X1R100B40STNB38L	W41
1581442	H16SCLCR3	B198
1581444	H16STFPR2	B279
1581617	551.343	B391
1581689	H16SDUPR3	B237
1582600	KR50SVU65110MCLB	K88
1582734	3.76180R110	J82–83
1582739	3.76195R110	J82–83
1582742	3.76213R125	J82–83
1582745	3.76230R160	J82–83
1582750	3.76260R160	J82–83
1592413	KSEM160R1WN20M	H72
1592414	KSEM181R1WN25M	H72
1592416	KSEM200R1WN25M	H72
1592417	KSEM221R1WN25M	H72
1592418	KSEM241R1WN32M	H72
1592419	KSEM261R1WN32M	H72
1592420	KSEM281R1WN32M	H72
1592461	KSEM301R1WN32M	H72
1592463	KSEM321R1WD50M	H72
1592464	KSEM361R1WD50M	H72
1592465	KSEM181R5WN25M	H73
1592466	KSEM221R5WN25M	H73
1592467	KSEM241R5WN32M	H74
1592468	KSEM261R5WN32M	H74
1592469	KSEM281R5WN32M	H74
1592491	KSEM301R5WN32M	H74
1592492	KSEM321R5WD50M	H74
1592493	KSEM330R5WD50M	H74
1592494	KSEM340R5WD50M	H74
1592496	KSEM350R5WD50M	H74
1592498	KSEM360R5WD50M	H74
1592502	KSEM361R5WD50M	H74
1592504	KSEM370R5WD50M	H74
1592505	KSEM380R5WD50M	H74
1592507	KSEM390R5WD50M	H74
1592509	KSEM400R5WD50M	H74
1597226	SDCW43PDSR8GN KY3500	T117, T124
1597228	SDCW433PDSR8GN KY3500	T117, T124
1599327	KSEM225R10WN25M	H75
1600245	KGMSR1650N	C143
1600246	KGMSL1650N	C143
1600249	KGMSR2525M50	C144
1600250	KGMSL2525M50	C144
1600263	KGMER1650N	C145
1600264	KGMEL1650N	C145
1600270	KGMER2525M50	C145
1600271	KGMEL2525M50	C145
1600515	DFT0875R2SSF125	J51
1601557	CNMG431FF KC5010	B48
1601631	CNMG431FF KT315	B48
1601632	CNMG432FF KC5010	B48
1601636	CNMG432FF KT315	B48
1601637	DNMG442FF KC5010	B79
1601651	DNMG442FF KT315	B79
1601652	WNMG432FF KC5010	B157
1601656	TNMG332FF KC5010	B123
1601886	TNMG332FF KT315	B123
1601888	VNMG331FF KC5010	B146
1601890	VNMG332FF KC5010	B146
1601953	VNMG332FF KT315	B146
1602247	VNMG331FF KT315	B146
1602250	WNMG332FF KC5010	B157
1602304	WNMG332FF KT315	B157
1602579	TNMG331FF KT315	B123
1602604	TNMG331FF KC5010	B123
1604140	SEF040060RSS075M	I26
1604271	SEF060080RSS075M	I26
1604272	SEF080100RSS100M	I26
1604273	SEF100120RSS125M	I26
1604274	SEF120140RSS125M	I26
1604275	SEF140160RSS125M	I26
1604276	SEF160180RSS125M	I26
1604277	SEF156187RSS075	I25
1604278	SEF218250RSS075	I25
1604279	SEF265312RSS075	I25
1604280	SEF328375RSS075	I25
1604301	SEF390437RSS100	I25
1604302	SEF453500RSS100	I25
1604303	SEF500562RSS100	I25
1604304	SEF562625RSS125	I25
1604305	SEF625687RSS125	I25
1604306	SEF687750RSS125	I25
1604705	DNMG432FF KT315	B79
1604706	DNMG432FF KC5010	B79
1605207	CNMG431FN KT315	B49
1605242	CNMG432FN KT315	B49
1605250	CNMG433FN KT315	B49
1605279	DNMG432FN KT315	B79
1605334	DNMG442FN KT315	B79
1606050	50HC040M	G79
1606061	50HC060M	G79
1606062	50HC080M	G79
1606064	50HC100M	G79
1606360	SNMG432FN KT315	B101
1606485	TNMG332FN KT315	B123
1606537	H16SDUPL3	B237
1606718	WNMG432FN KT315	B157
1606881	KSEM0641R5SS075	H77
1606882	KSEM0672R5SS075	H77
1606883	KSEM0703R5SS075	H77
1606884	KSEM0734R5SS075	H77
1606885	KSEM0766R5SS100	H77
1606886	KSEM0797R5SS100	H77
1606887	KSEM0859R5SS100	H77
1606888	KSEM0922R5SS100	H78
1606889	KSEM1047R5SS125	H78
1606890	KSEM1109R5SS125	H78
1606901	KSEM1172R5SS125	H78
1606902	KSEM1203R5SS125	H78
1606903	KSEM1281R5SS150	H78
1606904	KSEM1297R5SS150	H78
1606905	KSEM1313R5SS150	H78
1606906	KSEM1328R5SS150	H78
1606907	KSEM1344R5SS150	H78
1606908	KSEM1375R5SS150	H78
1606909	KSEM1406R5SS150	H78
1606910	KSEM1422R5SS150	H78
1606911	KSEM1438R5SS150	H78
1606912	KSEM1469R5SS150	H78
1606913	KSEM1500R5SS150	H78
1606914	KSEM1514R5SS150	H78
1608363	DFR125R2WD20M	J10
1608364	DFR127R2WD20M	J10
1608365	DFR130R2WD20M	J10
1608366	DFR135R2WD20M	J10
1608367	DFR140R2WD20M	J10
1608368	DFR145R2WD20M	J10
1608369	DFR150R2WD20M	J10
1608370	DFR155R2WD20M	J10
1608391	DFR160R2WD20M	J10
1608392	DFR125R3WD20M	J11
1608393	DFR127R3WD20M	J11
1608394	DFR130R3WD20M	J11
1608395	DFR135R3WD20M	J11
1608396	DFR140R3WD20M	J11
1608397	DFR145R3WD20M	J11
1608398	DFR150R3WD20M	J11
1608399	DFR155R3WD20M	J11
1608400	DFR160R3WD20M	J11
1608497	DNMG331FF KC5010	B79
1608500	DNMG331FF KT315	B79
1608944	DNMG332FF KT315	B79
1608949	TNMG331FN KT315	B123
1610085	TNMG333FN KT315	B123
1610089	DNMG331FN KT315	B79
1610905	VPGR332 KT315	E38
1610983	DNMG332FN KT315	B79
1610985	DNMG441FF KC5010	B79
1610988	DNMG441FF KT315	B79
1611279	DNMG441FN KT315	B79
1611325	DNMG443FN KT315	B79
1611330	WNMG331FN KT315	B157
1611335	WNMG332FN KT315	B157
1611338	WNMG431FF KC5010	B157
1611360	KSEM181R10WN25M	H75
1611414	WNMG431FN KT315	B157
1611417	SNMG432FF KC5010	B101
1611434	KSEM205R10WN25M	H75
1611435	KSEM215R10WN25M	H75
1611436	KSEM221R10WN25M	H75
1611437	KSEM235R10WN25M	H75
1611438	KSEM241R10WN32M	H75
1611439	KSEM245R10WN32M	H75
1611440	KSEM255R10WN32M	H75
1611441	KSEM261R10WN32M	H76
1611442	KSEM275R10WN32M	H76
1611443	KSEM281R10WN32M	H76
1611444	KSEM285R10WN32M	H76
1611445	KSEM295R10WN32M	H76
1611446	KSEM301R10WN32M	H76
1612009	RCGT86ELF KC725M	V92
1612562	DNMG431FF KC5010	B79
1612565	DNMG431FF KT315	B79
1612950	DNMG431FN KT315	B79
1613451	360.516	I25
1613623	KSEM0634R3SSF075	H82
1613627	KSEM0641R3SSF075	H82
1613628	KSEM0672R3SSF075	H82
1613632	KSEM0703R3SSF075	H82
1613633	KSEM0734R3SSF075	H82
1613634	KSEM0759R3SSF100	H82
1613635	KSEM0766R3SSF100	H82
1613636	KSEM0781R3SSF100	H82
1613637	KSEM0797R3SSF100	H82
1613638	KSEM0859R3SSF100	H82
1613639	KSEM0884R3SSF100	H82
1613640	KSEM0906R3SSF100	H82
1613651	KSEM0922R3SSF100	H82
1613652	KSEM0969R3SSF100	H82
1613653	KSEM1011R3SSF100	H83
1613654	KSEM1031R3SSF125	H83
1613655	KSEM1047R3SSF125	H83
1613656	KSEM1094R3SSF125	H83
1613657	KSEM1109R3SSF125	H83
1613658	KSEM1156R3SSF125	H83
1613659	KSEM1203R3SSF125	H83
1616097	KSEM1281R3SSF150	H83
1616099	KSEM1297R3SSF150	H83
1616100	KSEM1313R3SSF150	H83
1616101	KSEM1328R3SSF150	H83
1616102	KSEM1344R3SSF150	H83
1616105	KSEM1375R3SSF150	H83
1616106	KSEM1406R3SSF150	H83
1616107	KSEM1422R3SSF150	H83
1616110	KSEM1438R3SSF150	H83
1616132	KSEM1469R3SSF150	H83
1616135	KSEM1500R3SSF150	H83
1616141	KSEM1514R3SSF150	H83
1617400	KGMSR2050N	C143
1617589	DNMG433FN KT315	B79
1617591	KGMSL2050N	C143
1617592	KGMER2050N	C145
1617593	KGMEL2050N	C145
1620372	NPGR51R KT315	E33
1620373	TPMT2151LF KT315	B268
1620374	CPMT2152LF KT315	B207
1621083	KGMSR3232P50	C144
1621084	KGMSL3232P50	C144
1621085	KGMER3232P50	C145
1621086	KGMEL3232P50	C145
1621087	MS2002	C65–73, C143–151
1623193	CCGT2152HP KC5410	B189
1623194	CCGT3252HP KC5410	B189
1623200	DCGT21505HP KC5410	B224
1623271	DCGT2151HP KC5410	B224
1623272	TCGT21505HP KC5410	B256
1623273	TCGT2151HP KC5410	B256
1623274	TCGT3251HP KC5410	B256
1623275	TCGT3252HP KC5410	B256
1623278	VBGT331HP KC5410	B280
1623279	VBGT332HP KC5410	B280
1624156	CNMG321FF KC5010	B48
1624159	CNMG322FF KC5010	B48
1624223	SNMG321FF KC5010	B101
1624227	SNMG322FF KC5010	B101
1624229	SNMG322FF KT315	B101
1624233	TNMG222FF KC5010	B123
1624424	CNMG321FN KT315	B49
1624431	VNMG331FN KT315	B146
1624432	VNMG332FN KT315	B146
1624878	EBURF1975PKG	K145
1679773	LT11NRA60CB KC5025	D61
1679775	LT11NR075ISOCB KC5025	D64
1679776	LT11NR10ISOCB KC5025	D64
1679777	LT11NR125ISOCB KC5025	D64
1679778	LT11NR15ISOCB KC5025	D64
1679779	LT16ERAG60CB KC5010	D51

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1679780	LT16ERAG60CB KC5025	D51
1690871	LT16ER05ISOCB KC5010	D54
1690872	LT16ER05ISOCB KC5025	D54
1690873	LT16ER075ISOCB KC5010	D54
1690874	LT16ER075ISOCB KC5025	D54
1690875	LT16ER10ISOCB KC5010	D54
1690876	LT16ER10ISOCB KC5025	D54
1690877	LT16ER125ISOCB KC5010	D54
1690878	LT16ER125ISOCB KC5025	D54
1690879	LT16ER15ISOCB KC5010	D54
1690880	LT16ER15ISOCB KC5025	D54
1692101	LT16ER175ISOCB KC5010	D54
1692102	LT16ER175ISOCB KC5025	D54
1692103	LT16ER20ISOCB KC5010	D54
1692109	LT16ER20ISOCB KC5025	D54
1698205	LT16ER25ISOCB KC5025	D54
1698206	LT16ER30ISOCB KC5010	D54
1698207	LT16ER30ISOCB KC5025	D54
1698208	LT16NRAG60CB KC5025	D61
1698209	LT16NRG60CB KC5025	D61
1698210	LT16NR10ISOCB KC5025	D64
1712545	840.142.250	K122–124
1712546	840.142.320	K122–123
1712547	840.142.420	K122–123
1712552	LT16NR15ISOCB KC5025	D64
1712554	LT16NR20ISOCB KC5025	D64
1712555	LT16NR25ISOCB KC5025	D64
1712556	LT11NR16UNCB KC5025	D68
1712557	LT11NR18UNCB KC5025	D68
1712558	LT11NR20UNCB KC5025	D68
1712559	LT11NR24UNCB KC5025	D68
1712561	LT11NR32UNCB KC5025	D68
1712563	LT16ER8UNCB KC5010	D58
1712564	LT16ER8UNCB KC5025	D58
1712566	LT16ER10UNCB KC5025	D58
1712567	LT16ER12UNCB KC5010	D58
1712568	LT16ER12UNCB KC5025	D58
1712569	LT16ER14UNCB KC5010	D58
1712570	LT16ER14UNCB KC5025	D58
1712586	SPHX1205ZCERGP KC520M	S65
1712601	LT16ER16UNCB KC5010	D58
1712602	LT16ER16UNCB KC5025	D58
1712603	LT16ER18UNCB KC5010	D58
1712604	LT16ER18UNCB KC5025	D58
1712605	LT16ER20UNCB KC5010	D58
1712606	LT16ER20UNCB KC5025	D58
1712607	LT16ER24UNCB KC5010	D58
1712608	LT16ER24UNCB KC5025	D58
1712609	LT16ER28UNCB KC5010	D58
1712610	LT16ER28UNCB KC5025	D58
1712611	LT16ER32UNCB KC5010	D58
1712612	LT16ER32UNCB KC5025	D58
1712614	LT16ER11WCB KC5025	D59
1712615	LT16ER14WCB KC5010	D59
1712616	LT16ER14WCB KC5025	D59
1712617	LT16ER14NPTCB KC5010	D55
1712618	LT16ER14NPTCB KC5025	D55
1712620	LT16ER115NPTFCB KC5025	D56
1712661	LT16NR8UNCB KC5025	D68
1712663	LT16NR10UNCB KC5025	D68
1712664	LT16NR12UNCB KC5025	D68
1712665	LT16NR14UNCB KC5025	D68
1712666	LT16NR16UNCB KC5025	D68
1712667	LT16NR18UNCB KC5025	D68
1712668	LT16NR20UNCB KC5025	D68
1712669	LT16NR11WCB KC5025	D69
1712670	LT16NR14WCB KC5025	D69
1712671	LT16NR115NPTCB KC5025	D65
1712672	LT16NR14NPTCB KC5025	D65
1712711	SPHX1205ZCER-GP1W KC520M	S66
1712714	SPHX1205PCERGPB KC520M	S68
1712730	NG2M150LK KC5025	C163
1712734	NG2M150RK KC5025	C162
1712949	SPHX1205PCERGP4SB KC520M	S68
1712981	SPHX1205PCER-GP1WB KC520M	S69
1713203	DFT090508MD KC7140	J101
1713307	RCGT0803M0HP KC5410	B238
1713308	RCGT10T3M0HP KC5410	B238
1713310	RCGT0803M0HP KC5010	B238
1713351	RCGT10T3M0HP KC5010	B238
1713352	RCGT1204M0HP KC5010	B238
1713356	CPGT3252LF KC5010	B206
1713359	VBGT220LF KC5010	B280
1713402	840.142.200	K122–124
1713440	DFT070408MD KC7140	J101
1713512	DFT06T308MD KC7140	J101
1713513	DFT05T308MD KC7140	J101
1713515	DFT030304MD KC7140	J101
1713517	DFT030204MD KC7140	J101
1715069	DFR0500R3SSF075	J14
1715070	DFR0531R3SSF075	J14
1715091	DFR0563R3SSF075	J14
1715092	DFR0594R3SSF075	J14
1715093	DFR0625R3SSF075	J14
1715530	841.142.250	K122–124
1721296	SPHX1205PCELGPB KCK15	S68–69
1723607	NG3094RK KC5010	C162
1723608	SPGT3252LF KC5410	B252
1723693	LT16ER15ISO KC5010	D54
1723694	LT16ER125ISO KC5010	D54
1723695	LT16ER175ISO KC5010	D54
1723696	LT16ER20ISO KC5010	D54
1723697	LT16ER25ISO KC5010	D54
1723698	LT16ER30ISO KC5010	D54
1723726	LT16EL15ISO KC5010	D54
1724012	LT11NR15ISO KC5010	D63
1724013	LT16NR10ISO KC5010	D63
1724014	LT16NR15ISO KC5010	D63
1724031	LT16NR20ISO KC5010	D63
1724040	LT16NR30ISO KC5010	D63
1724291	LT16ER32UN KC5010	D57
1724292	LT16ER28UN KC5010	D57
1724293	LT16ER24UN KC5010	D57
1724294	LT16ER20UN KC5010	D57
1724295	LT16ER18UN KC5010	D57
1724296	LT16ER16UN KC5010	D57
1724297	LT16ER14UN KC5010	D57
1724298	LT16ER12UN KC5010	D57
1724299	LT11NR16UN KC5010	D67
1724300	LT16EL05ISO KC5025	D54
1724331	LT16NR12UN KC5010	D67
1724333	LT16EL075ISO KC5025	D54
1724334	LT16ER20UNJ KC5010	D58
1724335	LT16EL10ISO KC5025	D54
1724337	LT16ER18UNJ KC5010	D58
1724338	LT16ER16UNJ KC5010	D58
1724339	80A08RP90SP12C2WUFP	S67
1724340	LT16ER14UNJ KC5010	D58
1724351	100B12RP90SP12C3WUFP	S67
1724352	LT16EL125ISO KC5025	D54
1724353	125B15RP90SP12C3WUFP	S67
1724354	LT16ER12UNJ KC5010	D58
1724356	LT16ER19W KC5010	D59
1724358	LT16EL15ISO KC5025	D54
1724360	LT16ER14W KC5010	D59
1724372	LT16EL175ISO KC5025	D54
1724373	LT16ER11W KC5010	D59
1724377	LT16EL20ISO KC5025	D54
1724378	50A05RP70SP12CUFP	S64
1724379	63A07RP70SP12CUFP	S64
1724380	80A08RP70SP12C2WUFP	S64
1724391	100B12RP70SP12C3WUFP	S64
1724392	LT16NR11W KC5010	D69
1724394	LT16EL25ISO KC5025	D54
1724395	160B18RP70SP12C3WUFP	S64
1724398	LT16ER18NPT KC5010	D55
1724400	LT16EL30ISO KC5025	D54
1724401	LT16ER14NPT KC5010	D55
1724402	LT16ER115NPT KC5010	D55
1724403	LT11NR14NPT KC5010	D64
1724405	LT16NR115NPT KC5010	D64
1724406	LT16ERA60 KC5010	D51
1724407	50A04RP90SP12CUFP	S67
1724408	LT22EL35ISO KC5025	D54
1724409	63A05RP90SP12CUFP	S67
1724411	LT16ERAG60 KC5010	D51
1724412	LT16ERG60 KC5010	D51
1724414	LT11NRA60 KC5010	D60
1724415	LT16NRA60 KC5010	D60
1724417	80A06RP90SP12C1WUFP	S67
1724418	LT16NRAG60 KC5010	D60
1724419	100B08RP90SP12C2WUFP	S67
1724420	LT16NRG60 KC5010	D60
1724421	125B10RP90SP12C2WUFP	S67
1724424	160B12RP90SP12C3WUFP	S67
1724426	LT16ERAG55 KC5010	D51
1724429	50A04RP70SP12CUFP	S64
1724432	80A06RP70SP12C1WUFP	S64
1724434	160B12RP70SP12C3WUFP	S64
1724437	LT11NL10ISO KC5025	D63
1724439	LT11NL15ISO KC5025	D63
1724494	LT16NL10ISO KC5025	D63
1724495	LT16ER10ISO KC5010	D54
1724497	LT16NL15ISO KC5025	D63
1724499	LT16NL20ISO KC5025	D63
1724524	LT16ER05ISO KC5025	D54
1724525	LT16NL25ISO KC5025	D63
1724526	LT16NL30ISO KC5025	D63
1724527	LT16ER075ISO KC5025	D54
1724562	LT16ER48UN KC5025	D57
1724563	LT16ER40UN KC5025	D57
1724564	LT16ER36UN KC5025	D57
1724565	LT16ER32UN KC5025	D57
1724566	LT16ER28UN KC5025	D57
1724591	S446	S67, S121–122, V58, V70, V77, V83, V149
1724734	LT16ER24UN KC5025	D57
1724735	LT16ER20UN KC5025	D57
1724736	LT16ER18UN KC5025	D57
1724737	LT16ER16UN KC5025	D57
1724738	LT16ER14UN KC5025	D57
1724834	LT16ER12UN KC5025	D57
1724835	LT16ER10UN KC5025	D57
1724836	LT16ER8UN KC5025	D57
1724878	NG3047RK KC5010	C162
1725015	LT16EL28UN KC5025	D57
1725017	LT16EL24UN KC5025	D57
1725018	LT16EL20UN KC5025	D57
1725053	LT16EL18UN KC5025	D57
1725054	LT16EL16UN KC5025	D57
1725055	LT16EL14UN KC5025	D57
1725056	LT16EL12UN KC5025	D57
1725058	LT16EL8UN KC5025	D57
1725060	LT11NR40UN KC5025	D67
1725108	LT16ER10ISO KC5025	D54
1725109	LT16ER125ISO KC5025	D54
1725110	LT16ER15ISO KC5025	D54
1725221	LT16ER175ISO KC5025	D54
1725222	LT16ER20ISO KC5025	D54
1725223	LT16ER25ISO KC5025	D54
1725224	LT16ER30ISO KC5025	D54
1725225	LT22ER35ISO KC5025	D54
1725461	LT22ER40ISO KC5025	D54
1725462	LT22ER45ISO KC5025	D54
1725463	LT22ER50ISO KC5025	D54
1725464	LT11NR05ISO KC5025	D63
1725465	LT11NR075ISO KC5025	D63
1725466	LT11NR10ISO KC5025	D63
1725467	LT11NR125ISO KC5025	D63
1725468	LT11NR15ISO KC5025	D63
1725469	LT11NR175ISO KC5025	D63
1725471	LT11NR20ISO KC5025	D63
1725472	LT16NR05ISO KC5025	D63
1725474	LT16NR075ISO KC5025	D63
1725475	LT16NR10ISO KC5025	D63
1725476	LT16NR125ISO KC5025	D63
1725477	LT16NR15ISO KC5025	D63
1725478	LT16NR175ISO KC5025	D63
1725511	LT16NR20ISO KC5025	D63
1725512	LT16NR25ISO KC5025	D63
1725513	LT16NR30ISO KC5025	D63
1725515	LT22NR35ISO KC5025	D63
1725516	LT22NR40ISO KC5025	D63
1725519	LT22NR45ISO KC5025	D63
1725520	LT22NR50ISO KC5025	D63
1727704	LT16NR8UN KC5025	D67
1729874	KSEM0625R10SS075	H79
1729875	KSEM0634R10SS075	H79
1729876	KSEM0656R10SS075	H79
1729877	KSEM0688R10SS075	H79
1729878	KSEM0719R10SS075	H79
1729879	KSEM0750R10SS075	H79
1729880	KSEM0750R10SS100	H79
1729921	KSEM0759R10SS100	H79
1729922	KSEM0781R10SS100	H79
1729924	KSEM0813R10SS100	H79
1729925	KSEM0844R10SS100	H79
1729926	KSEM0875R10SS100	H79
1729927	KSEM0884R10SS100	H79
1729928	KSEM0906R10SS100	H79
1729929	KSEM0938R10SS100	H79
1729952	KSEM0969R10SS100	H79
1729953	KSEM0984R10SS100	H79
1729954	KSEM1000R10SS100	H79
1729955	KSEM1000R10SS125	H79
1729956	KSEM1011R10SS125	H79
1729957	KSEM1031R10SS125	H80
1729958	KSEM1063R10SS125	H80
1729959	KSEM1094R10SS125	H80
1729960	KSEM1125R10SS125	H80
1730118	KSEM1156R10SS125	H80
1730120	KSEM1188R10SS125	H80
1730124	KSEM1219R10SS125	H80
1730131	KSEM1250R10SS125	H80
1730132	KSEM1250R10SS150	H80
1730321	DFR020204LD KC7140	J97
1732924	MS1944	C38–41, C122–125, C127–128
1743686	LT16EL8APIRD KC5025	D53
1743696	LT16EL16UNJ KC5025	D58
1743701	LT16ELA60 KC5025	D51
1743702	LT16ELAG60 KC5025	D51
1743703	LT16ELG60 KC5025	D51
1743704	LT22ELN60 KC5025	D51
1743706	LT16ELAG55 KC5025	D51
1743715	LT16EL14W KC5025	D59
1743717	LT16EL11W KC5025	D59
1743734	LT16ER32UNJ KC5025	D58
1743735	LT16ER28UNJ KC5025	D58
1743736	LT16ER24UNJ KC5025	D58
1743737	LT16ER20UNJ KC5025	D58
1743738	LT16ER18UNJ KC5025	D58
1743739	LT16ER16UNJ KC5025	D58
1743740	LT16ER14UNJ KC5025	D58
1743741	LT16ER12UNJ KC5025	D58
1743744	LT16ERA60 KC5025	D51
1743745	LT16ERAG60 KC5025	D51
1743746	LT16ERG60 KC5025	D51
1743747	LT22ERN60 KC5025	D51
1743748	LT16ERA55 KC5025	D51
1743749	LT16ERAG55 KC5025	D51
1743750	LT16ERG55 KC5025	D51
1743751	LT22ERN55 KC5025	D51
1743752	LT16ER28W KC5025	D59
1743753	LT16ER24W KC5025	D59
1743754	LT16ER20W KC5025	D59
1743755	LT16ER19W KC5025	D59
1743756	LT16ER18W KC5025	D59
1743757	LT16ER16W KC5025	D59
1743758	LT16ER14W KC5025	D59
1743759	LT16ER12W KC5025	D59
1743760	LT16ER11W KC5025	D59
1743761	LT16ER10W KC5025	D59
1743762	LT16ER9W KC5025	D59
1743763	LT16ER8W KC5025	D59
1743764	LT22ER7W KC5025	D59
1743765	LT22ER6W KC5025	D59
1743767	LT16ER14BSPT KC5025	D53
1743768	LT16ER11BSPT KC5025	D53
1743769	LT16ER27NPT KC5025	D55
1743770	LT16ER18NPT KC5025	D55
1743771	LT16ER14NPT KC5025	D55
1743772	LT16ER115NPT KC5025	D55
1743773	LT16ER8NPT KC5025	D55
1743774	LT16ER14NPTF KC5025	D55
1743775	LT16ER115NPTF KC5025	D55
1743776	LT16ER16ACME KC5025	D52
1743778	LT16ER12ACME KC5025	D52
1743779	LT16ER10ACME KC5025	D52
1743780	LT16ER8ACME KC5025	D52
1743781	LT22ER6ACME KC5025	D52
1743782	LT22ER5ACME KC5025	D52
1743783	LT16ER16STACME KC5025	D56
1743785	LT16ER12STACME KC5025	D56
1743786	LT16ER10STACME KC5025	D56
1743787	LT16ER8STACME KC5025	D56

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1743788	LT16ER6STACME KC5025	D56
1743789	LT22ER5STACME KC5025	D56
1743791	LT16ER2TR KC5025	D57
1743792	LT16ER3TR KC5025	D57
1743793	LT22ER4TR KC5025	D57
1743794	LT22ER5TR KC5025	D57
1743796	LT16ER8RD KC5025	D56
1743797	LT22ER6RD KC5025	D56
1743798	LT16ER10APIRD KC5025	D53
1743799	LT16ER8APIRD KC5025	D53
1743800	LT22ER4API382 KC5025	D52
1743803	LT22ER4API502 KC5025	D52
1743805	LT22ER5BUT75 KC5025	D53
1743810	LT11NL32UN KC5025	D67
1743824	LT16NL16UN KC5025	D67
1743826	LT16NL12UN KC5025	D67
1743827	LT16NL10UN KC5025	D67
1743829	LT11NLA60 KC5025	D60
1743830	LT16NLA60 KC5025	D60
1743831	LT16NLAG60 KC5025	D60
1743832	LT16NLG60 KC5025	D60
1743833	LT22NLN60 KC5025	D60
1743847	LT16NL11W KC5025	D69
1743899	LT11NR32UN KC5025	D67
1743900	LT11NR28UN KC5025	D67
1743901	LT11NR24UN KC5025	D67
1743902	LT11NR20UN KC5025	D67
1743903	LT11NR18UN KC5025	D67
1743904	LT11NR16UN KC5025	D67
1743908	LT16NR32UN KC5025	D67
1743909	LT16NR28UN KC5025	D67
1743910	LT16NR24UN KC5025	D67
1743921	LT16NR20UN KC5025	D67
1743922	LT16NR18UN KC5025	D67
1743923	LT16NR16UN KC5025	D67
1743924	LT16NR14UN KC5025	D67
1743925	LT16NR12UN KC5025	D67
1743926	LT16NR10UN KC5025	D67
1743927	LT11NRA60 KC5025	D60
1743928	LT16NRA60 KC5025	D60
1743929	LT16NRAG60 KC5025	D60
1743930	LT16NRG60 KC5025	D60
1743931	LT22NRN60 KC5025	D60
1743932	LT11NRA55 KC5025	D60
1743933	LT16NRA55 KC5025	D60
1743934	LT16NRAG55 KC5025	D60
1743935	LT16NRG55 KC5025	D60
1743936	LT22NRN55 KC5025	D60
1743937	LT11NR19W KC5025	D69
1743938	LT11NR14W KC5025	D69
1743939	LT16NR20W KC5025	D69
1743940	LT16NR19W KC5025	D69
1743942	LT16NR16W KC5025	D69
1743943	LT16NR14W KC5025	D69
1743944	LT16NR12W KC5025	D69
1743945	LT16NR11W KC5025	D69
1743946	LT16NR10W KC5025	D69
1743948	LT16NR8W KC5025	D69
1743949	LT22NR7W KC5025	D69
1743962	LT11NR14BSPT KC5025	D62
1743963	LT16NR14BSPT KC5025	D62
1743964	LT16NR11BSPT KC5025	D62
1743966	LT11NR18NPT KC5025	D64
1743967	LT11NR14NPT KC5025	D64
1743970	LT16NR14NPT KC5025	D64
1743971	LT16NR11SNPT KC5025	D64
1743972	LT16NR8NPT KC5025	D64
1743973	LT11NR14NPTF KC5025	D65
1743974	LT16NR14NPTF KC5025	D65
1743978	LT16NR12ACME KC5025	D61
1743979	LT16NR10ACME KC5025	D61
1743980	LT16NR8ACME KC5025	D61
1743981	LT22NR6ACME KC5025	D61
1743982	LT22NR5ACME KC5025	D61
1743983	LT16NR16STACME KC5025	D66
1743984	LT16NR14STACME KC5025	D66
1743985	LT16NR12STACME KC5025	D66
1743986	LT16NR10STACME KC5025	D66
1743987	LT16NR8STACME KC5025	D66
1743988	LT16NR6STACME KC5025	D66
1743991	LT16NR2TR KC5025	D66
1743992	LT16NR3TR KC5025	D66
1743993	LT22NR4TR KC5025	D66
1743994	LT22NR5TR KC5025	D66
1743996	LT16NR8RD KC5025	D65
1743997	LT22NR6RD KC5025	D65
1743998	LT16NR10APIRD KC5025	D62
1743999	LT16NR8APIRD KC5025	D62
1744000	LT22NR4API382 KC5025	D62
1744002	LT22NR5API403 KC5025	D62
1744003	LT22NR4API502 KC5025	D62
1744005	LT22NR5BUT75 KC5025	D63
1744006	LT22NR5BUT1 KC5025	D63
1744444	KUAM33	B119, B142, C196, D41
1744665	NG3094R KC5010	C170
1745243	193.326	S123
1746442	CTFPR12CA3	B186, B397
1747635	DCGT21505HP KC5010	B224
1748698	NG3062RK KC5010	C162
1749102	KSEM321R3WD50M	H74
1749103	KSEM330R3WD50M	H74
1749106	KSEM340R3WD50M	H74
1749109	KSEM350R3WD50M	H74
1749110	KSEM360R3WD50M	H74
1749131	KSEM361R3WD50M	H74
1749132	KSEM370R3WD50M	H74
1749133	KSEM380R3WD50M	H74
1749207	CV50RMHTS27M394	J90
1749208	CV50RMHTS32M394	J90
1749210	CV50RMHTS40M413	J90
1749263	CV50BHTS13M295	J90
1749264	CV50BHTS16M295	J90
1749266	CV50BHTS22M295	J90
1749273	CV50RMHTS50M413	J90
1749281	BT50BHTS22075M	J91
1749285	BT50BHTS32080M	J91
1749286	BT50BHTS40080M	J91
1749287	BT50BHTS50080M	J91
1749428	CV50BHTS27M295	J90
1749429	CV50BHTS32M314	J90
1749430	CV50BHTS40M314	J90
1749461	CV50BHTS50M314	J90
1749491	CV50RMHTS13M394	J90
1749492	CV50RMHTS16M394	J90
1749493	CV50RMHTS22M394	J90
1749607	KSEM390R3WD50M	H74
1749610	KSEM400R3WD50M	H74
1749648	DFR020204GD KC7140	J97
1749718	420.060	S121–123
1750433	B411A07700 KF1	G94
1753934	B411A08700 KF1	G95
1754251	DFR165R2WD32M	J10
1756488	MSSNR246D	B113
1756489	MSSNL246D	B113
1756550	KM63XMZKGMSR50Y	C148
1756574	KM63XMZKGMSLF50Y	C148
1762261	B411A05600 KF1	G94
1762299	NG3062LK KC5010	C163
1762381	NG3125RK KC5010	C162
1763116	HSK63ASVS4B139M	K84
1763118	HSK63ASVS5B139M	K84
1763375	KM50SVS4B125M	K84
1763376	KM63SVS4B110M	K84
1763378	KM50SVS5B125M	K84
1763379	KM63SVS5B110M	K84
1763382	KM80SVS6B150M	K84
1764146	NG4250LK KC5010	C164
1764148	NG4250LK KC5025	C164
1764575	NTP3L KC5010	D22
1764576	NTP3L KC5025	D22
1765641	NTC3R8E KC5010	D20
1765732	NTC3R8E KC5025	D20
1765733	NTC3R12E KC5010	D20
1765734	NTC3R12E KC5025	D20
1770917	NT3LCK KC5010	D19
1770928	KBFI14	I15
1770929	KBFI17	I15
1771602	NG3125RK KT315	C162
1771940	SDACR083D	B227
1771941	SDACL083D	B227
1771942	SDPCN062D	B229
1772113	SDPCN082D	B229
1772114	SDPCN083D	B229
1772115	SDPCN103B	B229
1772116	STACR062D	B259
1772118	STACR082D	B259
1772122	STACR103B	B259
1772124	STJCRF062D	B261
1772126	STJCRF082D	B261
1772128	STJCRF102B	B261
1772144	SWLCRF082D	B287
1772747	KSEM125R5WN16M	H73
1772748	KSEM140R5WN16M	H73
1772749	KSEM150R5WN20M	H73
1773924	360.637	I26, I29
1774499	KSEM125R3WN16M	H73
1775033	NG3125RK KC5025	C162
1775034	NG3125LK KC5010	C164
1775035	NG3125LK KC5025	C164
1775036	NG3047RK KC5025	C162
1775037	NG3062RK KC5025	C162
1775478	CM72LP	C182–184, C186–189, C191–192, C194–196, D26–30, D35, D38, D41
1775479	CM73LP	C182–184, C186–189, C191–192, C194–195, D26–30, D35, D37–38
1775726	KIPR125RP43555	V156
1775728	KIPR150RP43655	V156
1776260	ODG5197ISGB KC735M	U10
1776261	ODG6236ISGB KC735M	U10
1777860	CNMG432MP KC5025	B51
1779085	KHSST09608	M36
1779088	KHSST09609	M36
1779090	KHSST09611	M36
1779105	KHSST09615	M36
1781755	TK01338D	E60
1781756	TK01339D	E60
1782505	VPGR3305 KC5410	E38
1782830	VPGP443K KC5410	B145
1782831	TPGT18151LF KC5410	B267
1782896	RCMT43 KC5010	B240
1782902	CNMG431FW KT315	B49
1783133	CNMG432FW KT315	B49
1783134	CNMG433FW KT315	B49
1783135	DNMG331FW KT315	B80
1783136	DNMG332FW KT315	B80
1783137	DNMG431FW KT315	B80
1783138	DNMG432FW KT315	B80
1783141	WNMG331FW KT315	B158
1783142	WNMG332FW KT315	B158
1783143	WNMG431FW KT315	B158
1783144	WNMG432FW KT315	B158
1783152	CNMG431FW KC5010	B49
1783233	CNMG432FW KC5010	B49
1783234	CNMG433FW KC5010	B49
1783237	DNMG431FW KC5010	B80
1783273	WNMG332FW KC5010	B158
1783275	WNMG432FW KC5010	B158
1785086	NG2M300RK KC5025	C162
1785245	KSEM0500R3SSF075	H82
1785246	KSEM0509R3SSF075	H82
1785247	KSEM0516R3SSF075	H82
1785248	KSEM0531R3SSF075	H82
1785249	KSEM0547R3SSF075	H82
1785250	KSEM0563R3SSF075	H82
1785251	KSEM0578R3SSF075	H82
1785252	KSEM0594R3SSF075	H82
1785283	KSEM0609R3SSF075	H82
1785284	KSEM0500R5SSF075	H82
1785285	KSEM0509R5SSF075	H82
1785286	KSEM0516R5SSF075	H82
1785287	KSEM0531R5SSF075	H82
1785288	KSEM0547R5SSF075	H82
1785289	KSEM0563R5SSF075	H82
1785290	KSEM0578R5SSF075	H82
1785291	KSEM0594R5SSF075	H82
1785292	KSEM0609R5SSF075	H82
1785474	DCGT2151HP KC5010	B224
1785475	DCGT2152HP KC5010	B224
1785477	CCGT2152HP KC5010	B189
1785478	CPGT2152HP KC5010	B205
1785479	CCGT3252HP KC5010	B189
1785480	CPGT3252HP KC5010	B205
1785481	TCGT2152HP KC5010	B256
1785482	TPGT2152HP KC5010	B267
1785501	NG2M300LK KC5025	C163
1785713	VBGT331HP KC5010	B280
1785714	VBGT332HP KC5010	B280
1785715	CNGP430 KC5410	B46
1785716	CNGP4305 KC5410	B46
1785717	CNGP431 KC5410	B46
1785718	CNGP432 KC5410	B46
1785719	CNGP433 KC5410	B46
1785733	DNGP431 KC5410	B77
1785734	DNGP432 KC5410	B77
1785735	DNGP441 KC5410	B77
1785740	TNGP331 KC5410	B121
1785741	TNGP332 KC5410	B121
1785746	VNGP330 KC5410	B144
1785747	VNGP3305 KC5410	B144
1785748	CPGT21505HP KC5410	B205
1785749	CPGT2151HP KC5410	B205
1785750	CPGT2152HP KC5410	B205
1785752	CPGT3252HP KC5410	B205
1785753	DCGT2152HP KC5410	B224
1785756	TPGT2152HP KC5410	B267
1786055	KSEM0500R5SS050	H77
1786056	KSEM0500R5SS075	H77
1786058	KSEM0509R5SS075	H77
1786059	KSEM0516R5SS075	H77
1786060	KSEM0531R5SS075	H77
1786061	KSEM0547R5SS075	H77
1786062	KSEM0563R5SS075	H77
1786094	KSEM0578R5SS075	H77
1786095	KSEM0594R5SS075	H77
1786097	KSEM0609R5SS075	H77
1787513	WNGX453T0820 KY3500	B319
1791528	410.084	E18–19, E21, E23, S70
1792224	KSEM0625R1SSF075	H81
1792225	KSEM0709R1SSF075	H81
1792226	KSEM0788R1SSF100	H81
1792227	KSEM0867R1SSF100	H81
1792228	KSEM0945R1SSF100	H81
1792229	KSEM1024R1SSF125	H81
1792230	KSEM1103R1SSF125	H81
1792231	KSEM1182R1SSF125	H81
1792232	KSEM1260R1SSF125	H81
1792253	KSEM1418R1SSF125	H81
1792254	KSEM0493R1SSF075	H81
1792255	KSEM0532R1SSF075	H81
1792256	KSEM0571R1SSF075	H81
1792258	KSEM125R1WN16M	H72
1792259	KSEM136R1WN16M	H72
1792260	KSEM146R1WN20M	H72
1792262	KSEM130R3WN16M	H73
1792293	KSEM135R3WN16M	H73
1792294	KSEM136R3WN16M	H73
1792295	KSEM140R3WN16M	H73
1792296	KSEM145R3WN20M	H73
1792297	KSEM146R3WN20M	H73
1792298	KSEM150R3WN20M	H73
1792299	KSEM155R3WN20M	H73
1792301	KSEM130R5WN16M	H73
1792302	KSEM136R5WN16M	H73
1792323	KSEM135R5WN16M	H73
1792325	KSEM145R5WN20M	H73
1792326	KSEM146R5WN20M	H73
1792328	KSEM155R5WN20M	H73
1792632	NR3047RK KC5010	C166
1792683	NR3047RK KC5025	C166
1792684	NR3062RK KC5010	C166
1792685	NR3062RK KC5025	C166
1793315	NG3110R KC5025	C170
1794406	NG3M225RK KC5025	C162
1794630	BGHX15L5PCFRGG K110M	S124
1794631	BGHX15L5PCFRGG KC510M	S124
1794653	BGHX15L5PCTRGG K110M	S124
1794655	BGHX15L5PCTRGG KC510M	S124
1795485	BGHX15L5PCERGGT KD1410	S124
1795486	BGHX15L5PCERGGT KD1415	S124
1795785	NT2RK KC5025	D22
1795786	NT2LK KC5025	D22
1795787	NT3RK KC5025	D22
1795788	NT3LK KC5025	D22

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1795789	NT4RK KC5025	D22
1795790	NT4LK KC5025	D22
1795791	NTF2R KC5025	D21
1795792	NTF2L KC5025	D21
1795793	NTF3R KC5025	D21
1795794	NTF3L KC5025	D21
1795795	NTK2R KC5025	D21
1795796	NTK2L KC5025	D21
1795797	NJP3014R12 KC5025	D16
1795799	NJP3010R16 KC5025	D16
1795800	NJP3010L16 KC5025	D16
1795801	NA3R4 KC5025	D11
1795802	NA3L4 KC5025	D11
1795809	364.016	H72–73, H75, H81–82, H85–86, H122
1795810	364.017	H72–73, H75, H81–82, H85–86
1795811	170.289	H72, H81, H86, H88
1795956	170.290	H88
1795960	170.291	H88
1796047	NT2L KC5010	D17
1796048	NT2L KC5025	D17
1796049	NT2R KC5010	D17
1796050	NT2R KC5025	D17
1796051	NT3R KC5010	D17
1796052	NT3R KC5025	D17
1796083	NT3L KC5010	D17
1796084	NT3L KC5025	D17
1796085	NT4L KC5010	D17
1796086	NT4L KC5025	D17
1796087	NT4R KC5010	D17
1796088	NT4R KC5025	D17
1796090	NTP2R KC5010	D22
1796091	NTP2R KC5025	D22
1796103	NTP2L KC5010	D22
1796104	NTP2L KC5025	D22
1796105	NTP3R KC5010	D22
1796106	NTP3R KC5025	D22
1796107	NTP3R KC5410	D22
1796109	NTP4R KC5010	D22
1796110	NTP4R KC5025	D22
1796112	NTP4L KC5010	D22
1796113	NTP4L KC5025	D22
1796115	NT2RK KC5010	D22
1796116	NT2LK KC5010	D22
1796117	NT3RK KC5010	D22
1796118	NT3LK KC5010	D22
1796119	NT4RK KC5010	D22
1796120	NT4LK KC5010	D22
1796121	NT3RCK KC5010	D19
1796122	NT3RCK KC5025	D19
1796133	NT3LCK KC5025	D19
1796134	NT4RCK KC5010	D19
1796135	NT4RCK KC5025	D19
1796137	NT4LCK KC5025	D19
1796138	NTF2R KC5010	D21
1796139	NTF2L KC5010	D21
1796140	NTF3R KC5010	D21
1796141	NTF3L KC5010	D21
1796153	NTF4R KC5025	D21
1796156	NTK2R KC5010	D21
1796157	NTK2L KC5010	D21
1796158	NTK3R KC5010	D21
1796159	NTK3R KC5025	D21
1796160	NTK3L KC5010	D21
1796161	NTK3L KC5025	D21
1796176	NJP3020R8 KC5010	D16
1796177	NJP3020R8 KC5025	D16
1796179	NJP3020L8 KC5025	D16
1796180	NJP3014R12 KC5010	D16
1796181	NJP3014L12 KC5010	D16
1796182	NJP3010R16 KC5010	D16
1796194	NJF3012R14 KC5010	D15
1796195	NJF3012R14 KC5025	D15
1796198	NJF3010R16 KC5010	D15
1796199	NJF3010R16 KC5025	D15
1796200	NJF3010L16 KC5010	D15
1796202	NJF3009R18 KC5010	D15
1796203	NJF3009R18 KC5025	D15
1796331	NJF3008R20 KC5010	D15
1796332	NJF3008R20 KC5025	D15
1796393	NJF3008L20 KC5010	D15
1796395	NJF3007R24 KC5010	D15
1796396	NJF3007R24 KC5025	D15
1796397	NJF3007L24 KC5010	D15
1796399	NJF3006R28 KC5010	D15
1796400	NJF3006R28 KC5025	D15
1796403	NJF3005R32 KC5010	D15
1796407	NJK3012R14 KC5010	D16
1796408	NJK3012R14 KC5025	D16
1796411	NJK3010R16 KC5010	D16
1796412	NJK3010R16 KC5025	D16
1796425	NJK3009R18 KC5010	D16
1796426	NJK3009R18 KC5025	D16
1796429	NJK3008R20 KC5010	D16
1796430	NJK3008R20 KC5025	D16
1796443	NJK3007R24 KC5010	D16
1796446	NJK3007R24 KC5025	D16
1796449	NJK3006R28 KC5010	D16
1796452	NJK3006L28 KC5025	D16
1796473	NJK3005R32 KC5010	D16
1796474	NJK3005R32 KC5025	D16
1796476	NJK3005L32 KC5025	D16
1796497	NA3R12 KC5025	D11
1796499	NA3L12 KC5010	D11
1796500	NA3L12 KC5025	D11
1796501	NA3R10 KC5010	D11
1796502	NA3R10 KC5025	D11
1796504	NA3L10 KC5025	D11
1796505	NA3R8 KC5010	D11
1796506	NA3R8 KC5025	D11
1796507	NA3L8 KC5010	D11
1796508	NA3L8 KC5025	D11
1796509	NA3R6 KC5010	D11
1796510	NA3R6 KC5025	D11
1796511	NA3L6 KC5010	D11
1796512	NA3L6 KC5025	D11
1796514	NA3R5 KC5010	D11
1796515	NA3R5 KC5025	D11
1796516	NA3L5 KC5010	D11
1796517	NA3L5 KC5025	D11
1796518	NA3R4 KC5010	D11
1796519	NA3L4 KC5010	D11
1796520	NAS3R16 KC5025	D12
1796524	NAS3R12 KC5025	D12
1796525	NAS3L12 KC5025	D12
1796526	NAS3R10 KC5010	D12
1796527	NAS3R10 KC5025	D12
1796529	NAS3L10 KC5025	D12
1796530	NAS3R8 KC5010	D12
1796531	NAS3R8 KC5025	D12
1796532	NAS3L8 KC5010	D12
1796543	NAS3L8 KC5025	D12
1796544	NAS3R6 KC5010	D12
1796545	NAS3R6 KC5025	D12
1796546	NAS3L6 KC5010	D12
1796547	NAS3L6 KC5025	D12
1796549	NAS3R5 KC5025	D12
1796551	NAS3L5 KC5025	D12
1796552	NJ3020R8 KC5010	D15
1796553	NJ3020R8 KC5025	D15
1796555	NJ3020L8 KC5025	D15
1796556	NJ3014R12 KC5010	D15
1796557	NJ3014R12 KC5025	D15
1796558	NJ3014L12 KC5010	D15
1796559	NJ3014L12 KC5025	D15
1796561	NJ3010R16 KC5025	D15
1796583	NJ3010L16 KC5025	D15
1796705	470.232	S32
1797157	KSEM125R7WN16M	H75
1797158	KSEM130R7WN16M	H75
1797159	KSEM135R7WN16M	H75
1797160	KSEM136R7WN16M	H75
1797161	KSEM140R7WN16M	H75
1797162	KSEM145R7WN20M	H75
1797203	KSEM146R7WN20M	H75
1797204	KSEM150R7WN20M	H75
1797205	KSEM155R7WN20M	H75
1797206	KSEM125R10WN16M	H75
1797207	KSEM130R10WN16M	H75
1797208	KSEM135R10WN16M	H75
1797209	KSEM136R10WN16M	H75
1797210	KSEM140R10WN16M	H75
1797211	KSEM145R10WN20M	H75
1797212	KSEM146R10WN20M	H75
1797233	KSEM150R10WN20M	H75
1797234	KSEM155R10WN20M	H75
1797235	SCFPR10CA09	B217
1798189	KSEM0500R7SS050	H79
1798190	KSEM0500R7SS075	H79
1798191	KSEM0509R7SS075	H79
1798192	KSEM0516R7SS075	H79
1798203	KSEM0531R7SS075	H79
1798204	KSEM0547R7SS075	H79
1798205	KSEM0563R7SS075	H79
1798206	KSEM0578R7SS075	H79
1798207	KSEM0594R7SS075	H79
1798208	KSEM0609R7SS075	H79
1798211	KSEM0500R10SS075	H79
1798212	KSEM0509R10SS075	H79
1798228	KSEM0516R10SS075	H79
1798231	KSEM0531R10SS075	H79
1798243	KSEM0547R10SS075	H79
1798244	KSEM0563R10SS075	H79
1798248	KSEM0578R10SS075	H79
1798249	KSEM0594R10SS075	H79
1798250	KSEM0609R10SS075	H79
1798962	DFR170R3WD32M	J11
1799053	DFR180R3WD32M	J11
1799055	DFR200R3WD32M	J11
1799056	DFR210R3WD25M	J11
1799059	DFR220R3WD25M	J11
1799238	NT1L KC5010	D23
1799239	NT1L KC5025	D23
1799241	NTC3R7E KC5025	D20
1799363	NTC3L8E KC5010	D20
1799366	NTC3L8I KC5025	D18
1799369	NTC3R10E KC5010	D20
1799370	NTC3R10E KC5025	D20
1799384	NTC3L10I KC5025	D18
1799386	NTC3R11E KC5025	D20
1799389	NTC3R12I KC5025	D18
1799390	NTC3L12I KC5025	D18
1799391	NTC3R13E KC5010	D20
1799392	NTC3R13E KC5025	D20
1799393	NTC3R14E KC5010	D20
1799394	NTC3R14E KC5025	D20
1799398	NTC3L14I KC5025	D18
1799399	NTC3R16E KC5010	D20
1799400	NTC3R16E KC5025	D20
1799404	NTC3L16I KC5025	D18
1799405	NTC3R18E KC5010	D20
1799406	NTC3R18E KC5025	D20
1799409	NTC3R20E KC5010	D20
1799410	NTC3R20E KC5025	D20
1799413	NTC3R24E KC5010	D20
1799414	NTC3R24E KC5025	D20
1799416	NTC3R28E KC5025	D20
1799418	NTC3R32E KC5025	D20
1799439	NA4R6 KC5025	D11
1799441	NA4L6 KC5025	D11
1799443	NA4R5 KC5025	D11
1799445	NA4L5 KC5025	D11
1799446	NA4R4 KC5010	D11
1799447	NA4R4 KC5025	D11
1799449	NA4L4 KC5025	D11
1799450	NA6R2 KC5010	D11
1799451	NA6R2 KC5025	D11
1799452	NA6L2 KC5010	D11
1799463	NA6L2 KC5025	D11
1799465	NA6R25 KC5025	D11
1799469	NA6R3 KC5025	D11
1799471	NA6L3 KC5025	D11
1799483	NDC38VR75 KC5010	D14
1799484	NDC38VL75 KC5010	D14
1799485	NDC3115VR75 KC5010	D14
1799486	NDC3115VL75 KC5010	D14
1799490	NDC88VR75M KC5010	D14
1799491	NDC88VL75M KC5010	D14
1799497	NTU4R KC5025	D22
1799500	NWC3R11E KC5010	D23
1799501	NWC3R11E KC5025	D23
1799502	NWC3L11I KC5025	D23
1799503	NWC3R14E KC5010	D23
1799507	ND3040R KC5025	D12
1799511	ND3038R KC5025	D12
1799513	ND3038L KC5025	D12
1799521	NDC3040R3 KC5025	D13
1799522	NDC3040L3 KC5010	D13
1799525	NDC4038R2 KC5025	D13
1799527	NDC4038L2 KC5025	D13
1799529	NDC4040R3 KC5025	D13
1799553	NDC4050R2 KC5025	D13
1799555	NDC4050L2 KC5025	D13
1799557	NDC4050R3 KC5025	D13
1799560	NDC38RDR75 KC5010	D13
1799561	NDC38RDR75 KC5025	D13
1799562	NDC38RDL75 KC5010	D13
1799563	NDC38RDL75 KC5025	D13
1799565	NDC310RDR75 KC5025	D13
1799567	NDC310RDL75 KC5025	D13
1799576	NTB3RA KC5025	D17
1799577	NTB3LA KC5010	D17
1799578	NTB3LA KC5025	D17
1799583	NTB2RB KC5010	D18
1799585	NTB2LB KC5010	D18
1799587	NTB3RB KC5010	D18
1799588	NTB3RB KC5025	D18
1799589	NTB3LB KC5010	D18
1799591	NTB3LB KC5025	D18
1799603	NTB4RB KC5010	D18
1799604	NTB4RB KC5025	D18
1799605	NTB4LB KC5010	D18
1799606	NTB4LB KC5025	D18
1799693	DFR190R2WD32M	J10
1799695	DFR220R3WD32M	J11
1801017	NG3M400LK KC5025	C164
1801125	3.41020R900STF CS5	I17
1801126	3.41220R900STF CS5	I17
1801129	3.41220R900SF KMF	I17
1801533	SSF200HTS130239	J89
1801534	SSF200HTS130664	J89
1801535	SSF200HTS131114	J89
1801536	SSF200HTS131764	J89
1801537	SSF200HTS160239	J89
1801538	SSF200HTS160714	J89
1801539	SSF200HTS161214	J89
1801540	SSF200HTS161964	J89
1801541	SSF200HTS220297	J89
1801542	SSF200HTS220922	J89
1801553	SSF200HTS221572	J89
1801554	SSF200HTS222572	J89
1801555	SSF200HTS270297	J89
1801556	SSF200HTS271122	J89
1801558	SSF200HTS271922	J89
1801559	SSF200HTS273122	J89
1801560	SSF200HTS320305	J89
1801561	SSF200HTS320805	J89
1801562	SSF200HTS321305	J89
1801573	SSF200HTS321805	J89
1801574	SSF250HTS400355	J89
1801575	SSF250HTS401055	J89
1801576	SSF250HTS401555	J89
1801577	SSF250HTS402555	J89
1801578	SSF300HTS500413	J89
1801579	SSF300HTS501313	J89
1801580	SSF300HTS502113	J89
1801581	SSF300HTS503113	J89
1801779	NR3031R KC5010	C172
1801793	NG3047R KC5010	C170
1802547	CCMT3251MW KT315	B192
1802549	CCMT3252MW KT315	B192
1802551	WNGG432LF KC5010	B156
1802564	CCMT3251MW KC5010	B192
1802566	CCMT3252MW KC5010	B192
1802567	CPMT3252MW KC5010	B208
1802568	CCMT431MW KC5010	B192
1802569	CCMT432MW KC5010	B192
1802813	CCMT21505FW KT315	B190
1802843	CPMT21505FW KT315	B206
1802844	CCMT2151FW KT315	B190
1802845	CPMT2151FW KT315	B206
1802846	CCMT2152FW KT315	B190
1802971	CPMT2152FW KT315	B206
1802983	CCMT3251FW KT315	B190
1802984	CPMT3251FW KT315	B206
1802986	CCMT3252FW KT315	B190
1802991	CPMT3252FW KT315	B206

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1802992	CCMT21505FW KC5010	B190
1803013	CPMT21505FW KC5010	B206
1803014	CCMT2151FW KC5010	B190
1803015	CPMT2151FW KC5010	B206
1803016	CCMT2152FW KC5010	B190
1803018	CPMT2152FW KC5010	B206
1803020	CCMT3251FW KC5010	B190
1803021	CPMT3251FW KC5010	B206
1803022	CCMT3252FW KC5010	B190
1803023	CPMT3252FW KC5010	B206
1803174	40A02RP90BG15CUPM	S122
1803175	50A03RP90BG15CUPM	S122
1803177	63A04RP90BG15C1WUPM	S122
1803178	80A05RP90BG15C1WUPM	S122
1803179	100B06RP90BG15C2WUPM	S122
1803284	NTC3MR150E KC5010	D19
1803285	NTC3MR150E KC5025	D19
1803292	NTC3MR200E KC5010	D19
1803924	NG2062L KC5025	C170
1804265	SPHX1205ZCELGP KC520M	S65
1804638	NG2062L KC5010	C170
1804784	DFT05T308HP KMF	J101
1804785	DFT06T308HP KMF	J101
1804790	DFT070408HP KMF	J101
1804791	DFT090508HP KMF	J101
1804829	DFT05T308HP KC7140	J101
1804830	DFT06T308HP KC7140	J101
1804832	DFT070408HP KC7140	J101
1805013	DFT090508HP KC7140	J101
1805715	80A06RP90BG15C2WUPM	S122
1805716	100B08RP90BG15C2WUPM	S122
1805720	63A04RP90BG15C4WUHPM	S123
1805745	80A05RP90BG15C5WUHPM	S123
1806435	DFR030204GD KC7140	J97
1806437	DFR040304GD KC7140	J97
1806465	125B08RP90BG15C2WUPM	S122
1806466	160B10RP90BG15C2WUPM	S122
1806847	125B08RP70SP15C2WUFP	S70
1806848	160B10RP70SP15C2WUFP	S70
1806927	360.650	I25, I29
1806928	360.651	I25, I29
1806929	360.652	I25, I29
1806930	360.653	I25, I29
1806943	360.654	I25, I29
1806945	360.655	I25, I29
1807220	CCGT3251LF KC5410	B189
1808097	H20MCFNR4	B75
1808100	H24MCFNR4	B75
1808102	H32MCFNR5	B75
1808109	A16TMCFNL4	B69
1808110	A16MCFNR4	B69
1808112	A20MCFNR4	B69
1808120	MCHNN164C	B61
1808121	MCHNN205D	B61
1808122	MCHNN246D	B61
1808134	MCKNL165D	B62
1808135	MCKNL205D	B62
1808138	MCKNR205D	B62
1808140	MCKNR246D	B62
1808143	MCLNL124A	B63
1808144	MCLNL166C	B63
1808145	MCLNL245D	B64
1808146	MCLNL248E	B64
1808147	MCLNL326F	B64
1808149	MCLNR124A	B63
1808150	MCLNR166C	B63
1808151	MCLNR245D	B63
1808152	MCLNR248E	B63
1808153	MCLNR326F	B63
1808156	MCMNN246D	B64
1808157	MCMNN246E	B64
1808160	MCRNL205D	B65
1808162	MCRNL246D	B65
1808163	MCRNR205D	B65
1808165	MCRNR246D	B65
1808167	MDJNL124A	B89
1808168	MDJNL245E	B89
1808169	MDJNR124A	B89
1808170	MDJNR245E	B89
1808175	MRGNL246D	B98
1808176	MRGNL248E	B98
1808177	MRGNR246D	B98
1808179	MRGNR248E	B98
1808182	MSDNN206	B111
1808183	MSDNN246	B111
1808185	MSKNL205D	B111
1808186	MSKNL206D	B111
1808187	MSKNL246D	B111
1808189	MSKNR205D	B111
1808190	MSKNR206D	B111
1808191	MSKNR248	B111
1808194	MSRNL165C	B112
1808195	MSRNL854D	B112
1808196	MSRNR165C	B112
1808197	MSRNR248	B112
1808198	MSRNR328	B112
1808203	A20MDPNL4	B92
1808204	A20MDPNR4	B92
1808205	A24MCFNL4	B69
1808206	A24MCFNR4	B69
1808207	A24MDPNL4	B92
1808208	A24MDPNR4	B92
1808212	A32MCKNR4	B70
1808225	A32MVUNL4	B154
1808226	A32MVUNR4	B154
1808227	A40VMCLNL5	B71
1808228	A40VMCLNR5	B71
1808229	A40MVUNL4	B154
1808230	A40MVUNR4	B154
1808338	MSSNL165D	B113
1808339	MSSNL205D	B113
1808341	MSSNL854D	B113
1808384	MSSNR165D	B113
1808445	MSSNR205D	B113
1808448	MSSNR854D	B113
1808452	MTANLS123	B133
1808487	NG2031RK KC5010	C162
1808488	NG4189RK KC5010	C163
1808491	NR3047LK KC5025	C166
1808493	MTANLS163	B133
1808494	MTANLS164	B133
1808495	MTANLS205	B133
1808498	MTANRS123	B133
1808499	MTANRS163	B133
1808500	MTANRS164	B133
1808501	MTANRS205	B133
1808504	MTENNS854	B134
1808506	MTFNLS164	B135
1808512	MTFNRS164	B135
1808515	MTGNR165C	B135
1808516	MTJNLS246	B137
1808518	MTJNRS246	B137
1808522	MTJNRS864	B137
1808531	H40MCFNR6	B75
1808532	SRACR164D	B243
1808533	SRACL164D	B243
1808534	SRACR204D	B243
1808535	SRACL204D	B243
1808536	SRACR163D	B243
1808538	SRACR162D	B243
1808539	SRACL162D	B243
1808540	SRACR203D	B243
1808541	SRACL203D	B243
1808542	SRACR202D	B243
1808543	SRACL202D	B243
1808550	MVJNL123A	B152
1808554	MVVNN244E	B153
1808555	MVUNR244D	B153
1808556	MVUNR204D	B153
1808557	MVUNL204D	B153
1808563	MVJNR243D	B152
1808583	NGD3125RK KC5025	C165
1809057	HSK100AHTS40085M	J92
1809059	HSK100AHTS50090M	J92
1810334	DFR170R2WD32M	J10
1810335	DFR175R2WD32M	J10
1810336	DFR180R2WD32M	J10
1810337	DFR185R2WD32M	J10
1810338	DFR195R2WD32M	J10
1810339	DFR200R2WD32M	J10
1810340	DFR205R2WD32M	J10
1810341	DFR210R2WD32M	J10
1810342	DFR220R2WD32M	J10
1810363	DFR230R2WD32M	J10
1810364	DFR240R2WD32M	J10
1810365	DFR165R3WD32M	J11
1810366	DFR175R3WD32M	J11
1810367	DFR185R3WD32M	J11
1810368	DFR190R3WD32M	J11
1810369	DFR195R3WD32M	J11
1810370	DFR205R3WD32M	J11
1810371	DFR210R3WD32M	J11
1810372	DFR230R3WD32M	J11
1810373	DFR240R3WD32M	J11
1816891	LT11NR14UNJ KC5025	D68
1816983	LT11NR16UNJ KC5025	D68
1816990	LT11NR18UNJ KC5025	D68
1817050	LT16NR16UNJ KC5025	D68
1817054	LT16NR12UNJ KC5025	D68
1817487	LT22ER5API403 KC5010	D52
1817512	LT22ER4API502 KC5010	D52
1817533	LT22ER4API503 KC5010	D52
1817570	NF3125LK KC5025	C173
1817571	NF3125RK KC5025	C173
1817572	CNMG431FP KC5010	B49
1817588	NFD3125LK KC5025	C174
1817614	CNMG432FP KC5010	B49
1817616	DNMG331FP KC5010	B80
1817617	DNMG332FP KC5010	B80
1817618	NG3189RK KC5025	C163
1817619	NG3M100LK KC5025	C163
1817620	NG3M100RK KC5025	C162
1817623	NG3M120LK KC5025	C163
1817626	NG3M120RK KC5025	C162
1817627	NG3M150LK KC5025	C163
1817629	NG3M150RK KC5025	C162
1817630	NG3M175LK KC5025	C163
1817631	NG3M175RK KC5025	C162
1817632	NG3M200LK KC5025	C163
1817635	NG3M200RK KC5025	C162
1817636	NG3M220LK KC5025	C164
1817637	NG3M220RK KC5025	C162
1817640	NG3M225RK KC5010	C162
1817658	NFD3125RK KC5025	C174
1817659	NFD3125RKI KC5025	C174
1817662	NFD4189LK KC5025	C174
1817675	NG3M250LK KC5025	C164
1817676	NG3M250RK KC5025	C162
1817678	NG3M275LK KC5025	C164
1817679	NG3M275RK KC5010	C162
1817680	NG3M275RK KC5025	C162
1817681	NG3M300LK KC5010	C164
1817682	NG3M300LK KC5025	C164
1817699	NG1047L KC5025	C170
1817700	NG1062L KC5025	C170
1817702	NG1094L KC5025	C170
1817703	NG3M300RK KC5010	C162
1817704	NG3M300RK KC5025	C162
1817705	NG3M320LK KC5025	C164
1817706	NG3M320RK KC5025	C162
1817707	NG3M325LK KC5025	C164
1817708	NG3M325RK KC5025	C162
1817709	NG3M350LK KC5025	C164
1817710	NG3M350RK KC5025	C162
1817713	NG2031LK KC5010	C163
1817718	NG2031LK KC5025	C163
1817719	NG2031RK KC5025	C162
1817720	NG2041L KC5025	C170
1817721	NG2041R KC5025	C170
1817722	NG2047LK KC5010	C163
1817740	NG3M400RK KC5010	C162
1817741	NG3M400RK KC5025	C162
1817866	KSSISR197SE44345C3	S39
1817867	KSSISR197SE44345M3	S39
1817868	KSSISR248SE44345C4	S39
1817869	KSSISR248SE44345M4	S39
1817870	KSSISR315SE44345C4	S39
1817871	KSSISR315SE44345M4	S39
1817872	KSSISR394SE44345C5	S39
1817933	KSSISR394SE44345M5	S39
1817934	KSSISR492SE44345C6	S39
1817935	KSSISR492SE44345M6	S39
1817936	KSSISR630SE44345C6	S39
1817937	KSSISR630SE44345M6	S39
1817938	KSSISR787SE44345C10	S39
1817939	KSSISR787SE44345M10	S39
1817965	NG3M425RK KC5025	C163
1817970	NG4125RK KC5010	C163
1817972	NG4189LK KC5010	C164
1817975	NG2047LK KC5025	C163
1817977	NG2047RK KC5010	C162
1817979	NG2047RK KC5025	C162
1817993	NG4189LK KC5025	C164
1817994	NG4189RK KC5025	C163
1818000	NG4250RK KC5010	C163
1818001	NG4250RK KC5025	C163
1818003	NG2058R KC5025	C170
1818005	NG2062LK KC5010	C163
1818006	NG2062LK KC5025	C163
1818007	NG2062RK KC5010	C162
1818008	NG2062RK KC5025	C162
1818009	NG2094LK KC5010	C163
1818010	NG2094LK KC5025	C163
1818011	NG2094RK KC5010	C162
1818037	NG2094RK KC5025	C162
1818039	NG2125LK KC5010	C163
1818041	NG2125LK KC5025	C163
1818042	NG2125RK KC5010	C162
1818050	NG4M400RK KC5010	C163
1818051	NG4M400RK KC5025	C163
1818052	NG4M450LK KC5025	C164
1818054	NG4M500LK KC5010	C164
1818073	NG2125RK KC5025	C162
1818075	NG2M080LK KC5025	C163
1818077	NG2M080RK KC5025	C162
1818078	NG2M100LK KC5010	C163
1818079	NG2M100LK KC5025	C163
1818080	NG2M100RK KC5010	C162
1818081	NG2M100RK KC5025	C162
1818082	NG2M120LK KC5010	C163
1818093	NG2M120LK KC5025	C163
1818094	NG2M120RK KC5010	C162
1818095	NG2M120RK KC5025	C162
1818097	NG2M140LK KC5025	C163
1818098	NG2M140RK KC5010	C162
1818099	NG2M140RK KC5025	C162
1818110	NGD3062LK KC5010	C165
1818111	NGD3062LK KC5025	C165
1818112	NGD3062RK KC5010	C165
1818113	NGD3062RK KC5025	C165
1818114	NGD3094LK KC5010	C165
1818115	NGD3094LK KC5025	C165
1818116	NGD3094RK KC5010	C165
1818117	NGD3094RK KC5025	C165
1818118	NGD3125LK KC5010	C165
1818119	NGD3125LK KC5025	C165
1818120	NGD3125RK KC5010	C165
1818121	NGD3189LK KC5010	C165
1818122	NGD3189LK KC5025	C165
1818262	NGD3189RK KC5010	C165
1818352	NPD3012RK KC5010	C167
1818353	NGD3189RK KC5025	C165
1818354	NGD4125LK KC5010	C165
1818355	NGD4125LK KC5025	C165
1818356	NGD4125RK KC5010	C165
1818357	NGD4125RK KC5025	C165
1818359	NGD4189LK KC5010	C165
1818360	NGD4189LK KC5025	C165
1818361	NGD4189RK KC5010	C165
1818362	NGD4189RK KC5025	C165
1818366	NG2M300RK KC5010	C162
1818368	NG2M325RK KC5025	C162
1818369	NG3047LK KC5010	C163
1818370	NG3047LK KC5025	C163
1818371	NG3062LK KC5025	C163
1818372	NG3072LK KC5010	C163
1818374	NGD4250LK KC5025	C165
1818375	NGD4250RK KC5010	C165
1818376	NGD4250RK KC5025	C165
1818425	NR2031L KC5025	C172
1818426	NR2031R KC5025	C172
1818434	NP2002RK KC5010	C167
1818435	NP2002RK KC5025	C167
1818437	NP3002RK KC5010	C167
1818439	NP3012RK KC5025	C167
1818440	NPD2002RK KC5010	C167
1818444	NRD4125L KC5025	C173
1818455	NG2M170LK KC5010	C163

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1818456	NG2M170LK KC5025	C163
1818457	NG2M170RK KC5010	C162
1818458	NR3031LK KC5010	C166
1818459	NR3031LK KC5025	C166
1818460	NR3031RK KC5010	C166
1818461	NG2M170RK KC5025	C162
1818462	NR3031RK KC5025	C166
1818473	NR3047LK KC5010	C166
1818474	NG2M175LK KC5025	C163
1818476	NG2M195LK KC5010	C163
1818478	NR3062LK KC5010	C166
1818479	NG2M195RK KC5010	C162
1818480	NG2M195RK KC5025	C162
1818481	NR3062LK KC5025	C166
1818482	NG2M200LK KC5010	C163
1818483	NG2M200LK KC5025	C163
1818484	NG2M200RK KC5010	C162
1818485	NG2M200RK KC5025	C162
1818487	NG2M220RK KC5025	C162
1818489	NG2M225LK KC5025	C163
1818491	NG2M225RK KC5025	C162
1818492	NG2M250LK KC5025	C163
1818493	NG2M250RK KC5025	C162
1818494	NG2M275LK KC5010	C163
1818497	NG2M275RK KC5025	C162
1818498	NG2M300LK KC5010	C163
1818503	NG3072LK KC5025	C163
1818504	NG3072RK KC5010	C162
1818505	NG3072RK KC5025	C162
1818506	NG3078LK KC5010	C163
1818507	NG3078LK KC5025	C163
1818508	NG3078RK KC5010	C162
1818509	NG3078RK KC5025	C162
1818714	SPHX15T6ZCERGP KCK15	S71
1818721	SPHX15T6ZCTRGPK KY3500	S71
1818755	SPHX15T6ZCERGP4S KCK15	S71
1818766	NG3094LK KC5010	C164
1818768	NG3094LK KC5025	C164
1818769	NG3094RK KC5025	C162
1818824	NG3105R KC5025	C170
1818825	NG3110L KC5025	C171
1818827	NR3078LK KC5010	C166
1818828	NR3078LK KC5025	C166
1818829	NR3078RK KC5010	C166
1818831	NR3094L KC5010	C172
1818833	NR3094L KC5025	C172
1818834	NR3094R KC5010	C172
1818835	NR3094R KC5025	C172
1818836	NR4062LK KC5010	C166
1818838	NR4062RK KC5010	C166
1818840	NR4094LK KC5010	C166
1818841	NR4094LK KC5025	C166
1818842	NR4094RK KC5010	C166
1818854	NR4125LK KC5010	C166
1818856	NR4125RK KC5010	C166
1818857	NR4125RK KC5025	C166
1818858	NRD3031L KC5010	C173
1818859	NRD3031L KC5025	C173
1818860	NRD3031R KC5010	C173
1818861	NRD3031R KC5025	C173
1818862	NRD3062L KC5010	C173
1818863	NRD3062L KC5025	C173
1818864	NRD3062R KC5010	C173
1818865	NRD3062R KC5025	C173
1818866	NRD4062L KC5025	C173
1818874	NU3094L KC5025	C175
1818875	NU3094R KC5025	C175
1818876	NU3125L KC5025	C175
1818878	NU3156L KC5025	C175
1818891	NG3156LK KC5010	C164
1818892	NG3156LK KC5025	C164
1818913	NG3156RK KC5010	C162
1818914	NG3156RK KC5025	C162
1818916	NG3178R KC5025	C170
1818917	NG3185L KC5025	C171
1818919	NG3189LK KC5010	C164
1818920	NG3189LK KC5025	C164
1818921	NG3189RK KC5010	C163
1819108	SPHX15T6ZCTRGP4SK KY3500	S71
1819110	SPHX15T6ZCFRGN1W KCK15	S72
1819206	CNMG431FP KT315	B49
1819207	CNMG432FP KT315	B49
1819211	DNMG332FP KT315	B80
1819335	DNMG431FP KT315	B80
1819336	DNMG432FP KT315	B80
1819340	DNMG443FP KT315	B80
1819354	TNMG331FP KT315	B123
1819355	TNMG332FP KT315	B123
1819357	VNMG331FP KT315	B146
1819358	VNMG332FP KT315	B146
1819440	DNMG431FP KC5010	B80
1819441	DNMG432FP KC5010	B80
1819451	SPHX1205PCTRGPB KTPK20	S68
1819494	DNMG441FP KC5010	B80
1819495	DNMG442FP KC5010	B80
1819500	TNMG331FP KC5010	B123
1819501	TNMG332FP KC5010	B123
1819502	TNMG333FP KC5010	B123
1819513	VNMG331FP KC5010	B146
1819514	VNMG332FP KC5010	B146
1819515	WNMG331FP KC5010	B158
1819516	WNMG332FP KC5010	B158
1819517	WNMG431FP KC5010	B158
1819518	WNMG432FP KC5010	B158
1819519	WNMG433FP KC5010	B158
1819846	SPHX1205PCFRGN1WB KCK15	S69
1819848	SPHX1205PCFRGN1WB KC725M	S69
1819849	SPHX1205PCFRGN1WB KC520M	S69
1819850	SPHX1205PCFRGN1WB KTPK20	S69
1819852	SPHX1205PCFRGN1WBK KY3500	S69
1819853	SPHX1205ZCTRGP KTPK20	S65
1819858	SPHX1205ZCFRGN1W KCK15	S66
1819861	SPHX1205ZCFRGN1W KC520M	S66
1819864	SPHX1205ZCFRGN1WK KY3500	S66
1824861	TCMT3252LF KC5010	B257
1824882	TCMT3251LF KC5010	B257
1826709	S445	S5, S10, S14, S17, S20, S32, S45, S50, S56, S58, S64, S67, S121–123, T7, T33, T109, T113, V38, V47, V54
1829218	TNMG331FW KT315	B124
1829219	TNMG332FW KT315	B124
1829220	TNMG331FW KC5010	B124
1831439	841.142.200	K122–124
1831441	841.142.320	K122–123
1831442	841.142.420	K122–123
1831590	KM63XMZKR5060Y	K92
1831749	NG3062L KC5010	C170
1831750	NG4250R KC5010	C170
1832293	CNMG322MP KC5010	B51
1832294	CNMG431MP KC5010	B51
1832295	CNMG432MP KC5010	B51
1832296	CNMG433MP KC5010	B51
1832297	CNMG434MP KC5010	B51
1832298	CNMG542MP KC5010	B51
1832299	CNMG543MP KC5010	B51
1832301	CNMG544MP KC5010	B51
1832302	CNMG642MP KC5010	B51
1832313	CNMG643MP KC5010	B51
1832315	CNMG644MP KC5010	B51
1832316	DNMG332MP KC5010	B81
1832318	DNMG431MP KC5010	B81
1832319	DNMG432MP KC5010	B81
1832321	DNMG433MP KC5010	B81
1832322	DNMG441MP KC5010	B81
1832323	DNMG442MP KC5010	B81
1832324	DNMG443MP KC5010	B81
1832325	SNMG432MP KC5010	B102
1832327	SNMG433MP KC5010	B102
1832330	SNMG543MP KC5010	B102
1832353	SNMG644MP KC5010	B102
1832354	TNMG331MP KC5010	B124
1832355	TNMG332MP KC5010	B124
1832356	TNMG333MP KC5010	B124
1832357	TNMG432MP KC5010	B124
1832358	TNMG433MP KC5010	B124
1832359	TNMG434MP KC5010	B124
1832360	VNMG331MP KC5010	B147
1832361	VNMG332MP KC5010	B147
1832373	VNMG333MP KC5010	B147
1832374	WNMG331MP KC5010	B159
1832376	WNMG332MP KC5010	B159
1832378	WNMG432MP KC5010	B159
1832379	WNMG433MP KC5010	B159
1833500	SPHX1205PCERGNT1WB KB1340	S69
1833501	SPHX1205ZCERGNT1W KB1340	S66
1833766	B411A06100 KF1	G94
1834274	R67FBHS06	K140
1834295	SNMG433FW KT315	B102
1834819	170.294	H72, H81, H88
1836470	170.295	H88
1836471	170.296	H88
1840501	NPR51 KC5410	E35
1841355	VPGR334 KC5010	E38
1841782	MS2038	V62
1841815	S2043	S39
1841853	S2044	S39, U27
1843874	SCLCL124B	B194
1843875	SCLCR124B	B194
1843876	SCLCL164D	B194
1843877	SCLCR164D	B194
1843886	MCKNL246D	B62
1843889	MVUNL244D	B153
1843976	RCMT1204M0 KC5010	B240
1845216	TCMT2151LF KC5010	B257
1845218	CCMT432LF KC5010	B191
1845219	TPMT2151LF KC5010	B268
1845227	CCMT3251LF KC5010	B191
1845230	SCMT3251LF KC5010	B246
1845775	470.243	S20, S24, S32
1845807	420.201	S17, S20, S24, S32, S45, S50, S121–122, T17
1847935	CNGA433T0420FW KY3500	B313
1848593	SPGX060304RHP KC7140	J103
1848597	SPGX070304RHP KC7140	J103
1848601	SPPX09T308RHP KC7140	J103
1848605	SPPX120408RHP KC7140	J103
1848655	ICSN443 K9	B58–60
1849051	DPGR431 KC5010	E32
1849052	DPGR432 KC5010	E32
1849053	DPGR433 KC5010	E32
1849054	NPR505 KC5010	E35
1849055	NPL505 KC5010	E35
1849056	NPR508 KC5010	E35
1849058	NPR51 KC5010	E35
1849059	NPL51 KC5010	E35
1849060	NPR52 KC5010	E35
1849243	NPL52 KC5010	E35
1849249	NPR131F KC5010	E34
1849250	NPL131F KC5010	E34
1849251	NPR132F KC5010	E34
1849252	NPL132F KC5010	E34
1849274	NPGR51R KC5010	E33
1849275	NPGR51L KC5010	E33
1849279	VBMR221 KC5010	E36
1849281	VPGR3305 KC5010	E38
1849301	VPGR331 KC5010	E38
1849302	VPGR332 KC5010	E38
1849323	VPGR333 KC5010	E38
1849846	NPGR51L KT315	E33
1849866	NPGR52R KT315	E33
1849869	NPR508 KT315	E35
1849871	NPR51 KT315	E35
1849874	NPR52 KT315	E35
1849885	VBMR221 KT315	E36
1849903	NPGR52L KC5025	E33
1849906	VBMR221 KC5025	E36
1849908	VPGR3305 KC5025	E38
1849909	VPGR331 KC5025	E38
1849910	VPGR332 KC5025	E38
1849983	NPR505 KC5025	E35
1849998	NPR51 KC5025	E35
1850011	NPL51 KC5025	E35
1850012	NPR52 KC5025	E35
1850067	NPGR51R KC5025	E33
1850070	NPGR51L KC5025	E33
1851263	CNGA432T0420FW KY3500	B313
1851264	CNGA434T0420FW KY3500	B313
1851265	WNGA432T0420FW KY3500	B315
1851268	CNGX452T0420FW KY3500	B316
1851269	CNGX453T0420FW KY3500	B316
1851270	CNGX454T0420FW KY3500	B316
1851304	SCG332FW KY3500	B320
1852181	CS412	B168–169, B386–387
1852652	S432	B408
1852683	S435	B408
1854201	CPMT18151LF KC5010	B207
1854340	HTSR040R025M	J75
1854342	HTSR046R028M	J75
1854378	B514S08000 KC7030	J76
1854379	B514S10000 KC7030	J76
1855439	NG3M200RK KT315	C162
1855476	NG2031RK KT315	C162
1855479	NG2047RK KT315	C162
1855504	NG2062RK KT315	C162
1855506	NG2094RK KT315	C162
1855508	NG2125RK KT315	C162
1855556	NG2M200RK KT315	C162
1855576	NG3062RK KT315	C162
1855577	NG3094LK KT315	C164
1855578	NG3094RK KT315	C162
1855910	SPHX1205ZCSRGP KCK15	S65
1859604	VBMT331LF KT315	B281
1860701	190.458	J75
1860827	NG3088L KC5010	C170
1861004	FAS100302GD KC7015	H42
1862656	S321	B409
1863297	MTFNL854D	B134
1863299	MVJNR123A	B152
1863302	MVUNR204C	B153
1863407	552.210	B384
1864501	VCMR331 KC5010	E37
1864502	VCMR332 KC5010	E37
1864543	VCMR331 KC5025	E37
1864544	VCMR332 KC5025	E37
1864562	VCMR331 KT315	E37
1864583	VCMR332 KT315	E37
1864815	SNHX1102PZTNGP KC725M	U15
1864816	SNHX11T3PZTNGP KC725M	U15
1864817	SNHX1203PZTNGP KC725M	U15
1864825	SNHX12L5PZTNGP KC725M	U15
1864829	SNHX11T3PZFNGE KC510M	U14
1864830	SNHX1203PZFNGE KC510M	U14
1864831	SNHX12L5PZFNGE KC510M	U14
1865174	SPGF322 KC5010	B171
1865210	TPGF221 KC5010	B177
1865214	TPGF321 KC5010	B177
1865218	TPGF322 KC5010	B177
1865436	SPG321 KC5010	B171
1865452	SPG322 KC5010	B171
1865483	SPG421 KC5010	B171
1865484	SPG422 KC5010	B171
1865486	SPG424 KC5010	B171
1865531	TPG221 KC5010	B177
1865532	TPG222 KC5010	B177
1865533	TPG3205 KC5010	B177
1865534	TPG321 KC5010	B177
1865535	TPG322 KC5010	B177
1865536	TPG323 KC5010	B177
1865537	TPG324 KC5010	B177
1865538	TPG431 KC5010	B177
1865539	TPG432 KC5010	B177
1865540	TPG433 KC5010	B177
1865541	TPG434 KC5010	B177
1865870	RCMK152 KC5010	E69
1865871	RCMK23 KC5010	E69
1865953	RCMK35 KC5010	E69
1865954	RCMK46 KC5010	E69
1865955	RCGK152HP KC5010	E69
1865956	RCGK23HP KC5010	E69
1865959	RCGV23 KC5010	B166
1865960	RCGV35 KC5010	B166
1865961	RCGV45 KC5010	B166
1865962	RPGV35 KC5010	B167
1865999	RCMT0602M0 KC5010	B240
1866000	RCMT0803M0 KC5010	B240
1866001	RCMT10T3M0 KC5010	B240
1866014	RCMT1605M0 KC5010	B240
1866015	RCMT2006M0 KC5010	B240
1866017	RCMT215 KC5010	B240
1866019	RCMT325 KC5010	B240
1866310	CNMX453T0820 KY3500	B316
1866311	CNMX454T0820 KY3500	B316
1866356	SNMX453T0820 KY3500	B319
1866357	SNMX454T0820 KY3500	B319

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1866358	SNMX554T0820 KY3500	B319
1866564	CCGT215X0LF KC5025	B189
1866565	CCGT2150LF KC5025	B189
1866566	CCGT21505LF KC5025	B189
1866567	CCGT2151LF KC5025	B189
1866569	CCGT325X0LF KC5025	B189
1866570	CCGT3250LF KC5025	B189
1866571	CCGT32505LF KC5025	B189
1866572	CCGT3251LF KC5025	B189
1866593	CCGT3252LF KC5025	B189
1866616	CCGT3252LF K313	B189
1866617	CPGT2150LF KC5025	B206
1866618	CPGT21505LF KC5025	B206
1866619	CPGT2151LF KC5025	B206
1866620	CPGT2152LF KC5025	B206
1866621	CPGT32505LF KC5025	B206
1866622	CPGT3251LF KC5025	B206
1866623	CPGT3252LF KC5025	B206
1866625	CPGT2150LF KC5410	B206
1866638	TPGT18151LF KC5025	B267
1866640	TPGT21505LF KC5025	B267
1866641	TPGT2151LF KC5025	B267
1866643	DCGT215X0LF KC5025	B224
1866646	DCGT2150LF KC5025	B224
1866647	DCGT3250LF KC5025	B224
1866648	DCGT325X0LF KC5025	B224
1866650	DCGT2150LF KC5010	B224
1866651	DCGT3250LF KC5010	B224
1866652	DCGT432LF KC5010	B224
1866653	TPGT3251LF KC5025	B267
1866655	TPGT2152LF KC5010	B267
1866661	TPGT2151LF KC5410	B267
1866665	DPGT2151LF KC5025	B231
1866667	DPGT32505LF KC5025	B231
1866668	DPGT3251LF KC5025	B231
1866674	TPGT3252LF KC5410	B267
1866675	VBGT22X0LF KC5025	B280
1866676	VBGT220LF KC5025	B280
1866677	VBGT2205LF KC5025	B280
1866678	VBGT221LF KC5025	B280
1866679	VBGT33X0LF KC5025	B280
1866681	VBGT330LF KC5025	B280
1866682	VBGT3305LF KC5025	B280
1866683	VBGT331LF KC5025	B280
1866685	VBGT2205LF KC5010	B280
1866686	VBGT221LF KC5010	B280
1866754	VBGT330LF KC5010	B280
1866755	VBGT3305LF KC5010	B280
1866756	VBGT331LF KC5010	B280
1866757	VBGT220LF KC5410	B280
1866761	VBGT3305LF KC5410	B280
1866762	VBGT331LF KC5410	B280
1866781	DPGT2150LF KC5010	B231
1866782	SPGT3251LF KC5025	B252
1866793	SPGT3252LF KC5025	B252
1866795	SPGT3251LF KC5010	B252
1866796	SPGT3252LF KC5010	B252
1866801	TCGT2150LF KC5025	B256
1866802	TCGT2151LF KC5025	B256
1866955	CCGT21505HP KC5025	B189
1866956	CCGT2151HP KC5025	B189
1866959	CCGT32505HP KC5025	B189
1866960	CCGT3251HP KC5025	B189
1866961	CCGT3252HP KC5025	B189
1866994	CCGT431HP KC5025	B189
1866996	CPGT21505HP KC5025	B205
1866997	CPGT2151HP KC5025	B205
1867001	CPGT32505HP KC5025	B205
1867002	CPGT3251HP KC5025	B205
1867004	DCGT21505HP KC5025	B224
1867006	DCGT2151HP KC5025	B224
1867007	DCGT2152HP KC5025	B224
1867009	DCGT32505HP KC5025	B224
1867010	DCGT3251HP KC5025	B224
1867011	DCGT3252HP KC5025	B224
1867028	RCGT10T3M0HP KC5025	B238
1867029	RCGT1204M0HP KC5025	B238
1867031	TCGT2151HP KC5025	B256
1867034	TCGT3251HP KC5025	B256
1867035	TCGT3252HP KC5025	B256
1867036	TPGT21505HP KC5025	B267
1867037	TPGT2151HP KC5025	B267
1867042	TPGT3251HP KC5025	B267
1867046	VBGT331HP KC5025	B280
1867049	VBGT332HP KC5025	B280
1867050	VBGT221HP KC5025	B280
1867051	VBGT2205HP KC5025	B280
1867060	VBGT221HP KC5010	B280
1867061	VBGT2205HP KC5010	B280
1867212	SSP025016M	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B113, B131, B138, B150–151, B154, B163
1867278	KMSP415IP	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B131, B150–151, B163
1867314	KMSP515IP	B58–60, B67–68, B87
1867620	CNGP432 KC5010	B46
1868190	CPGM3250 KC5010	B205
1868253	CPGM3250 KC5025	B205
1868254	CPGM3250 KT315	B205
1868255	CPGM32505 KC5010	B205
1868257	CPGM32505 KC5025	B205
1868419	CNGP430 KC5010	B46
1868420	CNGP4305 KC5010	B46
1868421	CNGP431 KC5010	B46
1868443	CNGP433 KC5010	B46
1868444	CNGP434 KC5010	B46
1868451	DNGP430 KC5010	B77
1868452	DNGP4305 KC5010	B77
1868453	DNGP431 KC5010	B77
1868454	DNGP432 KC5010	B77
1868456	DNGP442 KC5010	B77
1868457	SNGP431 KC5010	B100
1868458	SNGP432 KC5010	B100
1868461	TNGP3305 KC5010	B121
1868462	TNGP331 KC5010	B121
1868463	TNGP332 KC5010	B121
1868464	VNGP330 KC5010	B144
1868465	VNGP3305 KC5010	B144
1868466	VNGP431 KC5010	B144
1868467	VNGP432 KC5010	B144
1869820	CCMT21505LF KC5010	B191
1869821	CCMT2151LF KC5010	B191
1869894	CPGM3251 KC5010	B205
1869896	CPGM3251 KC5025	B205
1869899	CPGM3251 KT315	B205
1869901	CPGM3252 KC5010	B205
1869903	CPGM3252 KC5025	B205
1869932	CCMT21505LF KT315	B191
1869964	CCMT2151LF KT315	B191
1869965	CCMT2152LF KT315	B191
1869966	CCMT32505LF KT315	B191
1869967	CCMT3251LF KT315	B191
1869968	CCMT3252LF KT315	B191
1869973	DCMT2151LF KT315	B225
1869974	DCMT32505LF KT315	B225
1869975	DCMT3251LF KT315	B225
1869976	DCMT3252LF KT315	B225
1869980	SCMT3251LF KT315	B246
1869996	TCMT2151LF KT315	B257
1869998	TCMT2152LF KT315	B257
1870000	TCMT3251LF KT315	B257
1870002	TCMT3252LF KT315	B257
1870021	CNGG430LF KC5010	B46
1870022	CNGG4305LF KC5010	B46
1870036	VBMT2205LF KT315	B281
1870037	VBMT221LF KT315	B281
1870039	VBMT3305LF KT315	B281
1870043	CNGG431LF KC5010	B46
1870044	CNGG432LF KC5010	B46
1870069	CNGG433LF KC5010	B46
1870072	DNGG4305LF KC5010	B77
1870113	DNGG431LF KC5010	B77
1870114	DNGG432LF KC5010	B77
1870323	VBMT332LF KT315	B281
1870324	CPMT18151LF KT315	B207
1870326	CPMT2151LF KT315	B207
1870328	CPMT32505LF KT315	B207
1870329	CPMT3251LF KT315	B207
1870333	CPMT3252LF KT315	B207
1870335	DPMT2151LF KT315	B232
1870337	DPMT3251LF KT315	B232
1870339	SPMT3251LF KT315	B252
1870342	TPMT18151LF KT315	B268
1870365	TPMT2152LF KT315	B268
1870366	TPMT3251LF KT315	B268
1870367	TPMT3252LF KT315	B268
1870619	TNGG3305LF KC5010	B121
1870983	CCMT2152LF KC5010	B191
1870984	CCMT32505LF KC5010	B191
1870986	CCMT3252LF KC5010	B191
1870987	CCMT431LF KC5010	B191
1870990	CPMT181505LF KC5010	B207
1870992	CPMT21505LF KC5010	B207
1870998	DPMT32505LF KC5010	B232
1870999	DPMT3251LF KC5010	B232
1871000	DPMT3252LF KC5010	B232
1871002	SCMT3252LF KC5010	B246
1871013	CPMT2151LF KC5010	B207
1871014	CPMT2152LF KC5010	B207
1871015	CPMT32505LF KC5010	B207
1871016	CPMT3251LF KC5010	B207
1871017	CPMT3252LF KC5010	B207
1871019	DCMT3253LF KC5010	B225
1871020	DCMT431LF KC5010	B225
1871021	DCMT432LF KC5010	B225
1871022	DPMT21505LF KC5010	B232
1871033	DPMT2151LF KC5010	B232
1871035	VBMT222LF KC5010	B281
1871036	VBMT3305LF KC5010	B281
1871038	WPMT2151LF KC5010	B288
1871039	WPMT3251LF KC5010	B288
1871040	WPMT3252LF KC5010	B288
1871041	WCMT2151LF KC5010	B286
1871042	WCMT3252LF KC5010	B286
1871083	SCMT431LF KC5010	B246
1871084	SCMT432LF KC5010	B246
1871085	SCMT433LF KC5010	B246
1871086	SPMT3251LF KC5010	B252
1871087	SPMT3252LF KC5010	B252
1871088	TCMT21505LF KC5010	B257
1871090	TCMT2152LF KC5010	B257
1871091	TCMT32505LF KC5010	B257
1871104	TCMT3253LF KC5010	B257
1871105	TCMT432LF KC5010	B257
1871106	TPMT181505LF KC5010	B268
1871107	TPMT18151LF KC5010	B268
1871108	TPMT21505LF KC5010	B268
1871110	TPMT2152LF KC5010	B268
1871111	TPMT3251LF KC5010	B268
1871112	TPMT3252LF KC5010	B268
1871134	TPMT432LF KC5010	B268
1871163	CCMT2151UF KC5010	B192
1871164	CCMT32505UF KC5010	B192
1871165	CCMT3251UF KC5010	B192
1871166	CCMT3252UF KC5010	B192
1871167	CPMT2151UF KC5010	B208
1871168	CPMT3251UF KC5010	B208
1871169	DCMT2151UF KC5010	B226
1871170	DCMT32505UF KC5010	B226
1871171	DCMT3251UF KC5010	B226
1871172	DCMT3252UF KC5010	B226
1871193	DPMT2151UF KC5010	B233
1871196	SCMT3252UF KC5010	B247
1871197	SPMT3251UF KC5010	B253
1871198	TCMT2151UF KC5010	B258
1871199	TCMT2152UF KC5010	B258
1871200	TCMT3252UF KC5010	B258
1871202	TPMT2151UF KC5010	B269
1871286	TNGG331LF KC5010	B121
1871287	TNGG332LF KC5010	B121
1871288	VNGG3305LF KC5010	B144
1871289	VNGG331LF KC5010	B144
1871313	VNGG332LF KC5010	B144
1871317	VNGG432LF KC5010	B144
1871318	WNGG430LF KC5010	B156
1871319	WNGG4305LF KC5010	B156
1871320	WNGG431LF KC5010	B156
1872409	ICSN543 K9	B58–60
1873125	CWLNR164DMX5	B384
1873128	CWLNL164DMX5	B384
1873184	CWLNR204DMX5	B384
1873185	CWLNL204DMX5	B384
1873486	KIPR125RP43540	V156
1874234	SPHX1205PCTLGPBK KY3500	S68
1874862	DCLNR164DKC3	B59
1875133	DCLNL164DKC3	B59
1875134	DCLNR164CKC3	B59
1875135	DCLNL164CKC3	B59
1875136	DDJNR164DKC3	B87
1875137	DCLNR124BKC3	B59
1875138	DWLNR164DKC3	B163
1875139	DDJNL164DKC3	B87
1875140	DDJNR164CKC3	B87
1875141	DCLNR204DKC3	B59
1875142	DCLNL124BKC3	B59
1875143	DWLNL164DKC3	B163
1875144	DWLNR164CKC3	B163
1875145	DCLNR165DKC4	B59
1875146	DCLNL204DKC3	B59
1875147	DCLNL165DKC4	B59
1875148	DDJNR204DKC3	B87
1875149	DDJNL164CKC3	B87
1875150	DCLNR205DKC4	B59
1875151	DDJNL204DKC3	B87
1875152	DTGNR164DKC3	B131
1875153	DCLNL205DKC4	B59
1875155	DWLNL164CKC3	B163
1875156	DCRNR164DKC3	B60
1875157	DCLNR244DKC3	B59
1875159	DCRNL164DKC3	B60
1875160	DCLNL244DKC3	B59
1875161	DCLNR165CKC4	B59
1875163	DSSNR164DKC3	B110
1875164	DCRNR124BKC3	B60
1875165	DCRNR204DKC3	B60
1875166	DWLNR204DKC3	B163
1875167	DDJNL165DKC4	B87
1875168	DSRNL164DKC3	B110
1875169	DCRNL204DKC3	B60
1875170	DDJNR165DKC4	B87
1875172	DWLNL204DKC3	B163
1875173	DCLNL165CKC4	B59
1875177	DDJNL205DKC4	B87
1875178	DDJNR245DKC4	B87
1875179	DSSNL164DKC3	B110
1875180	DCRNR245DKC4	B60
1875184	DSRNL204DKC3	B110
1875186	DDPNN164DKC3	B88
1876838	TNMG333FW KT315	B124
1876849	TNMG431FP KC5010	B123
1877480	DNG451T0820 KY1615	B333
1877482	DNG452T0820 KY1615	B333
1877594	DNG453T0820 KY1615	B333
1877595	DNG454T0820 KY1615	B333
1877596	ENG451T0820 KY1615	B335
1877597	ENG452T0820 KY1615	B335
1877598	ENG453T0820 KY1615	B335
1877599	ENG454T0820 KY1615	B335
1877601	RNG45T0820 KY1615	B336
1877602	RNG45T4015 KY1615	B336
1877603	RNG45T8015 KY1615	B336
1881130	CNGA431T0820 KY1615	B329
1881131	CNGA432T0220 KY1615	B329
1881132	CNGA432T0820 KY1615	B313, B329
1881199	NPR5M02 KC5010	E36
1881200	NPR5M05 KC5010	E36
1881201	NPL5M02 KC5010	E36
1881202	NPL5M05 KC5010	E36
1881203	NPR13M05F KC5010	E35
1881243	CNGA433T0820 KY1615	B313, B329
1881244	CNGA434T0820 KY1615	B313, B329
1881246	CNGA543T0820 KY1615	B313, B329
1881249	CNGA643T0820 KY1615	B313, B329
1881250	CNGA644T0820 KY1615	B313, B329
1881251	CNG431T0820 KY1615	B329
1881252	CNG432T0820 KY1615	B329
1881253	CNG433T0820 KY1615	B329
1881255	CNG452T0820 KY1615	B329
1881257	CNG453T0820 KY1615	B329
1881258	CNG454T0820 KY1615	B329
1881266	CNG554T0820 KY1615	B329
1881267	CNG554T2015 KY1615	B329
1881272	CNGX452T0820 KY1615	B331
1881273	CNGX453T0820 KY1615	B331

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1881278	DNGA431T0820 KY1615	B333
1881279	DNGA432T0820 KY1615	B333
1881280	DNGA433T0820 KY1615	B333
1881281	DNGA434T0820 KY1615	B333
1881282	DNGA441T0820 KY1615	B333
1881283	DNGA442T0820 KY1615	B333
1881285	DNGA443T0820 KY1615	B333
1881297	DNGX452T0820 KY1615	B317, B335
1881305	RCGW1204M0T01020 KY1615	B336
1881310	RCGV35T0420 KY1615	B335
1881311	RCGV35T0820 KY1615	B335
1881313	RCGV35T4015 KY1615	B335
1881314	RCGV35T8015 KY1615	B335
1881316	RCGV45T0820 KY1615	B335
1881318	RCGV45T4015 KY1615	B335
1881319	RCGV45T8015 KY1615	B335
1881320	RCGX151000T20015 KY1615	B335
1881321	RCGX191000T20015 KY1615	B335
1881322	RCGV88T8015 KY1615	B335
1881325	RNGA32T0820 KY1615	B336
1881326	RNGA43T0820 KY1615	B336
1881327	RNG32T0820 KY1615	B336
1881328	RNG33T0820 KY1615	B336
1881329	RNG42T0820 KY1615	B336
1881330	RNG43T0820 KY1615	B336
1881332	RNG65T0820 KY1615	B336
1881347	SNGA432T0820 KY1615	B337
1881348	SNGA433T0820 KY1615	B337
1881351	SNG322T0820 KY1615	B337
1881355	SNG432T0220 KY1615	B337
1881356	SNG432T0820 KY1615	B337
1881357	SNG433T0820 KY1615	B337
1881358	SNG434T0820 KY1615	B337
1881361	SNG451T0820 KY1615	B337
1881362	SNG452T0820 KY1615	B337
1881364	SNG453T0820 KY1615	B337
1881365	SNG454T0820 KY1615	B337
1881366	SNG455T0820 KY1615	B337
1881367	SNG455T4015 KY1615	B337
1881368	SNG455T8015 KY1615	B337
1881371	SNG554T0820 KY1615	B337
1881396	SNGX453T0820 KY1615	B338
1881402	SPG322T0420 KY1615	B338
1881405	SPG422T0420 KY1615	B338
1881413	TNGA332T0820 KY1615	B339
1881414	TNGA333T0820 KY1615	B339
1881416	TNGA432T0820 KY1615	B339
1881417	TNGA433T0820 KY1615	B339
1881422	TNG222T0820 KY1615	B339
1881423	TNG331T0820 KY1615	B339
1881424	TNG332T0820 KY1615	B319, B339
1881425	TNG333T0820 KY1615	B339
1881426	TNG334T0820 KY1615	B339
1881427	TNG352T0820 KY1615	B339
1881428	TNG353T0820 KY1615	B339
1881430	TNG432T0820 KY1615	B339
1881437	TPG221T0420 KY1615	B340
1881438	TPG222T0420 KY1615	B340
1881439	TPG223T0420 KY1615	B340
1881440	TPG321T0420 KY1615	B340
1881441	TPG322T0420 KY1615	B340
1881442	TPG323T0420 KY1615	B340
1881447	TPU221T0220 KY1615	B341
1881448	TPU222T0220 KY1615	B341
1881449	TPU321T0220 KY1615	B341
1881450	TPU322T0220 KY1615	B341
1881451	TPU323T0220 KY1615	B341
1881452	VNGA331T0820 KY1615	B342
1881453	VNGA332T0820 KY1615	B342
1881454	VNGA333T0820 KY1615	B342
1881455	VNGA432T0820 KY1615	B342
1882046	CNMX452T0820 KY3500	B316
1884626	420.101 SCREW	S121–123
1884627	420.121	S121–123
1884628	420.161	S121–122
1884629	420.241	S17, S20, S24, S32, S50, S121–122, T17
1884630	470.240	S17, S20, S24, S45, S50, S121–122
1884631	470.241	S17, S20, S24, S32, S50, S121–122
1884632	470.242	S20, S24, S32
1886490	SDJCLF083D	B228
1887616	NG3094L KC5010	C170
1893419	DTJNR164DKC3	B131
1893421	DDQNR164CKC3	B88
1893422	DDQNL164CKC3	B88
1895492	SPHX1205PCFLGN1WB KCK15	S69
1897657	TPGX0902ZPRGD KC7015	H85
1897658	TPGX1102ZPRGD KC7015	H85
1897659	TPGX1303ZPRGD KC7015	H85
1897660	TPGX1603ZPRGD KC7015	H85
1897830	BGHX15L508PCFRGG KC510M	S125
1903553	KGMSR2450N	C143
1905695	CNMG643RP KC5010	B53
1906272	MCFNL12CA4	B72
1907344	KGMER2450N	C145
1908809	DCLNR245DKC4	B59
1908811	DCLNL245DKC4	B59
1908834	DSDNN164KC3	B109
1908835	DSDNN204KC3	B109
1908976	SRCCR122B	B243
1908978	SRCCR162D	B243
1908980	SRCCL162D	B243
1908981	SRCCR123B	B243
1908994	SRCCR163D	B243
1908995	SRCCL163D	B243
1908996	SRCCR203D	B243
1909002	SRCCL203D	B243
1909004	KGMSL2450N	C143
1909005	SRACR244D	B243
1909006	SRACL244D	B243
1909159	D64TTB56	B409
1909790	CPGT2152LF KC5010	B206
1909791	TPGT21505LF KC5010	B267
1910043	VBGT2205HP KC5410	B280
1910044	VBGT221HP KC5410	B280
1910215	CNMG433RP KC5010	B53
1912477	STN1612UNI KC635M	W44
1913052	B966A03000 KC7315	G130
1913458	B966A03500 KC7315	G130
1913459	B966A03700 KC7315	G130
1913460	B966A03800 KC7315	G130
1913461	B966A04000 KC7315	G130
1913462	B966A04200 KC7315	G130
1913473	B966A04500 KC7315	G130
1913474	B966A04600 KC7315	G130
1913475	B966A04800 KC7315	G130
1913476	B966A05000 KC7315	G130
1913477	B966A05500 KC7315	G130
1913478	B966A05700 KC7315	G130
1913479	B966A05800 KC7315	G130
1913480	B966A06000 KC7315	G130
1913481	B966A06500 KC7315	G131
1913482	B966A06800 KC7315	G131
1913483	B966A07000 KC7315	G131
1913484	B966A07400 KC7315	G131
1913485	B966A07500 KC7315	G131
1913486	B966A07800 KC7315	G131
1913487	B966A08000 KC7315	G131
1913488	B966A08500 KC7315	G131
1913489	B966A08800 KC7315	G131
1913490	B966A09000 KC7315	G131
1913491	B966A09300 KC7315	G131
1913492	B966A09500 KC7315	G131
1913493	B966A09800 KC7315	G131
1913494	B966A10000 KC7315	G131
1913495	B966A10200 KC7315	G131
1913496	B966A10500 KC7315	G131
1913497	B966A10700 KC7315	G131
1913498	B966A11000 KC7315	G131
1913499	B966A11200 KC7315	G131
1913500	B966A11500 KC7315	G132
1913501	B966A11700 KC7315	G132
1913502	B966A12000 KC7315	G132
1913503	B966A12500 KC7315	G132
1913504	B966A12700 KC7315	G132
1913505	B966A13000 KC7315	G132
1913506	B966A13500 KC7315	G132
1913507	B966A13700 KC7315	G132
1913508	B966A14000 KC7315	G132
1913509	B966A14500 KC7315	G132
1913510	B966A14700 KC7315	G132
1913511	B966A15000 KC7315	G132
1913512	B966A15500 KC7315	G132
1913513	B966A15700 KC7315	G132
1913514	B966A16000 KC7315	G132
1913515	B976A04000 KC7315	G134
1913516	B976A04200 KC7315	G134
1913517	B976A04500 KC7315	G135
1913518	B976A04600 KC7315	G135
1913519	B976A04800 KC7315	G135
1913520	B976A05000 KC7315	G135
1913521	B976A05500 KC7315	G135
1913522	B976A05700 KC7315	G135
1913523	B976A05800 KC7315	G135
1913524	B976A06000 KC7315	G135
1913525	B976A06500 KC7315	G135
1913526	B976A06800 KC7315	G135
1913527	B976A07000 KC7315	G135
1913528	B976A07400 KC7315	G136
1913529	B976A07500 KC7315	G136
1913530	B976A07800 KC7315	G136
1913531	B976A08000 KC7315	G136
1913532	B976A08500 KC7315	G136
1913533	B976A08800 KC7315	G136
1913534	B976A09000 KC7315	G136
1913535	B976A09300 KC7315	G136
1913536	B976A09500 KC7315	G136
1913537	B976A09800 KC7315	G136
1913538	B976A10000 KC7315	G136
1913539	B976A10200 KC7315	G136
1913540	B976A10500 KC7315	G136
1913541	B976A10700 KC7315	G137
1913542	B976A11000 KC7315	G137
1913543	B976A11200 KC7315	G137
1913544	B976A11500 KC7315	G137
1913545	B976A11700 KC7315	G137
1913546	B976A12000 KC7315	G137
1913547	B976A12500 KC7315	G137
1913548	B976A12700 KC7315	G137
1913549	B976A13000 KC7315	G137
1913550	B976A13500 KC7315	G137
1913551	B976A13700 KC7315	G137
1913552	B976A14000 KC7315	G137
1913553	B976A14500 KC7315	G137
1913554	B976A14700 KC7315	G137
1913555	B976A15000 KC7315	G137
1913556	B976A15500 KC7315	G137
1913558	B976A16000 KC7315	G138
1913559	B976A16500 KC7315	G138
1913560	B976A17000 KC7315	G138
1913561	B976A17500 KC7315	G138
1913562	B976A18000 KC7315	G138
1913563	B976A18500 KC7315	G138
1913564	B976A19000 KC7315	G138
1913565	B976A19500 KC7315	G138
1913566	B976A20000 KC7315	G138
1913567	B977A04000 KC7315	G134
1913568	B977A04200 KC7315	G134
1913569	B977A04500 KC7315	G135
1913570	B977A04600 KC7315	G135
1913571	B977A04800 KC7315	G135
1913572	B977A05000 KC7315	G135
1913573	B977A05500 KC7315	G135
1913574	B977A05800 KC7315	G135
1913575	B977A06000 KC7315	G135
1913576	B977A06500 KC7315	G135
1913577	B977A06800 KC7315	G135
1913578	B977A07000 KC7315	G135
1913579	B977A07400 KC7315	G136
1913580	B977A07500 KC7315	G136
1913581	B977A07800 KC7315	G136
1913582	B977A08000 KC7315	G136
1913583	B977A08500 KC7315	G136
1913584	B977A08800 KC7315	G136
1913585	B977A09000 KC7315	G136
1913586	B977A09300 KC7315	G136
1913587	B977A09500 KC7315	G136
1913588	B977A09800 KC7315	G136
1913589	B977A10000 KC7315	G136
1913590	B977A10200 KC7315	G136
1913591	B977A10500 KC7315	G136
1913592	B977A10700 KC7315	G137
1913593	B977A11000 KC7315	G137
1913594	B977A11200 KC7315	G137
1913595	B977A11500 KC7315	G137
1913596	B977A11700 KC7315	G137
1913597	B977A12000 KC7315	G137
1913598	B977A12500 KC7315	G137
1913599	B977A12700 KC7315	G137
1913600	B977A13000 KC7315	G137
1913601	B977A13500 KC7315	G137
1913602	B977A13700 KC7315	G137
1913603	B977A14000 KC7315	G137
1913604	B977A14500 KC7315	G137
1913605	B977A14700 KC7315	G137
1913606	B977A15000 KC7315	G137
1913607	B977A15500 KC7315	G137
1913608	B977A15700 KC7315	G137
1913609	B977A16000 KC7315	G138
1913610	B977A16500 KC7315	G138
1913611	B977A17000 KC7315	G138
1913612	B977A17500 KC7315	G138
1913613	B977A18000 KC7315	G138
1913614	B977A18500 KC7315	G138
1913615	B977A19000 KC7315	G138
1913616	B977A19500 KC7315	G138
1913617	B977A20000 KC7315	G138
1913618	B978A05000 KC7315	G139
1913619	B978A05500 KC7315	G139
1913620	B978A06000 KC7315	G139
1913621	B978A06500 KC7315	G139
1913622	B978A06800 KC7315	G139
1913623	B978A07000 KC7315	G139
1913624	B978A07500 KC7315	G140
1913625	B978A07800 KC7315	G140
1913626	B978A08000 KC7315	G140
1913627	B978A08500 KC7315	G140
1913628	B978A09000 KC7315	G140
1913629	B978A09500 KC7315	G140
1913630	B978A10000 KC7315	G140
1913631	B978A10200 KC7315	G140
1913632	B978A10500 KC7315	G140
1913633	B978A11000 KC7315	G140
1913634	B978A11500 KC7315	G140
1913635	B978A12000 KC7315	G140
1913636	B978A12500 KC7315	G140
1913637	B978A13000 KC7315	G140
1913638	B978A13500 KC7315	G140
1913639	B978A14000 KC7315	G141
1913640	B978A14500 KC7315	G141
1913641	B978A15000 KC7315	G141
1913642	B978A15500 KC7315	G141
1913643	B978A16000 KC7315	G141
1913644	B978A16500 KC7315	G141
1913645	B978A17000 KC7315	G141
1913646	B978A17500 KC7315	G141
1913647	B978A18000 KC7315	G141
1913648	B978A18500 KC7315	G141
1913649	B978A19000 KC7315	G141
1913650	B978A19500 KC7315	G141
1913651	B978A20000 KC7315	G141
1914363	NG4250L KC5025	C171
1914364	NG4250R KC5025	C170
1915368	881.252.320	K137–139
1915629	MS2089	C132–133
1916212	LNEU1245R04SGP KC725M	U20
1916215	LNEU1245R08SGP KC725M	U20
1916218	LNEU1245R16SGP KC725M	U20
1916221	LNEU1250R04SGP KC725M	U20
1916224	LNEU1250R08SGP KC725M	U20
1918803	SM455 K9	S39
1920691	TPG321T0220 KY1615	B340
1920692	TPG322T0220 KY1615	B340
1920693	SPU422T0220 KY1615	B338
1920694	RCGX0907-001 KY1615	B336
1920751	NRD4125R KC5010	C173
1921611	193.395	V122–123
1921612	193.394	V121–123
1921713	193.393	V121–123, V132–133
1921714	193.392	V121, V123, V132
1921715	193.391	V121–123, V132–133
1921716	193.390	V121–123, V132
1921717	193.389	V121–122
1923011	NAS3R4 KC5025	D12
1923833	A4G0300M03P02GMP KC5025	C105

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1923834	A4R0500M05P00GMP KC5025	C106
1923835	A4G0500M05P04GMP KC5010	C105
1923836	A4G0505M05U04GMN KC5025	C106
1923837	A4G0505M05U08GMN KC5025	C106
1923838	A4G0505M05U04GMP KC5025	C105
1923839	A4G0505M05U08GMP KC5025	C105
1923840	A4G0500M05P08GMP KC5010	C105
1924131	HPFSS125S3025 KC635M	P108
1924283	HPFSS188S3031 KC635M	P108
1924285	HPFSS250S3038 KC635M	P108
1924288	HPFSS312S3081 KC635M	P108
1924289	HPFSS375S3050 KC635M	P108
1924290	HPFSS375S3088 KC635M	P108
1924291	HPFSS500S3063 KC635M	P108
1924292	HPFSS500S3125 KC635M	P108
1924576	HPFT250S6075 KC635M	P110
1924577	HPFT312S6081 KC635M	P110
1924578	HPFT375S6088 KC635M	P110
1924579	HPFT500S6100 KC635M	P110
1924580	HPFT500S6200 KC635M	P110
1924581	HPFT625S6125 KC635M	P110
1924743	HPFT750S6150 KC635M	P110
1924744	HPFT750S6225 KC635M	P110
1924745	HPFT1000S6150 KC635M	P110
1924746	HPFT1000S6225 KC635M	P110
1925120	HPRDM188S3019 KC633M	P149
1925121	HPRDM250S4025 KC633M	P149
1925122	HPRDM312S4031 KC633M	P149
1925133	HPRDM375S4038 KC633M	P149
1925134	HPRDM500S4050 KC633M	P149
1925138	HPBNDM125S4013 KC633M	P150
1925140	HPBNDM188S4019 KC633M	P150
1925141	HPBNDM250S4025 KC633M	P150
1925143	HPBNDM375S4038 KC633M	P150
1925144	HPBNDM500S4050 KC633M	P150
1925145	HPBNDM625S4063 KC633M	P150
1925146	HPBNDM750S4075 KC633M	P150
1925147	HPFDM250S4038 KC633M	P148
1925148	HPFDM250S4063 KC633M	P148
1925149	HPFDM250S4088 KC633M	P148
1925150	HPFDM312S4050 KC633M	P148
1925151	HPFDM312S4075 KC633M	P148
1925152	HPFDM312S4113 KC633M	P148
1925153	HPFDM375S4056 KC633M	P148
1925154	HPFDM375S5094 KC633M	P148
1925155	HPFDM375S5131 KC633M	P148
1925156	HPFDM500S4075 KC633M	P148
1925157	HPFDM500S6125 KC633M	P148
1925158	HPFDM500S6175 KC633M	P148
1925159	HPFDM625S4094 KC633M	P148
1925160	HPFDM625S6156 KC633M	P148
1925161	HPFDM625S6219 KC633M	P148
1925162	HPFDM750S4113 KC633M	P148
1925163	HPFDM750S6188 KC633M	P148
1925164	HPFDM750S6263 KC633M	P148
1925165	HPFDM1000S5150 KC633M	P148
1925166	HPFDM1000S6250 KC633M	P148
1925167	HPFDM1000S6350 KC633M	P148
1926594	CNMG4305FN KT315	B49
1926595	CNMG4305FN KC5010	B49
1927913	KSEM125R1WN16F45M	H85–86
1927914	KSEM160R1WN20F45M	H85–86
1927915	KSEM200R1WN25F45M	H85–86
1927916	KSEM241R1WN32F45M	H85–86
1928470	193.371	J87–89
1928504	193.372	J87–89
1928643	5.34032-025115	J88
1928644	5.34032-025200	J88
1928645	5.34050-025300	J88
1928646	5.34050-025450	J88
1928647	5.34125R025150	J87
1928667	SPHX090304R20 KC7215	J115
1928669	SPHX060204R20 KC7140	J115
1928670	SPHX070304R20 KC7140	J115
1928671	SPHX090304R20 KC7140	J115
1928672	SPHX120404R20 KC7140	J115
1931147	MS2091	C34–41, C122–125, C127–128, C130–131
1931554	TTP15	S44–45, T120, U35–37
1931573	MS2077	U35–37, V68–70
1931575	MS2078	S39, T113, U32–34
1937135	SSF150HTS130239	J89
1937136	SSF150HTS130664	J89
1937137	SSF150HTS131114	J89
1937138	SSF150HTS131764	J89
1937503	CDHB120601 KC5010	B199
1937504	CDHB120601 KC5025	B199
1937506	CDHB12061 KC5010	B199
1937507	CDHB12061 KC5025	B199
1937508	CDHB12061 KT315	B199
1937509	CDHB120605 KC5010	B199
1937510	CDHB120605 KC5025	B199
1937511	CDHB120605 KT315	B199
1937512	CDHH120605L KC5010	B199
1937513	CDHH120605R KC5010	B199
1937514	CDHH120605L KC5025	B199
1937515	CDHH120605R KC5025	B199
1937516	CDHH120605L KT315	B199
1937517	CDHH120605R KT315	B199
1937518	CDHH12061L KC5010	B199
1937519	CDHH12061R KC5010	B199
1937520	CDHH12061L KC5025	B199
1937530	GPCD505 KC5025	B238
1937532	TDHB12807501 KC5010	B263
1937534	TDHB12807501 KT315	B263
1937535	TDHB12807505 KC5010	B263
1937536	TDHB12807505 KC5025	B263
1937538	TDHB1280751 KC5010	B263
1937539	TDHB1280751 KC5025	B263
1937540	TDHB1280751 KT315	B263
1937542	TDHB1280752 KC5025	B263
1937544	TDHH12807505L KC5010	B263
1937550	TDHH1280751L KC5010	B263
1937562	WPGT1510UF KC5010	B288
1937563	WPGT15105UF KC5010	B288
1937571	TPCB2205 KC5010	B266
1937580	TPCG2205L KC5010	B266
1937586	TPCG221L KC5010	B266
1937592	TPCG222L KC5010	B266
1937598	TPCH2205 KC5010	B266
1937601	TPCH221 KC5010	B266
1937615	TD6P05 KC5010	B266
1937618	TD6P1 KC5010	B266
1937621	TD6P2 KC5010	B266
1937645	TPGH322 KC5010	B266
1937946	E04HSCFDL12	B200
1937955	E05MSCFDR12	B200
1937956	E05MSCLDL12	B202
1937957	E05MSCLDR12	B202
1937958	E03MSCLDL12A	B202
1937960	A2906XSCLDR1205	B203
1937962	A2906XSCLDR121	B203
1937966	A3206XSCLDR1205	B203
1937970	A3206XSCLDR121	B203
1937974	A0406XSCLDR12075	B203
1937976	A0406XSCFDR12125	B201
1937978	A0406XSCLDR12125	B203
1937982	A2908XSCLDR121	B203
1937990	A3208XSCLDR121	B203
1937992	A0408XSCFDR12075	B201
1938000	E2910XSCLDR12088	B203
1938010	E3210KSCLDR122	B203
1938013	E0410HSCLDR12125	B203
1938018	E2908XSCLDR12088	B203
1938022	E3208XSCLDR121	B203
1939528	B977A09700 KC7315	G136
1940731	HTSR10CI	J75
1940732	HTSR11CI	J75
1940738	B513S08000 A30	J76
1940739	B513S08000 AS3	J76
1940740	B513S10000 A30	J76
1940741	B513S10000 AS3	J76
1940783	HTSR12CI	J75
1940784	HTSR13CI	J75
1940785	HTSR14CI	J75
1940786	HTSR10CE	J75
1940787	HTSR11CE	J75
1940788	HTSR12CE	J75
1940789	HTSR13CE	J75
1940790	HTSR14CE	J75
1940958	CNMG432RP KC5010	B53
1940959	CNMG434RP KC5010	B53
1940961	CNMG543RP KC5010	B53
1940965	DNMG432RP KC5010	B84
1940967	DNMG434RP KC5010	B84
1940968	DNMG442RP KC5010	B84
1940971	SNMG432RP KC5010	B105
1940972	SNMG433RP KC5010	B105
1940975	SNMG643RP KC5010	B105
1940977	TNMG332RP KC5010	B127
1940979	TNMG432RP KC5010	B127
1940984	VNMG332RP KC5010	B148
1940986	WNMG432RP KC5010	B161
1940987	WNMG433RP KC5010	B161
1941189	B977A12800 KC7315	G137
1941190	B977A15800 KC7315	G138
1942326	HTSR043R025M	J75
1942327	HTSR049R028M	J75
1942328	HTSR052R028M	J75
1942450	B978A12800 KC7315	G140
1942715	193.397	J75
1949633	A4SMR1616K0314	C124
1949634	A4SML1616K0314	C125
1949635	A4SMR2020K0314	C124
1949636	A4SML2020K0314	C125
1949637	A4SMR2525M0317	C124
1949638	A4SML2525M0317	C125
1949639	A4SMR2020K0414	C124
1949640	A4SML2020K0414	C125
1949641	A4SMR2525M0417	C124
1949642	A4SML2525M0417	C125
1949643	A4SMR3225P0417	C124
1949644	A4SML3225P0417	C125
1949645	A4SMR2020K0519	C124
1949646	A4SML2020K0519	C125
1949647	A4SMR2525M0520	C124
1949648	A4SML2525M0520	C125
1949649	A4SMR3225P0522	C124
1949650	A4SML3225P0522	C125
1949651	A4ENN2020K0407	C131
1949652	A4ENN2525M0407	C131
1949654	A4ENN2525M0509	C131
1949655	A20RA4EMR0307M	C133
1949656	A20RA4EML0307M	C133
1949657	A25RA4EMR0310M	C133
1949658	A25RA4EML0310M	C133
1949659	A32SA4EMR0312M	C133
1949660	A32SA4EML0312M	C133
1949661	A20RA4EMR0407M	C133
1949662	A20RA4EML0407M	C133
1949663	A25RA4EMR0410M	C133
1949664	A25RA4EML0410M	C133
1949665	A32SA4EMR0412M	C133
1949666	A32SA4EML0412M	C133
1949667	A40TA4EMR0416M	C133
1949668	A40TA4EML0416M	C133
1949669	A32SA4EMR0516M	C133
1949670	A32SA4EML0516M	C133
1949671	A40TA4EMR0516M	C133
1949672	A40TA4EML0516M	C133
1950263	E0408HSCLDR1225	B203
1950374	A04HSWUPR15	B291
1950376	A05HSWUPR15	B291
1950378	E03MSWUPR15	B292
1950380	E04MSWUPR15	B292
1950382	E05MSWUPR15	B292
1950388	E06MSWUPR2	B292
1950390	E08RSWUPR2	B292
1950413	E06SSTLDR2	B265
1950709	SECW443AESN7GN KY3500	S41
1950712	SDCW43EDSR8GN KY3500	T117, T124
1952700	A4G0305M03U02GMN KC5010	C106
1952701	A4G0305M03U02GMN KC5025	C106
1952702	A4G0305M03U04GMN KC5010	C106
1952733	A4G0305M03U04GMN KC5025	C106
1952734	A4G0405M04U04GMN KC5010	C106
1952735	A4G0405M04U04GMN KC5025	C106
1952736	A4G0405M04U08GMN KC5010	C106
1952737	A4G0405M04U08GMN KC5025	C106
1952738	A4G0505M05U04GMN KC5010	C106
1952740	A4G0505M05U08GMN KC5010	C106
1952742	A4G0305M03U02GMP KT315	C105
1952743	A4G0305M03U02GMP KC5010	C105
1952744	A4G0305M03U02GMP KC5025	C105
1952745	A4G0305M03U04GMP KT315	C105
1952746	A4G0305M03U04GMP KC5010	C105
1952747	A4G0305M03U04GMP KC5025	C105
1952748	A4G0405M04U04GMP KT315	C105
1952749	A4G0405M04U04GMP KC5010	C105
1952750	A4G0405M04U04GMP KC5025	C105
1952751	A4G0405M04U08GMP KT315	C105
1952752	A4G0405M04U08GMP KC5010	C105
1952753	A4G0405M04U08GMP KC5025	C105
1952755	A4G0505M05U04GMP KC5010	C105
1952758	A4G0505M05U08GMP KC5010	C105
1952760	A4G0300M03P02GMP KC5010	C105
1952762	A4G0300M03P04GMP KC5010	C105
1952763	A4G0300M03P04GMP KC5025	C105
1952764	A4G0400M04P02GMP KC5010	C105
1952765	A4G0400M04P02GMP KC5025	C105
1952766	A4G0400M04P04GMP KC5010	C105
1952767	A4G0400M04P04GMP KC5025	C105
1952768	A4G0400M04P08GMP KC5010	C105
1952769	A4G0400M04P08GMP KC5025	C105
1952771	A4G0500M05P04GMP KC5025	C105
1952773	A4G0500M05P08GMP KC5025	C105
1952774	A4R0405M04U00GMN KC5010	C107
1952775	A4R0405M04U00GMN KC5025	C107
1952776	A4R0505M05U00GMN KC5010	C107
1952777	A4R0505M05U00GMN KC5025	C107
1952778	A4R0400M04P00GMP KC5010	C106
1952779	A4R0400M04P00GMP KC5025	C106
1952780	A4R0500M05P00GMP KC5010	C106
1952847	A4C0305N00CF02 KC5025	C112
1952848	A4C0305R06CF02 KC5025	C113
1952849	A4C0305L06CF02 KC5025	C113
1953085	A4G0300M03P02GMP K313	C105
1953086	A4G0300M03P04GMP K313	C105
1953087	A4G0400M04P02GMP K313	C105
1953088	A4G0400M04P04GMP K313	C105
1953090	A4G0500M05P04GMP K313	C105
1953091	A4G0500M05P08GMP K313	C105
1953092	A4R0400M04P00GMP K313	C106
1953153	A4R0500M05P00GMP K313	C106
1953177	A4SMR100314	C122
1953178	A4SML100314	C123
1953179	A4SMR120314	C122
1953180	A4SML120314	C123
1953181	A4SMR160317	C122
1953182	A4SML160317	C123
1953323	A4SMR120414	C122
1953324	A4SML120414	C123
1953325	A4SMR160417	C122
1953326	A4SML160417	C123
1953327	A4SMR120519	C122
1953328	A4SML120519	C123
1953329	A4SMR160520	C122
1953330	A4SML160520	C123
1953331	A4ENN120407	C130
1953332	A4ENN160407	C130
1953334	A4ENN160509	C130
1953335	A12RA4EMR0307N	C132
1953336	A12RA4EML0307N	C132
1953337	A16RA4EMR0310N	C132
1953338	A16RA4EML0310N	C132
1953339	A20SA4EMR0312N	C132
1953341	A12RA4EMR0407N	C132
1953342	A12RA4EML0407N	C132
1953343	A16RA4EMR0410N	C132
1953344	A16RA4EML0410N	C132
1953345	A20SA4EMR0412N	C132
1953347	A24TA4EMR0416N	C132
1953349	A20SA4EMR0516N	C132
1953351	A24TA4EMR0516N	C132
1953352	A24TA4EML0516N	C132
1956691	SEF180200RSS125M	I26
1956692	SEF750812RSS125	I25
1956753	SEF812875RSS150	I25
1956754	SEF875937RSS150	I25
1956755	SEF9371010RSS150	I25
1957224	A4SMR100414	C122
1957226	A4SMR200417	C122
1957227	A4SML200417	C123
1957228	A4SMR200522	C122
1957229	A4SML200522	C123
1957573	MS2090	C130–131
1957789	B966A05900 KC7315	G130

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
1959664	B977A05600 KC7315	G135
1959665	B977A03300 KC7315	G134
1959666	B977A06900 KC7315	G135
1960078	B977A14900 KC7315	G137
1960079	B977A15100 KC7315	G137
1961106	B976A09700 KC7315	G136
1961108	B966A03200 KC7315	G130
1962982	CT15	B291–292
1963407	DFR200R4WD32M	J12
1963863	QC21	B265
1967470	SN7T	W40
1971584	B978A09750 KC7315	G140
1971763	B977A08900 KC7315	G136
1972376	B966A13200 KC7315	G132
1974209	SPHX090310R20 KC7215	J115
1974252	S411	B285
1975006	B977A05200 KC7315	G135
1980539	BGHX15L504PCFRGG K110M	S125
1981264	BGHX15L508PCFRGG K110M	S125
1981758	BGHX15L515PCFRGG K110M	S125
1981759	BGHX15L515PCFRGG KC510M	S125
1982315	DFT030204HP KMF	J101
1982316	DFT030304HP KMF	J101
1982397	B966A06200 KC7315	G130
1983309	3.42805R081 KC7215	I30
1983310	3.42807R081 KC7215	I30
1983992	CCMT432LF KC5025	B191
1984003	CCMT3252MF KC5025	B191
1984183	B976A05200 KC7315	G135
1984545	B978A11200 KC7315	G140
1985037	B966A06700 KC7315	G131
1985038	B966A08200 KC7315	G131
1985784	KMSP315IP	B59, B87, B92, B113, B131, B150–151, B154, B163
1985792	TTP9	U28–29
1985985	B978A10800 KC7315	G140
1986652	B977A08200 KC7315	G136
1986773	B976A06200 KC7315	G135
1987659	SPHX1205PCSRGPB KCK15	S68
1988099	B966A06900 KC7315	G131
1988100	B966A07900 KC7315	G131
1988931	B977A05700 KC7315	G135
1988932	B976A05300 KC7315	G135
1988983	B976A08700 KC7315	G136
1989347	A4M50L0314M	C138
1989348	A4M50R0314M	C138
1989349	A4M50L0414M	C138
1989350	A4M50R0414M	C138
1989351	A4M50L0519M	C138
1989352	A4M50R0519M	C138
1990689	SECW443AEEN22GNW KC725M	S41
1991229	B966A12600 KC7315	G132
1992230	B977A07700 KC7315	G136
1992232	B966A10400 KC7315	G131
1992822	B105A04600 K10	G24
1993391	KSEM136R1WN16F45M	H85–86
1993392	KSEM146R1WN20F45M	H85–86
1993403	KSEM181R1WN25F45M	H85–86
1993404	KSEM221R1WN25F45M	H85–86
1993405	KSEM261R1WN32F45M	H85–86
1993406	KSEM281R1WN32F45M	H85–86
1993407	KSEM301R1WN32F45M	H85–86
1993408	KSEM321R1WD50F45M	H85–86
1993409	KSEM361R1WD50F45M	H85–86
1993552	THW2M	T63, T65, V77, V139–142
1994080	FAS100302GD KC7215	H42
1994291	TTP20	S32, S50, V155–156
1995000	B966A05100 KC7315	G130
1995002	B966A08600 KC7315	G131
1995073	B966A09400 KC7315	G131
1995074	B966A10100 KC7315	G131
1995075	B966A11400 KC7315	G132
1995076	B966A12100 KC7315	G132
1997389	B966A08100 KC7315	G131
1997391	B966A11800 KC7315	G132
1998276	CNGA431E KD1405	B362
1998277	CNGA432E KD1405	B362
1998279	CNMS432E KD1405	B363
1998280	DNGA431E KD1405	B364
1998287	VNMS331E KD1405	B368
1998288	VNMS332E KD1405	B368
1998291	CPGW2151E KD1405	B363
1998293	CPGW3251E KD1405	B363
1998296	DPGW3251E KD1405	B365
1998302	VBGW332E KD1405	B367
1998336	A4G0300M03P04E KD1405	B370, C110
1998337	A4G0400M04P04E KD1405	B370, C110
1998338	A4G0500M05P08E KD1405	B370, C110
1998340	A4R0500M05P00E KD1405	B370, C111
1998947	B966A09600 KC7315	G131
2006399	12748308500	S82
2008288	12748601000	S30–31
2018142	12748358200	S77, S82, S88
2018164	12748500200	S83
2018166	12748500400	S83
2018285	12148006000	T24
2018296	MS2260	V58
2018679	12148068700	K116–117
2029553	12148044900	S30–31, S77, S82, S88
2032259	12748600900	S77, S82, S88
2033468	12748503400	S83
2033852	360.660	H87
2033863	360.661	H87
2033865	360.663	H87
2033866	360.664	H87
2033867	360.665	H87
2033868	360.666	H87
2033869	360.667	H87
2033870	360.668	H87
2033871	360.669	H87
2033872	360.670	H87
2035319	DFR190R4WD32M	J12
2035688	OFPT64AFSN6HB KC725M	S52
2035689	OFPT64AFEN6GB KC725M	S52
2036154	B976A08100 KC7315	G136
2036529	KSEM1700HPM KC7315	H52
2036530	KSEM2200HPM KC7315	H52
2036531	KSEM1750HPM KC7315	H52
2036532	KSEM2000HPM KC7315	H52
2036592	DFR0656R3SSF075	J14
2036604	KSEM3200HPM KC7315	H53
2036605	KSEM1400HPM KC7315	H52
2036606	KSEM1500HPM KC7315	H52
2036607	KSEM2250HPM KC7315	H52
2036608	KSEM1600HPM KC7315	H52
2036609	KSEM2600HPM KC7315	H53
2036612	KSEM2650HPM KC7315	H53
2036643	DFR0688R3SSF075	J14
2036644	DFR0703R3SSF075	J14
2036645	DFR0734R3SSF075	J14
2036646	DFR0750R3SSF100	J14
2036647	DFR0813R3SSF100	J14
2036648	DFR0844R3SSF100	J14
2036649	DFR0875R3SSF100	J14
2036650	DFR0906R3SSF100	J14
2036651	DFR0938R3SSF100	J14
2036652	DFR0969R3SSF100	J14
2036653	DFR0984R3SSF100	J14
2036654	DFR1000R3SSF100	J14
2036655	DFR0500R2SSF075	J13
2036656	DFR0563R2SSF075	J13
2036657	DFR0625R2SSF075	J13
2036658	DFR0688R2SSF075	J13
2036659	DFR0750R2SSF100	J13
2036660	DFR0813R2SSF100	J13
2036661	DFR0875R2SSF100	J13
2036662	DFR0938R2SSF100	J13
2036663	DFR1000R2SSF100	J13
2036664	DFR0625R3SSF100	J14
2036665	DFR0656R3SSF100	J14
2036666	DFR0688R3SSF100	J14
2036667	DFR0703R3SSF100	J14
2036668	DFR0734R3SSF100	J14
2036670	DFR0750R3SSF075	J14
2036671	DFR0781R3SSF075	J14
2036672	DFR0813R3SSF075	J14
2036673	DFR0844R3SSF075	J14
2036674	DFR0875R3SSF075	J14
2036675	DFR1000R3SSF125	J14
2036695	DFR0781R3SSF100	J14
2036703	KSEM3300HPM KC7315	H53
2036704	KSEM2700HPM KC7315	H53
2036705	KSEM2100HPM KC7315	H52
2036706	KSEM2050HPM KC7315	H52
2036882	KSEM1800HPM KC7315	H52
2036903	KSEM2300HPM KC7315	H52
2036904	KSEM2400HPM KC7315	H52
2036905	KSEM3000HPM KC7315	H53
2036906	KSEM1250HPM KC7315	H52
2036907	KSEM1450HPM KC7315	H52
2036909	KSEM1300HPM KC7315	H52
2036910	KSEM2500HPM KC7315	H52
2036911	KSEM1650HPM KC7315	H52
2036912	KSEM3900HPM KC7315	H53
2036923	KSEM2900HPM KC7315	H53
2036924	KSEM1350HPM KC7315	H52
2036953	KSEM3050HPM KC7315	H53
2036954	KSEM1560HPM KC7315	H52
2036955	KSEM1900HPM KC7315	H52
2036956	KSEM2150HPM KC7315	H52
2036957	KSEM3500HPM KC7315	H53
2037058	B966A06400 KC7315	G131
2037059	B967A10000 KC7315	G131
2038613	B966A06050 KC7315	G130
2039536	SR3 KWH	B243–244
2039537	SR4	B243
2040139	DFR220R4WD32M	J12
2040680	B977A04300 KC7315	G135
2040682	B966A03900 KC7315	G130
2043136	B966A10600 KC7315	G131
2043137	B966A11600 KC7315	G132
2043415	B978A05700 KC7315	G139
2043417	B977A10600 KC7315	G137
2043418	B977A14600 KC7315	G137
2043552	KSEM3950HPM KC7315	H53
2043779	B977A06100 KC7315	G135
2044606	B978A11800 KC7315	G140
2044834	B976A19700 KC7315	G138
2045222	B966A05300 KC7315	G130
2045293	DFT030204HP KC7140	J101
2045294	DFT030304HP KC7140	J101
2045616	B978A11400 KC7315	G140
2045646	KSEM2950HPM KC7315	H53
2045820	B977A12300 KC7315	G137
2045822	B977A11600 KC7315	G137
2045867	B976A16800 KC7315	G138
2047379	KSEM0500HP KC7315	H52
2047380	KSEM1280HPM KC7315	H52
2047382	KSEM0516HP KC7315	H52
2047393	KSEM1320HPM KC7315	H52
2047395	KSEM1370HPM KC7315	H52
2047396	KSEM1380HPM KC7315	H52
2047397	KSEM0547HP KC7315	H52
2047398	KSEM1410HPM KC7315	H52
2047399	KSEM1420HPM KC7315	H52
2047400	KSEM0563HP KC7315	H52
2047401	KSEM1440HPM KC7315	H52
2047403	KSEM0578HP KC7315	H52
2047404	KSEM1480HPM KC7315	H52
2047405	KSEM0594HP KC7315	H52
2047406	KSEM1530HPM KC7315	H52
2047408	KSEM1550HPM KC7315	H52
2047409	KSEM1570HPM KC7315	H52
2047410	KSEM1580HPM KC7315	H52
2047411	KSEM0634HP KC7315	H52
2047412	KSEM1620HPM KC7315	H52
2047413	KSEM0641HP KC7315	H52
2047414	KSEM0656HP KC7315	H52
2047415	KSEM0672HP KC7315	H52
2047416	KSEM0688HP KC7315	H52
2047417	KSEM0703HP KC7315	H52
2047418	KSEM0719HP KC7315	H52
2047419	KSEM1850HPM KC7315	H52
2047420	KSEM0734HP KC7315	H52
2047421	KSEM0750HP KC7315	H52
2047422	KSEM0759HP KC7315	H52
2047423	KSEM1950HPM KC7315	H52
2047424	KSEM0781HP KC7315	H52
2047425	KSEM0797HP KC7315	H52
2047426	KSEM0813HP KC7315	H52
2047427	KSEM0844HP KC7315	H52
2047428	KSEM0859HP KC7315	H52
2047429	KSEM0875HP KC7315	H52
2047430	KSEM0884HP KC7315	H52
2047431	KSEM0922HP KC7315	H52
2047432	KSEM2350HPM KC7315	H52
2047433	KSEM0938HP KC7315	H52
2047434	KSEM2450HPM KC7315	H52
2047435	KSEM0969HP KC7315	H52
2047436	KSEM1000HP KC7315	H52
2047437	KSEM2550HPM KC7315	H52
2047438	KSEM1011HP KC7315	H52
2047439	KSEM1031HP KC7315	H53
2047440	KSEM1047HP KC7315	H53
2047441	KSEM2750HPM KC7315	H53
2047442	KSEM1094HP KC7315	H53
2047443	KSEM2800HPM KC7315	H53
2047444	KSEM1109HP KC7315	H53
2047445	KSEM2850HPM KC7315	H53
2047446	KSEM1125HP KC7315	H53
2047447	KSEM1156HP KC7315	H53
2047448	KSEM1172HP KC7315	H53
2047449	KSEM3100HPM KC7315	H53
2047450	KSEM3150HPM KC7315	H53
2047451	KSEM1250HP KC7315	H53
2047452	KSEM3250HPM KC7315	H53
2047453	KSEM1313HP KC7315	H53
2047456	KSEM3400HPM KC7315	H53
2047458	KSEM3550HPM KC7315	H53
2047460	KSEM3600HPM KC7315	H53
2047464	KSEM3750HPM KC7315	H53
2047465	KSEM3800HPM KC7315	H53
2047466	KSEM1500HP KC7315	H53
2047468	KSEM3850HPM KC7315	H53
2047469	KSEM4000HPM KC7315	H53
2047470	KSEM0625HP KC7315	H52
2047471	KSEM0766HP KC7315	H52
2047472	KSEM1188HP KC7315	H53
2047474	KSEM1219HP KC7315	H53
2047477	KSEM1344HP KC7315	H53
2047478	KSEM1375HP KC7315	H53
2047698	OFPT64AFSN6HB KC522M	S52
2047701	OFPT64AFEN6GB KC522M	S52
2049487	B977A05100 KC7315	G135
2049488	B977A11800 KC7315	G137
2049489	B977A12200 KC7315	G137
2050081	MS2111	C183, C185, C188–189, C192, D30
2050082	S2112	C182, C184–187, C189, C191, C194–195, D25–29, D35, D37–38
2050230	B978A09800 KC7315	G140
2057426	MTFNL12CA3	B140
2071739	MSSNL12CA4	B117
2071758	MSSNL10CA3	B117
2072222	MSKNR20CA5	B115
2074429	MTFNR16CA3	B140
2074430	MSKNR16CA4	B115
2074432	MSRNR16CA4	B116
2074433	MCFNR16CA4	B72
2074904	MSTNR12CA4	B118
2077947	MCLNL12CA4	B74
2078231	MSRNR12CA4	B116
2078236	MTFNR12CA3	B140
2079654	NG3189R KC5010	C170
2114011	MSKNR10CA3	B115
2114013	MSKNR12CA4	B115
2114015	MSYNR10CA3	B119
2114034	CTFPL10CA2	B186, B397
2114041	MTGNR12CA3	B141
2116588	CTFPR10CA2	B186, B397
2193621	MTFNL16CA3	B140
2202438	KRBB10FABDRS204C	K78, K100
2202439	KRBB10SCLDR4060C	K78, K100
2202440	KRBB10SCFPR06085C	K78, K100
2202450	KRBB10SCFPR06110C	K78, K101
2202451	KRBB10SCFPR06135C	K78, K101
2202510	B977A05300 KC7315	G135

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2203486	B966A08400 KC7315	G131
2203489	B977A03900 KC7315	G134
2203577	B977A12600 KC7315	G137
2203579	B977A07100 KC7315	G135
2203787	B977A16200 KC7315	G138
2203834	B977A08700 KC7315	G136
2204116	B966A13300 KC7315	G132
2204393	CBTF150R2WD20N2M	J114
2204394	CBTF160R2WD20N2M	J114
2204395	CBTF170R2WD20N2M	J114
2204396	CBTF200R2WD20N2M	J114
2204397	CBTF210R2WD20N2M	J114
2204398	CBTF210R2WD20N3M	J114
2204399	CBTF220R2WD20N2M	J114
2204400	CBTF230R2WD20N3M	J114
2204401	CBTF250R2WD20N3M	J114
2204402	CBTF340R2WD32N3M	J114
2204403	CBTF350R2WD32N3M	J114
2204404	CBTF380R2WD32N3M	J114
2204405	CBTF180R2WD20N2M	J114
2204406	CBTF230R2WD20N2M	J114
2204407	CBTF250R2WD20N2M	J114
2204408	CBTF240R2WD20N3M	J114
2204409	CBTF270R2WD20N3M	J114
2210084	LNEQ1245R04 KCPK30	U20
2210086	LNEU1245R04 KCPK30	U19
2210095	SDET43PDSR8GB KCPK30	T116, T123, U39
2210766	OFPT64AFSN6HB KCPK30	S52
2210767	OFPT64AFEN6GB KCPK30	S52
2212773	OFKT64AFSN6HB KC522M	S52
2213696	B966A03300 KC7315	G130
2213700	B966A04300 KC7315	G130
2213701	B966A04400 KC7315	G130
2213842	193.409	S50, V155–156
2213947	WNMG332RP KC5010	B161
2213962	CCMT433MF KC5025	B191
2214237	B978A15200 KC7315	G141
2214926	B966A11300 KC7315	G131
2217005	B966A07700 KC7315	G131
2217646	NTB3L12B KC5010	D18
2217647	NTB3R12B KC5010	D18
2217898	B976A13300 KC7315	G137
2218437	SNHX1103T KCPK30	U14
2218492	B977A09200 KC7315	G136
2220306	LNEQ1245R04 KCK15	U20
2220307	LNEQ1250R04 KCK15	U20
2220308	LNEQ1255R04 KCK15	U20
2220309	LNEQ1260R04 KCK15	U20
2220334	SPG322 KCK15	B171
2220855	B966A06100 KC7315	G130
2220856	B966A06600 KC7315	G131
2220857	B966A14800 KC7315	G132
2221944	OFPT64AFEN6GB KCK15	S52
2221945	OFPT64AFSN6HB KCK15	S52
2222651	B976A08600 KC7315	G136
2223775	KSEM0493R1SSF075F45	H86
2223776	KSEM0532R1SSF075F45	H86
2223777	KSEM0571R1SSF075F45	H86
2223778	KSEM0625R1SSF075F45	H86
2223779	KSEM0709R1SSF075F45	H86
2223780	KSEM0788R1SSF100F45	H86
2223781	KSEM0867R1SSF100F45	H86
2223782	KSEM0945R1SSF100F45	H86
2223993	KSEM1024R1SSF125F45	H86
2223994	KSEM1103R1SSF125F45	H86
2223995	KSEM1182R1SSF125F45	H86
2223996	KSEM1260R1SSF125F45	H86
2223997	KSEM1418R1SSF125F45	H86
2224587	B976A05600 KC7315	G135
2224588	B976A09100 KC7315	G136
2226032	VNMG331MS K313	B147
2226630	B976A14100 KC7315	G137
2226662	B977A12900 KC7315	G137
2227124	ODG1063ISGB KCPK30	U9
2227125	ODG1063ISGD KCPK30	U9
2227126	ODG2087ISGB KCPK30	U9
2227127	ODG2087ISGD KCPK30	U9
2227128	ODG3125ISGB KCPK30	U9
2227129	ODG3125ISGD KCPK30	U9
2227130	ODG4158ISGB KCPK30	U9
2227131	ODG4158ISGD KCPK30	U9
2227133	ODG6236ISGB KCPK30	U10
2227145	SNHX1102PZTNGP KCPK30	U15
2227147	SNHX1203PZTNGP KCPK30	U15
2227149	SNHX12L4PZTNGP KCPK30	U15
2227150	SNHX12L5PZTNGP KCPK30	U15
2227155	SPHX1205PCERGPB KCPK30	S68
2227156	SPHX1205PCERGN1WB KCPK30	S69
2227157	SPHX1205PCSRGPB KCPK30	S68
2227159	SPHX1205ZCERGP KCPK30	S65
2227160	SPHX1205ZCSRGP KCPK30	S65
2227164	SPHX15T6ZCERGP KCPK30	S71
2227165	SPHX15T6ZCSRGP KCPK30	S71
2227338	B966A10300 KC7315	G131
2227374	OFKT64AFEN6GB KC520M	S52
2227380	OFKT64AFSN6HB KC520M	S52
2227984	B976A12800 KC7315	G137
2228362	B977A05900 KC7315	G135
2229054	B977A19200 KC7315	G138
2229055	B966A10800 KC7315	G131
2229138	B977A13300 KC7315	G137
2229285	THW3M	U28–29, U35–37
2229362	B256A16000 KC7315	G58
2229364	B256A13500 KC7315	G58
2229365	B256A11000 KC7315	G58
2229366	B256A14000 KC7315	G58
2229393	B256A08800 KC7315	G58
2229412	OFKT64AFSN6HB KCPK30	S52
2229543	OFKT64AFEN6GB KC522M	S52
2229547	CNGG431FS KC5010	B46
2229549	CNGG431FS KC5025	B46
2229550	CNGG432FS KC5010	B46
2229551	CNGG432FS KC5025	B46
2229552	DNGG4305FS KC5010	B77
2229644	DNGG431FS KC5010	B77
2229645	DNGG431FS KC5025	B77
2229646	DNGG432FS KC5010	B77
2229648	CNMG4305MS KC5010	B52
2229649	CNMG4305MS KC5025	B52
2229651	CNMG430MS KC5010	B52
2229652	CNMG430MS KC5025	B52
2229653	CNMG431MS K313	B52
2229654	CNMG431MS KC5010	B52
2229655	CNMG431MS KC5025	B52
2229656	CNMG432MS K313	B52
2229657	CNMG432MS KC5010	B52
2229659	CNMG432MS KC5025	B52
2229660	DNMG431MS K313	B82
2229661	DNMG431MS KC5010	B82
2229662	DNMG431MS KC5025	B82
2229693	DNMG432MS K313	B82
2229694	DNMG432MS KC5010	B82
2229695	DNMG432MS KC5025	B82
2229696	VNMG331MS KC5010	B147
2229697	VNMG331MS KC5025	B147
2230406	B977A14200 KC7315	G137
2230539	B977A06700 KC7315	G135
2231579	B966A07200 KC7315	G131
2231776	B976A06600 KC7315	G135
2231777	B976A08300 KC7315	G136
2231778	B976A09600 KC7315	G136
2231830	B966A12300 KC7315	G132
2233364	B977A16600 KC7315	G138
2234423	OFKT64AFEN6GB KCPK30	S52
2234816	A4C0405N00CF02 KC5025	C112
2234819	A4C0305R10CF02 KC5025	C113
2234821	A4C0405R10CF02 KC5025	C113
2234823	A4R0305M03U00GMN KC5025	C107
2234824	A4R0305M03U00GMN KC5010	C107
2234825	A4R0300M03P00GMP KC5025	C106
2234826	A4R0300M03P00GMP KC5010	C106
2235052	50A03RP90BG15CUM	S121
2235053	63A03RP90BG15CUM	S121
2235054	80A03RP90BG15CUM	S121
2235055	100B04RP90BG15CUM	S121
2235056	125B05RP90BG15CUM	S121
2235057	160B06RP90BG15CUM	S121
2235124	B978A19840 KC7315	G141
2235210	A4R0300M03P00GMP K313	C106
2236065	B977A08400 KC7315	G136
2238510	KSEM0500R3SS075	H77
2238511	KSEM0509R3SS075	H77
2238523	KSEM0531R3SS075	H77
2238524	KSEM0547R3SS075	H77
2238525	KSEM0563R3SS075	H77
2238526	KSEM0578R3SS075	H77
2238527	KSEM0594R3SS075	H77
2238528	KSEM0609R3SS075	H77
2238529	KSEM0625R3SS075	H77
2238530	KSEM0634R3SS075	H77
2238531	KSEM0641R3SS075	H77
2238532	KSEM0656R3SS075	H77
2238533	KSEM0672R3SS075	H77
2238534	KSEM0688R3SS075	H77
2238535	KSEM0703R3SS075	H77
2238536	KSEM0719R3SS075	H77
2238537	KSEM0734R3SS075	H77
2238538	KSEM0750R3SS075	H77
2238539	KSEM0750R3SS100	H77
2238540	KSEM0759R3SS075	H77
2238541	KSEM0766R3SS100	H77
2238542	KSEM0781R3SS100	H77
2238543	KSEM0797R3SS100	H77
2238544	KSEM0813R3SS100	H77
2238545	KSEM0844R3SS100	H77
2238546	KSEM0859R3SS100	H77
2238547	KSEM0875R3SS100	H77
2238548	KSEM0875R3SS125	H77
2238549	KSEM0884R3SS100	H77
2238550	KSEM0906R3SS100	H78
2238551	KSEM0922R3SS100	H78
2238552	KSEM0938R3SS100	H78
2238553	KSEM0969R3SS100	H78
2238554	KSEM0984R3SS100	H78
2238555	KSEM1000R3SS100	H78
2238557	KSEM1011R3SS125	H78
2238558	KSEM1031R3SS125	H78
2238560	KSEM1063R3SS125	H78
2238562	KSEM1109R3SS125	H78
2238563	KSEM1125R3SS125	H78
2238564	KSEM1156R3SS125	H78
2238565	KSEM1172R3SS125	H78
2238566	KSEM1188R3SS125	H78
2238568	KSEM1219R3SS125	H78
2238569	KSEM1250R3SS125	H78
2238570	KSEM1250R3SS150	H78
2238571	KSEM1281R3SS150	H78
2238572	KSEM1297R3SS150	H78
2238573	KSEM1313R3SS150	H78
2238574	KSEM1328R3SS150	H78
2238576	KSEM1375R3SS150	H78
2238577	KSEM1406R3SS150	H78
2238579	KSEM1438R3SS150	H78
2238581	KSEM1500R3SS150	H78
2238582	KSEM1514R3SS150	H78
2239620	DCMT3252FW KT315	B225
2239685	DCMT3251FW KC5010	B225
2240351	B977A10300 KC7315	G136
2240426	HNEN0905XNSN KY3500	S79
2240427	HNEN0905ANSN KY3500	S79
2242390	B966A05600 KC7315	G130
2242780	B978A06600 KC7315	G139
2244229	B977A08100 KC7315	G136
2244276	B977A18800 KC7315	G138
2244883	CNMG433MS KC5010	B52
2244884	CNMG434MS KC5010	B52
2244885	CNMG542MS KC5010	B52
2244886	CNMG543MS KC5010	B52
2244887	CNMG642MS KC5010	B52
2244888	CNMG643MS KC5010	B52
2244891	DNMG4305MS KC5010	B82
2244892	DNMG433MS KC5010	B82
2244893	DNMG441MS KC5010	B82
2244894	DNMG442MS KC5010	B82
2244896	SNMG432MS KC5010	B103
2244897	SNMG433MS KC5010	B103
2244901	TNMG3305MS KC5010	B125
2244902	TNMG331MS KC5010	B125
2244903	TNMG332MS KC5010	B125
2244904	TNMG431MS KC5010	B125
2244905	TNMG432MS KC5010	B125
2244910	VNMG330MS KC5010	B147
2244911	VNMG3305MS KC5010	B147
2244912	VNMG332MS KC5010	B147
2244913	VNMG431MS KC5010	B147
2244914	VNMG432MS KC5010	B147
2244916	WNMG4305MS KC5010	B160
2244917	WNMG431MS KC5010	B160
2244918	WNMG432MS KC5010	B160
2244919	CNMG433MS KC5025	B52
2244920	CNMG434MS KC5025	B52
2244921	CNMG542MS KC5025	B52
2244922	CNMG543MS KC5025	B52
2244923	CNMG642MS KC5025	B52
2244924	CNMG643MS KC5025	B52
2244929	DNMG441MS KC5025	B82
2244930	DNMG442MS KC5025	B82
2244931	DNMG443MS KC5025	B82
2244932	SNMG432MS KC5025	B103
2244936	SNMG643MS KC5025	B103
2244937	TNMG3305MS KC5025	B125
2244938	TNMG331MS KC5025	B125
2244939	TNMG332MS KC5025	B125
2244940	TNMG431MS KC5025	B125
2244941	TNMG432MS KC5025	B125
2244943	TNMG542MS KC5025	B125
2244947	VNMG3305MS KC5025	B147
2244948	VNMG332MS KC5025	B147
2244950	VNMG432MS KC5025	B147
2244953	WNMG431MS KC5025	B160
2244954	WNMG432MS KC5025	B160
2244955	CNMG433MS K313	B52
2244958	CNMG543MS K313	B52
2244965	DNMG441MS K313	B82
2244966	DNMG442MS K313	B82
2244977	TNMG432MS K313	B125
2244981	TNMG544MS K313	B125
2244983	VNMG3305MS K313	B147
2244984	VNMG332MS K313	B147
2244989	WNMG431MS K313	B160
2244990	WNMG432MS K313	B160
2245036	TNMG438RP KC5010	B127
2245037	TNMG543RP KC5010	B127
2245045	CNMG432RP KC5025	B53
2245046	CNMG433RP KC5025	B53
2245048	CNMG542RP KC5025	B53
2245049	CNMG543RP KC5025	B53
2245050	CNMG544RP KC5025	B53
2245051	CNMG643RP KC5025	B53
2245053	DNMG432RP KC5025	B84
2245056	DNMG442RP KC5025	B84
2245059	SNMG432RP KC5025	B105
2245060	SNMG433RP KC5025	B105
2245063	SNMG643RP KC5025	B105
2245064	SNMG644RP KC5025	B105
2245065	TNMG332RP KC5025	B127
2245066	TNMG333RP KC5025	B127
2245067	TNMG432RP KC5025	B127
2245074	VNMG332RP KC5025	B148
2245076	WNMG432RP KC5025	B161
2245079	DNMG332RP KC5010	B84
2245088	SNMG434RP KC5025	B105
2245191	B977A09900 KC7315	G136
2245263	B977A15900 KC7315	G138
2245484	A4SMR2525M0620	C124
2245485	A4SMR2525M0820	C124
2245486	A4SML2525M0620	C125
2245487	A4SML2525M0820	C125
2245738	SPHX060202R20 KC7215	J115
2245739	SPHX060206R20 KC7215	J115
2245740	SPHX060208R20 KC7215	J115
2245741	SPHX070302R20 KC7215	J115
2245742	SPHX070306R20 KC7215	J115
2245833	SPHX070308R20 KC7215	J115
2245834	SPHX070312R20 KC7215	J115
2245836	SPHX090312R20 KC7215	J115
2245837	SPHX090316R20 KC7215	J115
2245839	SPHX120410R20 KC7215	J115
2245840	SPHX120416R20 KC7215	J115
2245841	SPHX120420R20 KC7215	J115
2245843	SPHX150512R20 KC7215	J115
2245844	SPHX150516R20 KC7215	J115
2245845	SPHX150520R20 KC7215	J115
2245846	SPHX060202R21 KC7215	J116
2245847	SPHX060206R21 KC7215	J116
2245848	SPHX060208R21 KC7215	J116
2245849	SPHX070306R21 KC7215	J116

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2245851	SPHX070310R21 KC7215	J116
2245853	SPHX090310R21 KC7215	J116
2245854	SPHX090312R21 KC7215	J116
2245855	SPHX090316R21 KC7215	J116
2245856	SPHX120408R21 KC7215	J116
2245857	SPHX120410R21 KC7215	J116
2245858	SPHX120416R21 KC7215	J116
2245859	SPHX120420R21 KC7215	J116
2245860	SPHX070310R20 KC7215	J115
2245861	SPHX120412R20 KC7215	J115
2245862	SPHX120412R21 KC7215	J116
2245972	HNEN090508S KY3500	S79
2246044	A4G0605M06U08GMP KC5025	C105
2246045	A4G0605M06U08GMP KC5010	C105
2246047	A4G0600M06P08GMP KC5025	C105
2246074	TPMT2151LF KC5025	B268
2246494	SECT443AEFN7LE KC410M	S40
2248306	B966A14300 KC7315	G132
2248993	50HC030M	G79
2248994	50HC050M	G79
2248995	75HC030M	G79
2248996	75HC040M	G79
2248997	75HC050M	G79
2249180	B978A09700 KC7315	G140
2250674	KTIP0335R5SS038	H39
2250675	KTIP0354R5SS038	H39
2250676	KTIP0374R5SS038	H39
2250677	KTIP0374R5SS044	H39
2250678	KTIP0394R5SS044	H39
2250679	KTIP0413R5SS044	H39
2250680	KTIP0433R5SS044	H39
2250681	KTIP0453R5SS050	H39
2250682	KTIP0472R5SS050	H39
2250683	KTIP0492R5SS050	H39
2250684	KTIP0492R5SS056	H39
2250685	KTIP0512R5SS056	H39
2250686	KTIP0532R5SS056	H39
2250687	KTIP0551R5SS056	H39
2250688	KTIP0571R5SS063	H39
2250689	KTIP0591R5SS063	H39
2250690	KTIP0630R5SS069	H39
2250704	KTIP0313R3SS038	H39
2250705	KTIP0335R3SS038	H39
2250706	KTIP0354R3SS038	H39
2250707	KTIP0374R3SS038	H39
2250708	KTIP0374R3SS044	H39
2250709	KTIP0394R3SS044	H39
2250710	KTIP0413R3SS044	H39
2250711	KTIP0433R3SS044	H39
2250712	KTIP0453R3SS050	H39
2250723	KTIP0472R3SS050	H39
2250724	KTIP0492R3SS050	H39
2250725	KTIP0492R3SS056	H39
2250726	KTIP0512R3SS056	H39
2250727	KTIP0532R3SS056	H39
2250728	KTIP0551R3SS056	H39
2250729	KTIP0571R3SS063	H39
2250730	KTIP0591R3SS063	H39
2250731	KTIP0630R3SS069	H39
2250771	CNGG430FS KC5010	B46
2250772	CNGG4305FS KC5010	B46
2250775	DNGG3305FS KC5010	B77
2250784	TNGG331FS KC5010	B121
2250789	VNGG3305FS KC5010	B144
2250790	VNGG331FS KC5010	B144
2250791	VNGG332FS KC5010	B144
2250809	TNGG3305FS KC5025	B121
2250810	TNGG331FS KC5025	B121
2250816	VNGG331FS KC5025	B144
2250817	VNGG332FS KC5025	B144
2250824	B966A05200 KC7315	G130
2251521	SSP025018M	B67–68
2251639	B977A13800 KC7315	G137
2252989	KSEM1250PCM KC7135	H70
2252992	KSEM1750PCM KC7135	H70
2253024	KSEM2600PCM KC7135	H70, H111
2255896	B978A08800 KC7315	G140
2256128	NGP2062R KC5010	C168
2256252	B966A09900 KC7315	G131
2256916	B966A04700 KC7315	G130
2256918	B977A10800 KC7315	G137
2257597	B256A10500 KC7315	G58
2257646	B256A09500 KC7315	G58
2258040	KTIP080R5SS10M	H38
2258041	KTIP100R5SS12M	H38
2258042	KTIP120R5SS14M	H38
2258053	KTIP160R5SS18M	H38
2259958	170.306	H38–41
2259959	170.307	H38–41
2259960	170.308	H38–41
2259961	170.309	H38–41
2259981	MS2126	T75–80
2261701	B978A06100 KC7315	G139
2262952	KSSC551-630R	U28–29
2262953	KSSC551-630L	U28–29
2262954	KSSC630-709R	U28
2262955	KSSC630-709L	U28
2262956	KSSC709-813R	U35, U37
2262957	KSSC709-813L	U35, U37
2262958	KSSC813-917R	U36
2262959	KSSC813-917L	U36
2262960	KSSW551-630	U28–29
2262961	KSSW630-709	U28
2262962	KSSW709-813	U35, U37
2262963	KSSW813-917	U36
2262964	KSSCP551-709	U28–29
2262965	KSSCP709-917	U35–37
2263089	A4SMR3225P0626	C124
2263090	A4SML3225P0626	C125
2263091	A4SMR3225P0826	C124
2263092	A4SML3225P0826	C125
2263173	A4SMR3225P1026	C124
2263174	A4SML3225P1026	C125
2263175	A4SMR120620	C122
2263176	A4SMR160620	C122
2263177	A4SMR160624	C122
2263178	A4SMR200626	C122
2263179	A4SMR240626	C122
2263180	A4SML120620	C123
2263181	A4SML160620	C123
2263182	A4SML160624	C123
2263183	A4SML200626	C123
2263184	A4SML240626	C123
2263185	A4SMR160820	C122
2263186	A4SMR160824	C122
2263187	A4SMR200826	C122
2263188	A4SMR240826	C122
2263190	A4SML160824	C123
2263193	A4SMR201026	C122
2263194	A4SML201026	C123
2263197	A40TA4EMR0616M	C133
2263198	A40TA4EML0616M	C133
2263199	A24TA4EMR0616N	C132
2263200	A32TA4EMR0616N	C132
2263201	A24TA4EML0616N	C132
2263203	A20SA4EMR0616N	C132
2263299	MS1490	C34–41, C47–48, C50–51, C122–125, C130, D32
2263361	A4G0605M06U04GMN KC5010	C106
2263362	A4G0605M06U04GMN KC5025	C106
2263373	A4G0605M06U08GMN KT315	C106
2263374	A4G0605M06U08GMN KC5010	C106
2263375	A4G0605M06U08GMN KC5025	C106
2263376	A4G0605M06U12GMN KC5010	C106
2263377	A4G0605M06U12GMN KC5025	C106
2263378	A4G0805M08U08GMN KC5010	C106
2263380	A4G0805M08U12GMN KC5010	C106
2263383	A4G1005M10U08GMN KC5025	C106
2263385	A4G1005M10U12GMN KC5025	C106
2263386	A4G0605M06U04GMP KC5010	C105
2263387	A4G0605M06U04GMP KC5025	C105
2263392	A4G0805M08U08GMP KC5025	C105
2263397	A4R0605M06U00GMN KC5010	C107
2263398	A4R0605M06U00GMN KC5025	C107
2263399	A4R0805M08U00GMN KC5010	C107
2263400	A4R0805M08U00GMN KC5025	C107
2263403	A4R0600M06P00GMP KC5010	C106
2263404	A4R0600M06P00GMP KC5025	C106
2263406	A4R0800M08P00GMP KC5010	C106
2263414	A4G0600M06P04GMP KC5010	C105
2263415	A4G0600M06P08GMP KC5010	C105
2263416	A4G0800M08P08GMP KC5010	C105
2263578	RCGH43 KC5010	B238
2263727	B978A15100 KC7315	G141
2264017	B977A16700 KC7315	G138
2264019	B977A07200 KC7315	G136
2264020	B977A11100 KC7315	G137
2264538	B976A05400 KC7315	G135
2264889	B978A05300 KC7315	G139
2264901	B978A15800 KC7315	G141
2264928	B978A06200 KC7315	G139
2264933	B978A05100 KC7315	G139
2264934	B978A05200 KC7315	G139
2264938	B978A10100 KC7315	G140
2264939	B978A10300 KC7315	G140
2264953	B978A08100 KC7315	G140
2264954	B978A08600 KC7315	G140
2264955	B978A08700 KC7315	G140
2264956	B978A09900 KC7315	G140
2264970	B978A06300 KC7315	G139
2264971	B978A06400 KC7315	G139
2264972	B978A06700 KC7315	G139
2266804	B966A03960 KC7315	G130
2267534	M1D100E1802C100L800	T77
2267535	M1D100E1802C100L1000	T77
2267536	M1D125E1802C125L800	T77
2267537	M1D125E1802C125L1000	T77
2267538	M1D150E1803C125L800	T77
2267539	M1D150E1803C125L1000	T77
2267542	M1D200E1803S075L157	T78
2267545	M1D097E1802W100L175	T75
2267546	M1D100E1802W100L175	T75
2267547	M1D100E1802W100L375	T75
2267548	M1D150E1804CV40L288	T79
2267549	M1D100E1802CV40L250	T79
2267550	M1D100E1802W100L175R	T75
2267551	M1D125E1803CV40L288	T79
2267552	M1D100E1802W100L375R	T75
2267616	M1D300E1805S100L175	T78
2267617	M1D400E1806S150L200	T78
2267618	M1D600E1808S200L200	T78
2267620	M1D800E1812S250L250	T78
2267621	M1D200E1805W125L225	T76
2267623	M1D125E1803W125L225	T75
2267624	M1D125E1803W125L225R	T75
2267625	M1D125E1803W125L425	T75
2267626	M1D125E1803W125L425R	T75
2267627	M1D150E1803W125L225	T76
2267628	M1D150E1804W125L225R	T76
2267629	M1D150E1804W125L225	T76
2267631	M1D150E1803W125L425R	T76
2267632	M1D250E1806S075L157	T78
2267643	M1D300E1807S100L175	T78
2267644	M1D400E1808S150L200	T78
2267645	M1D500E1809S150L200	T78
2267646	M1D600E1808S150L200	T78
2267650	M1D200E1805S075L157	T78
2267651	M1D150E1803W125L425	T76
2268052	KSSS400ASP10N551-630	U28
2268303	KTIP080R3SS10M	H38
2268304	KTIP085R3SS10M	H38
2268305	KTIP090R3SS10M	H38
2268306	KTIP095R3SS10M	H38
2268307	KTIP100R3SS12M	H38
2268308	KTIP105R3SS12M	H38
2268309	KTIP110R3SS12M	H38
2268310	KTIP115R3SS12M	H38
2268311	KTIP120R3SS14M	H38
2268312	KTIP125R3SS14M	H38
2268313	KTIP130R3SS14M	H38
2268314	KTIP135R3SS14M	H38
2268315	KTIP140R3SS16M	H38
2268316	KTIP145R3SS16M	H38
2268317	KTIP150R3SS16M	H38
2268318	KTIP160R3SS18M	H38
2268625	KSSS400BSP10N551-630	U29
2268634	KSSS500ASP10N630-709	U28
2268640	KSSS600ASP10N551-630	U28
2268652	KSSS800ASP10N551-630	U28
2268670	KSSS1200ASP10N630-709	U28
2268676	KSSS500ASD43N709-813	U35
2268679	KSSS500BSD43N709-813	U37
2268688	KSSS600ASD43N709-813	U35
2268694	KSSS600ASD43N813-917	U36
2268706	KSSS800ASD43N813-917	U36
2268712	KSSS1000ASD43N709-813	U35
2268724	KSSS1200ASD43N709-813	U35
2268727	KSSS1200BSD43N709-813	U37
2268730	KSSS1200ASD43N813-917	U36
2269611	KTIP0313R5SS038	H39
2269913	DT9IP	T4–7, T49–54, T63–64, T107–109, U25–27, V36–38
2269914	DT15IP	S39, T14–17, T75–80, T113, U32–34, V68–70, V75–77, V82–83, V139–141
2270351	114.305	E55, E61
2270901	RCGT86SHF KCPK30	V92
2270973	RCGT86SHF KC725M	V92
2271064	EP1816E KC725M	T83
2271067	EP1816E KC522M	T83
2271071	EP1816E KCPK30	T83
2271072	EP1832E KC725M	T83
2271087	EC1804E KC725M	T83
2271088	EC1804FJ KC410M	T81
2271089	EC1808FJ KC410M	T81
2271090	EC1816FJ KC410M	T81
2271091	EC1832FJ KC410M	T81
2271092	EC1864FJ KC410M	T81
2271093	EC1816E KC522M	T82
2271094	EC1832E KC522M	T82
2271095	EC1864E KC522M	T82
2271097	EP1824E KC725M	T83
2271115	EP1832E KC522M	T83
2271116	EP1832E KC520M	T83
2271118	EP1832E KCPK30	T83
2271119	EP1808E KC725M	T83
2271122	EP1808E KC520M	T83
2271135	EP1808E KCPK30	T83
2271155	EP1864E KC725M	T83
2271157	EP1864E KC522M	T83
2271158	EP1864E KCPK30	T83
2271159	EP1812E KC725M	T83
2272493	B977A11900 KC7315	G137
2272784	3.42805R021 KC7015	I30
2272786	3.42805R021 KC7315	I30
2272789	3.42807R021 KC7015	I30
2272790	3.42807R021 KC7315	I30
2273004	DCKNR164DKC3	B58
2273005	DCKNL164DKC3	B58
2273006	DCKNR204DKC3	B58
2273007	DCKNL204DKC3	B58
2273008	DCLNR166DKC4	B59
2273010	DCLNR206DKC4	B59
2273011	DCLNL206DKC4	B59
2273012	DCLNR246DKC4	B59
2273013	DCLNL246DKC4	B59
2273014	DDJNR123BKC3	B87
2273015	DDJNL123BKC3	B87
2273016	DDJNR163DKC3	B87
2273017	DDJNL163DKC3	B87
2273018	DDJNR203DKC3	B87
2273020	DDQNR164DKC3	B88
2273021	DDQNL164DKC3	B88
2273022	DDQNR204DKC3	B88
2273023	DDQNL204DKC3	B88
2273024	DSDNN206KC4	B109
2273027	DSRNL206DKC4	B110
2273035	DTGNR123BKC3	B131
2273038	DTGNL163DKC3	B131
2273045	DWLNR123BKC3	B163
2273046	DWLNL123BKC3	B163
2273047	DWLNR163CKC3	B163
2273048	DWLNL163CKC3	B163
2273049	DWLNR163DKC3	B163
2273059	DCKNR205DKC4	B58
2273061	DCKNR206DKC4	B58
2273063	DCKNR164CKC3	B58
2273065	DDJNR163CKC3	B87
2273066	DDJNL163CKC3	B87
2273070	DSKNR164CKC3	B109
2273071	DSKNL164CKC3	B109
2273072	DSDNN124KC3	B109
2273073	DCKNR124BKC3	B58
2273081	DCRNR206DKC4	B60
2273318	B966A03100 KC7315	G130
2273321	B966A09200 KC7315	G131

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2273388	EP1848E KC725M	T83
2274469	NG2062R KC5010	C170
2274946	A4G125I03P05GMN KC5025	C107
2274947	A4G125I03P1GMN KC5025	C107
2274949	A4G187I04P2GMN KC5025	C107
2275076	A4R125I03P00GMN KC5025	C107
2275077	A4R187I04P00GMN KC5025	C107
2275078	A4R250I06P00GMN KC5025	C107
2275080	A4R375I10P00GMN KC5025	C107
2275081	A4G125I03P05GMN KC5010	C107
2275082	A4G125I03P1GMN KC5010	C107
2275083	A4G187I04P1GMN KC5010	C107
2275084	A4G187I04P2GMN KC5010	C107
2275085	A4G250I06P1GMN KC5010	C107
2275086	A4G250I06P2GMN KC5010	C107
2275087	A4G312I08P1GMN KC5010	C107
2275089	A4G375I10P1GMN KC5010	C107
2275090	A4G375I10P2GMN KC5010	C107
2275091	A4R125I03P00GMN KC5010	C107
2275092	A4R187I04P00GMN KC5010	C107
2275093	A4R250I06P00GMN KC5010	C107
2275452	B978A19800 KC7315	G141
2275583	MS2148	T63–64, T107–109, U25–29
2276088	B976A04300 KC7315	G135
2276090	B977A18400 KC7315	G138
2276698	B977A18600 KC7315	G138
2277900	VBMT221LF KC5025	B281
2383518	TPGX0902ZPRGD KC7315	H85
2383519	TPGX1102ZPRGD KC7315	H85
2383520	TPGX1303ZPRGD KC7315	H85
2383521	TPGX1603ZPRGD KC7315	H85
2383522	TPGX0902ZPRGD KC7140	H85
2383552	B977A06350 KC7315	G135
2383555	SDCT431PDER8LD2 KC725M	T115, T122, U38
2383556	SDCT431PDEL8LD2 KC725M	T115, T122, U38
2383557	SDCT43PDEL8LD2 KC725M	T115, T122, U38
2383558	SDCT433PDER8LD2 KC725M	T115, T122, U38
2383559	SDCT433PDEL8LD2 KC725M	T115, T122, U38
2383560	SDCT434ENLD2 KC725M	T115, T122, U38
2383561	SDCT435ENLD2 KC725M	T115, T122, U38
2383562	SDCT436ENLD2 KC725M	T115, T122, U38
2383583	SDCT438ENLD2 KC725M	T115, T122, U38
2383584	SPCT31251PPER8LD2 KC725M	T111, U30
2383585	SPCT31251PPEL8LD2 KC725M	T111, U30
2383586	SPCT3125PPEL8LD2 KC725M	T111, U30
2383587	SPCT31253PPER8LD2 KC725M	T111, U30
2383588	SPCT31253PPEL8LD2 KC725M	T111, U30
2383589	SPCT31254ENLD2 KC725M	T111, U30
2383590	SPCT31255ENLD2 KC725M	T111, U30
2383591	SDCT431PDFR8LE KC410M	T114, T121, U38, V143
2383592	SDCT431PDFL8LE KC410M	T114, T121, U38, V143
2383593	SDCT43PDFR8LE KC410M	T114, T121, U38, V143
2383594	SDCT43PDFL8LE KC410M	T114, T121, U38, V143
2383595	SDCT433PDFR8LE KC410M	T114, T121, U38, V143
2383596	SDCT433PDFL8LE KC410M	T114, T121, U38, V143
2383597	SDCT434FNLE KC410M	T114, T121, U38, V143
2383598	SDCT435FNLE KC410M	T114, T121, U38, V143
2383599	SDCT436FNLE KC410M	T114, T121, U38, V143
2383600	SDCT438FNLE KC410M	T114, T121, U38, V143
2383601	SPCT31251PPFR8LE KC410M	T110, U30
2383602	SPCT31251PPFL8LE KC410M	T110, U30
2383603	SPCT3125PPFR8LE KC410M	T110, U30
2383604	SPCT3125PPFL8LE KC410M	T110, U30
2383605	SPCT31253PPFR8LE KC410M	T110, U30
2383608	SPCT31255FNLE KC410M	T110, U30
2383778	B977A06400 KC7315	G135
2384123	TPGX1102ZPRGD KC7140	H85
2384124	TPGX1303ZPRGD KC7140	H85
2384125	TPGX1603ZPRGD KC7140	H85
2384430	B977A12100 KC7315	G137
2384504	STN1018UNI KC635M	W44
2384505	STN1020UNI KC635M	W44
2384509	STN1114UNI KC635M	W44
2384510	STN1116UNI KC635M	W44
2384511	STN1118UNI KC635M	W44
2384512	STN1120UNI KC635M	W44
2384513	STN1124UNI KC635M	W44
2384517	STN1614UNI KC635M	W44
2384521	STN1624UNI KC635M	W44
2384522	STN1627UNI KC635M	W44
2384524	STN1632UNI KC635M	W44
2384961	H40MCLNL4	B76
2384973	H40MCLNR4	B76
2384977	H40MVUNR3	B155
2384978	H40MVUNL3	B155
2384979	H32MVUNR3	B155
2384980	H32MVUNL3	B155
2385356	B976A05100 KC7315	G135
2386534	420.162	S32
2386665	B977A19700 KC7315	G138
2388424	DT8IP	W4–5, W10–13, W17–19, W24–25
2388784	B976A10800 KC7315	G137
2389802	PMT04525	C71, C149
2390123	B977A08300 KC7315	G136
2390253	SDCT43PDER8LD2 KC725M	T115, T122, U38
2390254	SPCT3125PPER8LD2 KC725M	T111, U30
2390256	SECT443AEEN7LD2 KC725M	S40
2390257	SEKT443AEEN7GP2 KC725M	S40
2390258	SEKT443AEEN7GP2 KC520M	S40
2390259	SEKT443AEEN7GP2 KCK15	S40
2390260	SEKT443AEEN7GP2 KCPK30	S40
2390261	SEKT443AESN7GP2 KC725M	S40
2390262	SEKT443AESN7GP2 KC520M	S40
2390263	SEKT443AESN7GP2 KCK15	S40
2390264	SEKT443AESN7GP2 KCPK30	S40
2390265	SPET3125PPEL8GB2 KC725M	T111, U31
2390266	SPET3125PPEL8GB2 KCK15	T111, U31
2390267	SPET3125PPEL8GB2 KCPK30	T111, U31
2390268	SPET3125PPEL8GB2 KC520M	T111, U31
2390269	SPET3125PPSL8GB2 KC725M	T111, U31
2390271	SPET3125PPSL8GB2 KCPK30	T111, U31
2390273	SPET3125PPER8GB2 KC725M	T111, U31
2390274	SPET3125PPER8GB2 KCK15	T111, U31
2390275	SPET3125PPER8GB2 KCPK30	T111, U31
2390276	SPET3125PPER8GB2 KC520M	T111, U31
2390277	SPET3125PPSR8GB2 KC725M	T111, U31
2390278	SPET3125PPSR8GB2 KCK15	T111, U31
2390279	SPET3125PPSR8GB2 KCPK30	T111, U31
2390280	SPET3125PPSR8GB2 KC520M	T111, U31
2390281	SDET43PDEL8GB2 KC520M	T115, T122, U39
2390282	SDET43PDEL8GB2 KCK15	T115, T122, U39
2390283	SDET43PDEL8GB2 KCPK30	T115, T122, U39
2390284	SDET43PDEL8GB2 KC725M	T115, T122, U39
2390285	SDET43PDER8GB2 KC520M	T115, T122, U39
2390286	SDET43PDER8GB2 KCK15	T115, T122, U39
2390287	SDET43PDER8GB2 KCPK30	T115, T122, U39
2390288	SDET43PDER8GB2 KC725M	T115, T122, U39
2390289	SDET43PDSR8GB2 KC520M	T115, T122, U39
2390290	SDET43PDSR8GB2 KCK15	T115, T122, U39
2390291	SDET43PDSR8GB2 KCPK30	T115, T122, U39
2390292	SDET43PDSR8GB2 KC725M	T115, T122, U39
2390293	SDET433PDEL8GB2 KC520M	T115, T122, U39
2390294	SDET433PDEL8GB2 KCK15	T115, T122, U39
2390296	SDET433PDEL8GB2 KC725M	T115, T122, U39
2390297	SDET433PDER8GB2 KC520M	T115, T122, U39
2390298	SDET433PDER8GB2 KCK15	T115, T122, U39
2390299	SDET433PDER8GB2 KCPK30	T115, T122, U39
2390300	SDET433PDER8GB2 KC725M	T115, T122, U39
2390961	B976A08200 KC7315	G136
2391872	B977A17700 KC7315	G138
2391902	B966A06350 KC7315	G131
2391925	B966A05040 KC7315	G130
2392360	B976A03800 KC7315	G134
2392361	B976A03900 KC7315	G134
2393422	STN1118UNE KC635M	W44
2393667	STN1624UNE KC635M	W44
2393668	STN1620UNE KC635M	W44
2393670	STN1616UNE KC635M	W44
2393671	STN1614UNE KC635M	W44
2396971	B977A04900 KC7315	G135
2397289	B976A17100 KC7315	G138
2397687	B976A04900 KC7315	G135
2397689	B976A07900 KC7315	G136
2397697	DRGNR164DKC3	B98
2397698	DRGNL164DKC3	B98
2397700	DRGNL204DKC3	B98
2397707	DRGNR206DKC4	B98
2397767	KMSP625IP	B58–60, B68, B98, B109–110
2398751	A4M50R0314B036048	C141
2398752	A4M50R0314B042058	C141
2398763	A4M50R0314B052074	C141
2398764	A4M50R0314B068100	C141
2398765	A4M50R0314B090160	C141
2398766	A4M50R0314B130300	C141
2398767	A4M50R0314B290999	C141
2398768	A4M50L0314B036048	C142
2398769	A4M50L0314B042058	C142
2398770	A4M50L0314B052074	C142
2398771	A4M50L0314B068100	C142
2398772	A4M50L0314B090160	C142
2398773	A4M50L0314B130300	C142
2398774	A4M50L0314B290999	C142
2398775	A4M50R0414B048072	C141
2398776	A4M50R0414B064100	C141
2398777	A4M50R0414B092150	C141
2398778	A4M50R0414B132300	C141
2398779	A4M50R0414B290999	C141
2398780	A4M50L0414B048072	C142
2398781	A4M50L0414B064100	C142
2398782	A4M50L0414B092150	C142
2398783	A4M50L0414B132300	C142
2398784	A4M50L0414B290999	C142
2398785	A4M50R0519B058094	C141
2398786	A4M50R0519B080136	C141
2398787	A4M50R0519B120300	C141
2398788	A4M50R0519B250999	C141
2398789	A4M50L0519B058094	C142
2398790	A4M50L0519B080136	C142
2398791	A4M50L0519B120300	C142
2398792	A4M50L0519B250999	C142
2399462	KM25NER230	D30
2399494	KM25NER330	D30
2399495	KM25NEL330	D30
2399496	KM25NER430	D30
2399497	KM25NEL430	D30
2399498	KM25NSR230	D30
2399499	KM25NSL230	D30
2399500	KM25NSR330	D30
2399501	KM25NSL330	D30
2399503	KM25NSL430	D30
2399504	KM25LSSR1630	D77
2399505	KM25LSSL1630	D77
2399506	KM25LSER1630	D77
2399507	KM25LSEL1630	D77
2400680	KSSP200R3SD43L168	T120
2400681	KSSP250R3SD43L200	T120
2400682	KSSP300R4SD43L240	T120
2401853	B977A13100 KC7315	G137
2402283	KTIP085R5SS10M	H38
2402284	KTIP090R5SS10M	H38
2402285	KTIP095R5SS10M	H38
2402286	KTIP105R5SS12M	H38
2402287	KTIP110R5SS12M	H38
2402288	KTIP115R5SS12M	H38
2402289	KTIP125R5SS14M	H38
2402290	KTIP130R5SS14M	H38
2402291	KTIP135R5SS14M	H38
2402292	KTIP140R5SS16M	H38
2402293	KTIP145R5SS16M	H38
2402294	KTIP150R5SS16M	H38
2402838	K400B14RF45HN09C	S77
2402839	K500B18RF45HN09C	S77
2402999	AADF0125J2B K600	P126
2403000	AADF0188J2B K600	P126
2403001	AADF0250J2B K600	P126
2403013	AADF0375J2B K600	P126
2403014	AADF0500J2B K600	P127
2403016	AADF0750J2B K600	P127
2403807	B966A08300 KC7315	G131
2404108	B976A14200 KC7315	G137
2404433	B978A11700 KC7315	G140
2404438	B966A06300 KC7315	G131
2404444	STN10075ISOI KC635M	W45
2404445	STN10100ISOI KC635M	W45
2404446	STN10125ISOI KC635M	W45
2404447	STN10150ISOI KC635M	W45
2404449	STN11100ISOI KC635M	W45
2404451	STN11150ISOI KC635M	W45
2404454	STN16100ISOI KC635M	W45
2404456	STN16150ISOI KC635M	W45
2404457	STN16175ISOI KC635M	W45
2404458	STN16200ISOI KC635M	W45
2404707	A4G0305M03U02B KC5025	C108
2404708	A4G0405M04U04B KC5025	C108
2405161	KTIP080R3SCF12M	H40
2405162	KTIP085R3SCF12M	H40
2405203	KTIP090R3SCF12M	H40
2405204	KTIP095R3SCF12M	H40
2405205	KTIP100R3SCF16M	H40
2405206	KTIP105R3SCF16M	H40
2405207	KTIP110R3SCF16M	H40

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2405208	KTIP115R3SCF16M	H40
2405209	KTIP120R3SCF16M	H40
2405210	KTIP125R3SCF16M	H40
2405211	KTIP130R3SCF16M	H40
2405212	KTIP135R3SCF16M	H40
2405213	KTIP140R3SCF16M	H40
2405214	KTIP145R3SCF16M	H40
2405215	KTIP150R3SCF20M	H40
2405216	KTIP160R3SCF20M	H40
2405248	KTIP080R5SCF12M	H40
2405249	KTIP085R5SCF12M	H40
2405250	KTIP090R5SCF12M	H40
2405251	KTIP095R5SCF12M	H40
2405252	KTIP100R5SCF16M	H40
2405273	KTIP105R5SCF16M	H40
2405274	KTIP110R5SCF16M	H40
2405275	KTIP115R5SCF16M	H40
2405276	KTIP120R5SCF16M	H40
2405277	KTIP125R5SCF16M	H40
2405278	KTIP130R5SCF16M	H40
2405279	KTIP135R5SCF16M	H40
2405280	KTIP140R5SCF16M	H40
2405281	KTIP145R5SCF16M	H40
2405282	KTIP150R5SCF20M	H40
2405283	KTIP160R5SCF20M	H40
2405361	SEPT443AEEN7GB2 KC725M	S41
2405362	SEPT443AEEN7GB2 KCK15	S41
2405373	SEPT443AEEN7GB2 KCPK30	S41
2405375	SEPT443AESN7GB2 KC725M	S41
2405376	SEPT443AESN7GB2 KCK15	S41
2405377	SEPT443AESN7GB2 KCPK30	S41
2405379	SPPT3125PPER8GB2 KCK15	T112, U31
2405380	SPPT3125PPER8GB2 KCPK30	T112, U31
2405381	SPPT3125PPSR8GB2 KCK15	T112, U31
2405382	SPPT3125PPSR8GB2 KCPK30	T112, U31
2405383	SPPT3125PPSR8GB2 KTPK20	T112, U31
2405384	SDPT43PDER8GB2 KC725M	T116, T123, U39
2405385	SDPT43PDER8GB2 KCK15	T116, T123, U39
2405386	SDPT43PDER8GB2 KCPK30	T116, T123, U39
2405387	SDPT43PDSR8GB2 KC725M	T116, T123, U39
2405388	SDPT43PDSR8GB2 KCK15	T116, T123, U39
2405389	SDPT43PDSR8GB2 KCPK30	T116, T123, U39
2405616	KSEM3200PCM KC7135	H70, H111
2405618	KSEM4000PCM KC7135	H70, H111
2407294	B977A10100 KC7315	G136
2407297	B978A07700 KC7315	G140
2408209	B977A09400 KC7315	G136
2408266	B966A03400 KC7315	G130
2408308	B976A09200 KC7315	G136
2408389	A16TDDUNR3KC3	B92
2408390	A20UDDUNR3KC3	B92
2408391	A20UDDUNR4KC3	B92
2408392	A24UDDUNR4KC3	B92
2408464	A32VDDUNR4KC3	B92
2408469	A16TDTFNR3KC3	B138
2408487	A32VDCKNL4KC3	B67
2408488	A32VDCKNL5KC4	B67
2408494	A20UDSKNL3KC2	B113
2408503	A16TDCFNR4KC3	B67
2408505	A24UDCFNR4KC3	B67
2408507	A16TDCLNL4KC3	B68
2408508	A20UDCLNL4KC3	B68
2408509	A24UDCLNL4KC3	B68
2408511	A28UDCLNL4KC3	B68
2408512	A32VDCLNL4KC3	B68
2408514	A32VDCLNL6KC4	B68
2408515	A40VDCLNL4KC3	B68
2408516	A40VDCLNL6KC4	B68
2408517	A16TDCLNR3KC2	B68
2408518	A16TDCLNR4KC3	B68
2408519	A20UDCLNR4KC3	B68
2408520	A24UDCLNR4KC3	B68
2408521	A24UDCLNR5KC4	B68
2408522	A28UDCLNR4KC3	B68
2408523	A32VDCLNR4KC3	B68
2408524	A32VDCLNR5KC4	B68
2408526	A40VDCLNR4KC3	B68
2408527	A40VDCLNR6KC4	B68
2408528	A16TDDUNL3KC3	B92
2408544	A24UDDPNL4KC3	B91
2408545	A20UDDPNR4KC3	B91
2408546	A24UDDPNR4KC3	B91
2408547	A20UDDQNL4KC3	B91
2408548	A24UDDQNL4KC3	B91
2408549	A20UDDQNR4KC3	B91
2408550	A24UDDQNR4KC3	B91
2412903	RCGT86ELF KCPK30	V92
2414136	A4ENN2020K0305	C131
2414137	A4ENN2525M0305	C131
2414138	A4ENN120305	C130
2414139	A4ENN160305	C130
2416198	B977A16400 KC7315	G138
2416279	B977A04100 KC7315	G134
2417292	DCLNR123BKC3	B59
2417293	DCLNL123BKC3	B59
2417294	DCLNR163DKC3	B59
2417295	DCLNL163DKC3	B59
2417433	IRSN64 K9	B98
2419790	B976A12300 KC7315	G137
2421384	SSY5T K9	D76, D78–79
2421386	SSA5T	D76, D78–79
2424997	B967A12500 KC7315	G132
2425000	B967A09000 KC7315	G131
2425052	B967A10800 KC7315	G131
2425073	B967A08500 KC7315	G131
2425113	B966A04100 KC7315	G130
2425114	B966A04900 KC7315	G130
2425115	B966A05400 KC7315	G130
2425117	B966A03600 KC7315	G130
2425118	B966A07100 KC7315	G131
2425119	B966A07300 KC7315	G131
2425120	B966A07600 KC7315	G131
2425143	B966A08700 KC7315	G131
2425145	B966A08900 KC7315	G131
2425146	B966A09100 KC7315	G131
2425149	B966A09700 KC7315	G131
2425151	B966A10900 KC7315	G131
2425173	B966A11100 KC7315	G131
2425176	B966A11900 KC7315	G132
2425178	B966A12200 KC7315	G132
2425203	B966A12400 KC7315	G132
2425205	B966A12800 KC7315	G132
2425206	B966A12900 KC7315	G132
2425233	B966A14200 KC7315	G132
2425285	B977A03000 KC7315	G134
2425288	B977A03100 KC7315	G134
2425290	B977A03200 KC7315	G134
2425292	B977A03400 KC7315	G134
2425303	B977A03500 KC7315	G134
2425304	B977A03600 KC7315	G134
2425305	B977A03700 KC7315	G134
2425306	B977A03800 KC7315	G134
2425309	B977A04400 KC7315	G135
2425310	B977A04700 KC7315	G135
2425311	B977A05400 KC7315	G135
2425323	B977A06200 KC7315	G135
2425324	B977A06300 KC7315	G135
2425325	B977A06600 KC7315	G135
2425326	B977A07300 KC7315	G136
2425328	B977A07900 KC7315	G136
2425330	B977A07600 KC7315	G136
2425331	B977A08600 KC7315	G136
2425332	B977A09100 KC7315	G136
2425344	B977A09600 KC7315	G136
2425380	B977A12400 KC7315	G137
2425381	B977A11400 KC7315	G137
2425455	B977A10400 KC7315	G136
2425456	B977A11300 KC7315	G137
2425457	B977A10900 KC7315	G137
2425659	CCMT21505LF KC5025	B191
2425660	CCMT2151LF KC5025	B191
2425661	CCMT2152LF KC5025	B191
2425662	CCMT32505LF KC5025	B191
2425773	CCMT3251LF KC5025	B191
2425775	CCMT431LF KC5025	B191
2425779	CPMT18151LF KC5025	B207
2425780	CPMT21505LF KC5025	B207
2425781	CPMT2151LF KC5025	B207
2425782	CPMT2152LF KC5025	B207
2425784	CPMT3251LF KC5025	B207
2425785	CPMT3252LF KC5025	B207
2425786	DCMT21505LF KC5025	B225
2425788	DCMT431LF KC5025	B225
2425789	DCMT432LF KC5025	B225
2425790	DPMT21505LF KC5025	B232
2425791	DPMT2151LF KC5025	B232
2425793	DPMT3251LF KC5025	B232
2425794	DPMT3252LF KC5025	B232
2425795	SCMT3251LF KC5025	B246
2425796	SCMT3252LF KC5025	B246
2425798	SCMT432LF KC5025	B246
2425800	SPMT3251LF KC5025	B252
2425801	SPMT3252LF KC5025	B252
2425802	TCMT21505LF KC5025	B257
2425803	TCMT2151LF KC5025	B257
2425804	TCMT2152LF KC5025	B257
2425805	TCMT32505LF KC5025	B257
2425806	TCMT3251LF KC5025	B257
2425807	TCMT3252LF KC5025	B257
2425809	TCMT432LF KC5025	B257
2425811	TPMT18151LF KC5025	B268
2425813	TPMT2152LF KC5025	B268
2425814	TPMT3251LF KC5025	B268
2425815	TPMT3252LF KC5025	B268
2425817	TPMT432LF KC5025	B268
2425818	VBMT222LF KC5025	B281
2425819	VBMT3305LF KC5025	B281
2425820	WPMT15121LF KC5025	B288
2425821	WPMT2151LF KC5025	B288
2425825	WCMT3252LF KC5025	B286
2425826	CNMG431RP KC5010	B53
2425828	CNMG431RP KC5025	B53
2425841	DNGG433FS KC5010	B77
2425843	DCMT2151LF KC5025	B225
2425844	DCMT32505LF KC5025	B225
2425845	DCMT3251LF KC5025	B225
2425846	DCMT3252LF KC5025	B225
2425847	VBMT331LF KC5025	B281
2425848	VBMT332LF KC5025	B281
2425863	DNMG332MS KC5010	B82
2425864	DNMG332MS KC5025	B82
2425869	WNMG332MS KC5010	B160
2425870	WNMG332MS KC5025	B160
2425871	WNMG332MS K313	B160
2426878	SDET43PDSL8GB2 KCPK30	T115, T122, U39
2426879	SDET43PDSL8GB2 KC725M	T115, T122, U39
2428744	B978A15300 KC7315	G141
2429563	STN1118NPT KC635M	W46
2429564	STN1614NPT KC635M	W46
2429565	STN16115NPT KC635M	W46
2429570	STN1118NPTF KC635M	W46
2429571	STN1614NPTF KC635M	W46
2429572	STN16115NPTF KC635M	W46
2429575	STN1614NPS KC635M	W46
2429576	STN16115NPS KC635M	W46
2429582	STN1119BSW KC635M	W46
2429587	STN1614BSW KC635M	W46
2429588	STN1612BSW KC635M	W46
2429589	STN1611BSW KC635M	W46
2429593	STN2711BSW KC635M	W46
2429851	CNMG432CT KC5010	B48
2429979	DNMG431CT KC5010	B79
2429985	DNMG432CT KC5010	B79
2430006	DNMG443CT KC5010	B79
2430830	K315A62RF60HN09C	S82
2430931	K600B164RF60HN09C	S82
2434886	RCGT64ELF KC725M	V89
2435131	B967A08000 KC7315	G131
2435183	WLLNR32CA19S	E61
2435184	WLLNL32CA19S	E61
2435185	WLLNR32CA30S	E61
2435186	WLLNL32CA30S	E61
2435187	WLFNR32CA19S	E61
2435188	WLFNL32CA19S	E61
2435196	KSEM3800PCM KC7135	H70, H111
2435297	CNMG431P KC5010	B52
2435298	CNMG432P KC5010	B52
2435299	CNMG433P KC5010	B52
2435301	DNMG431P KC5010	B83
2435302	DNMG432P KC5010	B83
2435315	TNMG331P KC5010	B126
2435320	VNMG331P KC5010	B147
2435321	VNMG332P KC5010	B147
2435322	WNMG431P KC5010	B160
2435323	WNMG432P KC5010	B160
2435325	DNMG442P KC5010	B83
2436719	B978A11300 KC7315	G140
2436798	B978A16200 KC7315	G141
2438407	NG3125R KC5010	C170
2438408	NG3125R KC5025	C170
2438663	BGHX15L5PCERGGTM KD1410	S124
2438664	BGHX15L5PCTRHET KD1410	S125
2438665	BGHX15L504ERGET KD1415	S125
2440526	KTIP085R8SS10M	H38
2440527	KTIP160R8SS18M	H38
2442348	RCGT64SHF KCPK30	V89
2442642	B978A09100 KC7315	G140
2443608	KTIP0472R8SS050	H39
2444419	RCGK23FS KC5010	E69
2444420	RCGK35FS KC5010	E69
2444424	RCGK35FS KC5025	E69
2445393	KMSP4S15IP	B68
2445394	KMSP5S15IP	B68
2446615	RPGV45 KC5010	B167
2446618	RPGV23 KC5010	B167
2447377	EC1808E2 KC522M	T82
2447380	EC1848E KC522M	T82
2449473	KSEM2600HPGM KC7315	H55
2449475	KSEM3000HPGM KC7315	H55
2449476	KSEM4000HPGM KC7315	H55
2449518	KSEM2300HPGM KC7315	H55
2449924	KSEM1250HPGM KC7315	H54
2450291	B707A04000FBG KC7315	G110
2450292	B707A05000FBG KC7315	G110
2450343	B707A06000FBG KC7315	G110
2450344	B707A08000FBG KC7315	G111
2450345	B707A13000FBG KC7315	G111
2450346	B707A20000FBG KC7315	G112
2450909	KSEM2000HPGM KC7315	H54
2451576	EC1808E KC725M	T83
2451578	EC1812FJ KC410M	T81
2451579	EC1812E KC725M	T83
2451580	EC1824FJ KC410M	T81
2451581	EC1840FJ KC410M	T81
2451582	EC1840E KC522M	T82
2451684	EC1848FJ KC410M	T81
2452135	OFKT64AFEN6GB KC725M	S52
2452136	OFKT64AFSN6HB KC725M	S52
2452372	M1D100E1802W075L175	T76
2452414	M1D125E1802W100L225	T76
2453684	OFPT53AFEN4GB KC725M	S48
2453686	OFPT53AFSN4HB KC725M	S48
2453687	OFKT53AFEN4GB KC725M	S47
2453688	OFKT53AFSN4HB KC725M	S47
2455054	B976A06100 KC7315	G135
2455056	B976A07300 KC7315	G136
2455057	B976A07700 KC7315	G136
2455430	A4R0500M05P00T01025 KY3500	B321, C110
2455801	OFPT53AFEN4GB KCK15	S48
2455802	OFPT53AFSN4HB KCK15	S48
2455814	OFKT53AFEN4GB KCK15	S47
2455816	OFPT53AFEN4GB KCPK30	S48
2455818	OFPT53AFSN4HB KCPK30	S48
2455819	OFKT53AFEN4GB KCPK30	S47
2455820	OFKT53AFSN4HB KCPK30	S47
2455821	OFPT53AFEN4GB KC520M	S48
2455822	OFPT53AFSN4HB KC520M	S48
2455854	OFKT53AFEN4GB KC520M	S47
2456097	RCGT0803M0MS KC5010	B239
2456099	RCGT1204M0MS KC5010	B239
2456906	DFR125R4WD20M	J12
2456907	DFR127R4WD20M	J12
2456908	DFR130R4WD20M	J12
2456909	DFR135R4WD20M	J12

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2456910	DFR140R4WD20M	J12
2456911	DFR145R4WD20M	J12
2456912	DFR150R4WD20M	J12
2457733	DFR155R4WD20M	J12
2457734	DFR160R4WD20M	J12
2457735	DFR165R4WD32M	J12
2457736	DFR170R4WD32M	J12
2457737	DFR175R4WD32M	J12
2457738	DFR180R4WD32M	J12
2457739	DFR185R4WD32M	J12
2457741	DFR195R4WD32M	J12
2457743	DFR205R4WD32M	J12
2457744	DFR210R4WD32M	J12
2457746	DFR230R4WD32M	J12
2457747	DFR240R4WD32M	J12
2458790	OFKT53AFEN4GB KC522M	S47
2458791	OFKT53AFSN4HB KC522M	S47
2458833	OFKT53AFFN4LNJ KC410M	S46
2458914	SDET434SNGB2 KCPK30	T115, T122, U39
2458915	SDET434SNGB2 KC725M	T115, T122, U39
2458916	SDET434SNGB2 KCK15	T115, T122, U39
2458917	SDET434SNGB2 KC520M	T115, T122, U39
2458918	SDET435SNGB2 KCPK30	T115, T122, U39
2458919	SDET435SNGB2 KC725M	T115, T122, U39
2458920	SDET435SNGB2 KCK15	T115, T122, U39
2458921	SDET435SNGB2 KC520M	T115, T122, U39
2458922	SDET436SNGB2 KCPK30	T115, T122, U39
2458933	SDET436SNGB2 KC725M	T115, T122, U39
2458934	SDET436SNGB2 KCK15	T115, T122, U39
2458936	SDET438SNGB2 KCPK30	T115, T122, U39
2458937	SDET438SNGB2 KC725M	T115, T122, U39
2458938	SDET438SNGB2 KCK15	T115, T122, U39
2458939	SDET438SNGB2 KC520M	T115, T122, U39
2460124	EP1812S KC725M	T85
2460125	EP1812S KCPK30	T85
2460185	EP1812S KCK15	T85
2460273	881.252.200	K137–139
2465988	KSEM2050HPGM KC7315	H54
2466477	KSEM3500HPGM KC7315	H55
2466478	KSEM3800HPGM KC7315	H55
2466598	KSEM3700HPGM KC7315	H55
2476832	KSSR250SN434M3	S88
2476963	KSSR300SN434M4	S88
2476964	KSSR400SN434M5	S88
2479506	M1D125E1404W125L225	T49
2479507	M1D100E1403W075L175	T50
2479508	M1D100E1403W100L175	T49
2479509	M1D125E1404S050L157	T53
2479510	M1D200E1406S075L157	T53
2479512	M1D125E1404W100L225	T50
2487433	KSEM1750HPGM KC7315	H54
2488036	EC1820FJ KC410M	T81
2488096	193.433	S44–45
2488759	S2044CG	T53, T78
2490989	B976A11300 KC7315	G137
2494500	KSEM2650HPGM KC7315	H55
2494501	KSEM3300HPGM KC7315	H55
2496015	KSEM2133HPGM KC7315	H55
2496869	M1D300K2503S100L225	T90
2498749	DFR175R3WD25M	J11
2498750	DFR180R3WD25M	J11
2498751	DFR185R3WD25M	J11
2498752	DFR190R3WD25M	J11
2499003	DFR195R3WD25M	J11
2499004	DFR200R3WD25M	J11
2499005	DFR205R3WD25M	J11
2499006	DFR230R3WD25M	J11
2499007	DFR240R3WD25M	J11
2499516	B707A11000FBG KC7315	G111
2499607	KSEM0500HPG KC7315	H54
2499608	KSEM0509HPG KC7315	H54
2499609	KSEM0516HPG KC7315	H54
2499610	KSEM0547HPG KC7315	H54
2499611	KSEM0563HPG KC7315	H54
2499612	KSEM0578HPG KC7315	H54
2499723	KSEM1260HPGM KC7315	H54
2499725	KSEM1280HPGM KC7315	H54
2499727	KSEM1300HPGM KC7315	H54
2499729	KSEM1320HPGM KC7315	H54
2499730	KSEM1350HPGM KC7315	H54
2499731	KSEM1360HPGM KC7315	H54
2499732	KSEM1370HPGM KC7315	H54
2499733	KSEM1380HPGM KC7315	H54
2499735	KSEM1400HPGM KC7315	H54
2499736	KSEM1410HPGM KC7315	H54
2499737	KSEM1420HPGM KC7315	H54
2499739	KSEM1440HPGM KC7315	H54
2499740	KSEM1450HPGM KC7315	H54
2499741	KSEM1460HPGM KC7315	H54
2499743	KSEM1480HPGM KC7315	H54
2499744	KSEM1500HPGM KC7315	H54
2499746	KSEM1530HPGM KC7315	H54
2499748	KSEM1550HPGM KC7315	H54
2499749	KSEM1560HPGM KC7315	H54
2499750	KSEM1570HPGM KC7315	H54
2499751	KSEM1580HPGM KC7315	H54
2499753	KSEM1600HPGM KC7315	H54
2499755	KSEM1620HPGM KC7315	H54
2499757	KSEM1650HPGM KC7315	H54
2499759	KSEM1700HPGM KC7315	H54
2499763	KSEM1800HPGM KC7315	H54
2499765	KSEM1850HPGM KC7315	H54
2499767	KSEM1900HPGM KC7315	H54
2499771	KSEM1950HPGM KC7315	H54
2499775	KSEM2100HPGM KC7315	H54
2499777	KSEM2150HPGM KC7315	H55
2499779	KSEM2200HPGM KC7315	H55
2499782	KSEM2250HPGM KC7315	H55
2499784	KSEM2350HPGM KC7315	H55
2499786	KSEM2400HPGM KC7315	H55
2499787	KSEM2450HPGM KC7315	H55
2499789	KSEM2500HPGM KC7315	H55
2499791	KSEM2550HPGM KC7315	H55
2499795	KSEM2700HPGM KC7315	H55
2499796	KSEM2750HPGM KC7315	H55
2499798	KSEM2800HPGM KC7315	H55
2499800	KSEM2850HPGM KC7315	H55
2499802	KSEM2900HPGM KC7315	H55
2499803	KSEM2950HPGM KC7315	H55
2499807	KSEM3050HPGM KC7315	H55
2499810	KSEM3100HPGM KC7315	H55
2499811	KSEM3150HPGM KC7315	H55
2499813	KSEM3200HPGM KC7315	H55
2499814	KSEM3250HPGM KC7315	H55
2499818	KSEM3350HPGM KC7315	H55
2499820	KSEM3400HPGM KC7315	H55
2499822	KSEM3450HPGM KC7315	H55
2499824	KSEM3550HPGM KC7315	H55
2499826	KSEM3600HPGM KC7315	H55
2499828	KSEM3650HPGM KC7315	H55
2499831	KSEM3750HPGM KC7315	H55
2499834	KSEM3850HPGM KC7315	H55
2499835	KSEM3900HPGM KC7315	H55
2499836	KSEM3950HPGM KC7315	H55
2499837	OFKT64AFFN6LNJ KC410M	S51
2499843	KSEM0594HPG KC7315	H54
2499844	KSEM0609HPG KC7315	H54
2499845	KSEM0625HPG KC7315	H54
2499846	KSEM0634HPG KC7315	H54
2499847	KSEM0641HPG KC7315	H54
2499848	KSEM0656HPG KC7315	H54
2499849	KSEM0672HPG KC7315	H54
2499850	KSEM0688HPG KC7315	H54
2499851	KSEM0703HPG KC7315	H54
2499852	KSEM0719HPG KC7315	H54
2499853	KSEM0734HPG KC7315	H54
2499854	KSEM0750HPG KC7315	H54
2499855	KSEM0759HPG KC7315	H54
2499856	KSEM0766HPG KC7315	H54
2499857	KSEM0781HPG KC7315	H54
2499858	KSEM0797HPG KC7315	H54
2499859	KSEM0813HPG KC7315	H54
2499860	KSEM0844HPG KC7315	H55
2499861	KSEM0859HPG KC7315	H55
2499862	KSEM0875HPG KC7315	H55
2499863	KSEM0884HPG KC7315	H55
2499864	KSEM0922HPG KC7315	H55
2499865	KSEM0938HPG KC7315	H55
2499866	KSEM0969HPG KC7315	H55
2499867	KSEM1000HPG KC7315	H55
2499868	KSEM1011HPG KC7315	H55
2499869	KSEM1031HPG KC7315	H55
2499870	KSEM1047HPG KC7315	H55
2499871	KSEM1094HPG KC7315	H55
2499872	KSEM1109HPG KC7315	H55
2499873	KSEM1125HPG KC7315	H55
2499874	KSEM1156HPG KC7315	H55
2499875	KSEM1172HPG KC7315	H55
2499876	KSEM1188HPG KC7315	H55
2499877	KSEM1203HPG KC7315	H55
2499878	KSEM1219HPG KC7315	H55
2499879	KSEM1250HPG KC7315	H55
2499880	KSEM1281HPG KC7315	H55
2499881	KSEM1297HPG KC7315	H55
2499882	KSEM1313HPG KC7315	H55
2499883	KSEM1328HPG KC7315	H55
2499884	KSEM1344HPG KC7315	H55
2499885	KSEM1375HPG KC7315	H55
2499886	KSEM1406HPG KC7315	H55
2499887	KSEM1422HPG KC7315	H55
2499888	KSEM1438HPG KC7315	H55
2499889	KSEM1469HPG KC7315	H55
2499890	KSEM1500HPG KC7315	H55
2499891	KSEM1514HPG KC7315	H55
2500876	LT16ERAG60K KU25T	D52
2500931	LT16NRAG60K KU25T	D61
2503543	A4ENN2020K0611	C131
2503544	A4ENN2525M0611	C131
2503545	A4ENN3232P0611	C131
2503550	A4SML2020K0317	C125
2503551	A4SMR2020K0317	C124
2503552	A4SML2020K0417	C125
2503553	A4SMR2020K0417	C124
2503554	A4SML2020K0620	C125
2503555	A4SMR2020K0620	C124
2503556	A4SML2016K0317	C125
2503557	A4SMR2016K0317	C124
2503559	A4SMR2016K0417	C124
2503996	DVJNR123CKC3	B150
2503997	DVJNL123CKC3	B150
2503998	DVJNR163DKC3	B150
2503999	DVJNL163DKC3	B150
2504000	DVJNR853DKC3	B150
2504001	DVJNL853DKC3	B150
2504002	DVJNR164DKC3	B150
2504003	DVJNL164DKC3	B150
2504004	DVJNR854DKC3	B150
2504005	DVJNL854DKC3	B150
2504006	DVONR123CKC3	B151
2504007	DVONL123CKC3	B151
2504008	DVONR163DKC3	B151
2504009	DVONL163DKC3	B151
2504010	DVONR853DKC3	B151
2504011	DVONL853DKC3	B151
2504012	DVVNN123CKC3	B151
2504013	DVVNN163DKC3	B151
2504014	DVVNN853DKC3	B151
2504015	DVVNN164DKC3	B151
2504223	KSEM1970HPGM KC7315	H54
2505276	193.407	C130
2506705	B977A15200 KC7315	G137
2507899	KSEM1008HP KC7315	H52
2509326	EP1808S KC725M	T85
2509327	EP1808S KCPK30	T85
2509328	EP1808S KCK15	T85
2509387	EP1816S KC725M	T85
2509388	EP1816S KCPK30	T85
2509408	EP1832S KC725M	T85
2509410	EP1832S KCPK30	T85
2511469	A4ENN160611	C130
2511470	A4ENN200611	C130
2511471	A4ENN160811	C130
2526351	KG2531ELDJ KC410M	T93
2526385	KG2508ELDJ KC410M	T93
2526387	KG2564ELDJ KC410M	T93
2526757	KG2516ELDJ KC410M	T93
2528269	KSSP200R3SD43W125L169	T119
2530317	M1D150K2502W125L200	T89
2530318	M1D150K2502C125L200	T89
2530320	M1D150K2502C125L400	T89
2530322	M1D200K2503C125L200	T89
2530357	M1D150K2502HSK63L477	T91
2530374	M1D200K2503CV50L700	T92
2539334	CM184LP	C185, D25
2539335	CM185LP	C185, D25
2541018	KSEM1800PCM KC7135	H70, H111
2541019	KSEM1850PCM KC7135	H70
2541020	KSEM2300PCM KC7135	H70, H111
2541133	B707A07000FBG KC7315	G110
2541200	KRDEA046AM	K79
2541201	KRDEA051AM	K79
2541202	KRDEA012AM	K79
2541213	KRDE025010M	K80
2541214	KRDE033010M	K80
2541215	KRDE043010M	K80
2541216	KRDE065012M	K80
2541217	KRCW032A	K80
2541511	KSEM1300PCM KC7135	H70, H111
2541512	KSEM1350PCM KC7135	H70
2541535	B976A05530 KC7315	G135
2541967	M1D100E1802CV40L450	T79
2541969	M1D100E1802BT40L450	T80
2541970	M1D125E1803CV40L488	T79
2541972	M1D150E1804CV40L488	T79
2541984	M1D150E1804BT40L488	T80
2542068	KTIP0313R8SS038	H39
2542069	KTIP0335R8SS038	H39
2542071	KTIP0354R8SS038	H39
2542072	KTIP0374R8SS038	H39
2542083	KTIP0374R8SS044	H39
2542084	KTIP0394R8SS044	H39
2542085	KTIP0413R8SS044	H39
2542086	KTIP0433R8SS044	H39
2542087	KTIP0453R8SS050	H39
2542088	KTIP0492R8SS050	H39
2542089	KTIP0492R8SS056	H39
2542090	KTIP0512R8SS056	H39
2542091	KTIP0532R8SS056	H39
2542092	KTIP0551R8SS056	H39
2542093	KTIP0571R8SS063	H39
2542094	KTIP0591R8SS063	H39
2542095	KTIP0630R8SS069	H39
2542517	A4M50R0314A036048	C139
2542518	A4M50R0314A042058	C139
2542519	A4M50R0314A052074	C139
2542520	A4M50R0314A068100	C139
2542521	A4M50R0314A090160	C139
2542522	A4M50R0314A130300	C139
2542523	A4M50R0314A290999	C139
2542524	A4M50L0314A036048	C140
2542527	A4M50L0314A068100	C140
2542528	A4M50L0314A090160	C140
2542529	A4M50L0314A130300	C140
2542530	A4M50L0314A290999	C140
2542531	A4M50R0414A048072	C139
2542532	A4M50R0414A064100	C139
2542533	A4M50R0414A092150	C139
2542534	A4M50R0414A132300	C139
2542535	A4M50R0414A290999	C139
2542537	A4M50L0414A064100	C140
2542538	A4M50L0414A092150	C140
2542539	A4M50L0414A132300	C140
2542540	A4M50L0414A290999	C140
2542541	A4M50R0519A058094	C139
2542542	A4M50R0519A080136	C139
2542543	A4M50R0519A120300	C139
2542544	A4M50R0519A250999	C139
2542545	A4M50L0519A058094	C140
2542546	A4M50L0519A080136	C140
2542547	A4M50L0519A120300	C140
2542548	A4M50L0519A250999	C140
2542822	KSEM2500PCM KC7135	H70, H111
2542849	KSEM3000PCM KC7135	H70, H111

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2544200	SPCT3125PPER8LD2 KC520M	T111, U30
2544413	SDCT43PDER8LD2 KC520M	T115, T122, U38
2545095	OFKT64AFEN6LB KCPK30	S51
2545097	OFKT64AFSN6LB KCPK30	S51
2546816	BGHX15L5PCSRLET KD1410	S125
2548776	KTIP080R8SS10M	H38
2548777	KTIP090R8SS10M	H38
2548778	KTIP095R8SS10M	H38
2548779	KTIP100R8SS12M	H38
2548780	KTIP105R8SS12M	H38
2548781	KTIP110R8SS12M	H38
2548782	KTIP115R8SS12M	H38
2548913	KTIP120R8SS14M	H38
2548914	KTIP125R8SS14M	H38
2548915	KTIP130R8SS14M	H38
2548916	KTIP135R8SS14M	H38
2548917	KTIP140R8SS16M	H38
2548918	KTIP145R8SS16M	H38
2548919	KTIP150R8SS16M	H38
2548920	KTIP080R8SCF12M	H40
2548921	KTIP085R8SCF12M	H40
2548922	KTIP090R8SCF12M	H40
2548923	KTIP095R8SCF12M	H40
2548924	KTIP100R8SCF16M	H40
2548925	KTIP105R8SCF16M	H40
2548926	KTIP110R8SCF16M	H40
2548927	KTIP115R8SCF16M	H40
2548928	KTIP120R8SCF16M	H40
2548929	KTIP125R8SCF16M	H40
2548930	KTIP130R8SCF16M	H40
2548931	KTIP135R8SCF16M	H40
2548932	KTIP140R8SCF16M	H40
2548933	KTIP145R8SCF16M	H40
2548934	KTIP150R8SCF20M	H40
2548935	KTIP160R8SCF20M	H40
2549023	NG3047L KC5010	C170
2549978	OFPT64AFEN6GB KC520M	S52
2576202	S459	V70, V77, V83, V149
2579622	B976A06900 KC7315	G135
2581445	M1D200K2502S075L200	T90
2581447	M1D250K2503S100L225	T90
2581449	M1D400K2504S125L225	T90
2582207	CTFPR20CA4	B186, B397
2582790	B707A17000FBG KC7315	G112
2594849	B707A21000FBG KC7315	G112
2598551	E06MSCLCL2	B197
2598552	E06MSCLCR2	B197
2598694	E08RSCLCR2	B197
2598696	E10SSCLCR2	B197
2598697	E10SSCLCL3	B197
2598698	E10SSCLCR3	B197
2598699	E12SSCLCL3	B197
2598700	E12SSCLCR3	B197
2598702	E16TSCLCR3	B197
2598759	NG3072R KC5010	C170
2598760	NG3072L KC5010	C170
2598761	NG3078R KC5010	C170
2598803	NG3088R KC5010	C170
2598804	NG3097R KC5010	C170
2598806	NG3105R KC5010	C170
2598807	NG3105L KC5010	C171
2598808	NG3125L KC5010	C171
2598809	NG3142R KC5010	C170
2598811	NG3156R KC5010	C170
2598813	NG3189L KC5010	C171
2598816	NGP3125R KC5010	C168
2598817	NGP3125L KC5010	C168
2598823	NGD3189L KC5010	C171
2598824	NG3062R KC5010	C170
2599495	NG4189R KC5010	C170
2599496	NR3031L KC5010	C172
2599497	NG4189L KC5010	C171
2599498	NG4250L KC5010	C171
2599501	NGP4250R KC5010	C168
2599504	NGD4250L KC5010	C171
2599505	NR4125R KC5010	C172
2599506	NR3047R KC5010	C172
2599507	NR3047L KC5010	C172
2599508	NR3062R KC5010	C172
2599509	NR3062L KC5010	C172
2599510	NRP3031R KC5010	C169
2599511	NRP3031L KC5010	C169
2599512	NRP3047R KC5010	C169
2599513	NRP3047L KC5010	C169
2599514	NRP3062R KC5010	C169
2599515	NRP3062L KC5010	C169
2599516	NRP3094R KC5010	C169
2599518	NRP3094L KC5010	C169
2599519	NG3047R KC5025	C170
2599521	NG3062R KC5025	C170
2599522	NG3062L KC5025	C170
2599523	NG3094R KC5025	C170
2599524	NG3094L KC5025	C170
2599525	NG3125L KC5025	C171
2599526	NG3156R KC5025	C170
2599527	NG3156L KC5025	C171
2599528	NG3189R KC5025	C170
2599529	NG3189L KC5025	C171
2599530	NR3031R KC5025	C172
2599531	NR3031L KC5025	C172
2599534	NR3062R KC5025	C172
2599535	NR3062L KC5025	C172
2599536	NRD4062R KC5010	C173
2599537	NRD4062L KC5010	C173
2599538	NRD4094R KC5010	C173
2599539	NRD4094L KC5010	C173
2599540	NRD4125L KC5010	C173
2599550	NR4125L KC5010	C172
2599571	NG2031R KC5010	C170
2599572	NG2031L KC5010	C170
2599743	NG2041R KC5010	C170
2599744	NG2041L KC5010	C170
2599745	NG2047R KC5010	C170
2599746	NG2047L KC5010	C170
2599748	NG2094R KC5010	C170
2599749	NG2094L KC5010	C170
2599750	NG2125R KC5010	C170
2599751	NG2125L KC5010	C170
2599752	NGP2031R KC5010	C168
2599757	NR2031R KC5010	C172
2599758	NR2031L KC5010	C172
2599759	NR2062R KC5010	C172
2599760	NR2062L KC5010	C172
2599761	NG2031R KC5025	C170
2599765	NG2062R KC5025	C170
2599887	B976A04100 KC7315	G134
2601012	KSSP200R3SD43L125	T120
2603030	KSEM2430HPGM KC7315	H55
2604354	RNMG43RN KC5010	B97
2605982	RCGT64ELF KCPK30	V89
2606186	RCGT64SHF KC725M	V89
2607377	B707A10000FBG KC7315	G111
2610667	BMD200R6403W150L200	V87
2610668	BMD250R6404S075L200	V88
2610670	BMD300R6405S100L200	V88
2610672	BMD400R6405S125L200	V88
2610683	BMD400R6406S125L200	V88
2610684	BMD500R6406S150L250	V88
2610685	BMD500R6408S150L250	V88
2610686	BMD600R6407S150L250	V88
2610687	BMD600R6408S150L250	V88
2610688	BMD800R6409S250L250	V88
2610689	BMD300R8603S075L200	V91
2610691	BMD400R8605S125L250	V91
2610694	BMD600R8607S150L250	V91
2610696	BMD800R8608S250L250	V91
2610697	BMD500R8606S150L250	V91
2613790	3.41020R904 KC7315	I17
2613791	3.41020R901 KC7315	I16
2613792	3.41020R902 KC7315	I16
2613858	B967A14000 KC7315	G132
2614153	MS2055	B197
2614817	B976A07100 KC7315	G135
2615043	3.41020R903 KC7315	I16
2615044	3.41220R904 KC7315	I17
2615045	3.41220R901 KC7315	I16
2615046	3.41220R902 KC7315	I16
2615047	3.41220R903 KC7315	I16
2616697	KSEM2215HPGM KC7315	H55
2618743	170.314	H38–41
2618967	KSSS600ASD43N750	U33
2618969	KSSS600ASD43R750	U32
2619033	B707A05560FBG KC7315	G110
2620169	B978A04600 KC7315	G139
2623070	B707A16000FBG KC7315	G112
2623553	B256A05100 KC7315	G58
2623856	M1D075E1402W075L175	T49
2623857	M1D100E1402W100L175	T49
2623858	M1D125E1403W100L225	T50
2623859	M1D150E1405W125L225	T50
2623860	KSEM2000PCM KC7135	H70, H111
2624187	M1D075E1402C075L650	T52
2624188	M1D075E1402W075L175DE	T51
2624189	M1D097E1403W100L175	T49
2624190	M1D100E1403C100L750	T52
2624191	M1D100E1403W100L175DE	T51
2624192	M1D125E1404C125L800	T52
2624194	M1D150E1404W125L225	T50
2624197	M1D075E1402C075L800	T52
2624198	M1D100E1402C100L1000	T52
2624199	M1D100E1403W100L175R	T50
2624200	M1D125E1403C125L1000	T52
2624201	M1D125E1404W125L225R	T50
2624202	M1D150E1404C125L1000	T52
2624243	M1D062E1401W075L150	T49
2624245	M1D088E1402W100L175	T49
2624246	M1D100E1403CV40L300	T54
2624248	M1D125E1404CV40L300	T54
2624250	M1D150E1405C125L800	T52
2624253	M1D150E1405CV40L300	T54
2624254	M1D250E1407S075L157	T53
2624255	M1D150E1405S075L157	T53
2624270	M1D200E1405S075L157	T53
2624271	M1D150E1405W125L225R	T50
2624274	M1D250E1405S075L157	T53
2624275	M1D300E1408S100L175	T53
2624277	M1D300E1406S100L175	T53
2624278	M1D400E1410S150L200	T53
2624279	M1D400E1408S150L200	T53
2625682	B256A07000 KC7315	G58
2625743	B256A08000 KC7315	G58
2627240	B967A12000 KC7315	G132
2628928	B707A11570FBG KC7315	G111
2629032	B707A04900FBG KC7315	G110
2629368	B707A12000FBG KC7315	G111
2629768	KSSS400ASP10N625	U26
2629769	KSSS400ASP10L625	U25
2629770	KSSS400ASP10R625	U25
2629772	KSSS500ASP10L625	U25
2629774	KSSS600ASP10N625	U26
2629780	KSSS400BSP10N625	U27
2629781	KSSS500BSP10N625	U27
2629783	KSSS800BSP10N625	U27
2629784	KSSS600ASD43L750	U32
2629785	KSSS800ASD43N750	U33
2629786	KSSS800ASD43L750	U32
2629787	KSSS800ASD43R750	U32
2629788	KSSS1000ASD43N750	U33
2629790	KSSS1000ASD43R750	U32
2629791	KSSS600BSD43N750	U34
2629792	KSSS800BSD43N750	U34
2629794	KSSS500ASP10N625	U26
2633016	B707A18000FBG KC7315	G112
2633730	KTIP080R3BF08M	I11
2633731	KTIP090R5BF10M	I13
2633732	KTIP160R3BF17M	I11
2634374	3.77000R224V	J85
2634375	3.77000R227V	J85
2634376	3.77000R229V	J85
2634377	3.77000R231V	J85
2634378	3.77000R239V	J85
2634379	3.77000R249V	J85
2634380	3.77000R251V	J85
2634381	3.77000R253V	J85
2634382	3.77000R274V	J85
2634413	3.77000R276V	J85
2634414	3.77000R278V	J85
2634415	3.77000R280V	J85
2634416	3.77000R282V	J85
2634417	3.77000R284V	J85
2634418	3.77000R286V	J85
2634419	3.77000R288V	J85
2634568	B707A07500FBG KC7315	G111
2635436	B977A15300 KC7315	G137
2635710	M1D125E1803W100L225	T76
2636514	B707A12800FBG KC7315	G111
2636741	S2160	V87, V91
2636813	S446CG	V70, V77
2636819	S2162C	S17, S20, S24, S45, S50, V70, V77, V88, V141
2636820	S2163C	S10, S14, S58, V77, V88, V91, V141
2636821	S2164C	T90, V91
2636822	S445CG	S17, S20, T53, T78, T90, V54, V88, V91, V141
2636823	S458CG	S17, S20, S24, T90, V54, V88, V141
2637756	MS2060	S32
2637762	MS2066	B197
2637805	F7IP	T29, T40
2639052	B707A11800FBG KC7315	G111
2639144	B707A15250FBG KC7315	G112
2639491	KSEM3900PCM KC7135	H70, H111
2641904	B966A16500 KC7315	G132
2646000	B707A15000FBG KC7315	G111
2646064	KSEM1280PCM KC7135	H70
2646067	KSEM1380PCM KC7135	H70
2646068	KSEM1400PCM KC7135	H70, H111
2646069	KSEM1410PCM KC7135	H70
2646072	KSEM1450PCM KC7135	H70
2646073	KSEM1460PCM KC7135	H70
2646074	KSEM1480PCM KC7135	H70
2646075	KSEM1500PCM KC7135	H70, H111
2646077	KSEM1550PCM KC7135	H70
2646078	KSEM1560PCM KC7135	H70
2646080	KSEM1580PCM KC7135	H70
2646081	KSEM1600PCM KC7135	H70, H111
2646082	KSEM1620PCM KC7135	H70
2646083	KSEM1650PCM KC7135	H70
2646084	KSEM1700PCM KC7135	H70, H111
2646085	KSEM1900PCM KC7135	H70, H111
2646086	KSEM1950PCM KC7135	H70
2646087	KSEM2050PCM KC7135	H70
2646088	KSEM2100PCM KC7135	H70, H111
2646089	KSEM2150PCM KC7135	H70
2646090	KSEM2200PCM KC7135	H70, H111
2646091	KSEM2250PCM KC7135	H70
2646092	KSEM2350PCM KC7135	H70
2646093	KSEM2400PCM KC7135	H70, H111
2646094	KSEM2450PCM KC7135	H70
2646095	KSEM2550PCM KC7135	H70
2646096	KSEM2650PCM KC7135	H70
2646097	KSEM2700PCM KC7135	H70, H111
2646099	KSEM2800PCM KC7135	H70, H111
2646100	KSEM2850PCM KC7135	H70
2646101	KSEM2900PCM KC7135	H70, H111
2646102	KSEM2950PCM KC7135	H70
2646103	KSEM3050PCM KC7135	H70
2646104	KSEM3100PCM KC7135	H70, H111
2646106	B343S04803HPG KC7315	I10
2646108	B343S04921HPG KC7315	I10
2646109	B343S05000HPG KC7315	I10
2646110	B343S05039HPG KC7315	I10
2646111	B343S05118HPG KC7315	I10
2646112	B343S02402HPG KC7315	I8
2646253	B343S02441HPG KC7315	I8
2646254	B343S02480HPG KC7315	I8
2646255	B343S02500HPG KC7315	I8
2646256	B343S02520HPG KC7315	I8
2646257	B343S02559HPG KC7315	I8
2646258	B343S02570HPG KC7315	I8
2646259	B343S02598HPG KC7315	I8
2646260	B343S02638HPG KC7315	I8
2646261	B343S02656HPG KC7315	I9
2646262	B343S02677HPG KC7315	I9
2646263	B343S02717HPG KC7315	I9
2646265	B343S02756HPG KC7315	I9
2646266	B343S02813HPG KC7315	I9
2646267	B343S02874HPG KC7315	I9
2646268	B343S02913HPG KC7315	I9
2646269	B343S02953HPG KC7315	I9
2646270	B343S02969HPG KC7315	I9
2646272	B343S03071HPG KC7315	I9
2646273	B343S03110HPG KC7315	I9
2646274	B343S03125HPG KC7315	I9

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2646275	B343S03150HPG KC7315	I9
2646276	B343S01250HPG KC7315	I8
2646277	B343S01339HPG KC7315	I8
2646278	B343S01378HPG KC7315	I8
2646279	B343S01495HPG KC7315	I8
2646280	B343S01496HPG KC7315	I8
2646281	B343S01563HPG KC7315	I8
2646282	B343S01575HPG KC7315	I8
2646333	B343S01614HPG KC7315	I8
2646334	B343S01654HPG KC7315	I8
2646335	B343S01693HPG KC7315	I8
2646336	B343S01772HPG KC7315	I8
2646337	B343S01811HPG KC7315	I8
2646338	B343S01820HPG KC7315	I8
2646339	B343S01875HPG KC7315	I8
2646340	B343S01929HPG KC7315	I8
2646341	B343S01969HPG KC7315	I8
2646342	B343S02008HPG KC7315	I8
2646343	B343S02047HPG KC7315	I8
2646344	B343S02087HPG KC7315	I8
2646345	B343S02126HPG KC7315	I8
2646346	B343S02130HPG KC7315	I8
2646347	B343S02165HPG KC7315	I8
2646348	B343S02185HPG KC7315	I8
2646349	B343S02188HPG KC7315	I8
2646350	B343S02205HPG KC7315	I8
2646351	B343S02283HPG KC7315	I8
2646352	B343S02362HPG KC7315	I8
2646385	B343S05197HPG KC7315	I10
2646386	B343S05315HPG KC7315	I10
2646387	B343S05512HPG KC7315	I10
2646389	B343S05591HPG KC7315	I10
2646390	B343S05625HPG KC7315	I10
2646391	B343S05906HPG KC7315	I10
2646392	B343S06102HPG KC7315	I10
2646393	B343S06250HPG KC7315	I10
2646394	B343S06299HPG KC7315	I10
2646395	B343S06496HPG KC7315	I10
2646396	B343S06562HPG KC7315	I10
2646397	B343S06693HPG KC7315	I10
2646399	B343S06890HPG KC7315	I10
2646400	B343S06969HPG KC7315	I10
2646401	B343S07087HPG KC7315	I10
2646402	B343S03976HPG KC7315	I9
2646423	B343S04016HPG KC7315	I9
2646424	B343S04055HPG KC7315	I9
2646425	B343S04063HPG KC7315	I9
2646426	B343S04094HPG KC7315	I9
2646427	B343S04134HPG KC7315	I9
2646428	B343S04173HPG KC7315	I9
2646429	B343S04213HPG KC7315	I9
2646430	B343S04219HPG KC7315	I9
2646431	B343S04252HPG KC7315	I9
2646432	B343S04331HPG KC7315	I9
2646433	B343S04370HPG KC7315	I9
2646434	B343S04375HPG KC7315	I9
2646435	B343S04409HPG KC7315	I9
2646436	B343S04449HPG KC7315	I9
2646437	B343S04528HPG KC7315	I9
2646438	B343S04531HPG KC7315	I9
2646439	B343S04606HPG KC7315	I9
2646440	B343S04646HPG KC7315	I10
2646441	B343S04688HPG KC7315	I10
2646442	B343S04724HPG KC7315	I10
2649363	B976A03970 KC7315	G134
2649364	B976A04763 KC7315	G135
2649365	B976A05575 KC7315	G135
2649366	B976A06350 KC7315	G135
2649367	B976A06746 KC7315	G135
2649368	B976A07145 KC7315	G135
2649369	B976A07541 KC7315	G136
2649370	B976A07938 KC7315	G136
2649371	B976A08334 KC7315	G136
2649372	B976A08733 KC7315	G136
2649373	B976A09129 KC7315	G136
2649374	B976A09525 KC7315	G136
2649375	B976A09921 KC7315	G136
2649376	B976A10320 KC7315	G136
2649377	B976A10716 KC7315	G137
2649378	B976A11113 KC7315	G137
2649379	B976A11509 KC7315	G137
2649380	B976A11908 KC7315	G137
2649381	B976A12304 KC7315	G137
2649382	B976A14288 KC7315	G137
2649383	B976A15875 KC7315	G138
2649384	B976A17463 KC7315	G138
2649385	B976A19050 KC7315	G138
2649386	B977A03970 KC7315	G134
2649387	B977A04580 KC7315	G135
2649388	B977A04623 KC7315	G135
2649389	B977A04763 KC7315	G135
2649390	B977A05410 KC7315	G135
2649391	B977A05558 KC7315	G135
2649486	B967A10500 KC7315	G131
2649548	R30FBHS06	K140
2649549	R38FBHS06	K140
2649550	R48FBHS06	K140
2649551	R65FBHS06	K140
2649552	R85FBHS06	K140
2649553	R85FBHS09	K140
2649554	R125FBHS09	K140
2649555	R24FBHS06LF	K140
2649556	R31FBHS06LF	K140
2649557	R40FBHS06LF	K140
2649558	R51FBHS06LF	K140
2649559	R67FBHS09LF	K140
2649913	DH35M	S39, T113
2650038	B707A08500FBG KC7315	G111
2651013	B343S03189HPG KC7315	I9
2651014	B343S03228HPG KC7315	I9
2651015	B343S03268HPG KC7315	I9
2651016	B343S03281HPG KC7315	I9
2651017	B343S03307HPG KC7315	I9
2651018	B343S03320HPG KC7315	I9
2651019	B343S03346HPG KC7315	I9
2651020	B343S03386HPG KC7315	I9
2651021	B343S03425HPG KC7315	I9
2651022	B343S03438HPG KC7315	I9
2651023	B343S03465HPG KC7315	I9
2651025	B343S03543HPG KC7315	I9
2651026	B343S03583HPG KC7315	I9
2651028	B343S03680HPG KC7315	I9
2651029	B343S03701HPG KC7315	I9
2651030	B343S03740HPG KC7315	I9
2651031	B343S03750HPG KC7315	I9
2651033	B343S03819HPG KC7315	I9
2651034	B343S03858HPG KC7315	I9
2651035	B343S03906HPG KC7315	I9
2651036	B343S03937HPG KC7315	I9
2651037	HSK63FBH01695	K128
2651038	AFB38115SCFPR09	K134
2651039	AFB42115SCFPR09	K134
2651040	AFB47115SCFPR09	K134
2651042	RS1605	K129
2651163	CFB10082	K135
2651164	CFB12096	K135
2651165	CFB14110	K135
2651166	CFB16120	K135
2651167	CFB18140	K135
2651168	HFB1023SCFPR06	K130
2651169	HFB1223SCFPR06	K130
2651170	HFB1627SCFPR06	K130
2651171	HFB2127SCFPR06	K130
2651172	HFB2427SCFPR06	K130
2651173	HFB2727SCFPR06	K130
2651174	HFB3127SCFPR06	K130
2651175	HFB3427SCFPR06	K130
2651176	HFB14FBHS1440	K130
2651177	HFB16FBHS1640	K130
2651178	HFB19FBHS1840	K130
2652755	B707A09000FBG KC7315	G111
2652965	SYB24RBHT06F	K125
2652967	SYB30RBHT06F	K125
2652968	SYB40RBHT09F	K125
2652969	SYB50RBHT09F	K125
2652970	SYB66RBHT12F	K125
2652971	SYB66RBHT12LF	K125
2652972	SYB87RBHT12F	K125
2652983	SYB87RBHT16LF	K125
2652984	SYB115RBHT16LF	K125
2653917	KSEM0758HPG KC7315	H54
2655215	B977A13200 KC7315	G137
2655963	B707A04800FBG KC7315	G110
2657603	B707A11700FBG KC7315	G111
2658030	B707A08800FBG KC7315	G111
2658054	B256A08400 KC7315	G58
2658075	B967A10700 KC7315	G131
2658213	B977A06528 KC7315	G135
2658214	B977A09746 KC7315	G136
2658215	B977A06909 KC7315	G135
2658216	B977A07145 KC7315	G135
2658217	B977A07541 KC7315	G136
2658218	B977A07938 KC7315	G136
2658219	B977A08334 KC7315	G136
2658220	B977A08433 KC7315	G136
2658221	B977A08733 KC7315	G136
2658222	B977A09129 KC7315	G136
2658223	B977A09347 KC7315	G136
2658224	B977A09525 KC7315	G136
2658226	B977A09921 KC7315	G136
2658227	B977A10320 KC7315	G136
2658228	B977A10716 KC7315	G137
2658229	B977A11113 KC7315	G137
2658230	B977A11509 KC7315	G137
2658231	B977A11908 KC7315	G137
2658232	B977A12304 KC7315	G137
2658234	B977A13096 KC7315	G137
2658235	B977A14288 KC7315	G137
2658236	B977A15875 KC7315	G138
2658237	B977A16078 KC7315	G138
2658239	B977A17463 KC7315	G138
2658240	B977A19050 KC7315	G138
2658241	B977A19253 KC7315	G138
2658242	B977A19446 KC7315	G138
2658352	SFRHEC250S3075 K600	P131
2658393	B978A03970 KC7315	G139
2658394	B978A04763 KC7315	G139
2658395	B978A05558 KC7315	G139
2658396	B978A06350 KC7315	G139
2658397	B978A06746 KC7315	G139
2658398	B978A07145 KC7315	G139
2658399	B978A07541 KC7315	G140
2658400	B978A07938 KC7315	G140
2658401	B978A08334 KC7315	G140
2658402	B978A08733 KC7315	G140
2658403	B978A09129 KC7315	G140
2658404	B978A09525 KC7315	G140
2658405	B978A09921 KC7315	G140
2658406	B978A10320 KC7315	G140
2658407	B978A10716 KC7315	G140
2658408	B978A11113 KC7315	G140
2658409	B978A11509 KC7315	G140
2658410	B978A11908 KC7315	G140
2658411	B978A12304 KC7315	G140
2658412	B978A12700 KC7315	G140
2658413	B978A14288 KC7315	G141
2658414	B978A15875 KC7315	G141
2658415	B978A16078 KC7315	G141
2658416	B978A17463 KC7315	G141
2658417	B978A19050 KC7315	G141
2658418	B978A19253 KC7315	G141
2658419	A4G0300M03P04T01025 KY3500	B321, C110
2658420	A4G0400M04P04T01025 KY3500	B321, C110
2658421	A4G0500M05P08T01025 KY3500	B321, C110
2658422	A4G0600M06P08T01025 KY3500	B321, C110
2658444	SFRHEC375S3088 K600	P131
2658445	SFRHEC500S3100 K600	P131
2658446	SFRHEC500S3200 K600	P131
2658448	SFRHEC625S3225 K600	P131
2658449	SFRHEC750S3150 K600	P131
2658450	SFRHEC750S3225 K600	P131
2658452	SFRHEC100S3225 K600	P131
2658685	B967A16000 KC7315	G132
2659233	A4G0800M08P08T01025 KY3500	B321, C110
2659234	A4G125I03P1T0425 KY3500	B321, C110
2659236	A4G250I06P2T0425 KY3500	B321, C110
2659238	A4R0300M03P00T01025 KY3500	B321, C110
2659240	A4R0600M06P00T01025 KY3500	B321, C110
2659241	A4R0800M08P00T01025 KY3500	B321, C110
2659244	A4R250I06P00T0425 KY3500	B321, C110
2659293	A20UDVUNR3KC3	B154
2659294	A24UDVUNL3KC3	B154
2659295	A24UDVUNR3KC3	B154
2659833	KG2520ELDJ KC410M	T93
2660255	KG2540ELDJ KC410M	T93
2660384	B707A05900FBG KC7315	G110
2818063	B977A21000 KC7315	G138
2825941	QTM20 WG	B292
2832635	CT11 WG	B291–292
2868502	3.77000R250V	J85
2869513	3.77000R252V	J85
2869514	3.77000R228V	J85
2869515	3.77000R230V	J85
2869516	3.77000R248V	J85
2872839	KSEM0757HP KC7315	H52
2875458	KG2550ELDJ KC410M	T93
2875584	B978A05800 KC7315	G139
2876977	RPGV45MP KC5010	B167
2877454	EP1808EHD KC725M	T84
2877455	EP1808EHD KCPK30	T84
2877456	EP1812EHD KC725M	T84
2877457	EP1812EHD KCPK30	T84
2877458	EP1816EHD KC725M	T84
2877459	EP1816EHD KCPK30	T84
2877460	EP1832EHD KC725M	T84
2877461	EP1832EHD KCPK30	T84
2877462	KDMB0500M0ERGN KC515M	V126
2877812	KDMB0375R354A038SN	V121
2878423	KDMB0750M0ERGN KC515M	V126
2878424	KDMB1000M0ERGN KC515M	V126
2878433	KDMB0500R591A050SN	V121
2878434	KDMB0500R512A050SN	V121
2878435	KDMB0625R551A063SN	V121
2878436	KDMB0625R630A063SN	V121
2878437	KDMB0750R630A075SN	V121
2878438	KDMB0750R689A075SN	V121
2878439	KDMB0750R827A075SN	V121
2878440	KDMB1000R630A100SN	V121
2878441	KDMB1000R748A100SN	V121
2878442	KDMB1250R689A125SN	V121
2878443	KDMB1250R827A125SN	V121
2878444	KDMB0312R551A031ST	V122
2878445	KDMB0375R591A038ST	V122
2878446	KDMB0500R630A050ST	V122
2878448	KDMB0750R748A075ST	V122
2878449	KDMB1000R827A100ST	V122
2878450	KDMB1250R945A125ST	V122
2878591	B976A03300 KC7315	G134
2878592	B976A03000 KC7315	G134
2878733	KDMT0500R630A050HNC	V133
2878737	KDMT0750R748A075HNC	V133
2879403	KDMB0375R472A038HNC	V123
2879404	KDMB0375R591A038HNC	V123
2879405	KDMB0500R472A050HNC	V123
2879406	KDMB0500R630A050HNC	V123
2879408	KDMB0625R689A063HNC	V123
2879409	KDMB0750R551A075HNC	V123
2879410	KDMB0750R827A075HNC	V123
2879411	KDMB1000R630A100HNC	V123
2879412	KDMB1000R906A100HNC	V123
2879415	KDMT05002ERGN KC515M	V134
2879416	KDMT05004ERGN KC515M	V134
2879418	KDMT06254ERGN KC515M	V134
2879419	KDMT07502ERGN KC515M	V134
2879420	KDMT07504ERGN KC515M	V134
2879514	KDMT05004ERGC KC515M	V134
2879515	KDMT05002ERGC KC515M	V134
2879519	KDMT07502ERGC KC515M	V134
2879520	KDMT10004ERGC KC515M	V134
2879521	KDMT10002ERGC KC515M	V134
2881212	193.450	J85
2881283	193.451	J85
2882164	B976A16200 KC7315	G138
2883559	KG2512ELDJ KC410M	T93
2884170	B976A10400 KC7315	G136
2884902	KSCMCA75UN KD1420	S111

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
2884915	KSCMCA90UN KD1420	S110
2884917	KSCMCA75HR KD1420	S111
2884918	KSCMCA75QF KD1420	S111
2884919	KSCMCA75PT KD1420	S111
2885009	B707A12500FBG KC7315	G111
2886972	SDET438XENGB2 KC725M	T115, T122, U39
2887393	KSEM2120HPGM KC7315	H54
2887394	KSEM2670HPGM KC7315	H55
2887395	KSEM1770HPGM KC7315	H54
2887724	B707A03000FBG KC7315	G110
2888086	KTIP080R4BF09M	I12
2888087	KTIP085R4BF09M	I12
2888088	KTIP090R4BF10M	I12
2888089	KTIP095R4BF10M	I12
2888090	KTIP100R4BF11M	I12
2888091	KTIP105R4BF11M	I12
2888092	KTIP110R4BF12M	I12
2888306	B978A04000 KC7315	G139
2888501	KTIP080R3BF09M	I11
2888502	KTIP085R3BF09M	I11
2888893	KTIP090R3BF09M	I11
2888894	KTIP090R3BF10M	I11
2888895	KTIP095R3BF10M	I11
2888896	KTIP100R3BF10M	I11
2888897	KTIP100R3BF11M	I11
2888898	KTIP105R3BF11M	I11
2888899	KTIP110R3BF11M	I11
2888900	KTIP110R3BF12M	I11
2888901	KTIP115R3BF12M	I11
2888902	KTIP120R3BF12M	I11
2888903	KTIP120R3BF13M	I11
2888904	KTIP125R3BF13M	I11
2888905	KTIP130R3BF13M	I11
2888906	KTIP130R3BF14M	I11
2888907	KTIP135R3BF14M	I11
2888908	KTIP140R3BF14M	I11
2888909	KTIP140R3BF15M	I11
2888910	KTIP145R3BF15M	I11
2888911	KTIP150R3BF15M	I11
2888912	KTIP150R3BF16M	I11
2888913	KTIP160R3BF16M	I11
2889053	KTIP115R4BF12M	I12
2889054	KTIP120R4BF13M	I12
2889055	KTIP125R4BF13M	I12
2889056	KTIP130R4BF14M	I12
2889057	KTIP135R4BF14M	I12
2889058	KTIP140R4BF15M	I12
2889059	KTIP145R4BF15M	I12
2889060	KTIP150R4BF16M	I12
2889061	KTIP160R4BF17M	I12
2889062	KTIP080R5BF09M	I13
2889063	KTIP085R5BF09M	I13
2889064	KTIP095R5BF10M	I13
2889065	KTIP100R5BF11M	I13
2889066	KTIP105R5BF11M	I13
2889067	KTIP110R5BF12M	I13
2889068	KTIP115R5BF12M	I13
2889069	KTIP120R5BF13M	I13
2889070	KTIP125R5BF13M	I13
2889071	KTIP130R5BF14M	I13
2889072	KTIP135R5BF14M	I13
2889073	KTIP140R5BF15M	I13
2889074	KTIP145R5BF15M	I13
2889075	KTIP150R5BF16M	I13
2889076	KTIP160R5BF17M	I13
2889261	SDCT438ENLD2 KC522M	T115, T122, U38
2890223	B976A03700 KC7315	G134
2896948	B707A19000FBG KC7315	G112
2907289	FBSCUCR09CA06F	K117
2907291	FBSTFCR09CA11F	K117
2940518	B978A08200 KC7315	G140
2951623	BGHX15L5PCSRLET KD1415	S125
2951631	3.37092R320	I14
2951632	3.37092R820	I14
2956333	VNGX353T0820 KY3500	B319
2956334	VNGX354T0820 KY3500	B319
2957497	B707A14500FBG KC7315	G111
2957711	SNXF433ENLD KC514M	S89
2957728	SNXF43ZNENLD KC524M	S89
2957730	SNXF433SNGP KC524M	S89
2957732	SNXF43ZNSNGP KC524M	S89
2957734	SNXF433ENLD KC524M	S89
2957735	SNXF433SNHE KC524M	S89
2957736	SNXF43ZNENLD KC514M	S89
2957738	SNXF433SNGP KC514M	S89
2957739	SNXF43ZNSNGP KC514M	S89
2957741	SNXF43ZNSNHE KC514M	S89
2957828	KDMT0500R512A050SN	V132
2957829	KDMT0500R591A050SN	V132
2957831	KDMT0625R630A063SN	V132
2957832	KDMT0750R630A075SN	V132
2958143	KDMT0750R827A075SN	V132
2958144	KDMT1000R630A100SN	V132
2958146	KDMT1000R906A100SN	V132
2962052	SFRHEC312S3075 KC625M	P131
2962053	SFRHEC375S3088 KC625M	P131
2962054	SFRHEC500S3100 KC625M	P131
2962055	SFRHEC500S3200 KC625M	P131
2962057	SFRHEC625S3225 KC625M	P131
2962058	SFRHEC750S3150 KC625M	P131
2962059	SFRHEC750S3225 KC625M	P131
2962060	SFRHEC100S3150 KC625M	P131
2962061	SFRHEC100S3225 KC625M	P131
2963631	B511S08000 KC7315	J86
2963632	B511S10000 KC7315	J86
2963663	B511S15000 KC7315	J86
2963664	B511S20000 KC7315	J86
2963665	B511S25000 KC7315	J86
2963666	B511S30000 KC7315	J86
2964507	RNMG64RN KC5010	B97
2965409	B977A04650 KC7315	G135
2971371	RCGT64SGF KC522M	V89
2972258	A4C0155N00CF01 KC5025	C112
2972259	A4C0155L06CF01 KC5025	C113
2972262	A4C0155R06CF01 KC5025	C113
2973094	A4C0155R16CF01 KC5025	C113
2974425	A4SMR2020K0217	C124
2975401	MS2166	T49–54
2975402	MS2167	T49, T51–52
2976491	A4SML100214	C123
2976493	A4SML120217	C123
2976494	A4SML160217	C123
2976495	A4SMR100214	C122
2976496	A4SMR120214	C122
2976497	A4SMR120217	C122
2976498	A4SMR160217	C122
2977923	KSSP300R5SD43L400HC	T120
2978378	A4SCR1212K0113	C128
2979048	B978A05900 KC7315	G139
2979110	A4C0205L10CF02 KC5025	C113
2979111	A4C0205N00CF02 KC5025	C112
2979112	A4C0205R06CF02 KC5025	C113
2979192	A20RA4EML0207M	C133
2979216	A4C0255N00CF02 KC5025	C112
2979217	A4C0255R06CF02 KC5025	C113
2979223	A20RA4EMR0207M	C133
2979224	A25RA4EML0210M	C133
2979225	A25RA4EMR0210M	C133
2979227	A12RA4EMR0207N	C132
2979229	A16RA4EMR0210N	C132
2980526	EP1412SGD KCPK30	T58, T70
2980527	EP1412SGD KC520M	T58, T70
2980530	EP1408SGD KC520M	T58, T70
2980531	EP1408SGD KCPK30	T58, T70
2980568	EP1412SGD KC725M	T58, T70
2981100	A4SCL120113	C127
2981101	A4SCL100113	C127
2981102	A4SCL080113	C127
2981194	A4SCR120113	C127
2981195	A4SCR100113	C127
2981196	A4SCR080113	C127
2981197	A4SCR060113	C127
2981644	EP1408SGD KC725M	T58, T70
2982018	OFKT64AFEN6LB KC725M	S51
2982019	OFKT64AFEN6LB KC725M	S51
2982020	OFKT53AFSN6LB KC725M	S47
2982021	OFKT53AFEN6LB KC725M	S47
2982056	KSCM125R16CAB40U	S109
2982065	OFKT64AFEN6LB KC522M	S51
2982069	OFKT53AFSN6LB KC522M	S47
2982070	OFKT53AFSN6LB KC520M	S47
2982072	OFKT53AFSN6LB KCPK30	S47
2982077	EP1416SGD KC725M	T58, T70
2982084	OFKT53AFEN6LB KC522M	S47
2982086	OFKT53AFEN6LB KCK15	S47
2982087	OFKT53AFEN6LB KCPK30	S47
2982090	EP1416SGD KC520M	T58, T70
2982091	EP1416SGD KCPK30	T58, T70
2982168	A4SCL2020K0113	C128
2982169	A4SCL1616K0113	C128
2982170	A4SCL1212K0113	C128
2982172	A4SCR2020K0113	C128
2982223	A4SCR1616K0113	C128
2982224	A4SCR1010K0113	C128
2983278	EC1408ELD KC522M	T56, T67
2983279	EC1408FLDJ KC410M	T55, T66
2983331	EC1408EGD KC725M	T57, T68
2983890	EC1404EGD KC725M	T57, T68
2983891	EC1431EGD KC725M	T57, T68
2983980	A4G0205M02U02GMN KC5010	C106
2983981	A4G0205M02U02GMN KC5025	C106
2983982	A4G0205M02U02GMP KC5010	C105
2984013	A4G0205M02U02GMP KC5025	C105
2984015	A4G0200M02P02GMP KC5010	C105
2984016	A4G0200M02P02GMP KC5025	C105
2984018	A4G0255M2BU02GMN KC5025	C106
2984020	A4G0255M2BU02GMP KC5025	C105
2984022	A4G0250M2BP02GMP KC5010	C105
2984024	A4R0205M02U00GMN KC5010	C107
2984025	A4R0205M02U00GMN KC5025	C107
2984026	A4R0200M02P00GMP KC5010	C106
2984027	A4R0200M02P00GMP KC5025	C106
2984028	A4G094I2BP05GMN KC5010	C107
2984053	EC1404ELD KC522M	T56, T67
2984054	EC1404FLDJ KC410M	T55, T66
2984056	EC1431ELD KC522M	T56, T67
2984057	EC1431FLDJ KC410M	T55, T66
2984137	EC1412ELD KC522M	T56, T67
2984138	EC1412FLDJ KC410M	T55, T66
2984210	EC1412EGD KC725M	T57, T68
2984359	EC1416ELD KC522M	T56, T67
2984360	EC1416FLDJ KC410M	T55, T66
2984773	EC1416EGD KC725M	T57, T68
2985272	B707A03500FBG KC7315	G110
2985333	B707A04500FBG KC7315	G110
2985334	B707A06500FBG KC7315	G110
2985335	B707A09500FBG KC7315	G111
2985336	B707A14000FBG KC7315	G111
2985682	193.465	S109
2985876	193.462	S109
2987166	MSKNR25CA6	B115
2993398	B707A07800FBG KC7315	G111
3005898	B967A11000 KC7315	G131
3005899	B967A13500 KC7315	G132
3005956	B976A03100 KC7315	G134
3013657	KSEM1880HPGM KC7315	H54
3015439	DFR030204MD KC7140	J97
3015440	DFR040304MD KC7140	J97
3016028	KSEM2305HPGM KC7315	H55
3017334	A4SML2525M0217	C125
3017335	A4SML2525M0214	C125
3017336	A4SML2020K0214	C125
3017337	A4SML2020K0217	C125
3017338	A4SML1616K0214	C125
3017339	A4SMR2525M0217	C124
3017340	A4SMR2525M0214	C124
3017341	A4SMR2020K0214	C124
3017342	A4SMR1616K0214	C124
3017663	KTIP170R3SS18M	H38
3017664	KTIP180R3SS20M	H38
3017665	KTIP190R3SS20M	H38
3017666	KTIP200R3SS25M	H38
3017667	KTIP170R3SCF20M	H40
3017668	KTIP180R3SCF25M	H40
3017669	KTIP190R3SCF25M	H40
3017670	KTIP200R3SCF25M	H40
3017671	KTIP170R5SS18M	H38
3017672	KTIP180R5SS20M	H38
3017673	KTIP190R5SS20M	H38
3017674	KTIP200R5SS25M	H38
3017675	KTIP170R5SCF20M	H40
3017676	KTIP180R5SCF25M	H40
3017677	KTIP190R5SCF25M	H40
3017678	KTIP200R5SCF25M	H40
3018928	KTIP0669R3SS069	H39
3018929	KTIP0709R3SS075	H39
3018930	KTIP0748R3SS075	H39
3018931	KTIP0787R3SS081	H39
3018932	KTIP0669R5SS069	H39
3018933	KTIP0709R5SS075	H39
3018934	KTIP0748R5SS075	H39
3018935	KTIP0787R5SS081	H39
3020201	B707A10600FBG KC7315	G111
3022047	DFR0500R4SSF075	J15
3022048	DFR0531R4SSF075	J15
3022049	DFR0563R4SSF075	J15
3022050	DFR0594R4SSF075	J15
3022051	DFR0625R4SSF075	J15
3022052	DFR0625R4SSF100	J15
3022343	DFR0656R4SSF100	J15
3022344	DFR0688R4SSF100	J15
3022345	DFR0703R4SSF100	J15
3022346	DFR0734R4SSF100	J15
3022347	DFR0750R4SSF100	J15
3022348	DFR0781R4SSF100	J15
3022349	DFR0813R4SSF100	J15
3022350	DFR0844R4SSF100	J15
3022351	DFR0875R4SSF100	J15
3022352	DFR0906R4SSF100	J15
3022353	DFR0938R4SSF100	J15
3022354	DFR0969R4SSF100	J15
3022355	DFR0984R4SSF100	J15
3022356	DFR1000R4SSF100	J15
3022357	DFR1000R4SSF125	J15
3022625	A4M50L0214M	C138
3023165	EP1848EHD KC725M	T84
3023166	EP1848EHD KCPK30	T84
3023574	KSEM2210HPGM KC7315	H55
3024727	B707A10200FBG KC7315	G111
3024745	B966A13100 KC7315	G132
3026450	12MHC030M	G79
3026451	12MHC040M	G79
3026452	12MHC050M	G79
3026643	12MHC060M	G79
3026644	12MHC070M	G79
3026645	12MHC080M	G79
3026646	12MHC090M	G79
3026647	12MHC100M	G79
3026648	20MHC030M	G79
3026649	20MHC040M	G79
3026650	20MHC050M	G79
3026651	20MHC060M	G79
3026652	20MHC070M	G79
3026653	20MHC080M	G79
3026654	20MHC090M	G79
3026655	20MHC100M	G79
3026656	20MHC110M	G79
3026657	20MHC120M	G79
3026658	20MHC130M	G79
3026659	20MHC140M	G79
3026660	20MHC150M	G79
3026661	20MHC160M	G79
3026662	25MHC030M	G79
3026663	25MHC040M	G79
3026664	25MHC050M	G79
3026665	25MHC060M	G79
3026666	25MHC070M	G79
3026667	25MHC080M	G79
3026668	25MHC090M	G79
3026669	25MHC100M	G79
3026670	25MHC120M	G79
3026671	25MHC140M	G79
3026672	25MHC160M	G79
3026675	32MHC060M	G79
3026676	32MHC070M	G79
3026677	32MHC080M	G79
3026678	32MHC090M	G79
3026679	32MHC100M	G79
3026680	32MHC110M	G79
3026681	32MHC120M	G79
3026682	32MHC130M	G79
3026683	32MHC140M	G79
3026684	32MHC150M	G79
3026685	32MHC160M	G79
3027980	KSEM1760HPGM KC7315	H54
3029371	PKG1402	K130

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3029372	PKG1602	K130
3029373	PKG1802	K130
3029375	PKG0011	K130
3030845	TM25D17L26Z2	W10
3030846	TM25D17L36Z2	W10
3030847	TMT25D17L26Z2	W11
3030848	TM25D20L37Z3	W10
3030849	TM25D20L44Z3	W10
3030850	TM25D22L43Z3	W10
3030851	TMT25D22L43Z3	W11
3030852	TM25D22L55Z3	W10
3031703	TM25D30L55Z5	W10
3031704	TMT25D28L43Z4	W11
3031705	TMC25D30L80Z4	W10
3031708	TMT25D067L110Z2	W11
3031712	TMT25D087L170Z3	W11
3031715	TMT25D110L170Z4	W11
3031717	TM25INSERTSCREW	W4–5, W10–13, W17–19, W24–25
3031718	TM25N100ISO KC610M	W14
3031719	TM25N150ISO KC610M	W14
3031720	TM25N200ISO KC610M	W14
3031721	TM25N250ISO KC610M	W14
3031722	TM25N300ISO KC610M	W14
3031733	TM25N20UN KC610M	W14
3031734	TM25N18UN KC610M	W14
3031735	TM25N16UN KC610M	W14
3031736	TM25N14UN KC610M	W14
3031737	TM25N12UN KC610M	W14
3031738	TM25N10UN KC610M	W14
3031739	TM25N9UN KC610M	W14
3031740	TM25N8UN KC610M	W14
3031742	TM25EN14W KC610M	W15
3031743	TM25EN12W KC610M	W15
3031744	TM25EN11W KC610M	W15
3031745	TM25EN14NPT KC610M	W15
3031746	TM25EN115NPT KC610M	W15
3031747	TM25EN14BSPT KC610M	W15
3031748	TM25EN11BSPT KC610M	W15
3031749	TM25N100ISO KC635M	W14
3031750	TM25N150ISO KC635M	W14
3031751	TM25N200ISO KC635M	W14
3031752	TM25N250ISO KC635M	W14
3031753	TM25N300ISO KC635M	W14
3031754	TM25N20UN KC635M	W14
3031756	TM25N16UN KC635M	W14
3031757	TM25N14UN KC635M	W14
3031758	TM25N12UN KC635M	W14
3031759	TM25N10UN KC635M	W14
3031760	TM25N9UN KC635M	W14
3031761	TM25N8UN KC635M	W14
3031763	TM25EN14W KC635M	W15
3031765	TM25EN11W KC635M	W15
3031766	TM25EN14NPT KC635M	W15
3031767	TM25EN115NPT KC635M	W15
3031770	TM25BLANK	W15
3031908	T320NC03750-16R3BX KC7542	M4
3031910	T320NC04375-14R3BX KC7542	M4
3031911	T320NC05000-13R3BX KC7542	M4
3031914	T320M060X100R6HX KC7542	M4
3031915	T320M080X125R6HX KC7542	M4
3031916	T320M100X150R6HX KC7542	M4
3031917	T320M120X175R6HX KC7542	M4
3031919	T320M160X200R6HX KC7542	M4
3032732	EP1412EHD KC520M	T57, T68
3033024	KTIP0669R8SS069	H39
3033025	KTIP0709R8SS075	H39
3033026	KTIP0748R8SS075	H39
3033027	KTIP0787R8SS081	H39
3033723	EP1412EHD KC522M	T57, T68
3033724	EP1412EHD KC725M	T57, T68
3033725	EP1412EHD KCK15	T57, T68
3033726	EP1412EHD KCPK30	T57, T68
3033727	EP1408EHD KC520M	T57, T68
3033728	EP1408EHD KC522M	T57, T68
3033729	EP1408EHD KC725M	T57, T68
3033730	EP1408EHD KCK15	T57, T68
3033731	EP1408EHD KCPK30	T57, T68
3033751	EP1416EHD KC522M	T57, T68
3033752	EP1416EHD KC725M	T57, T68
3033953	EP1416EHD KCK15	T57, T68
3033954	EP1416EHD KCPK30	T57, T68
3033966	B707A06800FBG KC7315	G110
3039409	KSEM3400PCM KC7135	H70, H111
3039410	KSEM3600PCM KC7135	H70, H111
3041312	B707A06100FBG KC7315	G110
3043944	KSEM3500PCM KC7135	H70, H111
3045090	KSSP200R3SD43L200HC	T120
3045800	S422CG	T53, V54, V70
3045801	S467	T7, U27, U37, V54, V58
3047641	T320MF140X150R6HX KC7542	M4
3048604	KLS20C	T78
3048803	KSEM3300PCM KC7135	H70, H111
3050716	DFR020204MD KC7140	J97
3050792	HPFSS250S3050 KC635M	P108
3050793	HPFSS125S5025 KC635M	P109
3050794	HPFSS188S5031 KC635M	P109
3050799	HPFT375S6113 KC635M	P110
3051244	EP1420EHD KC522M	T57, T68
3051245	EP1420EHD KC725M	T57, T68
3051246	EP1420EHD KCPK30	T57, T68
3051247	EP1431EHD KC522M	T57, T68
3051248	EP1431EHD KC725M	T57, T68
3051249	EP1431EHD KCPK30	T57, T68
3051250	EP1440EHD KC522M	T57, T68
3051251	EP1440EHD KC725M	T57, T68
3051252	EP1440EHD KCPK30	T57, T68
3051549	EP1424EHD KC522M	T57, T68
3051550	EP1424EHD KC725M	T57, T68
3051551	EP1424EHD KCPK30	T57, T68
3051552	EP1404EHD KC522M	T57, T68
3051623	A4M50L2B14M	C138
3051624	A4M50R0214M	C138
3051629	A4M50L0212A060084	C140
3051631	A4M50L0212A120254	C140
3051632	A4M50L0212A250999	C140
3051663	A4M50L0212B036046	C142
3051664	A4M50L0212B042054	C142
3051665	A4M50L0212B050064	C142
3051666	A4M50L0212B060084	C142
3051667	A4M50L0212B080124	C142
3051668	A4M50L0212B120254	C142
3051670	A4M50R0212A036046	C139
3051671	A4M50R0212A042054	C139
3051672	A4M50R0212A050064	C139
3051673	A4M50R0212A060084	C139
3051674	A4M50R0212A080124	C139
3051675	A4M50R0212A120254	C139
3051676	A4M50R0212A250999	C139
3051677	A4M50R0212B036046	C141
3051678	A4M50R0212B042054	C141
3051679	A4M50R0212B050064	C141
3051680	A4M50R0212B060084	C141
3051681	A4M50R0212B080124	C141
3051682	A4M50R0212B120254	C141
3051683	A4M50R0212B250999	C141
3051863	EP1404EHD KC725M	T57, T68
3051864	EP1404EHD KCK15	T57, T68
3051865	EP1404EHD KCPK30	T57, T68
3051866	EP1404EHD KC520M	T57, T68
3053564	SDET433PDENGDZ KCPK30	V143
3053565	SDET433PDSNGDZ KCPK30	V143
3054849	KSSZR200SD430C3A04	V141
3055223	B707A13500FBG KC7315	G111
3057117	B978A03700 KC7315	G139
3057121	B978A07400 KC7315	G140
3057122	B978A09300 KC7315	G140
3058199	KSEM1008HPG KC7315	H55
3058984	B707A04400FBG KC7315	G110
3064493	KSSZR300SD430C4A05	V141
3064549	KSEM2470HPGM KC7315	H55
3064601	KSZR125SD430C4A02	V140
3064602	KSSZR300SD430M4A06	V141
3064755	KSSZR200SD430M3A05	V141
3064902	KSSZR300SD430F4A07	V141
3066053	A4G0605M06U04B KCK20	C108
3066133	SDET433PDENGDZ KC725M	V143
3066281	SDET433PDSNGDZ KC725M	V143
3066375	SDET433PDSNGDZ KC522M	V143
3066674	KSSZR400SD430F5A09	V141
3077140	SF150FBH01660	K129
3077141	SF100FBH01660	K129
3093561	HNGJ535ANENLD KC522M	S18, S21
3093600	KSOM125OF5345F5	S44
3093623	KSOM150OF5345F3	S44
3093625	KSOM125OF5345M3	S44
3093627	KSOM150OF5345M3	S44
3093632	KSOM500OF5345F6	S45
3093634	KSOM200OF5345M3	S45
3093635	KSOM250OF5345M3	S45
3093636	KSOM300OF5345M4	S45
3093637	KSOM400OF5345M5	S45
3093638	KSOM500OF5345M6	S45
3093640	KSOM250OF6445F3	S50
3093641	KSOM300OF6445F4	S50
3093642	KSOM400OF6445F5	S50
3093643	KSOM500OF6445F6	S50
3093644	KSOM600OF6445F8	S50
3093645	KSOM250OF6445M3	S50
3093646	KSOM300OF6445M4	S50
3093647	KSOM400OF6445M5	S50
3093648	KSOM500OF6445M6	S50
3093649	KSOM600OF6445M8	S50
3093719	HNGJ535ANSNGD KCPK30	S18, S22
3094010	843.006.000	K124–126, K140
3094035	880.252.200	K137–139
3097294	KSEM1660HPGM KC7315	H54
3097295	KSEM1860HPGM KC7315	H54
3098071	B707A04200FBG KC7315	G110
3102669	B977A08020 KC7315	G136
3106096	SDPT433PDENHPZ KCPK30	V143
3106097	SDPT433PDSNHPZ KCPK30	V143
3106098	SDPT433PDENHPZ KC725M	V143
3106099	SDPT433PDSNHPZ KC725M	V143
3107215	KISZR150SD430C5A03	V140
3107216	KISZR200SD430C6A04	V140
3110522	B976A03200 KC7315	G134
3110544	B976A03600 KC7315	G134
3110545	B976A07200 KC7315	G136
3114313	KTIP170R8SS18M	H38
3114314	KTIP180R8SS20M	H38
3114315	KTIP190R8SS20M	H38
3114316	KTIP200R8SS25M	H38
3114317	KTIP170R8SCF20M	H40
3114318	KTIP180R8SCF25M	H40
3114319	KTIP190R8SCF25M	H40
3114320	KTIP200R8SCF25M	H40
3114636	RIQ09E1312 KC6305	K58
3117503	B967A09500 KC7315	G131
3119977	B976A10300 KC7315	G136
3120318	KSEM2170HPGM KC7315	H55
3121225	193.492	S4–5, S8–10, S14, S17, S20, S56, S58, V51–54, V62
3121287	B976A06700 KC7315	G135
3124549	193.491	J25, J27, J29, J31, J33, J35, J37, J39
3124699	EP1864S KC725M	T85
3127186	NAS3L4 KC5025	D12
3133459	MS1294CG	V62
3135660	B256A12500 KC7315	G58
3136510	EP1840EHD KC725M	T84
3138954	SNXF433AMSN KY3500	S90
3138955	SNXF43ZNAMSN KY3500	S90
3138957	S2172CG	V54, V58
3139149	843.009.000	K124–126, K140
3176219	KM25LSSR2230	D77
3176220	KM25LSSL2230	D77
3176596	TRM50R0640M	E71
3176598	TRM50L0640M	E71
3176599	TRM50L0432M	E71
3176600	TRM50R0432M	E71
3176601	TRM50R0920M	E71
3176602	TRM50L0920M	E71
3176604	TRM50R0940M	E71
3176605	TRM50R0620M	E71
3176606	TRM50L0620M	E71
3176688	MS2173	B217, B220, B222–223
3176689	MS2175	B217–223, B245, B276–278
3180571	B977A14100 KC7315	G137
3273589	EC1402FLDJ KC410M	T55, T66
3273590	EC1440FLDJ KC410M	T55, T66
3287987	CSWM 035 040	B217, B220, B222–223
3287988	CSWM 040 050	B217–223, B245, B276–278
3287989	CSWM 060 050	B72–74, B94, B115–119, B140–142, B174–176, B186–187, B198, B217, B220, B236–237, B245, B249–251, B254–255, B276–279, B394–398, C196, D41
3287990	CSWM 080 050	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
3287991	CSWM 100 080	B74, B115, B119, C196, D41
3292774	EC1808EJ KC422M	T82
3292775	EC1824EJ KC422M	T82
3300212	B707A05800FBG KC7315	G110
3322050	B707A10500FBG KC7315	G111
3322370	CFM0402R45RHP KCU40	H43
3324493	KTIP170R3BF17M	I11
3324494	KTIP170R3BF18M	I11
3324495	KTIP180R3BF18M	I11
3324496	KTIP170R4BF18M	I12
3324497	KTIP180R4BF18M	I12
3324498	KTIP170R5BF18M	I13
3324499	KTIP180R5BF18M	I13
3324721	A4G0305M03U02B KCK20	C108
3324722	A4G0405M04U04B KCK20	C108
3324723	A4G0505M05U04B KCK20	C108
3324724	A4G0805M08U08B KCK20	C108
3324725	A4G1005M10U08B KCK20	C108
3324726	EC1424ELDJ KC422M	T56, T67
3324993	EC1404ELDJ KC422M	T56, T67
3324994	EC1408ELDJ KC422M	T56, T67
3326217	RCGT86SGF KC522M	V92
3326850	KSHR200HN5345C3	S20
3326851	KSHR200HN5345M3	S20
3326852	KSHR250HN5345C3	S20
3326923	KSHR250HN5345M3	S20
3326924	KSHR300HN5345C4	S20
3326925	KSHR300HN5345M4	S20
3326926	KSHR400HN5345C5	S20
3326927	KSHR400HN5345M5	S20
3326928	KSHR500HN5345C6	S20
3326929	KSHR500HN5345M6	S20
3326930	KSHR600HN5345C8	S20
3326931	KSHR600HN5345M8	S20
3330191	CTGPR12CA3	B187, B398
3330195	MCFNR20CA4	B72
3330196	MCLNL20CA4	B74
3330197	MCLNR20CA4	B74
3330199	MDJNR20CA4	B94
3330200	MDQNL20CA4	B95
3330201	MDQNR20CA4	B95
3330202	MSKNL20CA5	B115
3330203	MSRNL20CA5	B116
3330206	MSSNR20CA5	B117
3330207	MTFNL20CA4	B140
3330208	MTFNR20CA4	B140
3330209	MTGNL20CA4	B141
3330222	MCKNR16CA4	B73
3330273	MCLNL16CA4	B74
3330274	MDJNL16CA4	B94
3330275	MDJNR16CA4	B94
3330276	MDQNL16CA4	B95
3330277	MDQNR16CA4	B95
3330279	MSRNL16CA4	B116
3330281	MSSNR16CA4	B117
3330283	MSYNR16CA4	B119
3330285	MTGNR16CA3	B141
3330528	100G10RP90SP10	U25
3330531	125H11RP90SP10	U25
3330952	HNGJ535ANENLD KCK15	S18, S21
3330995	L08RSCFPL2	B213
3330999	L06MSCFPR2	B213
3331000	L08RSCFPR2	B213
3331001	L10RSCFPR2	B213
3331002	L12RSCFPR3	B213

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3331033	L16SSCFPR3	B213
3331034	L08RSCLPL2	B215
3331035	L06MSCLPL2	B215
3331036	L05MSCLPL2	B215
3331038	L12RSCLPL3	B215
3331039	L10RSCLPL3	B215
3331040	L16SSCLPL3	B215
3331041	L08RSCLPR2	B215
3331042	L05MSCLPR2	B215
3331043	L06MSCLPR2	B215
3331044	L10RSCLPR2	B215
3331045	L10RSCLPR3	B215
3331046	L12RSCLPR3	B215
3331047	L16SSCLPR3	B215
3331048	L06MSDUPL2	B235
3331049	L08RSDUPL2	B235
3331052	L06MSDUPR2	B235
3331073	L08RSDUPR2	B235
3331074	L10RSDUPR2	B235
3331075	L12RSDUPR3	B235
3331079	L08RSTFPR2	B273
3331080	L10RSTFPR2	B273
3331081	L06MSTFPR2	B273
3331082	L12RSTFPR3	B273
3331084	L08RNEL2	D37
3331088	L06MNER1S	D37
3331089	L08RNER1S	D37
3331090	L05MNER1S	D37
3331091	L08RNER2	D37
3331092	L12RNER2	D37
3331103	L10RNER2	D37
3331105	L16SNER3	D37
3331132	CSRPR10CA3	B175, B395
3331143	CSSPL10CA3	B176, B396
3331145	MCFNL10CA3	B72
3331146	MCFNR10CA3	B72
3331149	MSTNR10CA3	B118
3331150	MSYNL10CA3	B119
3331173	HNGJ535ANSNGD KCK15	S18, S22
3331174	HNGJ535ANENLD KC520M	S18, S21
3331175	HNGJ535ANENLD KC725M	S18, S21
3331176	HNGJ535ANSNGD KC725M	S18, S22
3331178	HNGJ535ANENLD KCPK30	S18, S21
3331465	HPHVT500S4063 KC643M	P24
3331466	HPHVT500S4063CH KC643M	P24
3331467	HPHVT500S4125 KC643M	P24
3331468	HPHVT500S4125CH KC643M	P24
3331469	HPHVT625S4075 KC643M	P24
3331470	HPHVT625S4075CH KC643M	P24
3331471	HPHVT625S4125 KC643M	P24
3331472	HPHVT625S4125CH KC643M	P24
3331473	HPHVT750S4088 KC643M	P24
3331474	HPHVT750S4088CH KC643M	P24
3331475	HPHVT750S4150 KC643M	P24
3331476	HPHVT750S4150CH KC643M	P24
3331477	HPHVT1000S4150 KC643M	P24
3331478	HPHVT1000S4150CH KC643M	P24
3331481	HPRST250S4038 KC643M	P92
3331482	HPRST250S4075 KC643M	P92
3331483	HPRST375S4050 KC643M	P92
3331484	HPRST375S4088 KC643M	P92
3331485	HPRST500S4063 KC643M	P92
3331486	HPRST500S4125 KC643M	P92
3331487	HPRST625S4075 KC643M	P92
3331488	HPRST625S4125 KC643M	P92
3331489	HPRST625S6125 KC643M	P92
3331490	HPRST750S4088 KC643M	P92
3331491	HPRST750S4150 KC643M	P92
3331492	HPRST750S6150 KC643M	P92
3331493	HPRST1000S4150 KC643M	P92
3331494	HPRST1000S6150 KC643M	P92
3332362	MCLNL25CA6	B74
3332803	MCLNR25CA4	B74
3332804	MCLNR25CA5	B74
3332805	MCLNR25CA6	B74
3343592	KSEM2310HPGM KC7315	H55
3346236	MCFNR12CA4	B72
3346237	MCKNL12CA4	B73
3346238	MCKNR12CA4	B73
3346240	MDJNL12CA3	B94
3346241	MDJNR12CA3	B94
3346242	MSKNL12CA4	B115
3346273	MSYNL12CA4	B119
3346274	MSYNR12CA4	B119
3346275	MTGNL12CA3	B141
3349309	HNEN0905ANSN KD200	S79
3352074	881.252.720	K137–138
3352573	KMDA0250J6ANA KC639M	P142
3352574	KMDA0312J6ANA KC639M	P142
3352575	KMDA0375J6ANA KC639M	P142
3352576	KMDA0500J6ANA KC639M	P142
3352577	KMDA0625J6ANA KC639M	P142
3352578	KMDA0750J6ANA KC639M	P142
3352730	KHDA0250J6ANA KC639M	P143
3352731	KHDA0312J6ANA KC639M	P143
3352732	KHDA0375J6ANA KC639M	P143
3352773	KHDA0500J6ANA KC639M	P143
3352774	KHDA0625J6ANA KC639M	P143
3352775	KHDA0750J6ANA KC639M	P143
3353405	KSEM2973HPGM KC7315	H55
3362163	881.252.550	K137–138
3367371	B531A03200SPF KDF400	G100
3367372	B531A05100SPF KDF400	G100
3367373	B531A06500SPF KDF400	G100
3367382	B532A03200SPF KDF400	G100
3367383	B532A05100SPF KDF400	G100
3367384	B532A06500SPF KDF400	G100
3367385	B531A06000SPF KDF400	G100
3367386	B532A06000SPF KDF400	G100
3379064	EP1864EHD KC725M	T84
3379065	EP1864EHD KCPK30	T84
3380488	KSEM1250HPLM KC7320	H62
3380490	KSEM0500HPL KC7320	H62
3380491	KSEM1280HPLM KC7320	H62
3380492	KSEM0509HPL KC7320	H62
3381103	KSEM1300HPLM KC7320	H62
3381104	KSEM1350HPLM KC7320	H62
3381105	KSEM1360HPLM KC7320	H62
3381106	KSEM1380HPLM KC7320	H62
3381107	KSEM0547HPL KC7320	H62
3381108	KSEM1400HPLM KC7320	H62
3381109	KSEM1410HPLM KC7320	H62
3381110	KSEM1415HPLM KC7320	H62
3381111	KSEM1420HPLM KC7320	H62
3381112	KSEM0563HPL KC7320	H62
3381113	KSEM1450HPLM KC7320	H62
3381114	KSEM1460HPLM KC7320	H62
3381115	KSEM0578HPL KC7320	H62
3381116	KSEM1480HPLM KC7320	H62
3381117	KSEM1500HPLM KC7320	H62
3381118	KSEM0594HPL KC7320	H62
3381119	KSEM0609HPL KC7320	H62
3381120	KSEM1550HPLM KC7320	H62
3381121	KSEM1560HPLM KC7320	H62
3381122	KSEM0625HPL KC7320	H62
3381123	KSEM1600HPLM KC7320	H62
3381124	KSEM0634HPL KC7320	H62
3381125	KSEM1610HPLM KC7320	H62
3381126	KSEM1615HPLM KC7320	H62
3381127	KSEM1620HPLM KC7320	H62
3381128	KSEM0641HPL KC7320	H62
3381129	KSEM1650HPLM KC7320	H62
3381130	KSEM0656HPL KC7320	H62
3381131	KSEM1700HPLM KC7320	H62
3381132	KSEM0672HPL KC7320	H62
3381133	KSEM0688HPL KC7320	H62
3381134	KSEM1750HPLM KC7320	H62
3381135	KSEM1775HPLM KC7320	H62
3381136	KSEM1780HPLM KC7320	H62
3381137	KSEM0703HPL KC7320	H62
3381138	KSEM1790HPLM KC7320	H62
3381139	KSEM1800HPLM KC7320	H62
3381140	KSEM0719HPL KC7320	H62
3381142	KSEM1850HPLM KC7320	H62
3381143	KSEM1860HPLM KC7320	H62
3381144	KSEM0734HPL KC7320	H62
3381145	KSEM1890HPLM KC7320	H62
3381146	KSEM1900HPLM KC7320	H62
3381147	KSEM0750HPL KC7320	H62
3381148	KSEM1920HPLM KC7320	H62
3381149	KSEM0757HPL KC7320	H62
3381150	KSEM0758HPL KC7320	H62
3381151	KSEM0759HPL KC7320	H62
3381152	KSEM1935HPLM KC7320	H62
3381153	KSEM1936HPLM KC7320	H62
3381154	KSEM0766HPL KC7320	H62
3381155	KSEM1950HPLM KC7320	H62
3381156	KSEM0781HPL KC7320	H62
3381157	KSEM2000HPLM KC7320	H62
3381158	KSEM2010HPLM KC7320	H62
3381159	KSEM0797HPL KC7320	H62
3381160	KSEM2035HPLM KC7320	H62
3381161	KSEM2050HPLM KC7320	H62
3381162	KSEM0813HPL KC7320	H62
3381163	KSEM2100HPLM KC7320	H62
3381164	KSEM2115HPLM KC7320	H62
3381165	KSEM2133HPLM KC7320	H62
3381166	KSEM2810HPLM KC7320	H63
3381167	KSEM0844HPL KC7320	H62
3381168	KSEM2850HPLM KC7320	H63
3381169	KSEM2150HPLM KC7320	H62
3381170	KSEM1125HPL KC7320	H63
3381171	KSEM0859HPL KC7320	H62
3381172	KSEM2900HPLM KC7320	H63
3381173	KSEM2200HPLM KC7320	H62
3381174	KSEM1156HPL KC7320	H63
3381175	KSEM0875HPL KC7320	H62
3381176	KSEM2950HPLM KC7320	H63
3381177	KSEM0884HPL KC7320	H62
3381178	KSEM1172HPL KC7320	H63
3381179	KSEM2250HPLM KC7320	H62
3381180	KSEM3000HPLM KC7320	H63
3381181	KSEM2277HPLM KC7320	H62
3381182	KSEM1188HPL KC7320	H63
3381183	KSEM2300HPLM KC7320	H62
3381184	KSEM3050HPLM KC7320	H63
3381185	KSEM0922HPL KC7320	H62
3381186	KSEM3100HPLM KC7320	H63
3381187	KSEM2350HPLM KC7320	H62
3381188	KSEM3150HPLM KC7320	H63
3381189	KSEM0938HPL KC7320	H62
3381190	KSEM1250HPL KC7320	H63
3381191	KSEM2400HPLM KC7320	H62
3381192	KSEM3200HPLM KC7320	H63
3381193	KSEM2450HPLM KC7320	H62
3381194	KSEM3300HPLM KC7320	H63
3381195	KSEM0969HPL KC7320	H62
3381196	KSEM1375HPL KC7320	H63
3381197	KSEM1406HPL KC7320	H63
3381198	KSEM1500HPL KC7320	H63
3381199	KSEM1514HPL KC7320	H63
3381615	KSEM3400HPLM KC7320	H63
3381616	KSEM2500HPLM KC7320	H62
3381617	KSEM3500HPLM KC7320	H63
3381618	KSEM2507HPLM KC7320	H62
3381619	KSEM3600HPLM KC7320	H63
3381620	KSEM1000HPL KC7320	H62
3381621	KSEM3700HPLM KC7320	H63
3381622	KSEM2550HPLM KC7320	H62
3381623	KSEM3750HPLM KC7320	H63
3381624	KSEM1008HPL KC7320	H62
3381625	KSEM3800HPLM KC7320	H63
3381626	KSEM2565HPLM KC7320	H63
3381627	KSEM3900HPLM KC7320	H63
3381628	KSEM1011HPL KC7320	H63
3381630	KSEM2600HPLM KC7320	H63
3381631	KSEM4000HPLM KC7320	H63
3381632	KSEM1016HPL KC7320	H63
3381633	KSEM1031HPL KC7320	H63
3381634	KSEM0516HPL KC7320	H62
3381635	KSEM2650HPLM KC7320	H63
3381636	KSEM1047HPL KC7320	H63
3381637	KSEM1094HPL KC7320	H63
3381638	KSEM2670HPLM KC7320	H63
3381639	KSEM1109HPL KC7320	H63
3381640	KSEM2700HPLM KC7320	H63
3381641	KSEM1281HPL KC7320	H63
3381642	KSEM2750HPLM KC7320	H63
3381643	KSEM1313HPL KC7320	H63
3381644	KSEM2800HPLM KC7320	H63
3382970	B707A12100FBG KC7315	G111
3383028	CNGA432S0420MT KB1345	B310
3383030	CNGA432S0820MT KB1345	B310
3383031	DNGA432S0420MT KB1345	B310
3383294	CCGW3252EC KB1345	B311
3383296	TPGW2151EC KB1345	B312
3383298	DCGW3251S0415MT KB1345	B312
3383314	DCGW3252S0415MT KB1345	B312
3383760	B707A09800FBG KC7315	G111
3387723	RCGT64SGF KC725M	V89
3387724	RCGT86SGF KC725M	V92
3387910	NR2M050L KC5010	C172
3387928	NR3M150L KC5010	C172
3387935	NR2M050R KC5010	C172
3387936	NR2M075R KC5010	C172
3387937	NR2M100R KC5010	C172
3388407	NR2M100L KC5025	C172
3388409	NR2M150L KC5025	C172
3388411	NR3M100L KC5025	C172
3388453	NR3M150L KC5025	C172
3388455	NR3M200L KC5025	C172
3388460	NR2M050R KC5025	C172
3388462	NR2M100R KC5025	C172
3388463	NR2M125R KC5025	C172
3388464	NR2M150R KC5025	C172
3388465	NR2M175R KC5025	C172
3388466	NR3M100R KC5025	C172
3388468	NR3M150R KC5025	C172
3388470	NR3M200R KC5025	C172
3396984	MS2085	T120, V81–83
3397222	NGD2M200LK KC5010	C165
3397223	NGD2M250LK KC5010	C165
3397226	NGD3M300LK KC5010	C165
3397243	NGD2M150RK KC5010	C165
3397244	NGD2M200RK KC5010	C165
3397246	NGD3M200RK KC5010	C165
3397247	NGD3M250RK KC5010	C165
3397248	NGD3M300RK KC5010	C165
3397250	NGD3M400RK KC5010	C165
3397259	NGD2M150LK KC5025	C165
3397273	NGD2M200LK KC5025	C165
3397274	NGD2M250LK KC5025	C165
3397275	NGD3M200LK KC5025	C165
3397276	NGD3M250LK KC5025	C165
3397277	NGD3M300LK KC5025	C165
3397279	NGD3M350LK KC5025	C165
3397280	NGD3M400LK KC5025	C165
3397286	NGD2M150RK KC5025	C165
3397287	NGD2M200RK KC5025	C165
3397288	NGD2M250RK KC5025	C165
3397289	NGD3M200RK KC5025	C165
3397290	NGD3M250RK KC5025	C165
3397291	NGD3M300RK KC5025	C165
3397293	NGD3M400RK KC5025	C165
3397369	NG2M050LK KC5010	C163
3397370	NG2M050RK KC5010	C162
3397613	NF3M200LK KC5025	C173
3397614	NF3M300LK KC5025	C173
3397615	NFD3M300LK KC5025	C174
3397616	NF3M200RK KC5025	C173
3397617	NF3M300RK KC5025	C173
3397618	NFD3M300RK KC5025	C174
3399619	KSEM3700PCM KC7135	H70, H111
3400552	MS2197	V139–141
3400611	MS2191C00	T63, T65, V139–140, V142
3400612	MS2191C06	T63, T65, V139–140, V142
3400613	MS2191C08	T63, T65, V139–142
3400616	MS2191C12	T63, T65, V139–142
3400617	MS2191C14	T63, T65, V139–140, V142
3400618	MS2191C16	T63–65, V139–140, V142
3400619	MS2191C18	T63, T65, V139–140, V142
3400620	MS2191C20	T63–65, V139–140, V142
3400879	12748500500	S83
3403362	CNMG431UP KC5010	B54
3403423	CNMG432UP KC5010	B54
3403424	CNMG433UP KC5010	B54
3403430	DNMG432UP KC5010	B84
3403433	DNMG442UP KC5010	B84
3403435	SNMG432UP KC5010	B106
3403444	VNMG331UP KC5010	B148
3403445	VNMG332UP KC5010	B148
3403448	WNMG432UP KC5010	B162

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3403449	WNMG433UP KC5010	B162
3448592	KSSZR250SD430C3A05	V141
3448913	KSSZR250SD430M3A06	V141
3448914	KSSZR400SD430C5A07	V141
3448915	KSSZR400SD430M5A08	V141
3448916	KSSZR400SD430C6A07	V141
3448917	KSSZR400SD430M6A08	V141
3448918	KSSZR400SD430F6A09	V141
3448920	KSSZR500SD430M6A09	V141
3449167	KTSZR125SD430CM16A02	V139
3449168	KTSZR150SD430CM16A03	V139
3449169	KTSZR200SD430CM16A04	V139
3450355	MS1234CG	V62
3480435	B977A03250 KC7315	G134
3482532	CCMT3252FP KCU10	B190
3482959	T331NC2500-20R3BX KC7542	M44
3482960	T331NF2500-28R3BX KC7542	M44
3482961	T331NC3125-18R3BX KC7542	M44
3482962	T331NC3750-16R3BX KC7542	M44
3483053	T331NC4375-14R3BX KC7542	M44
3483054	T331NC5000-13R3BX KC7542	M44
3483057	T331M060X100R6HX KC7542	M45
3483058	T331M080X125R6HX KC7542	M45
3483059	T331M100X150R6HX KC7542	M45
3483061	T331M120X175R6HX KC7542	M45
3483062	T331MF120X150R6HX KC7542	M45
3483073	T331M140X200R6HX KC7542	M45
3483074	T331MF140X150R6HX KC7542	M45
3483075	T331M160X200R6HX KC7542	M45
3491692	B978A13100 KC7315	G140
3492010	MCC080001	V88, V91
3492053	S2192C	T17
3494648	KSHR800HN5345C10	S20
3494649	KSHR1000HN5345C10	S20
3494650	KSHR1200HN5345C10	S20
3503895	EC1864EJ KC422M	T82
3505052	B707A03175FBG KC7315	G110
3505133	B707A03970FBG KC7315	G110
3505134	B707A04763FBG KC7315	G110
3505135	B707A06350FBG KC7315	G110
3505136	B707A07145FBG KC7315	G111
3505137	B707A07938FBG KC7315	G111
3505138	B707A08334FBG KC7315	G111
3505139	B707A09129FBG KC7315	G111
3505140	B707A09525FBG KC7315	G111
3505141	B707A10320FBG KC7315	G111
3505142	B707A11111FBG KC7315	G111
3505143	B707A11509FBG KC7315	G111
3505144	B707A11908FBG KC7315	G111
3505145	B707A14288FBG KC7315	G111
3505146	B707A15875FBG KC7315	G112
3505147	B707A17463FBG KC7315	G112
3505148	B707A19050FBG KC7315	G112
3505149	B707A15500FBG KC7315	G112
3505150	B707A16500FBG KC7315	G112
3505151	B707A17500FBG KC7315	G112
3505152	B707A18500FBG KC7315	G112
3505952	B966A20000 KC7315	G132
3519355	B707A10800FBG KC7315	G111
3521303	KSEM2330HPGM KC7315	H55
3526417	KSEM1935HPGM KC7315	H54
3528124	B976A03180 KC7315	G134
3528125	B976A03500 KC7315	G134
3528126	B976A04620 KC7315	G135
3528127	B976A05250 KC7315	G135
3528128	B976A06530 KC7315	G135
3528129	B976A06750 KC7315	G135
3528131	B976A08430 KC7315	G136
3528132	B976A09750 KC7315	G136
3547022	XNGJ535ANSNGD3W KCK15	S21
3547033	XNGJ535ANSNGD3W KC725M	S21
3547035	XNGJ535ANSNGD3W KCPK30	S21
3553429	KGMSR2525M65	C144
3553430	KGMSL2525M65	C144
3553431	KGMSR3232P65	C144
3553432	KGMSL3232P65	C144
3553453	KGMER2525M65	C145
3553454	KGMEL2525M65	C145
3553455	KGMER3232P65	C145
3553456	KGMEL3232P65	C145
3553503	B976A07600 KC7315	G136
3554366	CV40BKR32157	K91
3554367	CV40BKR50236	K91
3554368	CV50BKR32157	K91
3554369	CV50BKR50157	K91
3554370	CV50BKR63236	K91
3554371	CV50BKR80275	K91
3554372	BT40BKR32030M	K91
3554373	BT40BKR50050M	K91
3554374	BT50BKR32040M	K91
3554375	BT50BKR50040M	K91
3554376	BT50BKR63060M	K91
3554377	BT50BKR80060M	K91
3556330	HNGJ535ANSNHD KCK15	S19, S22
3556331	HNGJ535ANSNHD KC725M	S19, S22
3556332	HNGJ535ANSNHD KCPK30	S19, S22
3556346	MB24RBHT06F	K124
3556347	MB30RBHT06F	K124
3556348	MB40RBHT09F	K124
3556349	MB50RBHT09F	K124
3556350	MB66RBHT12F	K124
3556352	MB66RBHT12LF	K124
3556374	HNGJ53511ANSNHD KC725M	S19, S22
3556375	HNGJ53511ANSNHD KCPK30	S19, S22
3556393	MB87RBHT12F	K124
3556394	MB87RBHT16LF	K124
3556395	MB115RBHT12F	K124
3556396	MB115RBHT16LF	K124
3556397	MB24RBHT06K	K125
3556398	MB30RBHT06K	K125
3556399	MB40RBHT09K	K125
3556400	MB50RBHT09K	K125
3556401	MB66RBHT12K	K125
3556402	MB66RBHT12LK	K125
3556403	MB87RBHT12K	K125
3556404	MB87RBHT16LK	K125
3556405	MB115RBHT16LK	K125
3556992	KGMSR1665N	C143
3557103	KGMSL1665N	C143
3557104	KGMSR2065N	C143
3557105	KGMSL2065N	C143
3557106	KGMSR2465N	C143
3557107	KGMSL2465N	C143
3557108	KGMER1665N	C145
3557109	KGMEL1665N	C145
3557110	KGMER2065N	C145
3557111	KGMEL2065N	C145
3557113	KGMEL2465N	C145
3557114	A4M65R0620M	C138
3557115	A4M65L0620M	C138
3557116	A4M65R0626M	C138
3557117	A4M65L0626M	C138
3557119	A4M65L0820M	C138
3557120	A4M65R0826M	C138
3557121	A4M65L0826M	C138
3557123	A4M65L1020M	C138
3557124	A4M65R1026M	C138
3557125	A4M65L1026M	C138
3557131	A4M65R0624A070-112	C139
3557132	A4M65L0624A070-112	C140
3557163	A4M65R0624A100-212	C139
3557164	A4M65L0624A100-212	C140
3557165	A4M65R0624A200-999	C139
3557166	A4M65L0624A200-999	C140
3557167	A4M65R0824A090-200	C139
3557169	A4M65R0824A184-999	C139
3557173	A4M65R1024A200-999	C139
3557174	A4M65L1024A200-999	C140
3557175	A4M65R0624B070-112	C141
3557176	A4M65L0624B070-112	C142
3557177	A4M65R0624B100-212	C141
3557178	A4M65L0624B100-212	C142
3557179	A4M65R0624B200-999	C141
3557180	A4M65L0624B200-999	C142
3557181	A4M65R0824B090-200	C141
3557182	A4M65L0824B090-200	C142
3557193	A4M65R0824B184-999	C141
3557194	A4M65L0824B184-999	C142
3557195	A4M65R1024B100-220	C141
3557197	A4M65R1024B200-999	C141
3557198	A4M65L1024B200-999	C142
3557310	12147629800	K116–117
3559794	B967A14500 KC7315	G132
3560480	SDCT4316ENLD2 KC725M	T115, T122, U38
3560482	SDET4316SNGB2 KCPK30	T115, T122, U39
3563231	B707A12700FBG KC7315	G111
3575847	193.531	S24
3577119	KTMS21S25SD06H	U3
3577121	KTMS25S25SD06H	U3
3577133	KTMS32S32SD08H	U3
3577135	KTMS40S32SD12H	U3
3577137	KTMS50S32SD12H	U3
3579858	KSEM2070HPGM KC7315	H54
3580522	UCDE250J5ARA KC643M	P32
3580763	UCDE375J5ARA KC643M	P32
3580764	UCDE500K5ARB KC643M	P32
3580765	UCDE625K5ARB KC643M	P32
3580766	UCDE750K5ARB KC643M	P32
3580767	UCDE1000K5ARB KC643M	P32
3580769	UCDE500K5BS KC643M	P30
3580770	UCDE500K5BRA KC643M	P30
3580771	UCDE500K5BRB KC643M	P30
3580772	UCDE500K5BRF KC643M	P30
3580783	UCDE625K5BS KC643M	P30
3580784	UCDE625K5BRB KC643M	P30
3580785	UCDE750K5BS KC643M	P31
3580786	UCDE750K5BRB KC643M	P30
3580787	UCDE750K5BRF KC643M	P31
3580788	UCDE1000K5BS KC643M	P31
3580789	UCDE1000K5BRB KC643M	P31
3580790	UCDE1000K5BRF KC643M	P31
3580791	UDDE500J5BS KC643M	P33
3580792	UDDE500J5BRA KC643M	P33
3580803	UDDE500J5BRB KC643M	P33
3580804	UDDE500J5BRF KC643M	P33
3580805	UDDE625J5BS KC643M	P33
3580806	UDDE625J5BRB KC643M	P33
3580807	UDDE750J5BS KC643M	P33
3580808	UDDE750J5BRB KC643M	P33
3580809	UDDE750J5BRF KC643M	P33
3580810	UDDE1000J5BS KC643M	P33
3580811	UDDE1000J5BRB KC643M	P33
3580812	UDDE1000J5BRF KC643M	P33
3580813	UDDE500K5BS KC643M	P33
3580814	UDDE500K5BRA KC643M	P33
3580815	UDDE500K5BRB KC643M	P33
3580816	UDDE500K5BRF KC643M	P33
3580817	UDDE625K5BS KC643M	P33
3580818	UDDE625K5BRB KC643M	P33
3580819	UDDE750K5BS KC643M	P33
3580820	UDDE750K5BRB KC643M	P33
3580821	UDDE750K5BRF KC643M	P33
3580822	UDDE1000K5BS KC643M	P33
3580833	UDDE1000K5BRB KC643M	P33
3580834	UDDE1000K5BRF KC643M	P33
3580836	UCDE188J5BS KC643M	P30
3580837	UCDE188J5BRA KC643M	P30
3580838	UCDE188J5BRB KC643M	P30
3580839	UCDE250J5BS KC643M	P30
3580840	UCDE250J5BRA KC643M	P30
3580841	UCDE250J5BRB KC643M	P30
3580842	UCDE312J5BS KC643M	P30
3580863	UCDE312J5BRA KC643M	P30
3580864	UCDE312J5BRB KC643M	P30
3580865	UCDE375J5BS KC643M	P30
3580866	UCDE375J5BRA KC643M	P30
3580867	UCDE375J5BRB KC643M	P30
3580868	UCDE500J5BS KC643M	P30
3580869	UCDE500J5BRA KC643M	P30
3580870	UCDE500J5BRB KC643M	P30
3580871	UCDE500J5BRF KC643M	P30
3580872	UCDE625J5BS KC643M	P30
3580873	UCDE625J5BRB KC643M	P30
3580874	UCDE750J5BS KC643M	P31
3580875	UCDE750J5BRB KC643M	P30
3580876	UCDE750J5BRD KC643M	P31
3580877	UCDE750J5BRE KC643M	P31
3580878	UCDE750J5BRF KC643M	P31
3580879	UCDE1000J5BS KC643M	P31
3580880	UCDE1000J5BRB KC643M	P31
3580881	UCDE1000J5BRD KC643M	P31
3580882	UCDE1000J5BRE KC643M	P31
3580883	UCDE1000J5BRF KC643M	P31
3583765	SDMT060304EGG KC735M	U4
3583766	SDMT060304EGG KC730M	U4
3583768	SDMT080308EGG KC505M	U4
3583769	SDMT080308EGG KC735M	U4
3583770	SDMT080308EGG KC730M	U4
3583784	SDMT120408EGG KC505M	U4
3583785	SDMT120408EGG KC735M	U4
3583786	SDMT120408EGG KC730M	U4
3585206	B531A03300SPF KDF400	G100
3585207	B531A03600SPF KDF400	G100
3585208	B531A04000SPF KDF400	G100
3585209	B531A04366SPF KDF400	G100
3585210	B531A04851SPF KDF400	G100
3585211	B531A04864SPF KDF400	G100
3585212	B531A05200SPF KDF400	G100
3585213	B531A06375SPF KDF400	G100
3585214	B531A06400SPF KDF400	G100
3585215	B531A07938SPF KDF400	G100
3585217	B531A09550SPF KDF400	G100
3585218	B531A09563SPF KDF400	G100
3585219	B531A11125SPF KDF400	G100
3585220	B531A12725SPF KDF400	G100
3585221	B532A03300SPF KDF400	G100
3585222	B532A03600SPF KDF400	G100
3585224	B532A04366SPF KDF400	G100
3585225	B532A04851SPF KDF400	G100
3585227	B532A05200SPF KDF400	G100
3585228	B532A06375SPF KDF400	G100
3585229	B532A06400SPF KDF400	G100
3585230	B532A07938SPF KDF400	G100
3585233	B532A09563SPF KDF400	G100
3585235	B532A12725SPF KDF400	G100
3586088	KSEM125SEFM	H87
3586089	KSEM130SEFM	H87
3586090	KSEM135SEFM	H87
3586091	KSEM140SEFM	H87
3586092	KSEM145SEFM	H87
3586183	KSEM150SEFM	H87
3586184	KSEM155SEFM	H87
3586185	KSEM160SEFM	H87
3586186	KSEM165SEFM	H87
3586187	KSEM170SEFM	H87
3586188	KSEM175SEFM	H87
3586189	KSEM180SEFM	H87
3586190	KSEM185SEFM	H87
3586191	KSEM190SEFM	H87
3586192	KSEM195SEFM	H87
3586193	KSEM200SEFM	H87
3586194	KSEM205SEFM	H87
3586195	KSEM210SEFM	H87
3586196	KSEM215SEFM	H87
3586197	KSEM220SEFM	H87
3586198	KSEM225SEFM	H87
3586199	KSEM230SEFM	H87
3586200	KSEM235SEFM	H87
3586201	KSEM240SEFM	H87
3586202	KSEM245SEFM	H87
3586203	KSEM250SEFM	H87
3586204	KSEM255SEFM	H87
3586205	KSEM260SEFM	H87
3586206	KSEM265SEFM	H87
3586207	KSEM270SEFM	H87
3586208	KSEM275SEFM	H87
3586209	KSEM280SEFM	H87
3586210	KSEM285SEFM	H87
3586211	KSEM290SEFM	H87
3586212	KSEM295SEFM	H87
3586213	KSEM300SEFM	H87
3586214	KSEM305SEFM	H87
3586215	KSEM310SEFM	H87
3586216	KSEM315SEFM	H87
3586217	KSEM320SEFM	H87
3586519	KM32RBHT24	K122
3586520	KM32RBHT30	K122
3586521	KM40RBHT40	K122
3586522	KM50RBHT50	K122
3586543	KM50RBHT66	K122
3586544	KM50RBHT87	K122
3586545	KM63UTRBHT87	K122
3586546	KM63UTRBHT115	K122
3586547	HSK63RBHT24	K122
3586548	HSK63RBHT30	K122

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3586549	HSK63RBHT40	K122
3586550	HSK63RBHT50	K122
3586551	HSK63RBHT66	K122
3586563	HSK63RBHT87	K122
3586564	SF075RBHT24	K123
3586565	SF100RBHT30	K123
3586566	SF125RBHT40	K123
3586567	SF100RBHT50	K123
3586569	SF125RBHT66	K123
3586570	SF150RBHT87	K123
3586571	SF200RBHT115	K123
3586572	KM32FBHS24	K137
3586573	KM32FBHS31	K137
3586574	KM40FBHS40	K137
3586575	KM50FBHS51	K137
3586576	KM50FBHS67	K137
3586577	KM50FBHS87	K137
3586578	KM63UTFBHS87	K137
3586579	KM63UTFBHS116	K137
3586580	HSK63FBHS24	K137
3586581	HSK63FBHS31	K137
3586582	HSK63FBHS40	K137
3586583	HSK63FBHS51	K137
3586584	HSK63FBHS67	K137
3586585	HSK63FBHS87	K137
3586586	SF075FBHS24	K138
3586587	SF100FBHS31	K138
3586588	SF125FBHS40	K138
3586589	SF100FBHS51	K138
3586590	SF125FBHS67	K138
3586591	SF150FBHS87	K138
3586592	SF200FBHS116	K138
3586593	SSE075FBHS24	K139
3586594	SSE100FBHS31	K139
3586595	SSE125FBHS40	K139
3587211	881.252.250	K137–139
3587212	880.252.250	K137–139
3587695	880.252.320	K137–139
3587698	881.252.420	K137–138
3587699	880.252.420	K137–138
3587703	881.252.940	K137–138
3587704	841.342.200	K122–124
3587705	848.200.005	K125
3587706	848.200.407	K124–126
3587707	848.250.005	K125
3587708	848.250.409	K124–126
3587709	848.320.005	K125
3587710	848.320.413	K124–126
3587711	841.342.420	K122–123
3587712	848.420.005	K125
3587713	848.420.614	K124–126
3587714	841.142.550	K122–123
3587715	848.550.620	K124–126
3587716	848.550.005	K125
3587717	843.012.000	K124–126
3587718	844.012.000	K124–126
3587719	845.012.000	K124–126
3587720	846.012.000	K124–126
3587721	847.012.000	K124–126
3587722	841.142.720	K122–123
3587723	848.720.000	K124–126
3587724	848.720.005	K125
3587725	844.016.000	K124–126
3587726	845.016.000	K124–126
3587727	846.016.000	K124–126
3587728	847.016.000	K124–126
3587729	841.142.940	K122–123
3587730	848.940.640	K124, K126
3588387	KSEM1604HPGM KC7315	H54
3588680	KM63XMZKGMSLF65Y	C148
3592190	B978A05600 KC7315	G139
3593089	B978A04500 KC7315	G139
3593675	MS2206	U3
3593676	MS2207	U3
3593681	MS2208	U3
3593911	MS2205	T29–33, T40–43
3597589	MS2219	V36–38
3598160	B256A10200 KC7315	G58
3598188	B967A06500 KC7315	G131
3609446	KSEM2325HPGM KC7315	H55
3613696	MS2038CG	V62
3615883	B976A09400 KC7315	G136
3616778	KSEM3220HPGM KC7315	H55
3617131	RIQ06E1306 KC6305	K58
3636039	RPG2150E KYSP30	V157
3637915	D28TTB26KM40	B410
3637916	D32TTB29KM40	B410
3637917	D40TTB36KM40	B410
3638033	D48TTB45KM63	B410
3638034	D64TTB58KM63	B410
3638615	B256A05000 KC7315	G58
3638616	B256A05500 KC7315	G58
3638617	B256A05800 KC7315	G58
3638618	B256A06000 KC7315	G58
3638619	B256A06500 KC7315	G58
3638620	B256A06800 KC7315	G58
3638621	B256A07800 KC7315	G58
3638622	B256A08500 KC7315	G58
3638623	B256A09000 KC7315	G58
3638624	B256A10000 KC7315	G58
3638625	B256A11800 KC7315	G58
3638626	B256A12000 KC7315	G58
3638627	B256A13000 KC7315	G58
3638628	B256A15000 KC7315	G58
3639212	NG3062LEST KD1425	C177
3639213	NG3062REST KD1425	C177
3639214	NG3094LEST KD1425	C177
3639215	NG3094REST KD1425	C177
3639217	NG3125REST KD1425	C177
3639219	NG3189REST KD1425	C177
3639221	NGP3088R KD1425	C168
3639223	NGP3125R KD1425	C168
3639344	NG3062LEST KB1630	C177
3639345	NG3062REST KB1630	C177
3639346	NG3094LEST KB1630	C177
3639347	NG3094REST KB1630	C177
3639348	NG3125LEST KB1630	C177
3639349	NG3125REST KB1630	C177
3639350	NG4189LEST KB1630	C171, C177
3639351	NG4189REST KB1630	C177
3639762	SCMT3252MP KCP25	B247
3639874	SCMT3252MP KCU10	B247
3639875	DCMT3252MP KCK20	B226
3639877	DCMT3252MP KCP25	B226
3639878	DCMT3252MP KCU10	B226
3639881	TCMT3252MP KCP25	B258
3639883	TCMT3252MP KCU10	B258
3640677	B291A03000YPL KC7315	G88
3640678	B291A04000YPL KC7315	G88
3640679	B291A04500YPL KC7315	G88
3640680	B291A05000YPL KC7315	G88
3640681	B291A05100YPL KC7315	G88
3640682	B291A05500YPL KC7315	G88
3640703	B291A06000YPL KC7315	G88
3640704	B291A06350YPL KC7315	G89
3640705	B291A06500YPL KC7315	G89
3640706	B291A06800YPL KC7315	G89
3640707	B291A07000YPL KC7315	G89
3640708	B291A07500YPL KC7315	G89
3640709	B291A08000YPL KC7315	G89
3640710	B291A08334YPL KC7315	G89
3640711	B291A08500YPL KC7315	G89
3640712	B291A09000YPL KC7315	G89
3640713	B291A09500YPL KC7315	G89
3640714	B291A09525YPL KC7315	G89
3640715	B291A10000YPL KC7315	G89
3640716	B291A10320YPL KC7315	G89
3640717	B291A10500YPL KC7315	G89
3640718	B291A11000YPL KC7315	G89
3640719	B291A11500YPL KC7315	G89
3640720	B291A12000YPL KC7315	G90
3640721	B291A12500YPL KC7315	G90
3640722	B291A12700YPL KC7315	G90
3640723	B291A13000YPL KC7315	G90
3640724	B291A14000YPL KC7315	G90
3640725	B291A14500YPL KC7315	G90
3640726	B291A15000YPL KC7315	G90
3640727	B291A16000YPL KC7315	G90
3640728	B291A17000YPL KC7315	G90
3640729	B291A18000YPL KC7315	G90
3640730	B292A03000YPL KC7315	G88
3640731	B292A03175YPL KC7315	G88
3640732	B292A03500YPL KC7315	G88
3640743	B292A04000YPL KC7315	G88
3640744	B292A04200YPL KC7315	G88
3640745	B292A04300YPL KC7315	G88
3640746	B292A04500YPL KC7315	G88
3640747	B292A04800YPL KC7315	G88
3640748	B292A05000YPL KC7315	G88
3640749	B292A05100YPL KC7315	G88
3640750	B292A05200YPL KC7315	G88
3640751	B292A05410YPL KC7315	G88
3640752	B292A05500YPL KC7315	G88
3640753	B292A05558YPL KC7315	G88
3640754	B292A05600YPL KC7315	G88
3640755	B292A05800YPL KC7315	G88
3640756	B292A06000YPL KC7315	G88
3640757	B292A06350YPL KC7315	G89
3640758	B292A06500YPL KC7315	G89
3640759	B292A06528YPL KC7315	G89
3640760	B292A06746YPL KC7315	G89
3640761	B292A06800YPL KC7315	G89
3640762	B292A06900YPL KC7315	G89
3640763	B292A07000YPL KC7315	G89
3640764	B292A07100YPL KC7315	G89
3640765	B292A07145YPL KC7315	G89
3640766	B292A07500YPL KC7315	G89
3640767	B292A07938YPL KC7315	G89
3640768	B292A08000YPL KC7315	G89
3640769	B292A08334YPL KC7315	G89
3640770	B292A08433YPL KC7315	G89
3640771	B292A08500YPL KC7315	G89
3640772	B292A08733YPL KC7315	G89
3640773	B292A08800YPL KC7315	G89
3640774	B292A09000YPL KC7315	G89
3640775	B292A09200YPL KC7315	G89
3640776	B292A09347YPL KC7315	G89
3640777	B292A09500YPL KC7315	G89
3640778	B292A09525YPL KC7315	G89
3640779	B292A10000YPL KC7315	G89
3640780	B292A10200YPL KC7315	G89
3640781	B292A10320YPL KC7315	G89
3640782	B292A10500YPL KC7315	G89
3640783	B292A10716YPL KC7315	G89
3640784	B292A11000YPL KC7315	G89
3640785	B292A11112YPL KC7315	G89
3640786	B292A11500YPL KC7315	G89
3640787	B292A12000YPL KC7315	G90
3640788	B292A12304YPL KC7315	G90
3640789	B292A12500YPL KC7315	G90
3640790	B292A13000YPL KC7315	G90
3640791	B292A13500YPL KC7315	G90
3640792	B292A14000YPL KC7315	G90
3640793	B292A14500YPL KC7315	G90
3640794	B292A15000YPL KC7315	G90
3640795	B292A15500YPL KC7315	G90
3640796	B292A16000YPL KC7315	G90
3640797	B292A16500YPL KC7315	G90
3640798	B292A17000YPL KC7315	G90
3640799	B292A17500YPL KC7315	G90
3640800	B292A18000YPL KC7315	G90
3640801	B292A18500YPL KC7315	G90
3640802	B292A19000YPL KC7315	G90
3640803	B292A19050YPL KC7315	G90
3640806	B292A20000YPL KC7315	G90
3640807	B292A20500YPL KC7315	G90
3640808	B292A21000YPL KC7315	G90
3641465	DTQ3054	S94, S98, S100
3641473	BTQT25	S94, S98, S100
3641572	CRDPN162DV	B168, B386
3641593	CRDPN163DV	B168, B386
3641594	CRDPN203DV	B168, B386
3641595	CRDPN164DV	B168, B386
3641597	CRDPN204DV	B168, B386
3641603	CRGPR162DV	B169, B387
3641604	CRGPL162DV	B169, B387
3641608	CRGPL203DV	B169, B387
3641611	CRGPR204DV	B169, B387
3641712	EP1008EHD KC522M	T36, T46
3641734	EP1008EHD KC725M	T36, T46
3641735	EP1008EHD KCK15	T36, T46
3641736	EP1008EHD KCPK30	T36, T46
3641740	EP1004EHD KC522M	T36, T46
3641741	EP1004EHD KC725M	T36, T46
3641742	EP1004EHD KCK15	T36, T46
3641783	EP1004EHD KCPK30	T36, T46
3642028	EP1012EHD KC522M	T36, T46
3642029	EP1012EHD KC725M	T36, T46
3642031	EP1012EHD KCPK30	T36, T46
3642093	EP1016EHD KC522M	T36, T46
3642094	EP1016EHD KC725M	T36, T46
3642096	EP1016EHD KCPK30	T36, T46
3642097	EP1020EHD KC725M	T36, T46
3642098	EP1020EHD KCPK30	T36, T46
3642102	EP1024EHD KC725M	T36, T46
3642133	EP1024EHD KCPK30	T36, T46
3642136	EP1031EHD KC522M	T36, T46
3642137	EP1031EHD KC725M	T36, T46
3642138	EP1031EHD KCPK30	T36, T46
3642141	EP1004SGD KC725M	T37, T47
3642142	EP1004SGD KCK15	T37, T47
3642163	EP1004SGD KCPK30	T37, T47
3642170	EP1008SGD KC725M	T37, T47
3642171	EP1008SGD KCK15	T37, T47
3642172	EP1008SGD KCPK30	T37, T47
3642193	EP1012SGD KC725M	T37, T47
3642194	EP1012SGD KCK15	T37, T47
3642195	EP1012SGD KCPK30	T37, T47
3642196	EP1016SGD KC725M	T37, T47
3642198	EP1016SGD KCPK30	T37, T47
3643846	NPGR51R KD1425	E33
3643847	NPGR52L KD1425	E33
3643849	NPL505 KD1425	E35
3643850	NPR505 KD1425	E35
3643851	NPL508 KD1425	E35
3643852	NPR508 KD1425	E35
3643853	NPL51 KD1425	E35
3643854	NPR51 KD1425	E35
3643855	VPGN331 KD1425	B369, E38
3643856	VPGN332 KD1425	B369, E38
3643858	VPGR331 KD1425	B369, E38
3643859	VPGR332 KD1425	B369, E38
3643860	VPGR333 KD1425	B369, E38
3643862	DPGR432 KD1425	E32
3644073	DT7IP	T30–33, T41–43
3646911	SNMG866RM KC5010	B104
3648330	CPG421F KD1425	B363
3648331	CPG422F KD1425	B363
3648332	TPG221F KD1425	B367
3648428	DFT06T308D36MD KC7140	H113
3648430	DFT05T308D32MD KC7140	H113
3648474	DFT070408D45MD KC7140	H113
3648478	DFT090508D56MD KC7140	H113
3648584	TPG321F KD1425	B367
3648585	TPG322F KD1425	B367
3648588	TPG432F KD1425	B367
3649187	EC1008FLDJ KC410M	T35, T44
3649188	EC1008ELDJ KC422M	T35, T45
3649189	EC1008ELD KC520M	T36, T45
3649190	EC1008ELD KC522M	T36, T45
3649191	EC1008ELD KC725M	T36, T45
3649192	EC1008ELD KCPK30	T36, T45
3649213	EC1008ELD KCK15	T36, T45
3650831	SCMT432MP KCK20	B247
3650903	SCMT432MP KCP25	B247
3654372	SPET31251PPER8GB2 KC725M	T111, U31
3654503	SPET31251PPER8GB2 KCPK30	T111, U31
3654504	SPET31251PPER8GB2 KCK15	T111, U31
3654505	SPET31251PPEL8GB2 KC725M	T111, U31
3654506	SPET31251PPEL8GB2 KCPK30	T111, U31
3654507	SPET31251PPEL8GB2 KCK15	T111, U31
3655880	CNGA431FST KD1400	B362
3655881	CNGA432FST KD1400	B362
3655882	CNMS431FST KD1400	B363
3656063	CNMS432FST KD1400	B363
3656064	DNGA431FST KD1400	B365
3656065	DNGA432FST KD1400	B365
3656066	DNMS431FST KD1400	B365
3656067	DNMS432FST KD1400	B365
3656068	TNMS331FST KD1400	B366
3656069	TNMS332FST KD1400	B366

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3656070	VNGA331FST KD1400	B368
3656071	VNGA332FST KD1400	B368
3656072	VNMS331FST KD1400	B368
3656073	VNMS332FST KD1400	B368
3656449	CNGA431FST KD1425	B362
3656450	CNGA432FST KD1425	B362
3656452	CNMS432FST KD1425	B363
3656463	DNGA431FST KD1425	B365
3656464	DNGA432FST KD1425	B365
3656466	DNMS432FST KD1425	B365
3656467	TNMS331FST KD1425	B366
3656468	TNMS332FST KD1425	B366
3656470	VNGA332FST KD1425	B368
3656471	VNMS331FST KD1425	B368
3656472	VNMS332FST KD1425	B368
3656474	WNGA432FST KD1425	B369
3658815	AADE0250J3A K600	P128
3658816	AADE0250J3ARB K600	P128
3658817	AADE0250J3BRA K600	P128
3658818	AADE0250J3BRB K600	P128
3658819	AADE0250J3C K600	P128
3658820	AADE0250J3CRA K600	P128
3658821	AADE0250J3CRB K600	P128
3658824	AADE0375J3A K600	P128
3658825	AADE0375J3BRB K600	P128
3658826	AADE0375J3BRC K600	P128
3658827	AADE0375J3C K600	P129
3658828	AADE0375J3CRB K600	P129
3658829	AADE0375J3CRC K600	P129
3658830	AADE0500J3A K600	P129
3658831	AADE0500J3ARB K600	P129
3658832	AADE0500J3ARC K600	P129
3658833	AADE0500J3BRB K600	P129
3658834	AADE0500J3BRC K600	P129
3658835	AADE0500J3BRE K600	P129
3658836	AADE0500J3C K600	P129
3658837	AADE0500J3CRB K600	P129
3658838	AADE0500J3CRC K600	P129
3658839	AADE0500J3D K600	P129
3658840	AADE0500J3DRB K600	P129
3658841	AADE0500J3DRC K600	P129
3658843	AADE0625J3B K600	P130
3658845	AADE0750J3A K600	P130
3658846	AADE0750J3BRB K600	P130
3658847	AADE0750J3BRC K600	P130
3658848	AADE0750J3BRE K600	P130
3658849	AADE0750J3C K600	P130
3658850	AADE0750J3CRB K600	P130
3658851	AADE0750J3CRC K600	P130
3658852	AADE0750J3D K600	P130
3658863	AADE0750J3DRB K600	P130
3658864	AADE0750J3DRC K600	P130
3658865	AADE1000J3A K600	P130
3658866	AADE1000J3ARB K600	P130
3658869	AADE1000J3B K600	P130
3658871	AADE1000J3BRC K600	P130
3658872	AADE1000J3C K600	P130
3658873	AADE1000J3CRB K600	P130
3658874	AADE1000J3CRC K600	P130
3658875	AADF0125J2A K600	P126
3658877	AADF0188J2A K600	P126
3658879	AADF0250J2A K600	P126
3658881	AADF0250J2BRA K600	P126
3658882	AADF0250J2BRB K600	P126
3658893	AADF0250J2C K600	P126
3658901	AADF0375J2C K600	P126
3658902	AADF0375J2CRB K600	P126
3658903	AADF0375J2CRC K600	P126
3658904	AADF0500J2A K600	P126
3658907	AADF0500J2BRB K600	P127
3658910	AADF0500J2C K600	P127
3658911	AADF0500J2CRB K600	P127
3658912	AADF0500J2CRC K600	P127
3658913	AADF0500J2D K600	P127
3658920	AADF0750J2BRB K600	P127
3658923	AADF0750J2C K600	P127
3658924	AADF0750J2CRB K600	P127
3658929	AADF1000J2A K600	P127
3658934	AADF1000J2BRB K600	P127
3658936	AADF1000J2C K600	P127
3659963	CDHB120605FST KD1400	B362
3659964	CDHB1206X0FST KD1400	B362
3659965	CCGW2151FST KD1400	B362
3659966	CCGW3251FST KD1400	B362
3659967	CCGW3252FST KD1400	B362
3659968	CPGW21505FST KD1400	B364
3659969	CPGW2151FST KD1400	B364
3659970	CPGW2152FST KD1400	B364
3659971	CPGW3251FST KD1400	B364
3659972	CPGW3252FST KD1400	B364
3659975	CPGW2151FWST KD1400	B364
3659976	CPGW3252FWST KD1400	B364
3659977	CPGW432FWST KD1400	B364
3659978	DCGW2151FST KD1400	B364
3659979	DCGW3251FST KD1400	B364
3659980	DPGW21505FST KD1400	B366
3659981	DPGW2151FST KD1400	B366
3659982	DPGW3251FST KD1400	B366
3659985	TCGW2151FST KD1400	B366
3659986	TCGW3251FST KD1400	B366
3659987	TPGW2151FST KD1400	B367
3659988	TPGW2152FST KD1400	B367
3659990	TPGW3252FST KD1400	B367
3659991	VBGW221FST KD1400	B368
3659992	VBGW331FST KD1400	B368
3659994	CDHB120605FST KD1425	B362
3659996	CCGW2151FST KD1425	B362
3659997	CCGW3251FST KD1425	B362
3659998	CCGW3252FST KD1425	B362
3659999	CPGW21505FST KD1425	B364
3660000	CPGW2151FST KD1425	B364
3660001	CPGW2152FST KD1425	B364
3660002	CPGW3251FST KD1425	B364
3660003	CPGW3252FST KD1425	B364
3660006	CPGW2151FWST KD1425	B364
3660007	CPGW3252FWST KD1425	B364
3660008	CPGW432FWST KD1425	B364
3660009	DCGW2151FST KD1425	B364
3660010	DCGW3251FST KD1425	B364
3660011	DPGW21505FST KD1425	B366
3660012	DPGW2151FST KD1425	B366
3660013	DPGW3251FST KD1425	B366
3660015	DPGW3251FWST KD1425	B366
3660016	TCGW2151FST KD1425	B366
3660018	TPGW2151FST KD1425	B367
3660020	TPGW3251FST KD1425	B367
3660021	TPGW3252FST KD1425	B367
3660022	VBGW221FST KD1425	B368
3660023	VBGW331FST KD1425	B368
3660154	KSEMP1300HPGM KC7315	H111
3660156	KSEMP2000HPGM KC7315	H111
3660157	KSEMP3400HPGM KC7315	H111
3660396	ABDF0250J2AS K600	P116
3660397	ABDF0250J2ARB K600	P116
3660398	ABDF0312J2ARB K600	P116
3660399	ABDF0375J2AS K600	P116
3660400	ABDF0375J2ARB K600	P116
3660401	ABDE0250J3AS K600	P117
3660402	ABDE0250J3ARB K600	P117
3660423	ABDE0312J3ARB K600	P117
3660424	ABDE0375J3AS K600	P117
3660425	ABDE0375J3ARB K600	P117
3660426	ABDF0500J2AS K600	P116
3660427	ABDF0500J2ARB K600	P116
3660428	ABDF0500J2ARC K600	P116
3660429	ABDE0500J3AS K600	P117
3660430	ABDE0500J3ARB K600	P117
3660431	ABDE0500J3ARC K600	P117
3660432	ABDF0625J2AS K600	P116
3660433	ABDF0750J2AS K600	P116
3660434	ABDF0750J2ARB K600	P116
3660435	ABDF0750J2ARC K600	P116
3660436	ABDF0750J2ARE K600	P116
3660437	ABDF1000J2AS K600	P116
3660438	ABDF1000J2ARB K600	P116
3660439	ABDF1000J2ARC K600	P116
3660440	ABDF1000J2ARE K600	P116
3660441	ABDE0625J3AS K600	P117
3660442	ABDE0750J3AS K600	P117
3660443	ABDE0750J3ARB K600	P117
3660444	ABDE0750J3ARC K600	P117
3660445	ABDE0750J3ARE K600	P117
3660446	ABDE1000J3AS K600	P117
3660447	ABDE1000J3ARB K600	P117
3660448	ABDE1000J3ARC K600	P117
3660449	ABDE1000J3ARE K600	P117
3660590	CM214	B168–169, B386–387
3660591	CM219	B168–169, B386–387
3660592	CM216	B168–169, B386–387
3663324	KSSC709813RX	U35
3663325	KSSC709813LX	U35
3663326	KSSC813917RX	U36
3663327	KSSC813917LX	U36
3667056	SIF70HC12090M	K51
3667057	SIF70HC20100M	K51
3667058	SIF80HC12090M	K51
3667059	SIF80HC20100M	K51
3667060	SIF80HC25100M	K51
3667061	SIF100HC12090M	K51
3667062	SIF100HC20100M	K51
3667918	B707A11350FBG KC7315	G111
3668023	SIF100HC25100M	K51
3668057	B291A07200YPL KC7315	G89
3668058	B292A07200YPL KC7315	G89
3668624	RMS05000H7HF K605	K9
3668625	RMS05500H7HF K605	K9
3668626	RMS06000H7HF K605	K9
3668627	RMS06500H7HF K605	K9
3668628	RMS07000H7HF K605	K9
3668629	RMS08000H7HF K605	K9
3668630	RMS09000H7HF K605	K9
3668631	RMS10000H7HF K605	K9
3668632	RMS11000H7HF K605	K9
3668883	RMS12000H7HF K605	K9
3668884	RMS13000H7HF K605	K9
3668885	RMS14000H7HF K605	K9
3668886	RMS05000H7SF K605	K8
3668887	RMS05500H7SF K605	K8
3668888	RMS06000H7SF K605	K8
3668889	RMS06500H7SF K605	K8
3668890	RMS07000H7SF K605	K8
3668891	RMS08000H7SF K605	K8
3668892	RMS09000H7SF K605	K8
3668903	RMS10000H7SF K605	K8
3668904	RMS11000H7SF K605	K8
3668905	RMS12000H7SF K605	K8
3668906	RMS13000H7SF K605	K8
3668907	RMS14000H7SF K605	K8
3668908	RMS05000H7HF KC6305	K9
3668909	RMS05500H7HF KC6305	K9
3668910	RMS06000H7HF KC6305	K9
3668911	RMS06500H7HF KC6305	K9
3668912	RMS07000H7HF KC6305	K9
3668913	RMS08000H7HF KC6305	K9
3668914	RMS09000H7HF KC6305	K9
3668915	RMS10000H7HF KC6305	K9
3668916	RMS11000H7HF KC6305	K9
3668917	RMS12000H7HF KC6305	K9
3668918	RMS13000H7HF KC6305	K9
3668919	RMS14000H7HF KC6305	K9
3668920	RMS05000H7SF KC6305	K8
3668921	RMS05500H7SF KC6305	K8
3668922	RMS06000H7SF KC6305	K8
3668923	RMS06500H7SF KC6305	K8
3668924	RMS07000H7SF KC6305	K8
3668925	RMS08000H7SF KC6305	K8
3668926	RMS09000H7SF KC6305	K8
3668927	RMS10000H7SF KC6305	K8
3668928	RMS11000H7SF KC6305	K8
3668929	RMS12000H7SF KC6305	K8
3668930	RMS13000H7SF KC6305	K8
3668931	RMS14000H7SF KC6305	K8
3669000	DFT05T308D33MD KC7140	H113
3669001	DFT06T308D39MD KC7140	H113
3669002	DFT06T308D44MD KC7140	H113
3669071	NST1	B168–169, B386–387
3669072	NST2	B168–169, B386–387
3669083	DFT070408D50MD KC7140	H113
3669084	DFT090508D63MD KC7140	H113
3669183	NST3	B168–169, B386–387
3682450	EC1004FLDJ KC410M	T35, T44
3682451	EC1004ELDJ KC422M	T35, T45
3682452	EC1004ELD KC520M	T36, T45
3682513	EC1004ELD KC522M	T36, T45
3682514	EC1004ELD KC725M	T36, T45
3682515	EC1004ELD KCPK30	T36, T45
3682520	EC1012FLDJ KC410M	T35, T44
3682653	EC1012ELD KC522M	T36, T45
3682655	EC1012ELD KC725M	T36, T45
3682777	EC1016FLDJ KC410M	T35, T44
3682778	EC1016ELDJ KC422M	T35, T45
3682780	EC1016ELD KC522M	T36, T45
3682781	EC1016ELD KC725M	T36, T45
3682782	EC1016ELD KCPK30	T36, T45
3683704	B707A03700FBG KC7315	G110
3683843	KSEM3975HPGM KC7315	H55
3684779	EC1002FLDJ KC410M	T35, T44
3684824	EC1031FLDJ KC410M	T35, T44
3684828	EC1031ELD KC725M	T36
3684829	EC1031ELD KCPK30	T36, T45
3690478	KSEMP1400HPGM KC7315	H111
3690479	KSEMP1500HPGM KC7315	H111
3690480	KSEMP1600HPGM KC7315	H111
3690481	KSEMP1700HPGM KC7315	H111
3690482	KSEMP1800HPGM KC7315	H111
3690713	KSEMP1900HPGM KC7315	H111
3690714	KSEMP2100HPGM KC7315	H111
3690715	KSEMP2200HPGM KC7315	H111
3690716	KSEMP2300HPGM KC7315	H111
3690717	KSEMP2400HPGM KC7315	H111
3690718	KSEMP2500HPGM KC7315	H111
3690719	KSEMP2600HPGM KC7315	H111
3690720	KSEMP2700HPGM KC7315	H111
3690721	KSEMP2800HPGM KC7315	H111
3690722	KSEMP2900HPGM KC7315	H111
3690723	KSEMP3000HPGM KC7315	H111
3690724	KSEMP3100HPGM KC7315	H111
3690725	KSEMP3200HPGM KC7315	H111
3690726	KSEMP3300HPGM KC7315	H111
3727352	ASPM07001802	T63–64
3732218	B707A05200FBG KC7315	G110
3732889	M1HR125E14W125Z2L200C4	T63, T72
3732890	M1HR150E14W125Z3L200C6	T63, T72
3732891	M1HR150E14W125Z3L250C9	T63, T72
3732892	M1HR150E14W125Z3L300C12	T63, T72
3732933	M1HR200E14S075Z3L200C6	T64, T72
3732934	M1HR200E14S075Z3L250C9	T64, T72
3732935	M1HR200E14W150Z3L300C12	T63, T72
3732937	M1HR250E14S100Z3L250C9	T64, T72
3732938	M1HR250E14S100Z4L250C12	T64, T72
3732939	M1HR250E14S100Z3L300C12	T64, T72
3733337	CNGA433S0420MT KB5630	B310, B330
3733417	DNGA431S0425MT KB5630	B310, B334
3737769	KSEM2110HPGM KC7315	H54
3738473	A4G0605M06U04GMN KCP25	C106
3738488	DV40BSIF80061M	K49
3738490	DV50BSIF70060M	K49
3738491	DV50BSIF100060M	K49
3738492	BT40BSIF80063M	K48
3738503	BT50BSIF70063M	K49
3738504	BT50BSIF100068M	K49
3738505	CV40BSIF80248	K48
3738506	CV50BSIF70236	K48
3738507	CV50BSIF100236	K48
3738508	HSK63ASIF70066M	K50
3738510	HSK80ASIF70066M	K50
3738511	HSK100ASIF70050M	K50
3738512	HSK100ASIF100070M	K50
3739296	B292A15600YPL KC7315	G90

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3742210	KSEMP3300FDS32A1M	H104, H115, H122
3742211	KSEMP5000FDS50A1M	H105, H116, H122
3742212	KSEMP7000FDS63A1M	H105, H116, H123
3742293	WD32FDS32321M	H127
3742294	WD50FDS50503M	H127
3742296	WD50FDS63779M	H127
3742470	M1D062E1002CM08	T29
3742471	M1D075E1002CM10	T29
3742472	M1D075E1003CM10	T29
3742513	M1D100E1003CM12	T29
3742514	M1D100E1004CM12	T29
3742516	M1D125E1005CM16	T29
3742517	M1D150E1006CM16	T29
3742518	M1D050E1001C062L350	T31
3742519	M1D062E1002C075L400	T31
3742520	M1D075E1002C075L450	T31
3742521	M1D075E1003C075L450	T31
3742522	M1D100E1003C100L480	T31
3742533	M1D100E1004C100L480	T31
3742534	M1D125E1004C125L520	T31
3742535	M1D125E1005C125L520	T31
3742536	M1D062E1002C062L670	T31
3742537	M1D062E1002C062L670R	T32
3742538	M1D075E1002C075L670	T31
3742540	M1D075E1003C075L670	T31
3742541	M1D075E1003C075L670R	T32
3742542	M1D088E1003C075L670	T31
3742543	M1D100E1003C100L800	T31
3742544	M1D100E1003C100L800R	T32
3742545	M1D100E1004C100L800	T31
3742546	M1D100E1004C100L800R	T32
3742547	M1D110E1004C100L800	T31
3742548	M1D125E1004C125L800	T31
3742550	M1D125E1005C125L800	T31
3742551	M1D125E1005C125L800R	T32
3742552	M1D062E1002W075L100	T30
3742553	M1D075E1002W075L110	T30
3742554	M1D075E1003W075L110	T30
3742555	M1D100E1003W100L125	T30
3742556	M1D100E1004W100L125	T30
3742557	M1D125E1004W125L160	T30
3742558	M1D125E1005W125L160	T30
3744865	CCMT2151MP KCM15	B191
3744872	DCMT3252MP KCM15	B226
3744873	SCMT3251MP KCM15	B247
3744874	SCMT3252MP KCM15	B247
3744878	SPMT3252MP KCM15	B253
3744880	TCMT3252MP KCM15	B258
3744884	CCMT2151MP KCP25	B191
3744886	CCMT3251MP KCP25	B191
3744887	CCMT3252MP KCP25	B191
3744888	CCMT3253MP KCP25	B191
3744890	CCMT432MP KCP25	B191
3744891	CCMT433MP KCP25	B191
3744893	CPMT3252MP KCP25	B207
3744895	DCMT3251MP KCP25	B226
3744896	DCMT3253MP KCP25	B226
3744897	DPMT3252MP KCP25	B233
3744898	SCMT3251MP KCP25	B247
3744900	SCMT433MP KCP25	B247
3744903	SPMT432MP KCP25	B253
3744904	TCMT2152MP KCP25	B258
3744906	TCMT3251MP KCP25	B258
3744907	TCMT3253MP KCP25	B258
3744908	TPMT2152MP KCP25	B269
3744909	TPMT3252MP KCP25	B269
3744910	TPMT3253MP KCP25	B269
3744911	VBMT331MP KCP25	B281
3744912	VBMT332MP KCP25	B281
3744917	CCMT2151MP KCM25	B191
3744918	CCMT3251MP KCM25	B191
3744919	CCMT3252MP KCM25	B191
3744920	CCMT3253MP KCM25	B191
3744923	CCMT433MP KCM25	B191
3744924	CPMT3252MP KCM25	B207
3744925	DCMT3252MP KCM25	B226
3744926	SCMT3251MP KCM25	B247
3744927	SCMT3252MP KCM25	B247
3744928	SCMT431MP KCM25	B247
3744929	SCMT432MP KCM25	B247
3744930	SCMT433MP KCM25	B247
3744931	TCMT3251MP KCM25	B258
3744932	TCMT3252MP KCM25	B258
3744935	VBMT331MP KCM25	B281
3744936	VBMT332MP KCM25	B281
3744940	CCMT2151MP KCP10	B191
3744941	CCMT3251MP KCP10	B191
3744942	CCMT3252MP KCP10	B191
3744943	CCMT432MP KCP10	B191
3744945	CPMT3252MP KCP10	B207
3744946	DCMT3251MP KCP10	B226
3744947	DCMT3252MP KCP10	B226
3744949	SCMT3252MP KCP10	B247
3744950	SCMT432MP KCP10	B247
3744951	TCMT3252MP KCP10	B258
3744955	CCMT3252MP KCK20	B191
3744956	CCMT432MP KCK20	B191
3744957	CCMT433MP KCK20	B191
3744958	CPMT3252MP KCK20	B207
3744962	SCMT3251MP KCK20	B247
3744965	SPMT3252MP KCK20	B253
3744974	VBMT332MP KCK20	B281
3744975	CCMT2151MP KCU10	B191
3744976	CCMT3251MP KCU10	B191
3744977	CCMT3252MP KCU10	B191
3744978	CCMT432MP KCU10	B191
3744979	CPMT2152MP KCU10	B207
3744980	CPMT3252MP KCU10	B207
3744981	DCMT3251MP KCU10	B226
3744982	DCMT3253MP KCU10	B226
3744983	DPMT3252MP KCU10	B233
3744984	SCMT3251MP KCU10	B247
3744985	SCMT431MP KCU10	B247
3744986	SCMT432MP KCU10	B247
3744987	SPMT3252MP KCU10	B253
3744988	SPMT432MP KCU10	B253
3744989	TCMT2152MP KCU10	B258
3744990	TCMT3251MP KCU10	B258
3745033	S449	T64
3745036	S464	T64
3745039	M1D150E1004S075L157	T33
3745040	M1D150E1006S075L157	T33
3745041	M1D200E1005S075L157	T33
3745042	M1D200E1008S075L157	T33
3745043	M1D250E1006S075L157	T33
3745045	M1D250E1009S075L157	T33
3745047	M1D300E1008S100L175	T33
3745048	M1D300E1010S100L175	T33
3745049	M1D400E1008S150L200	T33
3746074	DNMG331MN KCP05	B81
3746075	DNMG332MN KCP05	B81
3746077	DNMG433MN KCP05	B81
3746083	VNMG332MN KCP05	B146
3746085	CNMG433MW KCP05	B52
3746086	DNMG442MW KCP05	B82
3746087	TNMG332MW KCP05	B126
3746089	WNMG432MW KCP05	B160
3746090	DNMG432MW KCP05	B82
3746091	DNMG433MW KCP05	B82
3746092	DNMG443MW KCP05	B82
3746093	M1HR075ED10W075Z2L140C6	T41
3746097	M1HR100ED10W100Z2L180C8	T41
3746098	M1HR125ED10W125Z2L210C10	T41
3746099	M1HR125ED10W125Z3L210C15	T41
3746100	M1HR075ED10C075Z2L110C4	T42
3746101	M1HR100ED10C100Z2L110C4	T42
3746106	M1HR125ED10M16Z2L160C4	T40
3746107	M1HR125ED10M16Z3L160C6	T40
3746108	M1HR150ED10S075Z3L200C12	T43
3746109	M1HR150ED10S075Z5L200C20	T43
3746110	M1HR200ED10S075Z3L240C15	T43
3746111	M1HR200ED10S075Z5L240C25	T43
3746114	CNMG433RP KCP05	B53
3746116	DNMG442RP KCP05	B84
3746118	SNMG432RP KCP05	B105
3746119	SNMG433RP KCP05	B105
3746120	TNMG332RP KCP05	B127
3746121	TNMG333RP KCP05	B127
3746122	WNMG432RP KCP05	B161
3746123	WNMG433RP KCP05	B161
3746125	CCMT2151UF KCP05	B192
3746126	CCMT32505UF KCP05	B192
3746132	DCMT32505UF KCP05	B226
3746133	DCMT3251UF KCP05	B226
3746134	DCMT3252UF KCP05	B226
3746135	SCMT3252UF KCP05	B247
3746137	TPMT21505UF KCP05	B269
3746138	TPMT2151UF KCP05	B269
3747113	EP1010EHD KC522M	T36, T46
3747114	EP1010EHD KC725M	T36, T46
3747115	EP1010EHD KCK15	T36, T46
3747116	EP1010EHD KCPK30	T36, T46
3747124	KSHR250HN5345XC3	S20
3747125	KSHR300HN5345XC4	S20
3747126	KSHR400HN5345XC5	S20
3747127	KSHR500HN5345XC6	S20
3747128	KSHR600HN5345XC8	S20
3747140	CNGA431S0425MT KB5630	B310, B330
3747141	CNGA432S0425MT KB5630	B310, B330
3747142	CNGA433S0425MT KB5630	B310, B330
3747223	CNGA431S0425FWMT KB5630	B310, B330
3747224	CNGA432S0425FWMT KB5630	B310, B330
3747225	DNGA432S0425MT KB5630	B310, B334
3747226	VNGA331S0425MT KB5630	B313, B342
3747227	VNGA332S0425MT KB5630	B313, B342
3747228	RNG32S0815C KB5630	B337
3747231	CCGW21505S0415C KB5630	B311, B328
3747232	CCGW2151S0415C KB5630	B311, B328
3747233	CCGW3251S0415MT KB5630	B311, B328
3747234	CCGW3252S0415MT KB5630	B311, B328
3747237	CPGW3251S0415MT KB5630	B331
3747238	CPGW3252S0415MT KB5630	B331
3747239	DCGW21505S0415C KB5630	B311, B332
3747240	DCGW2151S0415C KB5630	B311, B332
3747241	DCGW3251S0415MT KB5630	B312, B332
3747242	DCGW3252S0415MT KB5630	B312, B332
3747244	TPGW2152S0415C KB5630	B312, B340
3747245	VBGW331S0415MT KB5630	B312, B341
3747246	VBGW332S0415MT KB5630	B312, B341
3748345	CNMG432CT KCP05	B48
3748348	DNMG332CT KCP05	B79
3748363	DNMG443CT KCP05	B79
3748366	CNMG431FF KCP05	B48
3748367	CNMG432FF KCP05	B48
3748368	DNMG332FF KCP05	B79
3748374	TNMG332FF KCP05	B123
3748375	VNMG331FF KCP05	B146
3748376	VNMG332FF KCP05	B146
3748377	CNMG431FW KCP05	B49
3748378	CNMG432FW KCP05	B49
3748379	CNMG433FW KCP05	B49
3748381	DNMG332FW KCP05	B80
3748383	DNMG432FW KCP05	B80
3748384	DNMG441FW KCP05	B80
3748385	DNMG442FW KCP05	B80
3748386	SNMG432FW KCP05	B102
3748388	TNMG331FW KCP05	B124
3748389	TNMG332FW KCP05	B124
3748390	TNMG333FW KCP05	B124
3748391	WNMG331FW KCP05	B158
3748392	WNMG332FW KCP05	B158
3748394	WNMG431FW KCP05	B158
3748395	WNMG432FW KCP05	B158
3748396	WNMG433FW KCP05	B158
3748397	CCMT2152LF KCP05	B191
3748401	CPMT3251LF KCP05	B207
3748422	VBMT221LF KCP05	B281
3748423	VBMT222LF KCP05	B281
3748425	VBMT332LF KCP05	B281
3749127	HNGJ535ANSNHD KC520M	S19, S22
3749128	HNGJ53511ANSNHD KC520M	S19, S22
3749198	CNMG433MW KCP10	B52
3749200	DNMG442MW KCP10	B82
3749253	SNMG433MW KCP10	B104
3749254	TNMG332MW KCP10	B126
3749255	TNMG333MW KCP10	B126
3749256	WNMG332MW KCP10	B160
3749258	WNMG432MW KCP10	B160
3749259	CNMG431RP KCP10	B53
3749260	CNMG433RP KCP10	B53
3749261	CNMG434RP KCP10	B53
3749262	CNMG542RP KCP10	B53
3749263	CNMG543RP KCP10	B53
3749264	CNMG544RP KCP10	B53
3749266	CNMG644RP KCP10	B53
3749267	DNMG332RP KCP10	B84
3749269	DNMG432RP KCP10	B84
3749271	DNMG442RP KCP10	B84
3749272	DNMG443RP KCP10	B84
3749273	DNMG444RP KCP10	B84
3749274	RCMT1204M0RP KCP10	B242
3749277	SNMG432RP KCP10	B105
3749278	SNMG433RP KCP10	B105
3749279	SNMG434RP KCP10	B105
3749282	SNMG643RP KCP10	B105
3749283	SNMG644RP KCP10	B105
3749284	TNMG332RP KCP10	B127
3749285	TNMG333RP KCP10	B127
3749286	TNMG334RP KCP10	B127
3749288	TNMG433RP KCP10	B127
3749289	TNMG434RP KCP10	B127
3749290	TNMG543RP KCP10	B127
3749291	VNMG332RP KCP10	B148
3749292	VNMG333RP KCP10	B148
3749293	WNMG332RP KCP10	B161
3749294	WNMG333RP KCP10	B161
3749295	WNMG432RP KCP10	B161
3749296	WNMG433RP KCP10	B161
3749297	WNMG434RP KCP10	B161
3749298	CCMT2151UF KCP10	B192
3749299	CCMT32505UF KCP10	B192
3749300	CCMT3251UF KCP10	B192
3749307	DCMT3252UF KCP10	B226
3749309	DPMT3251UF KCP10	B233
3749310	DPMT3252UF KCP10	B233
3749311	SCMT3252UF KCP10	B247
3749318	TPMT3252UF KCP10	B269
3749336	CNMG434CT KCP10	B48
3749337	DNMG332CT KCP10	B79
3749338	DNMG431CT KCP10	B79
3749339	DNMG432CT KCP10	B79
3749341	DNMG441CT KCP10	B79
3749342	DNMG442CT KCP10	B79
3749344	DNMG443CT KCP10	B79
3749347	CNMG431FF KCP10	B48
3749348	CNMG432FF KCP10	B48
3749349	DNMG332FF KCP10	B79
3749350	DNMG431FF KCP10	B79
3749352	DNMG442FF KCP10	B79
3749353	SNMG322FF KCP10	B101
3749355	TNMG331FF KCP10	B123
3749357	VNMG331FF KCP10	B146
3749358	VNMG332FF KCP10	B146
3749359	CNMG431FW KCP10	B49
3749360	CNMG432FW KCP10	B49
3749361	CNMG433FW KCP10	B49
3749362	DNMG331FW KCP10	B80
3749363	DNMG332FW KCP10	B80
3749364	DNMG431FW KCP10	B80
3749367	DNMG442FW KCP10	B80
3749368	SNMG432FW KCP10	B102
3749369	SNMG433FW KCP10	B102
3749370	TNMG331FW KCP10	B124
3749374	WNMG332FW KCP10	B158
3749375	WNMG333FW KCP10	B158
3749376	WNMG431FW KCP10	B158

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3749377	WNMG432FW KCP10	B158
3749378	WNMG433FW KCP10	B158
3749379	CCMT2152LF KCP10	B191
3749380	CCMT432LF KCP10	B191
3749381	CPMT2151LF KCP10	B207
3749382	CPMT2152LF KCP10	B207
3749383	CPMT3251LF KCP10	B207
3749384	CPMT3252LF KCP10	B207
3749386	DCMT2151LF KCP10	B225
3749387	DCMT3252LF KCP10	B225
3749388	DCMT3253LF KCP10	B225
3749389	DCMT431LF KCP10	B225
3749390	DCMT432LF KCP10	B225
3749391	DPMT2151LF KCP10	B232
3749392	DPMT3251LF KCP10	B232
3749393	DPMT3252LF KCP10	B232
3749394	SCMT3251LF KCP10	B246
3749395	SCMT3252LF KCP10	B246
3749396	SCMT431LF KCP10	B246
3749399	SPMT3251LF KCP10	B252
3749401	TCMT2151LF KCP10	B257
3749402	TCMT2152LF KCP10	B257
3749403	TCMT3251LF KCP10	B257
3749404	TCMT3252LF KCP10	B257
3749408	TPMT2151LF KCP10	B268
3749410	TPMT3251LF KCP10	B268
3749412	VBMT221LF KCP10	B281
3749413	VBMT222LF KCP10	B281
3749414	VBMT331LF KCP10	B281
3749415	VBMT332LF KCP10	B281
3749416	WPMT2151LF KCP10	B288
3749422	CCMT2151MF KCP10	B191
3749444	CCMT3253MF KCP10	B191
3749447	CPMT3252MF KCP10	B207
3749449	DCMT3251MF KCP10	B226
3749450	DCMT3252MF KCP10	B226
3749451	DCMT3253MF KCP10	B226
3749453	SCMT3252MF KCP10	B247
3749454	SCMT432MF KCP10	B247
3749455	SCMT433MF KCP10	B247
3749456	SPMT3252MF KCP10	B253
3749459	TCMT3252MF KCP10	B258
3749460	TCMT3253MF KCP10	B258
3749462	TPMT3252MF KCP10	B268
3749463	CNMG321MN KCP10	B50
3749464	CNMG322MN KCP10	B50
3749465	CNMG431MN KCP10	B50
3749466	CNMG434MN KCP10	B50
3749467	CNMG542MN KCP10	B50
3749468	CNMG543MN KCP10	B50
3749469	CNMG544MN KCP10	B50
3749470	CNMG642MN KCP10	B50
3749471	CNMG643MN KCP10	B50
3749474	DNMG332MN KCP10	B81
3749475	DNMG333MN KCP10	B81
3749476	DNMG431MN KCP10	B81
3749479	DNMG441MN KCP10	B81
3749480	DNMG443MN KCP10	B81
3749481	DNMG444MN KCP10	B81
3749483	SNMG322MN KCP10	B102
3749484	SNMG323MN KCP10	B102
3749486	SNMG432MN KCP10	B102
3749487	SNMG433MN KCP10	B102
3749490	SNMG643MN KCP10	B102
3749491	TNMG331MN KCP10	B124
3749493	TNMG431MN KCP10	B124
3749494	TNMG432MN KCP10	B124
3749496	VNMG331MN KCP10	B146
3749497	VNMG332MN KCP10	B146
3749498	VNMG333MN KCP10	B146
3749499	WNMG331MN KCP10	B159
3749500	WNMG332MN KCP10	B159
3749501	WNMG333MN KCP10	B159
3749502	WNMG433MN KCP10	B159
3749503	CNMP432K KCP10	B57
3749507	TNMP332K KCP10	B129
3749508	VNMP332K KCP10	B149
3750568	B292A09600YPL KC7315	G89
3751151	DNMG331FF KCP05	B79
3751152	DNMG432FF KCP05	B79
3751405	RCMT1204M0RP KCK20	B242
3751406	RCMT2006M0RP KCK20	B242
3751474	CNMG431FN KCP05	B49
3751475	CNMG432FN KCP05	B49
3751477	DNMG331FN KCP05	B79
3751478	DNMG332FN KCP05	B79
3751479	DNMG333FN KCP05	B79
3751480	DNMG431FN KCP05	B79
3751481	DNMG432FN KCP05	B79
3751482	DNMG433FN KCP05	B79
3751483	DNMG441FN KCP05	B79
3751484	DNMG442FN KCP05	B79
3751485	DNMG443FN KCP05	B79
3751486	SNMG431FN KCP05	B101
3751488	TNMG331FN KCP05	B123
3751490	TNMG333FN KCP05	B123
3751492	VNMG331FN KCP05	B146
3751493	VNMG332FN KCP05	B146
3751494	WNMG431FN KCP05	B157
3751495	WNMG432FN KCP05	B157
3751498	CCMT3252LF KCP05	B191
3751499	DCMT3251LF KCP05	B225
3751500	CNMG432MN KCP05	B50
3751501	CNMG433MN KCP05	B50
3751505	TNMG332MN KCP05	B124
3751506	WNMG432MN KCP05	B159
3751507	CNMG432MW KCP05	B52
3751508	WNMG433MW KCP05	B160
3751509	CNMG432RN KCP05	B53
3751511	CNMG432RP KCP05	B53
3751512	CNMM432RP KCP05	B56
3751519	CNMG643 KCP25	B47
3751520	CNMG644 KCP25	B47
3751521	CNMG866 KCP25	B47
3751522	RNMG64 KCP25	B97
3751546	SNMG866 KCP25	B100
3751547	TNMG666 KCP25	B122
3751548	RCMT0602M0 KCP25	B240
3751549	RCMT0803M0 KCP25	B240
3751550	RCMT10T3M0 KCP25	B240
3751551	RCMT1605M0 KCP25	B240
3751552	RCMT2006M0 KCP25	B240
3751553	RCMT215 KCP25	B240
3751554	RCMT325 KCP25	B240
3751555	CNMG432CT KCP25	B48
3751556	CNMG433CT KCP25	B48
3751557	DNMG431CT KCP25	B79
3751558	DNMG432CT KCP25	B79
3751559	DNMG442CT KCP25	B79
3751560	DNMG443CT KCP25	B79
3751561	CCMT2151FW KCP25	B190
3751562	CCMT2152FW KCP25	B190
3751563	CCMT3251FW KCP25	B190
3751564	CCMT3252FW KCP25	B190
3751566	CPMT2152FW KCP25	B206
3751567	CPMT3251FW KCP25	B206
3751568	CPMT3252FW KCP25	B206
3751569	DCMT3251FW KCP25	B225
3751570	DCMT3252FW KCP25	B225
3751571	DPMT2151FW KCP25	B232
3751575	CCMT2152LF KCP25	B191
3751576	CCMT432LF KCP25	B191
3751577	CPMT2151LF KCP25	B207
3751578	CPMT2152LF KCP25	B207
3751579	CPMT3251LF KCP25	B207
3751580	CPMT3252LF KCP25	B207
3751581	DCMT2151LF KCP25	B225
3751582	DCMT3252LF KCP25	B225
3751583	DCMT3253LF KCP25	B225
3751585	DCMT432LF KCP25	B225
3751586	DPMT2151LF KCP25	B232
3751587	DPMT3251LF KCP25	B232
3751588	DPMT3252LF KCP25	B232
3751589	SCMT3251LF KCP25	B246
3751590	SCMT3252LF KCP25	B246
3751591	SCMT431LF KCP25	B246
3751592	SCMT432LF KCP25	B246
3751594	SPMT3251LF KCP25	B252
3751595	SPMT3252LF KCP25	B252
3751596	TCMT2151LF KCP25	B257
3751597	TCMT2152LF KCP25	B257
3751598	TCMT3251LF KCP25	B257
3751599	TCMT3252LF KCP25	B257
3751600	TCMT3253LF KCP25	B257
3751601	TCMT432LF KCP25	B257
3751602	TPMT18151LF KCP25	B268
3751603	TPMT2151LF KCP25	B268
3751604	TPMT2152LF KCP25	B268
3751605	TPMT3251LF KCP25	B268
3751606	TPMT3252LF KCP25	B268
3751607	VBMT221LF KCP25	B281
3751608	VBMT222LF KCP25	B281
3751609	VBMT331LF KCP25	B281
3751610	VBMT332LF KCP25	B281
3751611	WPMT3251LF KCP25	B288
3751615	CCMT3252MW KCP25	B192
3751616	CCMT431MW KCP25	B192
3751617	CCMT432MW KCP25	B192
3751618	CNMG433MW KCP25	B52
3751620	CPMT3252MW KCP25	B208
3751622	DCMT3252MW KCP25	B226
3751633	DNMG432MW KCP25	B82
3751635	DNMG442MW KCP25	B82
3751636	DNMG443MW KCP25	B82
3751637	SNMG432MW KCP25	B104
3751639	TNMG332MW KCP25	B126
3751640	TNMG333MW KCP25	B126
3751641	WNMG332MW KCP25	B160
3751643	WNMG432MW KCP25	B160
3751644	CNMG431RP KCP25	B53
3751645	CNMG433RP KCP25	B53
3751646	CNMG434RP KCP25	B53
3751647	CNMG542RP KCP25	B53
3751648	CNMG543RP KCP25	B53
3751649	CNMG544RP KCP25	B53
3751650	CNMG643RP KCP25	B53
3751652	CNMM866RP KCP25	B56
3751655	DNMG432RP KCP25	B84
3751656	DNMG433RP KCP25	B84
3751657	DNMG442RP KCP25	B84
3751658	DNMG443RP KCP25	B84
3751659	DNMG444RP KCP25	B84
3751661	RCGT1204M0RP KCP25	B239
3751673	RCMT1204M0RP KCP25	B242
3751674	RCMT1606M0RP KCP25	B242
3751675	RCMT2006M0RP KCP25	B242
3751677	RCMX2507M0RP KCP25	B242
3751679	SNMG432RP KCP25	B105
3751680	SNMG433RP KCP25	B105
3751681	SNMG543RP KCP25	B105
3751682	SNMG544RP KCP25	B105
3751685	SNMM856RP KCP25	B107
3751686	SNMM866RP KCP25	B107
3751687	TNMG332RP KCP25	B127
3751688	TNMG333RP KCP25	B127
3751689	TNMG432RP KCP25	B127
3751692	TNMG543RP KCP25	B127
3751694	TNMG666RP KCP25	B127
3751695	VNMG332RP KCP25	B148
3751696	VNMG333RP KCP25	B148
3751697	WNMG332RP KCP25	B161
3751698	WNMG333RP KCP25	B161
3751699	WNMG432RP KCP25	B161
3751700	WNMG433RP KCP25	B161
3751701	WNMG434RP KCP25	B161
3751702	CCMT2151UF KCP25	B192
3751703	CCMT3251UF KCP25	B192
3751705	CPMT2151UF KCP25	B208
3751706	CPMT3251UF KCP25	B208
3751707	DCMT2151UF KCP25	B226
3751710	DCMT3252UF KCP25	B226
3751711	DPMT2151UF KCP25	B233
3751712	TCMT2151UF KCP25	B258
3751714	TCMT3252UF KCP25	B258
3751715	CNMM432RM KCP25	B55
3751716	CNMM433RM KCP25	B55
3751718	CNMM543RM KCP25	B55
3751719	CNMM544RM KCP25	B55
3751721	CNMM643RM KCP25	B55
3751722	CNMM644RM KCP25	B55
3751733	CNMM646RM KCP25	B55
3751734	DNMM432RM KCP25	B85
3751737	DNMM443RM KCP25	B85
3751738	DNMM444RM KCP25	B85
3751739	SNMM432RM KCP25	B107
3751741	SNMM433RM KCP25	B107
3751743	SNMM543RM KCP25	B107
3751744	SNMM544RM KCP25	B107
3751745	SNMM643RM KCP25	B107
3751746	SNMM644RM KCP25	B107
3751747	SNMM646RM KCP25	B107
3751748	TNMM332RM KCP25	B128
3751749	TNMM333RM KCP25	B128
3751751	TNMM433RM KCP25	B128
3751753	TNMM543RM KCP25	B128
3751754	TNMM544RM KCP25	B128
3751755	CNMG432RN KCP25	B53
3751756	CNMG434RN KCP25	B53
3751757	CNMG432RP KCP25	B53
3751759	CNMM433RP KCP25	B56
3751760	CNMM434RP KCP25	B56
3751762	CNMM543RP KCP25	B56
3751763	CNMM544RP KCP25	B56
3751764	CNMM643RP KCP25	B56
3751765	CNMM644RP KCP25	B56
3751766	CNMM646RP KCP25	B56
3751767	DNMM442RP KCP25	B85
3751768	DNMM443RP KCP25	B85
3751769	DNMM444RP KCP25	B85
3751770	SNMM432RP KCP25	B107
3751771	SNMM433RP KCP25	B107
3751772	SNMM543RP KCP25	B107
3751773	SNMM643RP KCP25	B107
3751775	SNMM646RP KCP25	B107
3751777	TNMM433RP KCP25	B129
3751805	RNMG64 KCP40	B97
3751808	SNMG644 KCP40	B100
3751809	SNMG866 KCP40	B100
3751810	TNMG666 KCP40	B122
3751811	CNMG432MN KCP40	B50
3751812	CNMG433MN KCP40	B50
3751814	DNMG432MN KCP40	B81
3751816	DNMG442MN KCP40	B81
3751818	SNMG432MN KCP40	B102
3751819	SNMG433MN KCP40	B102
3751823	TNMG333MN KCP40	B124
3751824	TNMG432MN KCP40	B124
3751826	WNMG432MN KCP40	B159
3751828	CNMG432RP KCP40	B53
3751829	CNMG433RP KCP40	B53
3751830	CNMG543RP KCP40	B53
3751833	CNMM432RP KCP40	B56
3751837	CNMM543RP KCP40	B56
3751847	SNMG433RP KCP40	B105
3751848	SNMG543RP KCP40	B105
3751850	SNMG644RP KCP40	B105
3751854	SNMM643RP KCP40	B107
3751855	SNMM644RP KCP40	B107
3751856	SNMM856RP KCP40	B107
3751858	TNMG433RP KCP40	B127
3751859	TNMG666RP KCP40	B127
3751862	CNMG432RP KCK05	B53
3751873	CNMG431UN KCK05	B54
3751874	CNMG432UN KCK05	B54
3751875	CNMG433UN KCK05	B54
3751882	CNMG644UN KCK05	B54
3751896	CNMA432 KCK05	B47
3751898	CNMA433 KCK05	B47
3751899	CNMA434 KCK05	B47
3751906	CNMA643 KCK05	B47
3751908	TNMG332UN KCK05	B127
3751909	DNMA332 KCK05	B78
3751910	DNMA432 KCK05	B78
3751911	TNMG333UN KCK05	B127
3751912	DNMA433 KCK05	B78
3751915	DNMA442 KCK05	B78
3751931	TNMA432 KCK05	B122
3751934	VNMA332 KCK05	B145
3751938	WNMA432 KCK05	B157
3751944	CNMG322FN KCK05	B49
3751945	CNMG431FN KCK05	B49
3751946	CNMG432FN KCK05	B49
3751950	DNMG331FN KCK05	B79
3751951	WNMG433UN KCK05	B162
3751952	DNMG332FN KCK05	B79
3751955	DNMG431FN KCK05	B79
3751956	DNMG432FN KCK05	B79
3751957	DNMG432UN KCK05	B84

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3751958	DNMG433FN KCK05	B79
3751959	DNMG441FN KCK05	B79
3751960	DNMG442FN KCK05	B79
3751961	DNMG443FN KCK05	B79
3751963	SNMG322FN KCK05	B101
3751964	SNMG431FN KCK05	B101
3751970	TNMG331FN KCK05	B123
3751971	TNMG332FN KCK05	B123
3751972	TNMG333FN KCK05	B123
3751974	VNMG331FN KCK05	B146
3751975	VNMG332FN KCK05	B146
3751976	WNMG331FN KCK05	B157
3751978	WNMG431FN KCK05	B157
3751979	WNMG432FN KCK05	B157
3751980	CCMT2151LF KCK05	B191
3751981	CCMT3251LF KCK05	B191
3751982	CCMT3252LF KCK05	B191
3751985	DCMT3251LF KCK05	B225
3751986	CCMT2152LF KCK15	B191
3751987	CCMT432LF KCK15	B191
3751988	CPMT2151LF KCK15	B207
3751989	CPMT2152LF KCK15	B207
3751991	CPMT3252LF KCK15	B207
3751992	DCMT3252LF KCK15	B225
3752013	SCMT3252LF KCK15	B246
3752014	SCMT432LF KCK15	B246
3752015	SPMT3252LF KCK15	B252
3752016	TCMT2151LF KCK15	B257
3752017	TCMT2152LF KCK15	B257
3752018	TCMT3251LF KCK15	B257
3752019	TCMT3252LF KCK15	B257
3752020	TCMT3253LF KCK15	B257
3752021	TPMT18151LF KCK15	B268
3752024	TPMT3251LF KCK15	B268
3752025	TPMT3252LF KCK15	B268
3752026	VBMT331LF KCK15	B281
3752027	VBMT332LF KCK15	B281
3752028	CCMT2151MF KCK15	B191
3752029	CCMT3251MF KCK15	B191
3752030	CCMT3253MF KCK15	B191
3752031	CCMT433MF KCK15	B191
3752032	CPMT2152MF KCK15	B207
3752033	CPMT3252MF KCK15	B207
3752035	DCMT3251MF KCK15	B226
3752036	DCMT3252MF KCK15	B226
3752037	DCMT3253MF KCK15	B226
3752039	SCMT3252MF KCK15	B247
3752040	SCMT432MF KCK15	B247
3752041	SCMT433MF KCK15	B247
3752042	SPMT3252MF KCK15	B253
3752043	SPMT432MF KCK15	B253
3752044	TCMT2152MF KCK15	B258
3752045	TCMT3252MF KCK15	B258
3752047	TPMT2152MF KCK15	B268
3752048	TPMT3252MF KCK15	B268
3752049	TPMT3253MF KCK15	B268
3752050	CNMG433RP KCK15	B53
3752052	CNMG543RP KCK15	B53
3752053	CNMG643RP KCK15	B53
3752057	DNMG443RP KCK15	B84
3752058	RCMT1204M0RP KCK15	B242
3752059	RCMT1606M0RP KCK15	B242
3752061	SNMG433RP KCK15	B105
3752066	TNMG434RP KCK15	B127
3752067	VNMG332RP KCK15	B148
3752068	VNMG333RP KCK15	B148
3752069	WNMG432RP KCK15	B161
3752070	WNMG433RP KCK15	B161
3752072	CCMT2152LF KCK05	B191
3752074	CPMT2151LF KCK05	B207
3752075	CPMT2152LF KCK05	B207
3752076	CPMT3251LF KCK05	B207
3752077	CPMT3252LF KCK05	B207
3752079	DCMT3252LF KCK05	B225
3752083	DPMT2151LF KCK05	B232
3752084	DPMT3251LF KCK05	B232
3752086	SCMT3251LF KCK05	B246
3752087	SCMT3252LF KCK05	B246
3752089	SCMT432LF KCK05	B246
3752093	TCMT2151LF KCK05	B257
3752094	TCMT2152LF KCK05	B257
3752095	TCMT3251LF KCK05	B257
3752099	TPMT18151LF KCK05	B268
3752102	TPMT3251LF KCK05	B268
3752103	TPMT3252LF KCK05	B268
3752106	VBMT221LF KCK05	B281
3752107	VBMT222LF KCK05	B281
3752109	VBMT332LF KCK05	B281
3752110	VBMT333LF KCK05	B281
3752113	WPMT3252LF KCK05	B288
3752114	CNMG433RP KCK05	B53
3752115	CNMG543RP KCK05	B53
3752117	DNMG432RP KCK05	B84
3752119	DNMG443RP KCK05	B84
3752121	SNMG433RP KCK05	B105
3752122	TNMG332RP KCK05	B127
3752124	WNMG432RP KCK05	B161
3752125	WNMG433RP KCK05	B161
3752127	CNMA431 KCK15	B47
3752128	CNMA432 KCK15	B47
3752129	CNMA433 KCK15	B47
3752130	CNMA434 KCK15	B47
3752131	CNMA542 KCK15	B47
3752132	CNMA543 KCK15	B47
3752143	CNMA544 KCK15	B47
3752144	CNMA643 KCK15	B47
3752145	DNMA432 KCK15	B78
3752146	DNMA433 KCK15	B78
3752147	DNMA442 KCK15	B78
3752152	SNMA433 KCK15	B100
3752157	TNMA332 KCK15	B122
3752158	TNMA333 KCK15	B122
3752159	TNMA334 KCK15	B122
3752163	TNMA544 KCK15	B122
3752164	VNMA332 KCK15	B145
3752165	WNMA332 KCK15	B157
3752167	WNMA432 KCK15	B157
3752168	WNMA433 KCK15	B157
3752170	CCMT2151LF KCK15	B191
3752171	CCMT3251LF KCK15	B191
3752172	CCMT3252LF KCK15	B191
3752173	DCMT3251LF KCK15	B225
3752174	CCMT3252MF KCK15	B191
3752175	CCMT432MF KCK15	B191
3752176	CNMG432RP KCK15	B53
3752177	CNMG431UN KCK15	B54
3752178	CNMG432UN KCK15	B54
3752179	CNMG433UN KCK15	B54
3752181	CNMG542UN KCK15	B54
3752182	CNMG543UN KCK15	B54
3752183	CNMG544UN KCK15	B54
3752184	CNMG642UN KCK15	B54
3752185	CNMG643UN KCK15	B54
3752186	CNMG644UN KCK15	B54
3752187	DNMG332UN KCK15	B84
3752188	DNMG333UN KCK15	B84
3752189	DNMG432UN KCK15	B84
3752192	DNMG442UN KCK15	B84
3752193	DNMG443UN KCK15	B84
3752196	SNMG432UN KCK15	B106
3752200	SNMG544UN KCK15	B106
3752201	SNMG643UN KCK15	B106
3752203	TNMG332UN KCK15	B127
3752207	TNMG433UN KCK15	B127
3752209	VNMG331UN KCK15	B148
3752210	VNMG332UN KCK15	B148
3752211	WNMG332UN KCK15	B162
3752213	WNMG431UN KCK15	B162
3752214	WNMG432UN KCK15	B162
3752215	WNMG433UN KCK15	B162
3753009	B291A05600YPL KC7315	G88
3753162	DNMG331FF KCP10	B79
3753203	DNMG432FF KCP10	B79
3753206	WNMG331FF KCP10	B157
3753207	WNMG332FF KCP10	B157
3753208	WNMG432FF KCP10	B157
3753209	CNMG321FN KCP10	B49
3753210	CNMG322FN KCP10	B49
3753211	CNMG431FN KCP10	B49
3753212	CNMG432FN KCP10	B49
3753214	CNMG434FN KCP10	B49
3753215	DNMG331FN KCP10	B79
3753216	DNMG332FN KCP10	B79
3753218	DNMG431FN KCP10	B79
3753219	DNMG432FN KCP10	B79
3753221	DNMG441FN KCP10	B79
3753222	DNMG442FN KCP10	B79
3753223	DNMG443FN KCP10	B79
3753225	SNMG322FN KCP10	B101
3753227	SNMG432FN KCP10	B101
3753228	SNMG433FN KCP10	B101
3753229	SNMG434FN KCP10	B101
3753231	TNMG222FN KCP10	B123
3753232	TNMG331FN KCP10	B123
3753233	TNMG332FN KCP10	B123
3753238	VNMG331FN KCP10	B146
3753239	VNMG332FN KCP10	B146
3753240	WNMG331FN KCP10	B157
3753241	WNMG332FN KCP10	B157
3753242	WNMG431FN KCP10	B157
3753243	WNMG432FN KCP10	B157
3753244	CCMT2151LF KCP10	B191
3753245	CCMT3251LF KCP10	B191
3753246	CCMT3252LF KCP10	B191
3753247	CCMT431LF KCP10	B191
3753248	CCMT433LF KCP10	B191
3753249	DCMT3251LF KCP10	B225
3753251	CCMT432MF KCP10	B191
3753252	CNMG432MN KCP10	B50
3753253	CNMG433MN KCP10	B50
3753254	DNMG432MN KCP10	B81
3753255	DNMG442MN KCP10	B81
3753256	TNMG332MN KCP10	B124
3753257	WNMG432MN KCP10	B159
3753288	CNMG433RN KCP10	B53
3753292	CNMG543RN KCP10	B53
3753293	CNMG544RN KCP10	B53
3753295	CNMG643RN KCP10	B53
3753298	DNMG432RN KCP10	B83
3753301	DNMG442RN KCP10	B83
3753302	DNMG443RN KCP10	B83
3753303	DNMG444RN KCP10	B83
3753307	CNMG432MW KCP10	B52
3753308	RNMG43RN KCP10	B97
3753311	RNMG86RN KCP10	B97
3753312	SNMG333RN KCP10	B105
3753313	SNMG432RN KCP10	B105
3753314	WNMG433MW KCP10	B160
3753315	SNMG433RN KCP10	B105
3753319	CNMM646RH KCP10	B55
3753321	SNMG542RN KCP10	B105
3753322	SNMM644RH KCP10	B106
3753323	SNMM646RH KCP10	B106
3753325	CNMM432RM KCP10	B55
3753326	CNMM433RM KCP10	B55
3753328	CNMM543RM KCP10	B55
3753329	CNMM544RM KCP10	B55
3753331	CNMM546RM KCP10	B55
3753332	CNMM643RM KCP10	B55
3753333	CNMM644RM KCP10	B55
3753334	SNMG644RN KCP10	B105
3753335	DNMM442RM KCP10	B85
3753336	DNMM443RM KCP10	B85
3753337	TNMG332RN KCP10	B126
3753339	SNMM543RM KCP10	B107
3753341	SNMM544RM KCP10	B107
3753342	SNMM643RM KCP10	B107
3753343	SNMM644RM KCP10	B107
3753347	TNMG433RN KCP10	B126
3753348	CNMG432RN KCP10	B53
3753349	CNMG434RN KCP10	B53
3753351	CNMG432RP KCP10	B53
3753352	CNMM432RP KCP10	B56
3753354	TNMG542RN KCP10	B126
3753356	CNMM543RP KCP10	B56
3753357	TNMG543RN KCP10	B126
3753358	CNMM544RP KCP10	B56
3753360	CNMM644RP KCP10	B56
3753361	TNMG544RN KCP10	B126
3753364	DNMM442RP KCP10	B85
3753367	VNMG332RN KCP10	B148
3753368	SNMM544RP KCP10	B107
3753371	VNMG333RN KCP10	B148
3753372	TNMM432RP KCP10	B129
3753374	VNMG432RN KCP10	B148
3753375	TNMM434RP KCP10	B129
3753376	VNMG433RN KCP10	B148
3753379	WNMG432RN KCP10	B161
3753380	WNMG433RN KCP10	B161
3753381	WNMG434RN KCP10	B161
3753386	EP1008SGD KC520M	T37, T47
3753387	EP1012SGD KC520M	T37, T47
3753389	CCMT2151MF KCP25	B191
3753390	CCMT3251MF KCP25	B191
3753391	CCMT3253MF KCP25	B191
3753413	CCMT433MF KCP25	B191
3753415	CPMT3252MF KCP25	B207
3753416	CPMT3253MF KCP25	B207
3753417	EC1008ELD KC510M	T36, T45
3753418	DCMT3251MF KCP25	B226
3753419	DCMT3252MF KCP25	B226
3753421	DPMT3252MF KCP25	B232
3753422	SCMT3252MF KCP25	B247
3753423	SCMT432MF KCP25	B247
3753424	SCMT433MF KCP25	B247
3753425	SPMT3252MF KCP25	B253
3753426	SPMT432MF KCP25	B253
3753427	TCMT2152MF KCP25	B258
3753428	TCMT3252MF KCP25	B258
3753430	TPMT2152MF KCP25	B268
3753431	TPMT3252MF KCP25	B268
3753432	TPMT3253MF KCP25	B268
3753434	CNMG322MN KCP25	B50
3753435	CNMG323MN KCP25	B50
3753436	CNMG431MN KCP25	B50
3753437	CNMG434MN KCP25	B50
3753438	CNMG542MN KCP25	B50
3753439	CNMG543MN KCP25	B50
3753440	CNMG544MN KCP25	B50
3753441	CNMG642MN KCP25	B50
3753442	CNMG643MN KCP25	B50
3753443	CNMG644MN KCP25	B50
3753444	DNMG331MN KCP25	B81
3753445	DNMG332MN KCP25	B81
3753446	DNMG333MN KCP25	B81
3753447	DNMG431MN KCP25	B81
3753448	DNMG433MN KCP25	B81
3753450	DNMG441MN KCP25	B81
3753451	DNMG443MN KCP25	B81
3753453	SNMG322MN KCP25	B102
3753454	SNMG323MN KCP25	B102
3753456	SNMG432MN KCP25	B102
3753457	SNMG433MN KCP25	B102
3753458	SNMG434MN KCP25	B102
3753459	SNMG543MN KCP25	B102
3753462	SNMG644MN KCP25	B102
3753463	TNMG331MN KCP25	B124
3753464	TNMG333MN KCP25	B124
3753465	TNMG431MN KCP25	B124
3753466	TNMG432MN KCP25	B124
3753467	TNMG433MN KCP25	B124
3753469	VNMG331MN KCP25	B146
3753470	VNMG332MN KCP25	B146
3753471	VNMG333MN KCP25	B146
3753472	WNMG331MN KCP25	B159
3753473	WNMG332MN KCP25	B159
3753474	WNMG333MN KCP25	B159
3753475	WNMG433MN KCP25	B159
3753476	WNMG434MN KCP25	B159
3753477	CNMP431K KCP25	B57
3753478	CNMP432K KCP25	B57
3753481	DNMP431K KCP25	B86
3753482	DNMP432K KCP25	B86
3753483	DNMP433K KCP25	B86
3753484	SNMP432K KCP25	B108
3753487	TNMP332K KCP25	B129
3753489	TNMP432K KCP25	B129
3753491	VNMP331K KCP25	B149
3753494	VNMP332K KCP25	B149
3753502	SNMG866RM KCP25	B104
3753504	CNMG433RN KCP25	B53
3753505	CNMG542RN KCP25	B53
3753506	CNMG543RN KCP25	B53
3753507	CNMG544RN KCP25	B53
3753508	CNMG642RN KCP25	B53
3753509	CNMG643RN KCP25	B53
3753510	CNMG644RN KCP25	B53
3753511	CNMG646RN KCP25	B53

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3753512	DNMG432RN KCP25	B83
3753513	DNMG433RN KCP25	B83
3753514	DNMG434RN KCP25	B83
3753515	DNMG442RN KCP25	B83
3753516	DNMG443RN KCP25	B83
3753517	DNMG444RN KCP25	B83
3753518	DNMG542RN KCP25	B83
3753519	DNMG543RN KCP25	B83
3753520	RNMG32RN KCP25	B97
3753523	RNMG64RN KCP25	B97
3753525	RNMG86RN KCP25	B97
3753526	SNMG432RN KCP25	B105
3753527	SNMG433RN KCP25	B105
3753528	SNMG434RN KCP25	B105
3753529	SNMG542RN KCP25	B105
3753530	SNMG543RN KCP25	B105
3753531	SNMG544RN KCP25	B105
3753543	SNMG643RN KCP25	B105
3753544	SNMG644RN KCP25	B105
3753545	SNMG646RN KCP25	B105
3753546	TNMG332RN KCP25	B126
3753547	TNMG333RN KCP25	B126
3753548	TNMG432RN KCP25	B126
3753549	TNMG433RN KCP25	B126
3753550	TNMG434RN KCP25	B126
3753551	TNMG542RN KCP25	B126
3753552	TNMG543RN KCP25	B126
3753553	TNMG544RN KCP25	B126
3753554	TNMG666RN KCP25	B126
3753555	VNMG332RN KCP25	B148
3753556	VNMG333RN KCP25	B148
3753557	VNMG432RN KCP25	B148
3753558	VNMG433RN KCP25	B148
3753559	WNMG332RN KCP25	B161
3753560	WNMG333RN KCP25	B161
3753561	WNMG432RN KCP25	B161
3753562	WNMG433RN KCP25	B161
3753563	WNMG434RN KCP25	B161
3753592	EP1004EHD KC520M	T36, T46
3753593	EP1008EHD KC520M	T36, T46
3753594	EP1012EHD KC520M	T36, T46
3753608	CNMG433RN KCP30	B53
3753609	CNMG542RN KCP30	B53
3753610	CNMG543RN KCP30	B53
3753611	CNMG643RN KCP30	B53
3753612	CNMG644RN KCP30	B53
3753633	CNMG646RN KCP30	B53
3753636	DNMG442RN KCP30	B83
3753637	DNMG443RN KCP30	B83
3753639	DNMG542RN KCP30	B83
3753640	DNMG543RN KCP30	B83
3753641	RNMG43RN KCP30	B97
3753642	RNMG54RN KCP30	B97
3753650	SNMG642RN KCP30	B105
3753653	SNMG646RN KCP30	B105
3753654	TNMG332RN KCP30	B126
3753655	TNMG333RN KCP30	B126
3753656	TNMG432RN KCP30	B126
3753658	TNMG542RN KCP30	B126
3753662	VNMG432RN KCP30	B148
3753663	VNMG433RN KCP30	B148
3753664	WNMG432RN KCP30	B161
3753665	WNMG433RN KCP30	B161
3753699	CNMG431FN KCP25	B49
3753700	CNMG432FN KCP25	B49
3753701	CNMG433FN KCP25	B49
3753702	CNMG434FN KCP25	B49
3753705	DNMG431FN KCP25	B79
3753706	DNMG432FN KCP25	B79
3753707	DNMG441FN KCP25	B79
3753708	DNMG442FN KCP25	B79
3753709	DNMG443FN KCP25	B79
3753713	SNMG433FN KCP25	B101
3753714	TNMG221FN KCP25	B123
3753715	TNMG222FN KCP25	B123
3753716	TNMG331FN KCP25	B123
3753717	TNMG332FN KCP25	B123
3753718	TNMG333FN KCP25	B123
3753719	TNMG431FN KCP25	B123
3753720	TNMG432FN KCP25	B123
3753721	TNMG433FN KCP25	B123
3753722	VNMG331FN KCP25	B146
3753723	VNMG332FN KCP25	B146
3753724	WNMG332FN KCP25	B157
3753726	WNMG432FN KCP25	B157
3753727	CCMT2151LF KCP25	B191
3753728	CCMT3251LF KCP25	B191
3753729	CCMT3252LF KCP25	B191
3753730	CCMT431LF KCP25	B191
3753732	DCMT3251LF KCP25	B225
3753733	CCMT3252MF KCP25	B191
3753734	CCMT432MF KCP25	B191
3753735	RCMT0602M0 KCP30	B240
3753737	RCMT10T3M0 KCP30	B240
3753739	CCMT2152LF KCP30	B191
3753742	CPMT2152LF KCP30	B207
3753743	CPMT3251LF KCP30	B207
3753744	CPMT3252LF KCP30	B207
3753745	DCMT2151LF KCP30	B225
3753750	SCMT3251LF KCP30	B246
3753751	SCMT3252LF KCP30	B246
3753752	SCMT431LF KCP30	B246
3753753	SCMT432LF KCP30	B246
3753754	TCMT2151LF KCP30	B257
3753755	TCMT2152LF KCP30	B257
3753757	TCMT3252LF KCP30	B257
3753760	VBMT331LF KCP30	B281
3753761	VBMT332LF KCP30	B281
3753762	CCMT2151MF KCP30	B191
3753763	CCMT3251MF KCP30	B191
3753765	DCMT3251MF KCP30	B226
3753766	DCMT3252MF KCP30	B226
3753767	SCMT432MF KCP30	B247
3753768	SPMT432MF KCP30	B253
3753769	TCMT3252MF KCP30	B258
3753770	TPMT3252MF KCP30	B268
3753771	CNMG321MN KCP30	B50
3753772	CNMG322MN KCP30	B50
3753773	CNMG431MN KCP30	B50
3753774	CNMG542MN KCP30	B50
3753775	CNMG543MN KCP30	B50
3753776	CNMG642MN KCP30	B50
3753777	CNMG643MN KCP30	B50
3753778	CNMG644MN KCP30	B50
3753779	DNMG331MN KCP30	B81
3753780	DNMG332MN KCP30	B81
3753781	DNMG431MN KCP30	B81
3753782	DNMG441MN KCP30	B81
3753783	DNMG543MN KCP30	B81
3753784	SNMG322MN KCP30	B102
3753786	SNMG432MN KCP30	B102
3753787	SNMG433MN KCP30	B102
3753789	TNMG331MN KCP30	B124
3753791	TNMG431MN KCP30	B124
3753793	TNMG433MN KCP30	B124
3753794	VNMG331MN KCP30	B146
3753795	VNMG332MN KCP30	B146
3753796	VNMG333MN KCP30	B146
3753797	WNMG332MN KCP30	B159
3753798	CNMG433RP KCP30	B53
3753799	CNMG543RP KCP30	B53
3753801	CNMG643RP KCP30	B53
3753802	CNMG644RP KCP30	B53
3753804	DNMG433RP KCP30	B84
3753805	DNMG442RP KCP30	B84
3753810	RCMX2507M0RP KCP30	B242
3753812	SNMG433RP KCP30	B105
3753816	TNMG332RP KCP30	B127
3753819	TNMG438RP KCP30	B127
3753821	CNMG432MN KCP25	B50
3753822	WNMG433RP KCP30	B161
3753823	CNMG433MN KCP25	B50
3753825	DNMG432MN KCP25	B81
3753827	DNMG442MN KCP25	B81
3753828	TNMG332MN KCP25	B124
3753829	WNMG432MN KCP25	B159
3753830	CNMG432MW KCP25	B52
3753831	WNMG433MW KCP25	B160
3753832	CNMM643RH KCP25	B55
3753834	CNMM646RH KCP25	B55
3753836	SNMM644RH KCP25	B106
3753837	SNMM646RH KCP25	B106
3753867	CCMT3252MW KCK20	B192
3753871	CPMT3252MW KCK20	B208
3753875	CNMG433RP KCK20	B53
3753877	CNMG542RP KCK20	B53
3753878	CNMG543RP KCK20	B53
3753879	CNMG544RP KCK20	B53
3753884	DNMG432RP KCK20	B84
3753887	DNMG442RP KCK20	B84
3753888	DNMG443RP KCK20	B84
3753891	SNMG432RP KCK20	B105
3753892	SNMG433RP KCK20	B105
3753897	SNMG644RP KCK20	B105
3753898	TNMG332RP KCK20	B127
3753899	TNMG333RP KCK20	B127
3753904	TNMG438RP KCK20	B127
3753909	VNMG333RP KCK20	B148
3753912	WNMG432RP KCK20	B161
3753923	WNMG433RP KCK20	B161
3753926	CCMT2152FW KCK20	B190
3753929	CCMT3252FW KCK20	B190
3753931	CPMT2151FW KCK20	B206
3753932	CPMT2152FW KCK20	B206
3753934	CPMT3252FW KCK20	B206
3753935	DCMT3251FW KCK20	B225
3753981	CNMG432RN KCP40	B53
3753982	CNMG433RN KCP40	B53
3753993	CNMG434RN KCP40	B53
3753994	CNMG543RN KCP40	B53
3753996	CNMG642RN KCP40	B53
3753997	CNMG643RN KCP40	B53
3753998	CNMG644RN KCP40	B53
3753999	DNMG432RN KCP40	B83
3754004	SNMG433RN KCP40	B105
3754005	SNMG434RN KCP40	B105
3754006	SNMG543RN KCP40	B105
3754008	SNMG643RN KCP40	B105
3754010	TNMG432RN KCP40	B126
3754012	TNMG543RN KCP40	B126
3754014	WNMG432RN KCP40	B148
3754015	WNMG432RN KCP40	B161
3754059	RCMT1204M0 KCP30	B240
3754060	CCMT2151LF KCP30	B191
3754061	CCMT3251LF KCP30	B191
3754062	CCMT3252LF KCP30	B191
3754343	CCMT431LF KCP30	B191
3754344	DCMT3251LF KCP30	B225
3754345	CCMT3252MF KCP30	B191
3754346	CCMT432MF KCP30	B191
3754347	CNMG432MN KCP30	B50
3754349	DNMG432MN KCP30	B81
3754351	TNMG332MN KCP30	B124
3754352	WNMG432MN KCP30	B159
3754363	CNMG432RN KCP30	B53
3754365	CNMG432RP KCP30	B53
3754367	CNMM433RP KCP30	B56
3754374	CNMM644RH KCP30	B55
3754375	CNMM646RH KCP30	B55
3754376	SNMM643RH KCP30	B106
3754377	SNMM644RH KCP30	B106
3754378	SNMM646RH KCP30	B106
3754379	CNMM432RM KCP30	B55
3754383	CNMM544RM KCP30	B55
3754385	CNMM644RM KCP30	B55
3754386	CNMM646RM KCP30	B55
3754388	DNMM442RM KCP30	B85
3754396	TNMM332RM KCP30	B128
3754398	TNMM433RM KCP30	B128
3754399	TNMM543RM KCP30	B128
3754815	CNMM643RH KCP40	B55
3754818	CNMM866RH KCP40	B55
3754819	SNMM644RH KCP40	B106
3754821	SNMM856RH KCP40	B106
3754822	SNMM866RH KCP40	B106
3754856	CNMM643RM KCP40	B55
3754858	CNMM866RM KCP40	B55
3754861	DNMM443RM KCP40	B85
3754863	SNMM643RM KCP40	B107
3754864	SNMM866RM KCP40	B107
3755331	WNMG431FF KCP10	B157
3755332	CNMM866RH KCP10	B55
3755363	LNUX191940RRH KCP10	E57
3755366	RCMT2006M0RH KCP10	B241
3755367	RCMX2507M0RH KCP10	B241
3755369	SNMM856RH KCP10	B106
3755370	SNMM866RH KCP10	B106
3755371	CNMM866RM KCP10	B55
3755372	SNMM856RM KCP10	B107
3755475	RCMT1605M0 KCK20	B240
3755479	RCMT43 KCK20	B240
3755481	CCMT432LF KCK20	B191
3755482	CPMT2151LF KCK20	B207
3755484	CPMT3251LF KCK20	B207
3755485	CPMT3252LF KCK20	B207
3755486	DCMT2151LF KCK20	B225
3755487	DCMT3252LF KCK20	B225
3755490	DCMT432LF KCK20	B225
3755491	DPMT2151LF KCK20	B232
3755492	DPMT3251LF KCK20	B232
3755503	DPMT3252LF KCK20	B232
3755504	SCMT3251LF KCK20	B246
3755505	SCMT3252LF KCK20	B246
3755507	SCMT432LF KCK20	B246
3755508	SCMT433LF KCK20	B246
3755509	SPMT3251LF KCK20	B252
3755510	SPMT3252LF KCK20	B252
3755511	TCMT2151LF KCK20	B257
3755512	TCMT2152LF KCK20	B257
3755513	TCMT3251LF KCK20	B257
3755514	TCMT3252LF KCK20	B257
3755515	TCMT3253LF KCK20	B257
3755517	TPMT2151LF KCK20	B268
3755520	TPMT3252LF KCK20	B268
3755522	TPMT432LF KCK20	B268
3755526	VBMT332LF KCK20	B281
3755527	VBMT333LF KCK20	B281
3755528	WPMT2151LF KCK20	B288
3755531	CCMT2151MF KCK20	B191
3755532	CCMT3251MF KCK20	B191
3755533	CCMT3253MF KCK20	B191
3755534	CCMT433MF KCK20	B191
3755535	CPMT2152MF KCK20	B207
3755536	CPMT3252MF KCK20	B207
3755538	DCMT3251MF KCK20	B226
3755539	DCMT3252MF KCK20	B226
3755540	DCMT3253MF KCK20	B226
3755542	SCMT3252MF KCK20	B247
3755543	SCMT432MF KCK20	B247
3755544	SCMT433MF KCK20	B247
3755545	SPMT3252MF KCK20	B253
3755546	SPMT432MF KCK20	B253
3755547	TCMT2152MF KCK20	B258
3755548	TCMT3252MF KCK20	B258
3755549	TCMT3253MF KCK20	B258
3755550	TPMT2152MF KCK20	B268
3755551	TPMT3252MF KCK20	B268
3755552	TPMT3253MF KCK20	B268
3755565	CCMT2151LF KCM15	B191
3755570	DCMT3251LF KCM15	B225
3755593	CNMG432RP KCM15	B53
3755632	CNMM866RH KCP25	B55
3755635	CPMT2151LF KCM15	B207
3755637	CPMT3251LF KCM15	B207
3755638	CPMT3252LF KCM15	B207
3755639	DCMT2151LF KCM15	B225
3755640	DCMT3252LF KCM15	B225
3755648	SCMT432LF KCM15	B246
3755649	TCMT2151LF KCM15	B257
3755650	TCMT2152LF KCM15	B257
3755651	TCMT3251LF KCM15	B257
3755655	TPMT2151LF KCM15	B268
3755657	TPMT3251LF KCM15	B268
3755659	VBMT221LF KCM15	B281
3755661	VBMT331LF KCM15	B281
3755662	VBMT332LF KCM15	B281
3755664	WPMT3252LF KCM15	B288
3755670	CPMT3252MF KCM15	B207
3755672	DCMT3251MF KCM15	B226
3755673	DCMT3252MF KCM15	B226
3755677	SCMT432MF KCM15	B247
3755682	TPMT3252MF KCM15	B268
3755684	CNMG431MP KCM15	B51
3755685	CNMG432MP KCM15	B51
3755686	CNMG433MP KCM15	B51
3755689	CNMG543MP KCM15	B51
3755691	CNMG643MP KCM15	B51
3755693	DNMG332MP KCM15	B81

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3755694	DNMG333MP KCM15	B81
3755699	DNMG442MP KCM15	B81
3755700	DNMG443MP KCM15	B81
3755701	SNMG432MP KCM15	B102
3755702	SNMG433MP KCM15	B102
3755704	SNMG543MP KCM15	B102
3755705	SNMG643MP KCM15	B102
3755706	TNMG331MP KCM15	B124
3755707	TNMG332MP KCM15	B124
3755711	VNMG331MP KCM15	B147
3755712	VNMG332MP KCM15	B147
3755714	WNMG331MP KCM15	B159
3755715	WNMG332MP KCM15	B159
3755716	WNMG432MP KCM15	B159
3755717	WNMG433MP KCM15	B159
3755753	LNUX191940RRH KCP25	E57
3755754	LNUX301940RRH KCP25	E57
3755755	RCMT2006M0RH KCP25	B241
3755756	RCMX2507M0RH KCP25	B241
3755757	RCMX3209M0RH KCP25	B241
3755758	SNMM856RH KCP25	B106
3755760	SNMM866RH KCP25	B106
3755761	CNMM866RM KCP25	B55
3755762	RCMT2006M0RM KCP25	B241
3755763	SNMM856RM KCP25	B107
3755764	SNMM866RM KCP25	B107
3755769	ABDF0625J2AQ K600	P118
3755771	ABDF0625J2BQ K600	P118
3755772	ABDF0625J2BQB K600	P118
3755802	ABDE0250J3AQ K600	P120
3755835	B292A08200YPL KC7315	G89
3755843	ABDF0625J2BQE K600	P118
3755844	ABDF0750J2AQ K600	P118
3755845	ABDF0750J2AQB K600	P118
3755846	ABDF0750J2AQE K600	P118
3755847	ABDF0750J2BQ K600	P119
3755848	ABDF0750J2BQB K600	P118
3755849	ABDF0750J2BQC K600	P118
3755850	ABDF0750J2BQD K600	P119
3755851	ABDF0750J2BQE K600	P119
3755852	ABDF0750J2CQ K600	P119
3755853	ABDF0750J2CQB K600	P119
3755854	ABDF1000J2AQ K600	P119
3755855	ABDF1000J2AQB K600	P119
3755856	ABDF1000J2AQE K600	P119
3755857	ABDF1000J2BQ K600	P119
3755858	ABDF1000J2BQB K600	P119
3755859	ABDF1000J2BQE K600	P119
3755860	ABDF1000J2CQ K600	P119
3755861	ABDF1000J2CQB K600	P119
3755863	ABDF0250J2AQB K600	P118
3755864	ABDF0250J2BQ K600	P118
3755865	ABDF0250J2BQB K600	P118
3755866	ABDF0250J2CQ K600	P118
3755867	ABDF0250J2CQB K600	P118
3755868	ABDF0312J2AQB K600	P118
3755869	ABDF0375J2AQ K600	P118
3755870	ABDF0375J2AQB K600	P118
3755871	ABDF0375J2BQ K600	P118
3755872	ABDF0375J2BQB K600	P118
3755873	ABDF0500J2AQ K600	P118
3755874	ABDF0500J2AQB K600	P118
3755875	ABDF0500J2AQE K600	P118
3755876	ABDF0500J2BQ K600	P118
3755877	ABDF0500J2BQB K600	P118
3755878	ABDF0500J2BQC K600	P118
3755879	ABDF0500J2BQD K600	P118
3755880	ABDF0500J2BQE K600	P118
3755881	ABDF0500J2CQ K600	P118
3755882	ABDF0500J2CQB K600	P118
3755883	ABDF0500J2CQC K600	P118
3755884	ABDF0500J2CQD K600	P118
3755885	ABDF0500J2CQE K600	P118
3755893	ABDE0250J3AQB K600	P120
3755894	ABDE0250J3BQ K600	P120
3755895	ABDE0250J3BQB K600	P120
3755896	ABDE0250J3CQ K600	P120
3755897	ABDE0250J3CQB K600	P120
3755898	ABDE0312J3AQB K600	P120
3755899	ABDE0375J3AQ K600	P120
3755900	ABDE0375J3AQB K600	P120
3755901	ABDE0375J3BQ K600	P120
3755902	ABDE0375J3BQB K600	P120
3755903	ABDE0500J3AQ K600	P120
3755904	ABDE0500J3AQB K600	P120
3755905	ABDE0500J3AQE K600	P120
3755906	ABDE0500J3BQ K600	P120
3755907	ABDE0500J3BQB K600	P120
3755908	ABDE0500J3BQC K600	P120
3755909	ABDE0500J3BQD K600	P120
3755910	ABDE0500J3BQE K600	P120
3755911	ABDE0500J3CQ K600	P120
3755912	ABDE0500J3CQB K600	P120
3755913	ABDE0500J3CQC K600	P120
3755914	ABDE0500J3CQD K600	P120
3755915	ABDE0500J3CQE K600	P120
3755916	ABDE0625J3AQ K600	P120
3755917	ABDE0625J3AQB K600	P120
3755918	ABDE0625J3BQ K600	P120
3755919	ABDE0625J3BQB K600	P120
3755920	ABDE0625J3BQE K600	P120
3755921	ABDE0750J3AQ K600	P120
3755922	ABDE0750J3AQB K600	P120
3755923	ABDE0750J3AQE K600	P120
3755924	ABDE0750J3BQ K600	P121
3755925	ABDE0750J3BQB K600	P121
3755926	ABDE0750J3BQC K600	P121
3755927	ABDE0750J3BQD K600	P121
3755928	ABDE0750J3BQE K600	P121
3755929	ABDE0750J3CQ K600	P121
3755930	ABDE0750J3CQB K600	P121
3755931	ABDE1000J3AQ K600	P121
3755932	ABDE1000J3AQB K600	P121
3755933	ABDE1000J3AQE K600	P121
3755934	ABDE1000J3BQ K600	P121
3755935	ABDE1000J3BQB K600	P121
3755936	ABDE1000J3BQE K600	P121
3755937	ABDE1000J3CQ K600	P121
3755938	ABDE1000J3CQB K600	P121
3757585	WNMA333 KCK20	B157
3757586	CNMG431UN KCK20	B54
3757587	CNMG432UN KCK20	B54
3757588	CNMG433UN KCK20	B54
3757589	CNMG434UN KCK20	B54
3757590	CNMG542UN KCK20	B54
3757591	CNMG543UN KCK20	B54
3757592	CNMG544UN KCK20	B54
3757593	CNMG642UN KCK20	B54
3757594	CNMG643UN KCK20	B54
3757595	CNMG644UN KCK20	B54
3757596	DNMG332UN KCK20	B84
3757597	DNMG333UN KCK20	B84
3757598	DNMG432UN KCK20	B84
3757600	DNMG434UN KCK20	B84
3757601	DNMG442UN KCK20	B84
3757602	DNMG443UN KCK20	B84
3757603	DNMG444UN KCK20	B84
3757604	RNMG43UN KCK20	B97
3757605	SNMG432UN KCK20	B106
3757606	SNMG433UN KCK20	B106
3757607	SNMG434UN KCK20	B106
3757608	SNMG543UN KCK20	B106
3757609	SNMG544UN KCK20	B106
3757610	SNMG643UN KCK20	B106
3757611	SNMG644UN KCK20	B106
3757612	TNMG332UN KCK20	B127
3757613	TNMG333UN KCK20	B127
3757614	TNMG334UN KCK20	B127
3757615	TNMG432UN KCK20	B127
3757616	TNMG433UN KCK20	B127
3757617	TNMG434UN KCK20	B127
3757618	VNMG331UN KCK20	B148
3757619	VNMG332UN KCK20	B148
3757622	WNMG431UN KCK20	B162
3757623	WNMG432UN KCK20	B162
3757624	WNMG433UN KCK20	B162
3757625	WNMG434UN KCK20	B162
3757726	B966A13400 KC7315	G132
3757916	CCMW3252 KCK20	B192
3757917	CCMW432 KCK20	B192
3757918	CCMW433 KCK20	B192
3757919	SCMW3251 KCK20	B248
3757920	SCMW3252 KCK20	B248
3757921	SCMW432 KCK20	B248
3757922	SCMW433 KCK20	B248
3757960	DNMG442RN KCP05	B83
3757961	DNMG443RN KCP05	B83
3758013	WNMG433RN KCP05	B161
3758033	DNMG332RP KCM15	B84
3758035	DNMG432RP KCM15	B84
3758036	DNMG442RP KCM15	B84
3758043	TNMG332RP KCM15	B127
3758046	TNMG543RP KCM15	B127
3758048	VNMG332RP KCM15	B148
3758050	WNMG332RP KCM15	B161
3758051	WNMG432RP KCM15	B161
3758053	WNMG433RP KCM15	B161
3758055	CNMG432UP KCM15	B54
3758056	CNMG433UP KCM15	B54
3758064	DNMG431UP KCM15	B84
3758065	DNMG432UP KCM15	B84
3758068	DNMG442UP KCM15	B84
3758073	SNMG543UP KCM15	B106
3758076	TNMG332UP KCM15	B128
3758080	VNMG331UP KCM15	B148
3758081	VNMG332UP KCM15	B148
3758082	VNMG333UP KCM15	B148
3758084	WNMG432UP KCM15	B162
3758086	RCMT1204M0 KCM25	B240
3758087	CCMT2151LF KCM25	B191
3758088	CCMT3251LF KCM25	B191
3758089	CCMT3252LF KCM25	B191
3758091	CCMT433LF KCM25	B191
3758092	DCMT3251LF KCM25	B225
3758093	CCMT3252MF KCM25	B191
3758094	CCMT432MF KCM25	B191
3758095	CNMG432RP KCM25	B53
3758096	CNMM432RP KCM25	B56
3758099	CNMM544RP KCM25	B56
3758106	SNMM433RP KCM25	B107
3758108	SNMM544RP KCM25	B107
3758110	SNMM644RP KCM25	B107
3758111	SNMM646RP KCM25	B107
3758133	CNMA431 KCK20	B47
3758134	CNMA432 KCK20	B47
3758135	CNMA433 KCK20	B47
3758136	CNMA434 KCK20	B47
3758137	CNMA542 KCK20	B47
3758138	CNMA543 KCK20	B47
3758141	CNMA643 KCK20	B47
3758142	CNMA644 KCK20	B47
3758143	DNMA432 KCK20	B78
3758144	DNMA433 KCK20	B78
3758145	DNMA442 KCK20	B78
3758146	DNMA443 KCK20	B78
3758149	SNMA432 KCK20	B100
3758150	SNMA433 KCK20	B100
3758152	SNMA543 KCK20	B100
3758154	SNMA643 KCK20	B100
3758155	SNMA644 KCK20	B100
3758156	TNMA332 KCK20	B122
3758157	TNMA333 KCK20	B122
3758158	TNMA334 KCK20	B122
3758162	VNMA332 KCK20	B145
3758163	WNMA432 KCK20	B157
3758164	WNMA433 KCK20	B157
3758165	WNMA434 KCK20	B157
3758166	RCMT1204M0 KCK20	B240
3758167	CCMT2151LF KCK20	B191
3758168	CCMT3251LF KCK20	B191
3758169	CCMT3252LF KCK20	B191
3758170	CCMT431LF KCK20	B191
3758172	DCMT3251LF KCK20	B225
3758173	CCMT3252MF KCK20	B191
3758174	CCMT432MF KCK20	B191
3758175	CNMG432RP KCK20	B53
3758783	CNMG431FP KCM15	B49
3758784	CNMG432FP KCM15	B49
3758785	CNMG433FP KCM15	B49
3758786	DNMG331FP KCM15	B80
3758787	DNMG332FP KCM15	B80
3758788	DNMG431FP KCM15	B80
3758789	DNMG432FP KCM15	B80
3758791	DNMG441FP KCM15	B80
3758792	DNMG442FP KCM15	B80
3758794	SNMG431FP KCM15	B101
3758795	SNMG432FP KCM15	B101
3758797	TNMG331FP KCM15	B123
3758798	TNMG332FP KCM15	B123
3758799	TNMG333FP KCM15	B123
3758800	TNMG431FP KCM15	B123
3758801	TNMG432FP KCM15	B123
3758802	VNMG331FP KCM15	B146
3758803	VNMG332FP KCM15	B146
3758804	WNMG331FP KCM15	B158
3758805	WNMG332FP KCM15	B158
3758806	WNMG431FP KCM15	B158
3758807	WNMG432FP KCM15	B158
3758808	WNMG433FP KCM15	B158
3758827	CNMM866RH KCP30	B55
3758828	SNMM856RH KCP30	B106
3758830	SNMM866RH KCP30	B106
3758873	SNMM866RM KCP30	B107
3759083	EC1004FR-PCD KD1410	T34
3759084	EC1008FR-PCD KD1410	T34
3759533	KIPR062RP21229	V156
3759534	KIPR075RP21332	V156
3759535	KIPR100RP32438	V156
3759595	B291A03100YPL KC7315	G88
3759627	B292A03100YPL KC7315	G88
3759628	B291A03175YPL KC7315	G88
3759629	B291A03200YPL KC7315	G88
3759630	B292A03200YPL KC7315	G88
3759654	B291A03300YPL KC7315	G88
3759655	B292A03300YPL KC7315	G88
3759656	B291A03400YPL KC7315	G88
3759657	B292A03400YPL KC7315	G88
3759661	B291A03500YPL KC7315	G88
3759662	B291A03600YPL KC7315	G88
3759713	B292A03600YPL KC7315	G88
3759714	B291A03700YPL KC7315	G88
3759715	B292A03700YPL KC7315	G88
3759716	B291A03800YPL KC7315	G88
3759717	B292A03800YPL KC7315	G88
3759718	B291A03900YPL KC7315	G88
3759722	B292A03900YPL KC7315	G88
3759763	B291A04100YPL KC7315	G88
3759764	B292A04100YPL KC7315	G88
3760221	CCMT2151LF KCM35	B191
3760254	CCMT3251LF KCM35	B191
3760257	CCMT3252LF KCM35	B191
3760261	CCMT3252MF KCM35	B191
3760262	CCMT432MF KCM35	B191
3760273	CNMG432RP KCM35	B53
3760277	SNMM432RP KCM35	B107
3760279	RCMT0602M0 KCM25	B240
3760280	RCMT0803M0 KCM25	B240
3760281	RCMT10T3M0 KCM25	B240
3760282	RCMT1605M0 KCM25	B240
3760286	RCMT43 KCM25	B240
3760287	CCMT2152LF KCM25	B191
3760290	CPMT2151LF KCM25	B207
3760291	CPMT2152LF KCM25	B207
3760292	CPMT3251LF KCM25	B207
3760293	CPMT3252LF KCM25	B207
3760294	DCMT2151LF KCM25	B225
3760295	DCMT3252LF KCM25	B225
3760296	DPMT2151LF KCM25	B232
3760298	DPMT3252LF KCM25	B232
3760299	SCMT3251LF KCM25	B246
3760300	SCMT3252LF KCM25	B246
3760302	SCMT432LF KCM25	B246
3760305	TCMT3251LF KCM25	B257
3760306	TCMT3252LF KCM25	B257
3760307	TCMT3253LF KCM25	B257
3760310	TPMT2152LF KCM25	B268
3760312	TPMT3252LF KCM25	B268
3760314	VBMT222LF KCM25	B281
3760315	VBMT331LF KCM25	B281
3760316	VBMT332LF KCM25	B281
3760319	CCMT2151MF KCM25	B191
3760320	CCMT3251MF KCM25	B191
3760324	CPMT3252MF KCM25	B207
3760326	DCMT3251MF KCM25	B226
3760327	DCMT3252MF KCM25	B226
3760329	DPMT3252MF KCM25	B232
3760330	SCMT3252MF KCM25	B247
3760331	SCMT432MF KCM25	B247

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3760334	SPMT432MF KCM25	B253
3760336	TCMT3252MF KCM25	B258
3760338	TPMT2152MF KCM25	B268
3760341	CNMG322MP KCM25	B51
3760342	CNMG431MP KCM25	B51
3760343	CNMG432MP KCM25	B51
3760344	CNMG433MP KCM25	B51
3760346	CNMG542MP KCM25	B51
3760347	CNMG543MP KCM25	B51
3760349	CNMG642MP KCM25	B51
3760350	CNMG643MP KCM25	B51
3760351	CNMG644MP KCM25	B51
3760352	DNMG332MP KCM25	B81
3760354	DNMG431MP KCM25	B81
3760355	DNMG432MP KCM25	B81
3760356	DNMG433MP KCM25	B81
3760357	DNMG441MP KCM25	B81
3760358	DNMG442MP KCM25	B81
3760360	SNMG432MP KCM25	B102
3760361	SNMG433MP KCM25	B102
3760364	SNMG543MP KCM25	B102
3760365	SNMG544MP KCM25	B102
3760366	SNMG643MP KCM25	B102
3760368	RCMT2006M0 KCM25	B240
3760369	KIPR100RP32M1203	V155
3760370	KIPR125RP43M1603	V155
3760394	CCMT432LF KCM35	B191
3760395	DCMT2151LF KCM35	B225
3760398	TCMT2151LF KCM35	B257
3760399	TCMT3251LF KCM35	B257
3760400	TCMT3252LF KCM35	B257
3760402	VBMT331LF KCM35	B281
3760403	VBMT332LF KCM35	B281
3760404	CCMT2151MF KCM35	B191
3760406	CPMT3252MF KCM35	B207
3760407	DCMT3252MF KCM35	B226
3760410	SCMT432MF KCM35	B247
3760411	TCMT3252MF KCM35	B258
3760413	CNMG431MP KCM35	B51
3760414	CNMG432MP KCM35	B51
3760415	CNMG433MP KCM35	B51
3760416	CNMG542MP KCM35	B51
3760420	DNMG431MP KCM35	B81
3760421	DNMG432MP KCM35	B81
3760422	DNMG441MP KCM35	B81
3760423	DNMG442MP KCM35	B81
3760425	SNMG433MP KCM35	B102
3760426	SNMG434MP KCM35	B102
3760427	SNMG643MP KCM35	B102
3760430	TNMG332MP KCM35	B124
3760431	VNMG331MP KCM35	B147
3760432	VNMG332MP KCM35	B147
3760434	WNMG432MP KCM35	B159
3760435	WNMG433MP KCM35	B159
3760436	CNMG433RP KCM35	B53
3760437	CNMG434RP KCM35	B53
3760438	CNMG543RP KCM35	B53
3760439	CNMG643RP KCM35	B53
3760440	CNMG644RP KCM35	B53
3760441	DNMG432RP KCM35	B84
3760442	DNMG433RP KCM35	B84
3760445	SNMG432RP KCM35	B105
3760447	SNMG543RP KCM35	B105
3760448	SNMG643RP KCM35	B105
3760450	TNMG333RP KCM35	B127
3760451	TNMG543RP KCM35	B127
3760453	WNMG432RP KCM35	B161
3760454	WNMG433RP KCM35	B161
3760455	CNMG432UP KCM35	B54
3760457	CNMG542UP KCM35	B54
3760458	CNMG543UP KCM35	B54
3760459	CNMG643UP KCM35	B54
3760461	DNMG432UP KCM35	B84
3760465	SNMG432UP KCM35	B106
3760466	SNMG433UP KCM35	B106
3760470	TNMG432UP KCM35	B128
3760473	WNMG433UP KCM35	B162
3760968	TNMG331MP KCM25	B124
3760969	TNMG332MP KCM25	B124
3760970	TNMG333MP KCM25	B124
3760971	TNMG432MP KCM25	B124
3760972	TNMG433MP KCM25	B124
3760994	VNMG331MP KCM25	B147
3760995	VNMG332MP KCM25	B147
3760998	WNMG332MP KCM25	B159
3760999	WNMG333MP KCM25	B159
3761000	WNMG432MP KCM25	B159
3761001	WNMG433MP KCM25	B159
3761002	CNMG431RP KCM25	B53
3761003	CNMG433RP KCM25	B53
3761004	CNMG434RP KCM25	B53
3761005	CNMG543RP KCM25	B53
3761006	CNMG544RP KCM25	B53
3761007	CNMG643RP KCM25	B53
3761008	CNMG644RP KCM25	B53
3761009	DNMG432RP KCM25	B84
3761011	DNMG442RP KCM25	B84
3761012	DNMG443RP KCM25	B84
3761014	SNMG432RP KCM25	B105
3761015	SNMG433RP KCM25	B105
3761019	SNMG644RP KCM25	B105
3761020	SNMM856RP KCM25	B107
3761021	SNMM866RP KCM25	B107
3761022	TNMG332RP KCM25	B127
3761023	TNMG333RP KCM25	B127
3761025	TNMG432RP KCM25	B127
3761026	TNMG433RP KCM25	B127
3761027	TNMG434RP KCM25	B127
3761029	TNMG544RP KCM25	B127
3761030	TNMG666RP KCM25	B127
3761031	VNMG333RP KCM25	B148
3761032	WNMG332RP KCM25	B161
3761033	WNMG432RP KCM25	B161
3761034	WNMG433RP KCM25	B161
3761035	CNMG431UP KCM25	B54
3761036	CNMG432UP KCM25	B54
3761037	CNMG433UP KCM25	B54
3761038	CNMG542UP KCM25	B54
3761039	CNMG543UP KCM25	B54
3761041	CNMG643UP KCM25	B54
3761042	CNMG644UP KCM25	B54
3761043	DNMG332UP KCM25	B84
3761045	DNMG431UP KCM25	B84
3761046	DNMG432UP KCM25	B84
3761048	DNMG441UP KCM25	B84
3761052	SNMG433UP KCM25	B106
3761054	SNMG543UP KCM25	B106
3761056	TNMG331UP KCM25	B128
3761057	TNMG332UP KCM25	B128
3761059	TNMG432UP KCM25	B128
3761061	VNMG331UP KCM25	B148
3761062	VNMG332UP KCM25	B148
3761065	WNMG432UP KCM25	B162
3761066	WNMG433UP KCM25	B162
3763185	HNPJ535ANSNHD KCK15	S19, S23
3763632	HNPJ535ANSNHD KC520M	S19, S23
3763723	HNPJ535ANSNHD KC725M	S19, S23
3763724	HNPJ535ANSNHD KCPK30	S19, S23
3763725	HNPJ535ANSNGD KCK15	S19, S22
3763726	HNPJ535ANSNGD KC520M	S19, S22
3763727	HNPJ535ANSNGD KC725M	S19, S22
3763728	HNPJ535ANSNGD KCPK30	S19, S22
3763729	HNPJ53511ANSNHD KCK15	S19, S23
3763730	HNPJ53511ANSNHD KC725M	S19, S23
3763731	HNPJ53511ANSNHD KCPK30	S19, S23
3764792	CNMA432S0820 KB1340	B309
3764823	B292A06600YPL KC7315	G89
3764824	B292A10100YPL KC7315	G89
3764833	CNMA433S0820 KB1340	B309
3764836	CNM432S0820 KB1340	B304
3764837	CNM433S0820 KB1340	B304
3764838	DNMA332S0820 KB1340	B309
3764839	DNMA333S0820 KB1340	B309
3764840	RNM32S0820 KB1340	B305
3764841	RNM42S0820 KB1340	B305
3764842	RNM43S0820 KB1340	B305
3764844	SNMA433S0820 KB1340	B310
3764845	SNM322S0820 KB1340	B306
3764847	SNM324S0820 KB1340	B306
3764850	SNM424S0820 KB1340	B306
3764851	SNM434S0820 KB1340	B306
3765830	EC1020FLDJ KC410M	T35, T44
3765831	EC1020ELDJ KC422M	T35, T45
3766023	EC1020ELD KC725M	T36, T45
3766024	EC1020ELD KCPK30	T36, T45
3766027	EC1024ELDJ KC422M	T35, T45
3766028	EC1024ELD KC522M	T36, T45
3766029	EC1024ELD KC725M	T36, T45
3766820	RIQ09E1306 KC6305	K58
3767813	OFKT53AFFN4LBJ KC410M	S46
3767814	OFKT53AFEN4LBJ KC422M	S46
3768928	CCMT2151FP KCP05	B190
3768930	CCMT3251FP KCP05	B190
3768936	CCMT21505FP KCP10	B190
3768937	CCMT2151FP KCP10	B190
3768940	CCMT3252FP KCP10	B190
3768970	DCMT2152FP KCP05	B225
3768971	DCMT3251FP KCP05	B225
3768972	DCMT3252FP KCP05	B225
3768973	DCMT432FP KCP05	B225
3768984	TCMT222FP KCP05	B257
3768985	TCMT223FP KCP05	B257
3768989	TCMT432FP KCP05	B257
3768996	VBMT331FP KCP05	B281
3768997	VBMT332FP KCP05	B281
3769003	CCMT433FP KCP10	B190
3769005	CPMT21505FP KCP10	B206
3769006	CPMT2151FP KCP10	B206
3769008	CPMT3251FP KCP10	B206
3769009	CPMT3252FP KCP10	B206
3769010	DCMT2151FP KCP10	B225
3769012	DCMT3251FP KCP10	B225
3769013	DCMT3252FP KCP10	B225
3769014	DCMT3253FP KCP10	B225
3769015	DCMT431FP KCP10	B225
3769017	DPMT2151FP KCP10	B231
3769018	DPMT3251FP KCP10	B231
3769020	SCMT3251FP KCP10	B246
3769021	SCMT3252FP KCP10	B246
3769026	TCMT2151FP KCP10	B257
3769028	TCMT3251FP KCP10	B257
3769029	TCMT3252FP KCP10	B257
3769030	TCMT3253FP KCP10	B257
3769033	TPMT2151FP KCP10	B267
3769035	TPMT3251FP KCP10	B267
3769036	TPMT3252FP KCP10	B267
3769037	VBMT221FP KCP10	B281
3769038	VBMT331FP KCP10	B281
3769039	VBMT332FP KCP10	B281
3769050	CCMT2151FP KTP10	B190
3769051	CCMT2152FP KTP10	B190
3769052	CCMT32505FP KTP10	B190
3769053	CCMT3251FP KTP10	B190
3769054	CCMT3252FP KTP10	B190
3769055	CPMT21505FP KTP10	B206
3769056	CPMT2151FP KTP10	B206
3769057	CPMT2152FP KTP10	B206
3769060	CPMT3252FP KTP10	B206
3769061	DCMT21505FP KTP10	B225
3769063	DCMT32505FP KTP10	B225
3769064	DCMT3251FP KTP10	B225
3769065	DCMT3252FP KTP10	B225
3769066	DPMT2151FP KTP10	B231
3769068	DPMT3252FP KTP10	B231
3769069	SCMT3252FP KTP10	B246
3769071	TCMT21505FP KTP10	B257
3769072	TCMT2151FP KTP10	B257
3769076	TCMT3252FP KTP10	B257
3769082	VBMT221FP KTP10	B281
3769083	VBMT3305FP KTP10	B281
3769084	VBMT331FP KTP10	B281
3769085	VBMT332FP KTP10	B281
3769093	CCMT21505FP KCP25	B190
3769094	CCMT2151FP KCP25	B190
3769095	CCMT2151FP KCM15	B190
3769096	CCMT2152FP KCP25	B190
3769097	CCMT32505FP KCP25	B190
3769099	CCMT3251FP KCM15	B190
3769103	CCMT3251FP KCP25	B190
3769106	CCMT3252FP KCP25	B190
3769107	CPMT3251FP KCM15	B206
3769109	DCMT2151FP KCM15	B225
3769111	DCMT3251FP KCM15	B225
3769112	DCMT3252FP KCM15	B225
3769114	DPMT2151FP KCM15	B231
3769118	SCMT3252FP KCM15	B246
3769121	CPMT18151FP KCP25	B206
3769122	TCMT2152FP KCM15	B257
3769124	CPMT21505FP KCP25	B206
3769128	CPMT2151FP KCP25	B206
3769130	VBMT221FP KCM15	B281
3769131	VBMT222FP KCM15	B281
3769132	CPMT2152FP KCP25	B206
3769133	VBMT331FP KCM15	B281
3769134	VBMT332FP KCM15	B281
3769139	DCMT2151FP KCP25	B225
3769140	DCMT2152FP KCP25	B225
3769141	DCMT32505FP KCP25	B225
3769142	DCMT3251FP KCP25	B225
3769143	DCMT3252FP KCP25	B225
3769146	DCMT432FP KCP25	B225
3769147	DPMT2151FP KCP25	B231
3769148	DPMT3251FP KCP25	B231
3769150	SCMT3251FP KCP25	B246
3769151	SCMT3252FP KCP25	B246
3769152	SCMT431FP KCP25	B246
3769154	SCMT433FP KCP25	B246
3769155	SPMT3251FP KCP25	B252
3769157	TCMT2151FP KCP25	B257
3769158	TCMT2152FP KCP25	B257
3769159	TCMT3251FP KCP25	B257
3769160	TCMT3252FP KCP25	B257
3769161	TCMT432FP KCP25	B257
3769162	TPMT18152FP KCP25	B267
3769163	TPMT2151FP KCP25	B267
3769165	TPMT3251FP KCP25	B267
3769166	TPMT3252FP KCP25	B267
3769168	VBMT2205FP KCP25	B281
3769169	VBMT221FP KCP25	B281
3769170	VBMT222FP KCP25	B281
3769171	VBMT3305FP KCP25	B281
3769172	VBMT331FP KCP25	B281
3769173	VBMT332FP KCP25	B281
3769174	VBMT333FP KCP25	B281
3769175	WCMT3252FP KCP25	B286
3769176	WPMT2151FP KCP25	B288
3769178	WPMT15121FP KCP25	B288
3769203	CCMT21505FP KCM25	B190
3769204	CCMT2151FP KCM25	B190
3769205	CCMT2152FP KCM25	B190
3769206	CCMT32505FP KCM25	B190
3769207	CCMT3251FP KCM25	B190
3769208	CCMT3252FP KCM25	B190
3769210	CCMT432FP KCM25	B190
3769223	CPMT21505FP KCM25	B206
3769224	CPMT2151FP KCM25	B206
3769226	CPMT32505FP KCM25	B206
3769227	CPMT3251FP KCM25	B206
3769228	CPMT3252FP KCM25	B206
3769229	DCMT21505FP KCM25	B225
3769230	DCMT2151FP KCM25	B225
3769231	DCMT2152FP KCM25	B225
3769232	DCMT32505FP KCM25	B225
3769233	DCMT3251FP KCM25	B225
3769234	DCMT3252FP KCM25	B225
3769235	DCMT431FP KCM25	B225
3769236	DCMT432FP KCM25	B225
3769240	SCMT3251FP KCM25	B246
3769243	SCMT432FP KCM25	B246
3769248	TCMT2151FP KCM25	B257
3769251	TCMT3252FP KCM25	B257
3769253	TCMT432FP KCM25	B257
3769257	TPMT3251FP KCM25	B267
3769260	VBMT221FP KCM25	B281
3769262	VBMT3305FP KCM25	B281
3769283	VBMT331FP KCM25	B281
3769284	VBMT332FP KCM25	B281
3769285	WPMT2151FP KCM25	B288
3769290	CCMT21505FP KCU10	B190
3769291	CCMT2151FP KCU10	B190
3769292	CCMT2152FP KCU10	B190
3769310	CPMT2151FP KCK20	B206
3769320	SCMT3252FP KCK20	B246
3769334	TPMT3251FP KCK20	B267
3769337	VBMT332FP KCK20	B281
3769343	CCMT32505FP KCU10	B190
3769344	CCMT3251FP KCU10	B190
3769345	CCMT431FP KCU10	B190

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3769346	CCMT432FP KCU10	B190
3769347	CPMT181505FP KCU10	B206
3769348	CPMT18151FP KCU10	B206
3769349	CPMT21505FP KCU10	B206
3769350	CPMT2151FP KCU10	B206
3769352	CPMT32505FP KCU10	B206
3769353	CPMT3251FP KCU10	B206
3769354	CPMT3252FP KCU10	B206
3769355	DCMT21505FP KCU10	B225
3769356	DCMT2151FP KCU10	B225
3769357	DCMT2152FP KCU10	B225
3769358	DCMT32505FP KCU10	B225
3769359	DCMT3251FP KCU10	B225
3769360	DCMT3252FP KCU10	B225
3769363	DCMT432FP KCU10	B225
3769364	DPMT21505FP KCU10	B231
3769365	DPMT2151FP KCU10	B231
3769366	DPMT2152FP KCU10	B231
3769368	DPMT3251FP KCU10	B231
3769369	DPMT3252FP KCU10	B231
3769370	SCMT3251FP KCU10	B246
3769371	SCMT3252FP KCU10	B246
3769372	SCMT431FP KCU10	B246
3769373	SCMT432FP KCU10	B246
3769374	SCMT433FP KCU10	B246
3769375	SPMT3251FP KCU10	B252
3769376	SPMT3252FP KCU10	B252
3769377	TCMT18151FP KCU10	B257
3769378	TCMT18152FP KCU10	B257
3769380	TCMT2151FP KCU10	B257
3769381	TCMT2152FP KCU10	B257
3769382	TCMT221FP KCU10	B257
3769383	TCMT222FP KCU10	B257
3769384	TCMT223FP KCU10	B257
3769386	TCMT3251FP KCU10	B257
3769387	TCMT3252FP KCU10	B257
3769388	TCMT3253FP KCU10	B257
3769389	TCMT432FP KCU10	B257
3769390	TPMT18151FP KCU10	B267
3769391	TPMT18152FP KCU10	B267
3769392	TPMT21505FP KCU10	B267
3769393	TPMT2151FP KCU10	B267
3769394	TPMT2152FP KCU10	B267
3769395	TPMT221FP KCU10	B267
3769396	TPMT222FP KCU10	B267
3769397	TPMT3251FP KCU10	B267
3769401	VBMT2205FP KCU10	B281
3769402	VBMT221FP KCU10	B281
3769403	VBMT222FP KCU10	B281
3769404	VBMT3305FP KCU10	B281
3769405	VBMT331FP KCU10	B281
3769406	VBMT332FP KCU10	B281
3769407	WCMT2151FP KCU10	B286
3769408	WCMT3252FP KCU10	B286
3769409	WPMT2151FP KCU10	B288
3769410	WPMT3251FP KCU10	B288
3769411	WPMT3252FP KCU10	B288
3769412	WPMT15121FP KCU10	B288
3769413	CCMT21505FP KCU25	B190
3769414	CCMT2151FP KCU25	B190
3769415	CCMT2152FP KCU25	B190
3769416	CCMT32505FP KCU25	B190
3769417	CCMT3251FP KCU25	B190
3769418	CCMT3252FP KCU25	B190
3769419	CCMT431FP KCU25	B190
3769421	CPMT181505FP KCU25	B206
3769422	CPMT18151FP KCU25	B206
3769423	CPMT21505FP KCU25	B206
3769424	CPMT2151FP KCU25	B206
3769427	CPMT3251FP KCU25	B206
3769428	CPMT3252FP KCU25	B206
3769430	DCMT2151FP KCU25	B225
3769431	DCMT32505FP KCU25	B225
3769432	DCMT3251FP KCU25	B225
3769433	DCMT3252FP KCU25	B225
3769435	DPMT2151FP KCU25	B231
3769436	DPMT2152FP KCU25	B231
3769438	DPMT3251FP KCU25	B231
3769440	SCMT3251FP KCU25	B246
3769441	SCMT3252FP KCU25	B246
3769444	SPMT3251FP KCU25	B252
3769446	TCMT18151FP KCU25	B257
3769447	TCMT18152FP KCU25	B257
3769448	TCMT21505FP KCU25	B257
3769449	TCMT2151FP KCU25	B257
3769450	TCMT2152FP KCU25	B257
3769451	TCMT221FP KCU25	B257
3769452	TCMT222FP KCU25	B257
3769454	TCMT3251FP KCU25	B257
3769455	TCMT3252FP KCU25	B257
3769456	TCMT3253FP KCU25	B257
3769457	TCMT432FP KCU25	B257
3769458	TPMT18152FP KCU25	B267
3769460	TPMT2151FP KCU25	B267
3769461	TPMT221FP KCU25	B267
3769462	TPMT3251FP KCU25	B267
3769463	TPMT3252FP KCU25	B267
3769464	VBMT221FP KCU25	B281
3769465	VBMT222FP KCU25	B281
3769466	VBMT3305FP KCU25	B281
3769467	VBMT331FP KCU25	B281
3769468	VBMT332FP KCU25	B281
3769469	WCMT2151FP KCU25	B286
3773323	B967A05000 KC7315	G130
3774249	HNPJ535ANSNHD KC522M	S19, S23
3774250	HNPJ535ANSNGD KC522M	S19, S22
3774251	HNPJ53511ANSNHD KC522M	S19, S23
3774691	A4G0405M04U04GUP KCU25	C102
3774692	A4G0405M04U08GUP KCU25	C102
3774723	A4G0505M05U08GUP KCU25	C102
3774724	A4G0805M08U12GUP KCU25	C102
3774906	SPPX15T508RHP KC7140	J103
3774919	EP1016SGE KC522M	T37, T46
3774920	EP1016SGE KC725M	T37, T46
3774921	EP1016SGE KCPK30	T37, T46
3775003	EP1012SGE KC522M	T37, T46
3775004	EP1012SGE KC725M	T37, T46
3775005	EP1012SGE KCPK30	T37, T46
3775016	EP1008SGE KC522M	T37, T46
3775017	EP1008SGE KC725M	T37, T46
3775018	EP1008SGE KCPK30	T37, T46
3775022	EP1031SGE KC522M	T37, T46
3775063	EP1031SGE KC725M	T37, T46
3775064	EP1031SGE KCPK30	T37, T46
3776430	B291A12900YPL KC7315	G90
3779249	EP1004SGE KC522M	T37, T46
3779250	EP1004SGE KC725M	T37, T46
3779251	EP1004SGE KCPK30	T37, T46
3780360	MS-2071	T14–17, V75–77
3781192	A4G0200M02P02GUP KCU10	C103
3781252	A4G0200M02P02GUP KCU25	C103
3781253	A4G0300M03P02GUP KCU25	C103
3781254	A4G0300M03P04GUP KCU25	C103
3781255	A4G0400M04P02GUP KCU25	C103
3781256	A4G0400M04P04GUP KCU25	C103
3781257	A4G0400M04P08GUP KCU25	C103
3781258	A4G0500M05P04GUP KCU25	C103
3781259	A4G0500M05P08GUP KCU25	C103
3781260	A4G0600M06P04GUP KCU25	C103
3781261	A4G0600M06P08GUP KCU25	C103
3781262	A4G0800M08P08GUP KCU25	C103
3781263	A4G0800M08P12GUP KCU25	C103
3781264	A4G1000M10P08GUP KCU25	C103
3781265	A4G1000M10P12GUP KCU25	C103
3781278	A4G0300M03P02GUP KCU10	C103
3781279	A4G0300M03P04GUP KCU10	C103
3781280	A4G0400M04P02GUP KCU10	C103
3781281	A4G0400M04P04GUP KCU10	C103
3781282	A4G0400M04P08GUP KCU10	C103
3781283	A4G0500M05P04GUP KCU10	C103
3781284	A4G0500M05P08GUP KCU10	C103
3781285	A4G0600M06P04GUP KCU10	C103
3781286	A4G0600M06P08GUP KCU10	C103
3781287	A4G0800M08P08GUP KCU10	C103
3781288	A4G0800M08P12GUP KCU10	C103
3781289	A4G1000M10P08GUP KCU10	C103
3781290	A4G1000M10P12GUP KCU10	C103
3781677	S329	B409
3782185	KT30L	C143, C145
3782458	B978A03000 KC7315	G139
3784063	193.523	H126–129
3784064	193.524	H126–129
3784065	193.525	H126–129
3784066	193.526	H126–129
3784326	170.350	H122
3784327	170.353	H122
3784328	170.355	H122–123
3784329	170.356	H122–123
3784330	170.345	H122
3784331	170.346	H122
3784332	170.347	H122–123
3784473	170.348	H123
3784474	FBSCFCR09CA06F	K116
3784475	FBSCFCL09CA06F	K116
3784476	FBSCLCR09CA06F	K116
3784477	FBSCLCL09CA06F	K116
3787461	RPGV23MP KCS10	B167
3787462	RPGV35MP KCS10	B167
3787483	RPGV45MP KCS10	B167
3787484	RCGV23MP KCS10	B166
3787486	RCGV45MP KCS10	B166
3787488	RPGT23MP KCS10	B245
3787492	RCMT0803M0MP KCS10	B240
3787503	RCMT10T3M0MP KCS10	B240
3787504	RCMT43MP KCS10	B240
3787505	RCMT1606M0MP KCS10	B240
3787507	RCMK23MP KCS10	E69
3787508	RCMK35MP KCS10	E69
3787509	RCMK46MP KCS10	E69
3787512	RCGH43MP KCS10	B238
3789794	KTIP0827R3SS088	H39
3789795	KTIP0866R3SS088	H39
3789796	KTIP0906R3SS094	H39
3789797	KTIP0945R3SS100	H39
3789798	KTIP0984R3SS100	H39
3789799	KTIP0827R5SS088	H39
3789800	KTIP0866R5SS088	H39
3789801	KTIP0906R5SS094	H39
3789802	KTIP0945R5SS100	H39
3789833	KTIP0984R5SS100	H39
3789834	KTIP0827R8SS088	H39
3789835	KTIP0866R8SS088	H39
3789836	KTIP0906R8SS094	H39
3789837	KTIP0945R8SS100	H39
3789838	KTIP0984R8SS100	H39
3790401	KTIP210R3SS25M	H38
3790402	KTIP220R3SS25M	H38
3790443	KTIP230R3SS25M	H38
3790444	KTIP240R3SS25M	H38
3790445	KTIP250R3SS32M	H38
3790446	KTIP210R3SCF25M	H40
3790447	KTIP220R3SCF25M	H40
3790448	KTIP230R3SCF25M	H40
3790449	KTIP240R3SCF25M	H40
3790450	KTIP250R3SCF25M	H40
3790451	KTIP210R5SS25M	H38
3790452	KTIP220R5SS25M	H38
3790453	KTIP230R5SS25M	H38
3790454	KTIP240R5SS25M	H38
3790455	KTIP250R5SS32M	H38
3790456	KTIP210R5SCF25M	H40
3790457	KTIP220R5SCF25M	H40
3790458	KTIP230R5SCF25M	H40
3790459	KTIP240R5SCF25M	H40
3790460	KTIP250R5SCF25M	H40
3790461	KTIP210R8SS25M	H38
3790462	KTIP220R8SS25M	H38
3790463	KTIP230R8SS25M	H38
3790464	KTIP240R8SS25M	H38
3790465	KTIP250R8SS32M	H38
3790466	KTIP210R8SCF25M	H40
3790467	KTIP220R8SCF25M	H40
3790468	KTIP230R8SCF25M	H40
3790469	KTIP240R8SCF25M	H40
3790470	KTIP250R8SCF25M	H40
3791263	A4G0205M02U02GUP KCU10	C102
3791265	A4G0305M03U02GUP KCU10	C102
3791266	A4G0305M03U04GUP KCU10	C102
3791267	A4G0405M04U04GUP KCU10	C102
3791268	A4G0405M04U08GUP KCU10	C102
3791269	A4G0505M05U04GUP KCU10	C102
3791270	A4G0505M05U08GUP KCU10	C102
3791271	A4G0605M06U04GUP KCU10	C102
3791272	A4G0605M06U08GUP KCU10	C102
3791273	A4G0605M06U12GUP KCU10	C102
3791275	A4G0805M08U08GUP KCU10	C102
3791276	A4G0805M08U12GUP KCU10	C102
3791277	A4G1005M10U08GUP KCU10	C102
3791279	A4G0205M02U02GUP KCU25	C102
3791280	A4G0305M03U02GUP KCU25	C102
3791281	A4G0305M03U04GUP KCU25	C102
3791282	A4G0505M05U04GUP KCU25	C102
3791283	A4G0605M06U04GUP KCU25	C102
3791284	A4G0605M06U08GUP KCU25	C102
3791285	A4G0605M06U12GUP KCU25	C102
3791286	A4G0805M08U08GUP KCU25	C102
3791287	A4G1005M10U08GUP KCU25	C102
3791288	A4G1005M10U12GUP KCU25	C102
3791289	A4G0205M02U02GUP KCP10	C102
3791290	A4G0305M03U02GUP KCP10	C102
3791291	A4G0305M03U04GUP KCP10	C102
3791292	A4G0405M04U04GUP KCP10	C102
3791293	A4G0405M04U08GUP KCP10	C102
3791294	A4G0505M05U04GUP KCP10	C102
3791295	A4G0505M05U08GUP KCP10	C102
3791296	A4G0605M06U04GUP KCP10	C102
3791297	A4G0605M06U08GUP KCP10	C102
3791298	A4G0605M06U12GUP KCP10	C102
3791299	A4G0805M08U08GUP KCP10	C102
3791300	A4G0805M08U12GUP KCP10	C102
3791301	A4G1005M10U08GUP KCP10	C102
3791303	A4G0205M02U02GUP KCP25	C102
3791304	A4G0305M03U02GUP KCP25	C102
3791305	A4G0305M03U04GUP KCP25	C102
3791306	A4G0405M04U04GUP KCP25	C102
3791307	A4G0405M04U08GUP KCP25	C102
3791308	A4G0505M05U04GUP KCP25	C102
3791309	A4G0505M05U08GUP KCP25	C102
3791310	A4G0605M06U04GUP KCP25	C102
3791311	A4G0605M06U08GUP KCP25	C102
3791312	A4G0605M06U12GUP KCP25	C102
3791313	A4G0805M08U08GUP KCP25	C102
3791314	A4G0805M08U12GUP KCP25	C102
3791316	A4G1005M10U12GUP KCP25	C102
3791545	B976A11600 KC7315	G137
3793949	KSEMP3320FDS32A1M	H104, H115, H122
3793950	KSEMP3920FDS36A1M	H104, H116, H122
3794291	KSEMP3200FDS32A1M	H104, H115, H122
3794292	KSEMP3400FDS32A1M	H104, H115, H122
3794393	KSEMP3500FDS32A1M	H104, H115, H122
3794394	KSEMP3600FDS36A1M	H104, H116, H122
3794395	KSEMP3700FDS36A1M	H104, H116, H122
3794396	KSEMP3800FDS36A1M	H104, H116, H122
3794397	KSEMP3900FDS36A1M	H104, H116, H122
3794398	KSEMP4000FDS40A1M	H104, H116, H122
3794399	KSEMP4100FDS40A1M	H104, H116, H122
3794400	KSEMP4200FDS40A1M	H104, H116, H122
3794401	KSEMP4300FDS40A1M	H104, H116, H122
3794402	KSEMP4400FDS40A1M	H104, H116, H122
3794403	KSEMP4500FDS45A1M	H105, H116, H122
3794404	KSEMP4600FDS45A1M	H105, H116, H122
3794405	KSEMP4700FDS45A1M	H105, H116, H122
3794406	KSEMP4800FDS45A1M	H105, H116, H122
3794407	KSEMP4900FDS45A1M	H105, H116, H122
3794408	KSEMP5100FDS50A1M	H105, H116, H122
3794409	KSEMP5200FDS50A1M	H105, H116, H122

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3794410	KSEMP5300FDS50A1M	H105, H116, H122
3794411	KSEMP5400FDS50A1M	H105, H116, H122
3794412	KSEMP5500FDS50A1M	H105, H116, H122
3794413	KSEMP5600FDS56A1M	H105, H116, H122
3794414	KSEMP5700FDS56A1M	H105, H116, H122
3794415	KSEMP5800FDS56A1M	H105, H116, H122
3794416	KSEMP5900FDS56A1M	H105, H116, H122
3794417	KSEMP6000FDS56A1M	H105, H116, H122
3794418	KSEMP6100FDS56A1M	H105, H116, H122
3794419	KSEMP6200FDS56A1M	H105, H116, H122
3794420	KSEMP6300FDS63A1M	H105, H116, H122
3794421	KSEMP6400FDS63A1M	H105, H116, H123
3794422	KSEMP6500FDS63A1M	H105, H116, H123
3794423	KSEMP6600FDS63A1M	H105, H116, H123
3794424	KSEMP6700FDS63A1M	H105, H116, H123
3794425	KSEMP6800FDS63A1M	H105, H116, H123
3794426	KSEMP6900FDS63A1M	H105, H116, H123
3794427	KSEMP3750FDS36A1M	H104, H116, H122
3794428	WD32FDS32216M	H127
3794429	WD32FDS32391M	H127
3794430	WD32FDS36244M	H127
3794431	WD32FDS36361M	H127
3794432	WD32FDS36439M	H127
3794443	WD50FDS40271M	H127
3794444	WD50FDS40403M	H127
3794445	WD50FDS40491M	H127
3794446	WD50FDS45304M	H127
3794447	WD50FDS45451M	H127
3794448	WD50FDS45549M	H127
3794449	WD50FDS50338M	H127
3794450	WD50FDS50613M	H127
3794451	WD50FDS56383M	H127
3794452	WD50FDS56569M	H127
3794453	WD50FDS56693M	H127
3794454	WD50FDS63429M	H127
3794455	WD50FDS63639M	H127
3794835	SSF150FDS320850	H129
3794836	SSF150FDS321263	H129
3794837	SSF150FDS321539	H129
3794838	SSF150FDS360960	H129
3794839	SSF150FDS361421	H129
3794840	SSF150FDS361728	H129
3794841	SSF200FDS401066	H129
3794842	SSF200FDS401586	H129
3794903	SSF200FDS401933	H129
3794904	SSF200FDS451196	H129
3794905	SSF200FDS451775	H129
3794906	SSF200FDS452161	H129
3794907	SSF200FDS501330	H129
3794908	SSF200FDS501980	H129
3794909	SSF200FDS502413	H129
3794910	SSF200FDS561507	H129
3794911	SSF200FDS562240	H129
3794912	SSF200FDS562783	H129
3794913	SSF200FDS631688	H129
3794914	SSF200FDS632515	H129
3794915	SSF200FDS633066	H129
3794916	KSEMP1250FDS32A1	H104, H115, H122
3794917	KSEMP1313FDS32A1	H104, H115, H122
3794918	KSEMP1375FDS32A1	H104, H115, H122
3794919	KSEMP1438FDS36A1	H104, H116, H122
3794920	KSEMP1500FDS36A1	H104, H116, H122
3794921	KSEMP1563FDS36A1	H104, H116, H122
3794922	KSEMP1625FDS40A1	H104, H116, H122
3794933	KSEMP1750FDS40A1	H104, H116, H122
3794934	KSEMP1875FDS45A1	H105, H116, H122
3794935	KSEMP2000FDS50A1	H105, H116, H122
3794936	KSEMP2125FDS50A1	H105, H116, H122
3794937	KSEMP2250FDS56A1	H105, H116, H122
3794938	KSEMP2375FDS56A1	H105, H116, H122
3794939	KSEMP2500FDS63A1	H105, H116, H123
3794940	KSEMP2625FDS63A1	H105, H116, H123
3794941	KSEMP2750FDS63A1	H105, H116, H123
3795256	RMB14000H7HF KT6215	K18
3795257	RMB15000H7HF KT6215	K18
3795258	RMB16000H7HF KT6215	K18
3795260	RMB18000H7HF KT6215	K18
3795261	RMB19000H7HF KT6215	K18
3795262	RMB20000H7HF KT6215	K18
3795333	RMB14000H7SF KT6215	K17
3795334	RMB15000H7SF KT6215	K17
3795335	RMB16000H7SF KT6215	K17
3795336	RMB17000H7SF KT6215	K17
3795337	RMB18000H7SF KT6215	K17
3795338	RMB19000H7SF KT6215	K17
3795339	RMB20000H7SF KT6215	K17
3812186	DNMG443MP KCP10	B81
3830321	B976A08020 KC7315	G136
3838225	WNMG433MP KCP10	B159
3842812	B291A13800YPL KC7315	G90
3842895	H32LSER5	D76
3842897	H40LSER5	D76
3848433	B967A15500 KC7315	G132
3849319	XNGJ535ANFNLDJ3W KC410M	S21
3849320	HNGJ535ANFNLDJ KC410M	S18, S21
3852200	RPET1204M0ELE KC725M	V71
3852233	RPET1204M0SGE KCPK30	V72
3852235	RPET1204M0ELE KCPK30	V71
3852284	RPPT1605M0SHP KC725M	V79
3852285	RPPT1605M0SHP KCPK30	V79
3852395	RPPT1204M0SGP KC725M	V72
3852396	RPPT1204M0SGP KCPK30	V72
3854146	RIR04EDS06 KD1415	K56
3854265	A4SMR2020K0208	C126
3854266	A4SML2020K0208	C126
3854267	A4SMR2020K0308	C126
3854268	A4SML2020K0308	C126
3854269	A4SMR2020K0408	C126
3854270	A4SML2020K0408	C126
3854271	A4SMR2525M0510	C126
3854272	A4SML2525M0510	C126
3854273	A4SMR2525M0610	C126
3854274	A4SML2525M0610	C126
3854277	A4SMR120308	C126
3854281	A4SMR160510	C126
3854632	AADE0250J3B K600	P128
3854739	AADE0312J3A K600	P128
3854756	AADE0375J3B K600	P129
3854759	AADE0500J3B K600	P129
3854761	AADE0625J3A K600	P129
3854762	AADE0750J3B K600	P130
3855176	EP1416SGE KC522M	T58, T69
3855177	EP1416SGE KC725M	T58, T69
3855178	EP1416SGE KCPK30	T58, T69
3855180	EP1431SGE KC725M	T58, T69
3855181	EP1431SGE KCPK30	T58, T69
3855209	EP1404SGE KC522M	T58, T69
3855210	EP1404SGE KC725M	T58, T69
3855211	EP1404SGE KCPK30	T58, T69
3855236	EP1408SGE KC522M	T58, T69
3855237	EP1408SGE KC725M	T58, T69
3855238	EP1408SGE KCPK30	T58, T69
3855240	EP1412SGE KC522M	T58, T69
3855241	EP1412SGE KC725M	T58, T69
3855242	EP1412SGE KCPK30	T58, T69
3855383	B291A04300YPL KC7315	G88
3855561	CNMG432MP KCP10	B51
3855796	CM234R ASSY	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B113, B131, B154, B163
3855854	B291A08800YPL KC7315	G89
3856322	LT27ER4API502 KC5025	D52
3856324	LT27ER4API382 KC5025	D52
3856327	LT27NR4API502 KC5025	D62
3856329	LT27NR4API382 KC5025	D62
3856518	DNGX120712T02020 KYK25	B317
3856520	DNGX453T0820 KYK25	B317
3856521	SNGX453T0820 KYK25	B318
3856522	SNGX454T0820 KYK25	B318
3856532	SNG432T0820 KYK25	B318
3856553	SNG433T0820 KYK25	B318
3856554	SNG453T0820 KYK25	B318
3856558	CNGA432T0820 KYK25	B313
3856559	CNGA433T0820 KYK25	B313
3856560	CNGA434T0820 KYK25	B313
3856561	CNGA432T0420FW KYK25	B313
3856562	CNGA433T0420FW KYK25	B313
3856604	CNGA644T0820 KYK25	B313
3856607	DNGA434T0820 KYK25	B314
3856608	SNGA432T0820 KYK25	B314
3856609	SNGA433T0820 KYK25	B314
3856611	SNGA543T0820 KYK25	B314
3856614	VNGA432T0820 KYK25	B315
3856615	WNGA432T0820 KYK25	B315
3856616	WNGA433T0820 KYK25	B315
3856618	CNGA543T0820 KYK25	B313
3856793	RIR04E1312 KC6005	K56
3856806	RIR02E1312 KC6305	K56
3856807	RIR03E1312 KC6305	K56
3856827	RIRT4C4512 KC6005	K57
3858114	EP1808SGE KCPK30	T84
3858115	EP1808SGE KC522M	T84
3858116	EP1808SGE KC725M	T84
3858210	B978A04200 KC7315	G139
3858724	RIR01E1312 KC6105	K56
3858725	RIR02E1312 KC6105	K56
3858727	RIR01EGU00 KC6105	K56
3858731	RIR05EGU00 KC6105	K56
3858814	KST175CS	K43
3858815	KST200CS	K43
3858817	KST250CS	K43
3858818	KST300CS	K43
3858819	KST350CS	K43
3859000	B292A07400YPL KC7315	G89
3859044	SDET4316SNGB KC725M	T116, T123, U39
3859155	B292A08100YPL KC7315	G89
3860364	RHM20000KST175H7HF KT325	K33
3860365	RHM20640KST175H7HF KT325	K33
3860366	RHM21000KST175H7HF KT325	K33
3860367	RHM22000KST175H7HF KT325	K33
3860368	RHM22230KST175H7HF KT325	K33
3860369	RHM22500KST200H7HF KT325	K33
3860370	RHM23000KST200H7HF KT325	K33
3860371	RHM23810KST200H7HF KT325	K33
3860372	RHM24000KST200H7HF KT325	K33
3860383	RHM25000KST200H7HF KT325	K33
3860384	RHM25400KST200H7HF KT325	K33
3860385	RHM26000KST200H7HF KT325	K33
3860386	RHM26990KST200H7HF KT325	K33
3860387	RHM27000KST200H7HF KT325	K33
3860388	RHM27500KST250H7HF KT325	K33
3860389	RHM28000KST250H7HF KT325	K34
3860390	RHM28580KST250H7HF KT325	K34
3860391	RHM29000KST250H7HF KT325	K34
3860392	RHM30000KST250H7HF KT325	K34
3860393	RHM30160KST250H7HF KT325	K34
3860394	RHM31000KST250H7HF KT325	K34
3860395	RHM31750KST250H7HF KT325	K34
3860396	RHM32000KST250H7HF KT325	K34
3860397	RHM32500KST300H7HF KT325	K34
3860398	RHM33000KST300H7HF KT325	K34
3860399	RHM33340KST300H7HF KT325	K34
3860401	RHM34930KST300H7HF KT325	K34
3860402	RHM35000KST300H7HF KT325	K34
3860403	RHM36000KST300H7HF KT325	K34
3860404	RHM36510KST300H7HF KT325	K34
3860405	RHM37000KST300H7HF KT325	K34
3860406	RHM37500KST350H7HF KT325	K34
3860408	RHM38100KST350H7HF KT325	K34
3860409	RHM39000KST350H7HF KT325	K34
3860410	RHM39690KST350H7HF KT325	K34
3860411	RHM40000KST350H7HF KT325	K34
3860412	RHM41000KST350H7HF KT325	K34
3860413	RHM41280KST350H7HF KT325	K34
3860414	RHM42000KST350H7HF KT325	K34
3860476	RHM20000KST175H7SF KT325	K31
3860477	RHM20640KST175H7SF KT325	K31
3860478	RHM21000KST175H7SF KT325	K31
3860480	RHM22230KST175H7SF KT325	K31
3860481	RHM22500KST200H7SF KT325	K31
3860482	RHM23000KST200H7SF KT325	K31
3860513	RHM23810KST200H7SF KT325	K31
3860514	RHM24000KST200H7SF KT325	K31
3860515	RHM25000KST200H7SF KT325	K31
3860516	RHM25400KST200H7SF KT325	K31
3860517	RHM26000KST200H7SF KT325	K31
3860518	RHM26990KST200H7SF KT325	K31
3860519	RHM27000KST200H7SF KT325	K31
3860520	RHM27500KST250H7SF KT325	K32
3860521	RHM28000KST250H7SF KT325	K32
3860522	RHM28580KST250H7SF KT325	K32
3860523	RHM29000KST250H7SF KT325	K32
3860524	RHM30000KST250H7SF KT325	K32
3860525	RHM30160KST250H7SF KT325	K32
3860526	RHM31000KST250H7SF KT325	K32
3860527	RHM31750KST250H7SF KT325	K32
3860528	RHM32000KST250H7SF KT325	K32
3860529	RHM32500KST300H7SF KT325	K32
3860530	RHM33000KST300H7SF KT325	K32
3860531	RHM33340KST300H7SF KT325	K32
3860532	RHM34000KST300H7SF KT325	K32
3860533	RHM34930KST300H7SF KT325	K32
3860534	RHM35000KST300H7SF KT325	K32
3860535	RHM36000KST300H7SF KT325	K32
3860536	RHM36510KST300H7SF KT325	K32
3860537	RHM37000KST300H7SF KT325	K32
3860538	RHM37500KST350H7SF KT325	K32
3860539	RHM38000KST350H7SF KT325	K32
3860540	RHM38100KST350H7SF KT325	K32
3860541	RHM39000KST350H7SF KT325	K32
3860542	RHM39690KST350H7SF KT325	K32
3860544	RHM41000KST350H7SF KT325	K32
3860545	RHM41280KST350H7SF KT325	K32
3860546	RHM42000KST350H7SF KT325	K32
3860625	RHM20000KST175H7SF KT6215	K31
3860626	RHM20640KST175H7SF KT6215	K31
3860627	RHM21000KST175H7SF KT6215	K31
3860628	RHM22000KST175H7SF KT6215	K31
3860629	RHM22230KST175H7SF KT6215	K31
3860630	RHM22500KST200H7SF KT6215	K31
3860631	RHM23000KST200H7SF KT6215	K31
3860632	RHM23810KST200H7SF KT6215	K31
3860643	RHM24000KST200H7SF KT6215	K31
3860644	RHM25000KST200H7SF KT6215	K31
3860645	RHM25400KST200H7SF KT6215	K31
3860647	RHM26990KST200H7SF KT6215	K31
3860648	RHM27000KST200H7SF KT6215	K31
3860649	RHM27500KST250H7SF KT6215	K32
3860650	RHM28000KST250H7SF KT6215	K32
3860651	RHM28580KST250H7SF KT6215	K32
3860652	RHM29000KST250H7SF KT6215	K32
3860653	RHM30000KST250H7SF KT6215	K32
3860655	RHM31000KST250H7SF KT6215	K32
3860656	RHM31750KST250H7SF KT6215	K32
3860658	RHM32500KST300H7SF KT6215	K32
3860659	RHM33000KST300H7SF KT6215	K32
3860660	RHM33340KST300H7SF KT6215	K32
3860662	RHM34930KST300H7SF KT6215	K32
3860663	RHM35000KST300H7SF KT6215	K32
3860664	RHM36000KST300H7SF KT6215	K32
3860665	RHM36510KST300H7SF KT6215	K32

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3860667	RHM37500KST350H7SF KT6215	K32
3860668	RHM38000KST350H7SF KT6215	K32
3860669	RHM38100KST350H7SF KT6215	K32
3860670	RHM39000KST350H7SF KT6215	K32
3860671	RHM39690KST350H7SF KT6215	K32
3860672	RHM40000KST350H7SF KT6215	K32
3860673	RHM41000KST350H7SF KT6215	K32
3860674	RHM41280KST350H7SF KT6215	K32
3860675	RHM42000KST350H7SF KT6215	K32
3860855	RHM20000KST175H7HF KT6215	K33
3860856	RHM20640KST175H7HF KT6215	K33
3860857	RHM21000KST175H7HF KT6215	K33
3860858	RHM22000KST175H7HF KT6215	K33
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3860868	RHM27000KST200H7HF KT6215	K33
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3860870	RHM28000KST250H7HF KT6215	K34
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3860885	RHM36510KST300H7HF KT6215	K34
3860886	RHM37000KST300H7HF KT6215	K34
3860887	RHM37500KST350H7HF KT6215	K34
3860890	RHM39000KST350H7HF KT6215	K34
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3860892	RHM40000KST350H7HF KT6215	K34
3860893	RHM41000KST350H7HF KT6215	K34
3860894	RHM41280KST350H7HF KT6215	K34
3860895	RHM42000KST350H7HF KT6215	K34
3861185	SS20KST175AR3M	K42
3861186	SS20KST200AR3M	K42
3861187	SS25KST250AR3M	K42
3861188	SS32KST300AR3M	K42
3861189	SS32KST350AR3M	K42
3861190	SS20KST175AR5M	K42
3861191	SS20KST200AR5M	K42
3861192	SS25KST250AR5M	K42
3861193	SS32KST300AR5M	K42
3861194	SS32KST350AR5M	K42
3861195	SS20KST175RR3M	K43
3861196	SS20KST200RR3M	K43
3861197	SS25KST250RR3M	K43
3861198	SS32KST300RR3M	K43
3861199	SS32KST350RR3M	K43
3861200	SS20KST175RR5M	K43
3861201	SS20KST200RR5M	K43
3861202	SS25KST250RR5M	K43
3861203	SS32KST300RR5M	K43
3861204	SS32KST350RR5M	K43
3861630	KST175200RK	K43
3861631	KST250250RK	K43
3861632	KST300350RK	K43
3861774	DNGA434T0820 KYK10	B314
3861775	RNG43T0820 KYK10	B318
3861781	TPG323T0820 KYK10	B320
3862224	KST175200AS	K42
3862225	KST250250AS	K42
3862226	KST300350AS	K42
3864351	B292A06200YPL KC7315	G88
3865852	A4SBR122S12016020	C129
3865903	A4SBR122S12020025	C129
3865905	A4SBR123S14020025	C129
3865906	A4SBR123S14025036	C129
3865910	A4SBR165S19038058	C129
3865911	A4SBL122S12016020	C129
3865920	A4SBR2020K2S12016020	C129
3865921	A4SBR2020K2S12020025	C129
3865922	A4SBR2020K2S12025036	C129
3865923	A4SBR2020K3S14020025	C129
3865924	A4SBR2020K3S14025036	C129
3865926	A4SBR2020K4S14035048	C129
3865927	A4SBR2525M5S19028038	C129
3865928	A4SBR2525M5S19038058	C129
3865929	A4SBL2020K2S12016020	C129
3865931	A4SBL2020K2S12025036	C129
3865932	A4SBL2020K3S14020025	C129
3865934	A4SBL2020K4S14025035	C129
3865937	A4SBL2525M5S19038058	C129
3866058	AADE1000J3D K600	P130
3866065	AADE1000J3GRB K600	P130
3866067	AADE1000J3E K600	P130
3866068	AADE1000J3ERA K600	P130
3866069	AADE1000J3ERB K600	P130
3866072	AADE1000J3ERE K600	P130
3866073	AADE1000J3H K600	P130
3866074	AADE1000J3HRA K600	P130
3866202	AADE0500J3F K600	P129
3866253	AADE0500J3FRA K600	P129
3866254	AADE0500J3FRB K600	P129
3866255	AADE0500J3FRC K600	P129
3866256	AADE0500J3BRA K600	P129
3866257	AADE0500J3G K600	P129
3866259	AADE0500J3GRB K600	P129
3866260	AADE0500J3GRC K600	P129
3866261	AADE0500J3GRD K600	P129
3866262	AADE0500J3CRA K600	P129
3866263	AADE0500J3H K600	P129
3866268	AADE0625J3D K600	P130
3866269	AADE0625J3DRA K600	P129
3866272	AADE0625J3DRE K600	P130
3866273	AADE0625J3E K600	P130
3866274	AADE0625J3F K600	P130
3866275	AADE0625J3FRE K600	P130
3866276	AADE0625J3G K600	P130
3866277	AADE0750J3F K600	P130
3866280	AADE0750J3H K600	P130
3866282	AADE0750J3HRB K600	P130
3866284	AADE0750J3HRD K600	P130
3866286	AADE0750J3CRA K600	P130
3866288	AADE0750J3CRE K600	P130
3866289	AADE0750J3G K600	P130
3866290	AADE0750J3GRA K600	P130
3866291	AADE0750J3GRB K600	P130
3866293	AADE0750J3GRD K600	P130
3866294	AADE0750J3GRE K600	P130
3867457	A4M50R2S12B016020	C141
3867458	A4M50R2S12B020025	C141
3867459	A4M50R2S12B025036	C141
3867460	A4M50R3S14B020025	C141
3867461	A4M50R3S14B025036	C141
3867462	A4M50R4S14B025035	C141
3867464	A4M50R5S17B028038	C141
3867466	A4M50L2S12B016020	C142
3867467	A4M50L2S12B020025	C142
3867468	A4M50L2S12B025036	C142
3867469	A4M50L3S14B020025	C142
3867470	A4M50L3S14B025036	C142
3867472	A4M50L4S14B035048	C142
3867484	A4M50L5S17B028038	C142
3867715	B271Z03000HPS KN25	G68
3867716	B271Z03175HPS KN25	G68
3867717	B271Z03200HPS KN25	G68
3867718	B271Z03500HPS KN25	G68
3867719	B271Z03970HPS KN25	G68
3867720	B271Z04000HPS KN25	G68
3867721	B271Z04500HPS KN25	G68
3867722	B271Z04763HPS KN25	G68
3867753	B271Z05000HPS KN25	G68
3867754	B271Z05500HPS KN25	G68
3867755	B271Z06000HPS KN25	G68
3867756	B271Z06200HPS KN25	G68
3867757	B271Z06350HPS KN25	G68
3867758	B271Z06500HPS KN25	G69
3867759	B271Z06746HPS KN25	G69
3867760	B271Z07000HPS KN25	G69
3867761	B271Z07145HPS KN25	G69
3867762	B271Z07500HPS KN25	G69
3867763	B271Z08000HPS KN25	G69
3867765	B271Z08500HPS KN25	G69
3867766	B271Z08733HPS KN25	G69
3867767	B271Z09000HPS KN25	G69
3867768	B271Z09500HPS KN25	G69
3867769	B271Z09525HPS KN25	G69
3867770	B271Z10000HPS KN25	G69
3867771	B272Z03000HPS KN25	G70
3867772	B272Z03175HPS KN25	G70
3867803	B272Z03300HPS KN25	G70
3867804	B272Z03500HPS KN25	G70
3867805	B272Z03970HPS KN25	G70
3867806	B272Z04000HPS KN25	G70
3867807	B272Z04500HPS KN25	G70
3867808	B272Z04763HPS KN25	G70
3867809	B272Z05000HPS KN25	G70
3867810	B272Z05500HPS KN25	G70
3867811	B272Z06000HPS KN25	G70
3867812	B272Z06200HPS KN25	G70
3867813	B272Z06350HPS KN25	G70
3867814	B272Z06500HPS KN25	G70
3867815	B272Z06746HPS KN25	G70
3867816	B272Z07000HPS KN25	G71
3867817	B272Z07145HPS KN25	G71
3867818	B272Z07500HPS KN25	G71
3867819	B272Z08000HPS KN25	G71
3867820	B272Z08500HPS KN25	G71
3867821	B272Z08733HPS KN25	G71
3867822	B272Z09000HPS KN25	G71
3867823	B272Z09525HPS KN25	G71
3867824	B272Z09750HPS KN25	G71
3867825	B272Z10000HPS KN25	G71
3867828	B274Z03000HPS KN25	G73
3867829	B274Z03175HPS KN25	G73
3867830	B274Z03500HPS KN25	G73
3867831	B274Z04000HPS KN25	G73
3867832	B274Z04500HPS KN25	G73
3867833	B273Z03000HPS KN25	G72
3867834	B273Z03175HPS KN25	G72
3867835	B273Z03500HPS KN25	G72
3867836	B273Z04000HPS KN25	G72
3867837	B273Z04500HPS KN25	G72
3867838	B273Z05000HPS KN25	G72
3867839	B273Z05500HPS KN25	G72
3867840	B273Z06000HPS KN25	G72
3867841	B273Z06350HPS KN25	G72
3867842	B273Z06500HPS KN25	G72
3867843	B273Z06746HPS KN25	G72
3867844	B273Z07000HPS KN25	G72
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3867873	B274Z05000HPS KN25	G73
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3868079	T620M030X050R6HX-D1 KM6515	M11
3868080	T620M040X070R6HX-D1 KM6515	M11
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3868082	T620M060X100R6HX-D1 KM6515	M11
3868093	T620M080X125R6HX-D1 KM6515	M11
3868094	T620M100X150R6HX-D1 KM6515	M11
3868095	T620M120X175R6HX-D6 KM6515	M11
3868096	T620M140X200R6HX-D6 KM6515	M11
3868097	T620M160X200R6HX-D6 KM6515	M11
3868099	T620M200X250R6HX-D6 KM6515	M11
3868110	T620MF080X100R6HX-D4 KM6515	M11
3868111	T620MF100X100R6HX-D4 KM6515	M11
3868114	T620MF120X150R6HX-D4 KM6515	M11
3868116	T620MF140X150R6HX-D4 KM6515	M11
3868117	T620MF160X150R6HX-D4 KM6515	M11
3868118	T620MF180X150R6HX-D4 KM6515	M11
3868174	T620M030X050R6HX-D1 KP6525	M11
3868175	T620M040X070R6HX-D1 KP6525	M11
3868176	T620M050X080R6HX-D1 KP6525	M11
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3868178	T620M080X125R6HX-D1 KP6525	M11
3868179	T620M100X150R6HX-D1 KP6525	M11
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3868216	T620MF100X100R6HX-D4 KP6525	M11
3868217	T620MF100X125R6HX-D4 KP6525	M11
3868219	T620MF120X150R6HX-D4 KP6525	M11
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3868222	T620MF160X150R6HX-D4 KP6525	M11
3868223	T620MF180X150R6HX-D4 KP6525	M11
3868469	B291A04800YPL KC7315	G88
3868571	T630M030X050R6HX-D1 KP6525	M50
3868572	T630M040X070R6HX-D1 KP6525	M50
3868825	T630M030X050R6HX-D1 KM6515	M50
3868826	T630M040X070R6HX-D1 KM6515	M50
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3868829	T630M080X125R6HX-D1 KM6515	M50
3868830	T630M100X150R6HX-D1 KM6515	M50
3868831	T630M120X175R6HX-D6 KM6515	M50
3868832	T630M140X200R6HX-D6 KM6515	M50
3868843	T630M160X200R6HX-D6 KM6515	M50
3868844	T630M180X250R6HX-D6 KM6515	M50
3868856	T630MF080X100R6HX-D4 KM6515	M50
3868857	T630MF100X100R6HX-D4 KM6515	M50
3868858	T630MF100X125R6HX-D4 KM6515	M50
3868860	T630MF120X150R6HX-D4 KM6515	M50
3868862	T630MF140X150R6HX-D4 KM6515	M50
3868863	T630MF160X150R6HX-D4 KM6515	M50
3868864	T630MF180X150R6HX-D4 KM6515	M50
3868923	T630M050X080R6HX-D1 KP6525	M50
3868924	T630M060X100R6HX-D1 KP6525	M50
3868925	T630M080X125R6HX-D1 KP6525	M50
3868926	T630M100X150R6HX-D1 KP6525	M50
3868927	T630M120X175R6HX-D6 KP6525	M50
3868928	T630M140X200R6HX-D6 KP6525	M50
3868929	T630M160X200R6HX-D6 KP6525	M50
3868930	T630M180X250R6HX-D6 KP6525	M50
3868933	T630M240X300R6HX-D6 KP6525	M54
3868942	T630MF080X100R6HX-D4 KP6525	M50
3868943	T630MF100X100R6HX-D4 KP6525	M50
3868944	T630MF100X125R6HX-D4 KP6525	M50
3868946	T630MF120X150R6HX-D4 KP6525	M50
3868948	T630MF140X150R6HX-D4 KP6525	M50
3868949	T630MF160X150R6HX-D4 KP6525	M50
3868950	T630MF180X150R6HX-D4 KP6525	M50
3868976	T631M050X080R6HX-D1 KP6525	M51
3868977	T631M060X100R6HX-D1 KP6525	M51
3868978	T631M080X125R6HX-D1 KP6525	M51
3868979	T631M100X150R6HX-D1 KP6525	M51
3868980	T631M120X175R6HX-D6 KP6525	M51
3868981	T631M140X200R6HX-D6 KP6525	M51
3868982	T631M160X200R6HX-D6 KP6525	M51
3868993	T631M180X250R6HX-D6 KP6525	M51
3869003	T631MF080X100R6HX-D4 KP6525	M51
3869004	T631MF100X100R6HX-D4 KP6525	M51
3869005	T631MF100X125R6HX-D4 KP6525	M51
3869006	T631MF120X125R6HX-D4 KP6525	M51
3869007	T631MF120X150R6HX-D4 KP6525	M51
3869008	T631MF140X125R6HX-D4 KP6525	M51
3869009	T631MF140X150R6HX-D4 KP6525	M51
3869010	T631MF160X150R6HX-D4 KP6525	M51
3869011	T631MF180X150R6HX-D4 KP6525	M51
3870038	CRGNR244F	B373
3870444	AADE0125J3D K600	P128
3870446	AADE0125J3E K600	P128
3870448	AADE0188J3C K600	P128
3870450	AADE0188J3D K600	P128
3870452	AADE0188J3E K600	P128
3870455	AADE0250J3D K600	P128
3870457	AADE0250J3E K600	P128
3870459	AADE0250J3F K600	P128
3870460	AADE0250J3FRA K600	P128
3870461	AADE0250J3G K600	P128
3870462	AADE0312J3B K600	P128

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3870464	AADE0375J3F K600	P128
3870466	AADE0375J3G K600	P128
3870468	AADE0375J3D K600	P129
3870469	AADE0375J3DRA K600	P129
3870470	AADE0375J3DRB K600	P129
3870472	AADE0375J3E K600	P129
3870473	AADE0375J3ERA K600	P129
3870474	AADE0375J3ERB K600	P129
3870475	AADE0375J3ERC K600	P129
3870476	AADE0375J3H K600	P129
3870477	AADE0375J3J K600	P129
3871002	A4G0205M2SU02GMN KCU10	C109
3871023	A10RA4SAL2S12N017021	C134
3871027	A16RA4SAL3S14N026036	C134
3871028	A10RA4SAR2S12N017021	C134
3871029	A12RA4SAR2S12N021026	C134
3871030	A16RA4SAR2S12N026036	C134
3871032	A16RA4SAR3S14N026036	C134
3871033	A16RA4SAL2S12M017021	C134
3871034	A20RA4SAL2S12M021026	C134
3871035	A25RA4SAL2S12M026036	C134
3871037	A25RA4SAL3S14M026036	C134
3871038	A16RA4SAR2S12M017021	C134
3871039	A20RA4SAR2S12M021026	C134
3871040	A25RA4SAR2S12M026036	C134
3871041	A20RA4SAR3S14M021026	C134
3871042	A25RA4SAR3S14M026036	C134
3871064	A4G0305M3SU04GMN KCU10	C109
3871065	A4G0405M4SU04GMN KCU10	C109
3871067	A4G0505M5SU04GMN KCU10	C109
3871069	A4G0200M2SP02GUP KCU10	C108
3871070	A4G0300M3SP02GUP KCU10	C108
3871071	A4G0300M3SP04GUP KCU10	C108
3871072	A4G0400M4SP04GUP KCU10	C108
3871073	A4G0400M4SP08GUP KCU10	C108
3871075	A4G0500M5SP08GUP KCU10	C108
3871076	A4G0205M2SU02GUP KCU10	C109
3871077	A4G0305M3SU02GUP KCU10	C109
3871078	A4G0305M3SU04GUP KCU10	C109
3871079	A4G0405M4SU04GUP KCU10	C109
3871081	A4G0505M5SU04GUP KCU10	C109
3871083	A4G0205M2SU02GMN KCU25	C109
3871084	A4G0305M3SU02GMN KCU25	C109
3871085	A4G0305M3SU04GMN KCU25	C109
3871086	A4G0405M4SU04GMN KCU25	C109
3871087	A4G0405M4SU08GMN KCU25	C109
3871088	A4G0505M5SU04GMN KCU25	C109
3871090	A4G0200M2SP02GUP KCU25	C108
3871091	A4G0300M3SP02GUP KCU25	C108
3871092	A4G0300M3SP04GUP KCU25	C108
3871105	A4G0500M5SP04GUP KCU25	C108
3871107	A4G0205M2SU02GUP KCU25	C109
3871108	A4G0305M3SU02GUP KCU25	C109
3871109	A4G0305M3SU04GUP KCU25	C109
3871110	A4G0405M4SU04GUP KCU25	C109
3871112	A4G0505M5SU04GUP KCU25	C109
3871114	A4G0505M5SU08GUP KCU25	C109
3871115	A4R0200M2SP00GMP KCU25	C109
3871116	A4R0300M3SP00GMP KCU25	C109
3871118	A4R0500M5SP00GMP KCU25	C109
3872075	WD50FDS40183M	H126
3872079	WD50FDS45206M	H126
3872564	B292A14200YPL KC7315	G90
3873005	B292A07600YPL KC7315	G89
3873028	B976A11800 KC7315	G137
3876021	B967A08700 KC7315	G131
3876314	CNG454T0820 KYK10	B316
3876315	CNGA432T0820 KYK10	B313
3876316	CNGA433T0420FW KYK10	B313
3876317	CNGA433T0820 KYK10	B313
3876318	CNGA433T0820FW KYK10	B313
3876319	CNGA434T0820 KYK10	B313
3876328	SNGX453T0820 KYK10	B318
3876329	SNGX454T0820 KYK10	B318
3876331	TNGA332T0820 KYK10	B314
3876333	WNGX453T0820 KYK10	B319
3876334	SNGA432T0820 KYK10	B314
3876352	AADF0188J2D K600	P126
3876359	AADF0250J2E K600	P126
3876362	AADF0250J2F K600	P126
3876364	AADF0250J2FRB K600	P126
3876365	AADF0250J2G K600	P126
3876374	AADF0375J2D K600	P126
3876375	AADF0375J2DRA K600	P126
3876376	AADF0375J2DRB K600	P126
3876378	AADF0375J2E K600	P126
3876383	AADF0500J2E K600	P126
3876387	AADF0500J2F K600	P127
3876389	AADF0500J2FRB K600	P126
3876391	AADF0500J2BRA K600	P127
3876392	AADF0500J2G K600	P127
3876393	AADF0500J2GRA K600	P127
3876394	AADF0500J2GRB K600	P127
3876395	AADF0500J2GRC K600	P127
3876396	AADF0500J2CRA K600	P127
3876620	AADF0625J2BRB K600	P127
3876623	AADF0625J2FRB K600	P127
3876627	AADF0625J2GRB K600	P127
3876629	AADF0750J2F K600	P127
3876635	AADF0750J2CRA K600	P127
3876637	AADF0750J2GRA K600	P127
3876647	AADF1000J2D K600	P127
3876843	CNGF432 KB1340	B307
3877207	CFM0402R30RHP KCU40	H43
3877688	B272Z11000HPS KN25	G71
3877827	B967A11500 KC7315	G132
3878037	B292A09800YPL KC7315	G89
3878347	HSK63ASIF80063M	K50
3883100	RIQ06E1312 KC6305	K58
3884395	KSEM1250HPCCLM KC7410	H60
3884396	KSEM1300HPCCLM KC7410	H60, H111
3884397	KSEM1350HPCCLM KC7410	H60
3884398	KSEM1400HPCCLM KC7410	H60, H111
3884399	KSEM1450HPCCLM KC7410	H60
3884400	KSEM1500HPCCLM KC7410	H60, H111
3884401	KSEM1550HPCCLM KC7410	H60
3884402	KSEM1600HPCCLM KC7410	H60, H111
3884433	KSEM1650HPCCLM KC7410	H60
3884434	KSEM1700HPCCLM KC7410	H60, H111
3884435	KSEM1750HPCCLM KC7410	H60
3884436	KSEM1800HPCCLM KC7410	H60, H111
3884437	KSEM1850HPCCLM KC7410	H60
3884438	KSEM1900HPCCLM KC7410	H60, H111
3884439	KSEM1950HPCCLM KC7410	H60
3884440	KSEM2000HPCCLM KC7410	H60, H111
3884441	KSEM2050HPCCLM KC7410	H60
3884442	KSEM2100HPCCLM KC7410	H60, H111
3884443	KSEM2150HPCCLM KC7410	H60
3884444	KSEM2200HPCCLM KC7410	H60, H111
3884445	KSEM2250HPCCLM KC7410	H60
3884446	KSEM2300HPCCLM KC7410	H60, H111
3884447	KSEM2350HPCCLM KC7410	H60
3884448	KSEM2400HPCCLM KC7410	H60, H111
3884449	KSEM2450HPCCLM KC7410	H60
3884450	KSEM2500HPCCLM KC7410	H60, H111
3884451	KSEM2550HPCCLM KC7410	H60
3884452	KSEM2600HPCCLM KC7410	H60, H111
3884453	KSEM2650HPCCLM KC7410	H60
3884454	KSEM2700HPCCLM KC7410	H60, H111
3884455	KSEM2750HPCCLM KC7410	H60
3884456	KSEM2800HPCCLM KC7410	H61, H111
3884457	KSEM2850HPCCLM KC7410	H61
3884458	KSEM2900HPCCLM KC7410	H61, H111
3884459	KSEM2950HPCCLM KC7410	H61
3884460	KSEM3000HPCCLM KC7410	H61, H111
3884461	KSEM3050HPCCLM KC7410	H61
3884462	KSEM3100HPCCLM KC7410	H61, H111
3884463	KSEM3200HPCCLM KC7410	H61, H111
3884464	KSEM0500HPCCL KC7410	H60
3884465	KSEM0509HPCCL KC7410	H60
3884466	KSEM0516HPCCL KC7410	H60
3884467	KSEM0547HPCCL KC7410	H60
3884468	KSEM0563HPCCL KC7410	H60
3884469	KSEM0578HPCCL KC7410	H60
3884470	KSEM0609HPCCL KC7410	H60
3884471	KSEM0625HPCCL KC7410	H60
3884472	KSEM0634HPCCL KC7410	H60
3884473	KSEM0641HPCCL KC7410	H60
3884474	KSEM0656HPCCL KC7410	H60
3884475	KSEM0672HPCCL KC7410	H60
3884476	KSEM0688HPCCL KC7410	H60
3884477	KSEM0719HPCCL KC7410	H60
3884478	KSEM0750HPCCL KC7410	H60
3884479	KSEM0759HPCCL KC7410	H60
3884480	KSEM0766HPCCL KC7410	H60
3884481	KSEM0781HPCCL KC7410	H60
3884482	KSEM0797HPCCL KC7410	H60
3884483	KSEM0813HPCCL KC7410	H60
3884484	KSEM0844HPCCL KC7410	H60
3884485	KSEM0875HPCCL KC7410	H60
3884486	KSEM0884HPCCL KC7410	H60
3884487	KSEM0922HPCCL KC7410	H60
3884488	KSEM0938HPCCL KC7410	H60
3884489	KSEM0969HPCCL KC7410	H60
3884490	KSEM1000HPCCL KC7410	H60
3884491	KSEM1011HPCCL KC7410	H60
3884492	KSEM1031HPCCL KC7410	H60
3884493	KSEM1047HPCCL KC7410	H60
3884494	KSEM1094HPCCL KC7410	H60
3884495	KSEM1109HPCCL KC7410	H61
3884496	KSEM1125HPCCL KC7410	H61
3884497	KSEM1156HPCCL KC7410	H61
3884498	KSEM1172HPCCL KC7410	H61
3884499	KSEM1188HPCCL KC7410	H61
3884500	KSEM1250HPCCL KC7410	H61
3884540	B291A06200YPL KC7315	G88
3884541	B291A11800YPL KC7315	G89
3884593	B291A15800YPL KC7315	G90
3884594	B291A19800YPL KC7315	G90
3884596	B291A05200YPL KC7315	G88
3884923	RCMT1204M0MP KCS10	B240
3885499	BMD300R1206S100L200	V70
3885689	B707A03000FBL KCMS15	G110
3885690	B707A03175FBL KCMS15	G110
3885691	B707A03500FBL KCMS15	G110
3885692	B707A04000FBL KCMS15	G110
3885823	B707A04400FBL KCMS15	G110
3885824	B707A04500FBL KCMS15	G110
3885825	B707A04800FBL KCMS15	G110
3885826	B707A05000FBL KCMS15	G110
3885827	B707A05560FBL KCMS15	G110
3885828	B707A05900FBL KCMS15	G110
3885829	B707A06000FBL KCMS15	G110
3885830	B707A06350FBL KCMS15	G110
3885831	B707A06500FBL KCMS15	G110
3885832	B707A06800FBL KCMS15	G110
3885833	B707A07000FBL KCMS15	G110
3885834	B707A07500FBL KCMS15	G111
3885835	B707A07938FBL KCMS15	G111
3885836	B707A08000FBL KCMS15	G111
3885837	B707A08500FBL KCMS15	G111
3885838	B707A08800FBL KCMS15	G111
3885839	B707A09000FBL KCMS15	G111
3885840	B707A09500FBL KCMS15	G111
3885841	B707A09525FBL KCMS15	G111
3885842	B707A10000FBL KCMS15	G111
3885843	B707A10320FBL KCMS15	G111
3885844	B707A10500FBL KCMS15	G111
3885845	B707A11000FBL KCMS15	G111
3885846	B707A11111FBL KCMS15	G111
3885847	B707A11509FBL KCMS15	G111
3885848	B707A11570FBL KCMS15	G111
3885849	B707A11700FBL KCMS15	G111
3885850	B707A11800FBL KCMS15	G111
3885851	B707A12000FBL KCMS15	G111
3885852	B707A12100FBL KCMS15	G111
3885853	B707A12500FBL KCMS15	G111
3885854	B707A12800FBL KCMS15	G111
3885855	B707A13000FBL KCMS15	G111
3885856	B707A13500FBL KCMS15	G111
3885857	B707A14000FBL KCMS15	G111
3885858	B707A14288FBL KCMS15	G111
3885859	B707A14500FBL KCMS15	G111
3885860	B707A15000FBL KCMS15	G111
3885861	B707A15250FBL KCMS15	G112
3885862	B707A15500FBL KCMS15	G112
3885863	B707A15875FBL KCMS15	G112
3885864	B707A16000FBL KCMS15	G112
3885865	B707A16500FBL KCMS15	G112
3885866	B707A17000FBL KCMS15	G112
3885867	B707A17500FBL KCMS15	G112
3885868	B707A18000FBL KCMS15	G112
3885869	B707A19000FBL KCMS15	G112
3885870	B707A19050FBL KCMS15	G112
3885871	B707A20000FBL KCMS15	G112
3885872	B707A21000FBL KCMS15	G112
3886527	B292A13900YPL KC7315	G90
3890197	B967A07500 KC7315	G131
3891349	B272Z16000HPS KN25	G71
3891648	RPET1605M0SGE KCPK30	V78
3891649	RPET1605M0ELE KCPK30	V78
3891661	B271Z10200HPS KN25	G69
3891662	B271Z10500HPS KN25	G69
3891682	B271Z13500HPS KN25	G69
3891683	B271Z10720HPS KN25	G69
3891684	B271Z11000HPS KN25	G69
3891685	B271Z11500HPS KN25	G69
3891686	B271Z12000HPS KN25	G69
3891687	B271Z12500HPS KN25	G69
3891688	B271Z12700HPS KN25	G69
3891689	B271Z13000HPS KN25	G69
3891690	B272Z10200HPS KN25	G71
3891691	B272Z10500HPS KN25	G71
3891692	B272Z10720HPS KN25	G71
3891693	B272Z11500HPS KN25	G71
3891695	B272Z12000HPS KN25	G71
3891696	B272Z12500HPS KN25	G71
3891697	B272Z12700HPS KN25	G71
3891698	B272Z13000HPS KN25	G71
3891700	B273Z10500HPS KN25	G72
3891702	B273Z11000HPS KN25	G72
3891703	B273Z11500HPS KN25	G72
3891704	B273Z12000HPS KN25	G72
3891705	B273Z12500HPS KN25	G72
3891707	B273Z13000HPS KN25	G72
3891708	B274Z10200HPS KN25	G74
3891711	B274Z11000HPS KN25	G74
3891712	B274Z11500HPS KN25	G74
3891713	B274Z12000HPS KN25	G74
3891714	B274Z12500HPS KN25	G74
3891716	B274Z13000HPS KN25	G74
3891733	B271Z14000HPS KN25	G69
3891734	B271Z14290HPS KN25	G69
3891737	B271Z15500HPS KN25	G69
3891738	B271Z15870HPS KN25	G69
3891739	B271Z16000HPS KN25	G69
3891741	B272Z13500HPS KN25	G71
3891742	B272Z14000HPS KN25	G71
3891744	B272Z14500HPS KN25	G71
3891745	B272Z15000HPS KN25	G71
3891746	B272Z15500HPS KN25	G71
3891747	B272Z15870HPS KN25	G71
3891748	B273Z13100HPS KN25	G72
3891750	B273Z14000HPS KN25	G72
3891751	B273Z14290HPS KN25	G72
3891752	B273Z14500HPS KN25	G72
3891882	BMD150R1204S050L158	V70
3891915	BMD150R1204W150L200	V68
3894804	B707A03000FBS KN15	G110
3894805	B707A03175FBS KN15	G110
3894806	B707A03500FBS KN15	G110
3894807	B707A04000FBS KN15	G110
3894808	B707A04400FBS KN15	G110
3894809	B707A04500FBS KN15	G110
3894810	B707A04800FBS KN15	G110
3894811	B707A05000FBS KN15	G110
3894812	B707A05560FBS KN15	G110
3894823	B707A05900FBS KN15	G110

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
3894824	B707A06000FBS KN15	G110
3894825	B707A06350FBS KN15	G110
3894826	B707A06500FBS KN15	G110
3894827	B707A06800FBS KN15	G110
3894828	B707A07000FBS KN15	G110
3894829	B707A07500FBS KN15	G111
3894830	B707A07938FBS KN15	G111
3894831	B707A08000FBS KN15	G111
3894832	B707A08500FBS KN15	G111
3894833	B707A08800FBS KN15	G111
3894834	B707A09000FBS KN15	G111
3894835	B707A09500FBS KN15	G111
3894836	B707A09525FBS KN15	G111
3894837	B707A10000FBS KN15	G111
3894838	B707A10320FBS KN15	G111
3894839	B707A10500FBS KN15	G111
3894840	B707A11000FBS KN15	G111
3894841	B707A11111FBS KN15	G111
3894842	B707A11509FBS KN15	G111
3894843	B707A11570FBS KN15	G111
3894844	B707A11700FBS KN15	G111
3894845	B707A11800FBS KN15	G111
3894846	B707A12000FBS KN15	G111
3894847	B707A12100FBS KN15	G111
3894848	B707A12500FBS KN15	G111
3894849	B707A12800FBS KN15	G111
3894850	B707A13000FBS KN15	G111
3894851	B707A13500FBS KN15	G111
3894852	B707A14000FBS KN15	G111
3894853	B707A14288FBS KN15	G111
3894854	B707A14500FBS KN15	G111
3894855	B707A15000FBS KN15	G111
3894856	B707A15250FBS KN15	G112
3894857	B707A15500FBS KN15	G112
3894858	B707A15875FBS KN15	G112
3894859	B707A16000FBS KN15	G112
3894860	B707A16500FBS KN15	G112
3894861	B707A17000FBS KN15	G112
3894862	B707A17500FBS KN15	G112
3894863	B707A18000FBS KN15	G112
3894864	B707A19000FBS KN15	G112
3894865	B707A19050FBS KN15	G112
3894866	B707A20000FBS KN15	G112
3894867	B707A21000FBS KN15	G112
3895815	B291A09300YPL KC7315	G89
3897779	M1D100E1003C075L480	T31
3897780	M1D100E1004C075L480	T31
3897781	M1D100E1003W075L125	T30
3897782	M1D100E1004W075L125	T30
3899134	UCDE219J5BS KC643M	P30
3899135	UCDE281J5BS KC643M	P30
3899136	UCDE344J5BS KC643M	P30
3899137	UCDE375J5CRA KC643M	P30
3899138	UCDE375J5CRB KC643M	P30
3899139	UCDE438J5BS KC643M	P30
3899140	UCDE500J5BRD KC643M	P30
3899141	UCDE562J5BS KC643M	P30
3899142	UCDE562J5BRA KC643M	P30
3899193	UCDE562J5BRB KC643M	P30
3899194	UCDE625J5BRA KC643M	P30
3899195	UCDE625J5BRD KC643M	P30
3899196	UCDE750J5BRA KC643M	P30
3899197	UCDE750J5CS KC643M	P31
3899198	UCDE750J5CRB KC643M	P31
3899199	UCDE750J5CRD KC643M	P31
3899201	UCDE750J5CRF KC643M	P31
3899202	UCDE1000J5BRA KC643M	P31
3899939	WNMG332FP KCP10	B158
3901561	B292A04700YPL KC7315	G88
3902132	KM40TSNEL2	D31
3902167	B292A07900YPL KC7315	G89
3902171	B291A17900YPL KC7315	G90
3902283	KM40TSNEL3	D31
3902284	KM40TSNEL4	D31
3902285	KM40TSNER2	D31
3902286	KM40TSNER3	D31
3902287	KM40TSNER4	D31
3902288	KM40TSNRL3045M	D33
3902289	KM40TSNRR3045M	D33
3902290	KM40TSNSL2	D33
3902291	KM40TSNSL3	D33
3902292	KM40TSNSL4	D33
3902293	KM40TSNSR2	D33
3902294	KM40TSNSR3	D33
3902295	KM40TSNSR4	D33
3902973	B291A04400YPL KC7315	G88
3903498	B978A03300 KC7315	G139
3903995	B291A08600YPL KC7315	G89
3904143	B291A03454YPL KC7315	G88
3904144	B291A03970YPL KC7315	G88
3904146	B291A04851YPL KC7315	G88
3904147	B291A04915YPL KC7315	G88
3904148	B291A05410YPL KC7315	G88
3904149	B291A06747YPL KC7315	G89
3904150	B291A07144YPL KC7315	G89
3904151	B291A07938YPL KC7315	G89
3904152	B291A08733YPL KC7315	G89
3904153	B291A08900YPL KC7315	G89
3904154	B291A09129YPL KC7315	G89
3904155	B291A09700YPL KC7315	G89
3904156	B291A10716YPL KC7315	G89
3904157	B291A11509YPL KC7315	G89
3904158	B291A11908YPL KC7315	G89
3904159	B291A12300YPL KC7315	G90
3904160	B291A14288YPL KC7315	G90
3904161	B291A15875YPL KC7315	G90
3904162	B291A16100YPL KC7315	G90
3904163	B291A17463YPL KC7315	G90
3904164	B291A17500YPL KC7315	G90
3904165	B291A19050YPL KC7315	G90
3904168	B292A03970YPL KC7315	G88
3904169	B292A04763YPL KC7315	G88
3904170	B292A04851YPL KC7315	G88
3904171	B292A04915YPL KC7315	G88
3904172	B292A08600YPL KC7315	G89
3904173	B292A08900YPL KC7315	G89
3904174	B292A09130YPL KC7315	G89
3904175	B292A09700YPL KC7315	G89
3904176	B292A11509YPL KC7315	G89
3904177	B292A11908YPL KC7315	G89
3904178	B292A12700YPL KC7315	G90
3904179	B292A14288YPL KC7315	G90
3904180	B292A15875YPL KC7315	G90
3904182	B292A17463YPL KC7315	G90
3906105	R82154	K78
3949799	B291A10200YPL KC7315	G89
3949899	A4R1005M10U00GMN KCP25	C107
3950219	WD32FDS32146M	H126
3950220	WD32FDS36166M	H126
3950221	WD50FDS50228M	H126
3950222	WD50FDS56259M	H126
3950333	WD50FDS63289M	H126
3950688	B291A05900YPL KC7315	G88
3950831	KM40TSLSEL16N	D79
3950832	KM40TSLSER16N	D79
3950854	KM40TSLSER22N	D79
3950855	KM40TSLSSL16	D78
3950856	KM40TSLSSL22	D78
3950857	KM40TSLSSR16	D78
3950858	KM40TSLSSR22	D78
3951835	KM40TSE16JNEL2 KWH	D40
3951836	KM40TSE16JNER2 KWH	D40
3952192	SSF150FDS320573	H128
3952343	SSF150FDS360652	H128
3952344	SSF200FDS400721	H128
3952345	SSF200FDS450809	H128
3952346	SSF200FDS500896	H128
3952347	SSF200FDS561020	H128
3952348	SSF200FDS631138	H128
3954092	SNMG644RN KCPK05	B105
3954294	G32TTB41KM40	B410
3954295	G40TTB51KM40	B410
3954296	G48TTB63KM63	B410
3955480	KM40TSS12ENEL2	D39
3955481	KM40TSS12ENER2	D39
3955482	KM40TSS16FNEL2	D39
3955483	KM40TSS16FNER2	D39
3955484	KM40TSS20GNEL2	D39
3955485	KM40TSS20GNER2	D39
3955486	KM40TSS25ENEL2	D39
3955487	KM40TSS25ENER2	D39
3955489	KM40TSS25HNER2	D39
3955490	KM40TSS25ENEL3	D39
3955491	KM40TSS25ENER3	D39
3955492	KM40TSS25HNEL3	D39
3955493	KM40TSS25HNER3	D39
3955495	KM40TSS32JNER3	D39
3955496	KM40TSS32GNEL3	D39
3955497	KM40TSS32GNER3	D39
3955980	B967A12700 KC7315	G132
3956013	B967A06000 KC7315	G130
3956014	B967A07000 KC7315	G131
3956017	B967A07400 KC7315	G131
3956018	B967A06700 KC7315	G131
3958813	EP1812SGE KC522M	T84
3958816	EP1812SGE KCPK30	T84
3958876	EP1832SGE KCPK30	T84
3959399	KM40TSLSER27N	D79
3959400	KM40TSLSSL27	D78
3959401	KM40TSLSSR27	D78
3959611	EC1002ELD KC725M	T36, T45
3959612	EC1002ELD KCPK30	T36, T45
3959613	EC1812EJ KC422M	T82
3959614	EC1816EJ KC422M	T82
3959615	EC1832EJ KC422M	T82
3960761	S-2165-C	S56
3960806	CNGX434S0820 KB1340	B307
3960807	CNGX433S0415 KB1340	B307
3960808	CNGX433S0415FW KB1340	B307
3960812	SNGX434S0820 KB1340	B308
3965546	SSF150HTS130450	J89
3965548	SSF200HTS130450	J89
3965549	SSF200HTS160450	J89
3965550	SSF200HTS220550	J89
3965551	SSF200HTS270550	J89
3965552	SSF200HTS320550	J89
3965603	SSF250HTS400650	J89
3965604	SSF300HTS500700	J89
3967117	A4BHCR32K0217R	C135–136
3967124	A4BHCL32K0317R	C135–136
3967127	A4BHCL26K0317R	C135–136
3967134	A4BHCR26K0317L	C135–136
3967136	A4BHCL32K0217L	C135–136
3967137	A4BHCL32K0317L	C135–136
3987676	RIQ06E1300 KC6305	K58
3993990	KCI1	V156
3993991	KCI2	V155–156
3994022	A10SCTLPL2	B185, B390
3994693	193.537	H126–129
3994709	B291A04900YPL KC7315	G88
3994711	B291A09800YPL KC7315	G89
3997748	BMD300R1607S100L200	V77
3998775	KSEM1735HPGM KC7315	H54
3999270	TRM50R0720M	E71
3999273	TRM50L0932M	E71
3999274	TRM50R0932M	E71
3999275	TRM50L0632M	E71
3999276	TRM50R0632M	E71
3999277	TRM50L0950M	E71
3999278	TRM50R0950M	E71
4000408	KSEMP2800FDS28A1M	H104, H115, H122
4000409	WD32FDS28128M	H126
4000411	WD32FDS28345M	H127
4002349	BMD400R1209S125L200	V70
4003224	KSEM1010HPG KC7315	H55
4003518	RIQ06R0200 KD1415	K57
4003520	B966A17000 KC7315	G132
4003521	B966A17500 KC7315	G132
4003522	B966A18000 KC7315	G132
4004710	CM215R ASSY	B150–151, B154
4005704	LNUX191940RRP KCP10	E58
4005706	LNUX191940RRP KCP25	E58
4006503	B976A19840 KC7315	G138
4006504	B977A19840 KC7315	G138
4006830	KTIP270R8SS32M	H38
4008096	TNMG332FP KCP10	B123
4011180	EC1850FJ KC410M	T81
4011227	B532A06700SPF KDF400	G100
4025911	B978A04800 KC7315	G139
4026180	T631M050X080R6HX-D1 KM6515	M51
4026181	T631M060X100R6HX-D1 KM6515	M51
4026182	T631M080X125R6HX-D1 KM6515	M51
4026223	T631M100X150R6HX-D1 KM6515	M51
4026224	T631M120X175R6HX-D6 KM6515	M51
4026225	T631M140X200R6HX-D6 KM6515	M51
4026226	T631M160X200R6HX-D6 KM6515	M51
4026227	T631M180X250R6HX-D6 KM6515	M51
4026231	T631MF080X100R6HX-D4 KM6515	M51
4026232	T631MF100X100R6HX-D4 KM6515	M51
4026233	T631MF100X125R6HX-D4 KM6515	M51
4026234	T631MF120X125R6HX-D4 KM6515	M51
4026235	T631MF120X150R6HX-D4 KM6515	M51
4026236	T631MF140X125R6HX-D4 KM6515	M51
4026237	T631MF140X150R6HX-D4 KM6515	M51
4026238	T631MF160X150R6HX-D4 KM6515	M51
4026239	T631MF180X150R6HX-D4 KM6515	M51
4027886	T621M050X080R6HX-D1 KM6515	M12
4027887	T621M060X100R6HX-D1 KM6515	M12
4027888	T621M080X125R6HX-D1 KM6515	M12
4027889	T621M100X150R6HX-D1 KM6515	M12
4027890	T621M120X175R6HX-D6 KM6515	M12
4027916	T621M140X200R6HX-D6 KM6515	M12
4027917	T621M160X200R6HX-D6 KM6515	M12
4027918	T621M180X250R6HX-D6 KM6515	M12
4027919	T621MF080X100R6HX-D4 KM6515	M12
4027920	T621MF100X100R6HX-D4 KM6515	M12
4027921	T621MF100X125R6HX-D4 KM6515	M12
4027922	T621MF120X150R6HX-D4 KM6515	M12
4027923	T621MF140X150R6HX-D4 KM6515	M12
4027924	T621MF160X150R6HX-D4 KM6515	M12
4027925	T621MF180X150R6HX-D4 KM6515	M12
4028488	T621M050X080R6HX-D1 KP6525	M12
4028489	T621M060X100R6HX-D1 KP6525	M12
4028490	T621M080X125R6HX-D1 KP6525	M12
4028491	T621M100X150R6HX-D1 KP6525	M12
4028492	T621M120X175R6HX-D6 KP6525	M12
4028503	T621M140X200R6HX-D6 KP6525	M12
4028504	T621M160X200R6HX-D6 KP6525	M12
4028505	T621M180X250R6HX-D6 KP6525	M12
4028506	T621MF080X100R6HX-D4 KP6525	M12
4028507	T621MF100X100R6HX-D4 KP6525	M12
4028508	T621MF100X125R6HX-D4 KP6525	M12
4028509	T621MF120X125R6HX-D4 KP6525	M12
4028510	T621MF120X150R6HX-D4 KP6525	M12
4028511	T621MF140X125R6HX-D4 KP6525	M12
4028512	T621MF140X150R6HX-D4 KP6525	M12
4028513	T621MF160X150R6HX-D4 KP6525	M12
4028514	T621MF180X150R6HX-D4 KP6525	M12
4028861	B271Z02383KMS KN25	G68
4028862	B271Z02400KMS KN25	G68
4028873	B271Z02439KMS KN25	G68
4028874	B271Z02489KMS KN25	G68
4028875	B271Z02500KMS KN25	G68
4028876	B271Z02578KMS KN25	G68
4028877	B271Z02600KMS KN25	G68
4028880	B271Z02779KMS KN25	G68
4028881	B271Z02800KMS KN25	G68
4028882	B271Z02820KMS KN25	G68
4028883	B271Z02870KMS KN25	G68
4028884	B271Z02900KMS KN25	G68
4028885	B271Z02947KMS KN25	G68
4028886	B272Z02383KMS KN25	G70
4028887	B272Z02400KMS KN25	G70
4028888	B272Z02439KMS KN25	G70
4028889	B272Z02489KMS KN25	G70
4028890	B272Z02500KMS KN25	G70
4028896	B272Z02800KMS KN25	G70
4028900	B272Z02947KMS KN25	G70
4028901	B273Z02383KMS KN25	G72
4028903	B273Z02439KMS KN25	G72
4028910	B273Z02779KMS KN25	G72
4028911	B273Z02800KMS KN25	G72
4028912	B273Z02820KMS KN25	G72
4028913	B273Z02870KMS KN25	G72
4028915	B273Z02947KMS KN25	G72
4028916	B274Z02383KMS KN25	G73
4028917	B274Z02400KMS KN25	G73
4028918	B274Z02439KMS KN25	G73
4028920	B274Z02500KMS KN25	G73
4028922	B274Z02600KMS KN25	G73
4028923	B274Z02642KMS KN25	G73
4028925	B274Z02779KMS KN25	G73
4028926	B274Z02800KMS KN25	G73
4028928	B274Z02870KMS KN25	G73
4028929	B274Z02900KMS KN25	G73
4028930	B274Z02947KMS KN25	G73

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4029315	HNPJ755ANSNGD KC725M	S25
4029316	HNPJ755ANSNGD KCPK30	S25
4032274	MEGA45D500LN863M6	S94
4032277	MEGA45D800LN863M10	S94
4032278	MEGA45D1000LN863M10	S94
4032279	MEGA45D1200LN863M10	S94
4033713	B707A12700FBS KN15	G111
4033714	B707A12700FBL KCMS15	G111
4033829	NA4L8 KCU25	D11
4033830	NA4R4 KCU25	D11
4033833	NA6L2 KCU25	D11
4033834	NA6L25 KCU25	D11
4033835	NA6L3 KCU25	D11
4033836	NA6R2 KCU25	D11
4033838	NA6R3 KCU25	D11
4033841	ND4050R KCU25	D12
4033845	NDC38RDL75 KCU25	D13
4033846	NDC38RDR75 KCU25	D13
4033852	NG1031L KCU25	C170
4033853	NG1047L KCU25	C170
4033854	NG1062L KCU25	C170
4033855	NG1094L KCU25	C170
4033856	NG5312R KCU25	C170
4033858	NG6375R KCU25	C170
4033859	NT1L KCU25	D23
4033863	NTB3RB KCU25	D18
4033872	NTC3R12E KCU25	D20
4033877	NTC3R18E KCU25	D20
4033882	NTU4R KCU25	D22
4033883	NU3094L KCU25	C175
4033886	NU3125R KCU25	C175
4033887	NV3RJ KCU25	C176
4033888	NV4LL KCU25	C176
4033889	NV4RL KCU25	C176
4033892	NWC3R14E KCU25	D23
4034717	A4G0200M02P02GMP KCU10	C105
4034718	A4G0205M02U02GMN KCU10	C106
4034720	A4G0250M2BP02GMP KCU10	C105
4034721	A4G0300M03P02GMP KCU10	C105
4034722	A4G0300M03P04GMP KCU10	C105
4034773	A4G0305M03U02GMN KCU10	C106
4034774	A4G0305M03U02GMP KCU10	C105
4034775	A4G0305M03U04GMN KCU10	C106
4034776	A4G0305M03U04GMP KCU10	C105
4034777	A4G0400M04P02GMP KCU10	C105
4034778	A4G0400M04P04GMP KCU10	C105
4034779	A4G0400M04P08GMP KCU10	C105
4034780	A4G0405M04U04GMN KCU10	C106
4034781	A4G0405M04U04GMP KCU10	C105
4034782	A4G0405M04U08GMN KCU10	C106
4034784	A4G0500M05P04GMP KCU10	C105
4034785	A4G0500M05P08GMP KCU10	C105
4034786	A4G0505M05U04GMN KCU10	C106
4034787	A4G0505M05U04GMP KCU10	C105
4034788	A4G0505M05U08GMN KCU10	C106
4034790	A4G0600M06P04GMP KCU10	C105
4034791	A4G0600M06P08GMP KCU10	C105
4034792	A4G0605M06U04GMN KCU10	C106
4034794	A4G0605M06U08GMN KCU10	C106
4034799	A4G0800M08P12GMP KCU10	C105
4034800	A4G0805M08U08GMN KCU10	C106
4034802	A4G094I2BP05GMN KCU10	C107
4034805	A4G1005M10U08GMP KCU10	C105
4034806	A4G125I03P05GMN KCU10	C107
4034807	A4G125I03P1GMN KCU10	C107
4034808	A4G187I04P1GMN KCU10	C107
4034809	A4G187I04P2GMN KCU10	C107
4034810	A4G250I06P1GMN KCU10	C107
4034811	A4G250I06P2GMN KCU10	C107
4034812	A4G375I10P2GMN KCU10	C107
4034813	A4R0200M02P00GMP KCU10	C106
4034815	A4R0300M03P00GMP KCU10	C106
4034816	A4R0305M03U00GMN KCU10	C107
4034817	A4R0400M04P00GMP KCU10	C106
4034818	A4R0405M04U00GMN KCU10	C107
4034819	A4R0500M05P00GMP KCU10	C106
4034820	A4R0505M05U00GMN KCU10	C107
4034821	A4R0600M06P00GMP KCU10	C106
4034822	A4R0605M06U00GMN KCU10	C107
4034823	A4R0800M08P00GMP KCU10	C106
4034824	A4R0805M08U00GMN KCU10	C107
4034825	A4R1005M10U00GMN KCU10	C107
4034826	A4R125I03P00GMN KCU10	C107
4034827	A4R187I04P00GMN KCU10	C107
4034828	A4R250I06P00GMN KCU10	C107
4034829	A4R312I08P00GMN KCU10	C107
4034878	WOEJ090512SRHD KC522M	V39
4034880	WOEJ090512SRHD KC725M	V39
4034881	WOEJ090512SRHD KCPK30	V39
4034882	WOEJ090512SRGD KC522M	V39
4034925	WOEJ090512SRGD KC725M	V39
4034927	WOEJ090512SRGD KCPK30	V39
4035459	T640M040X070R6HX-D1 KP6525	M120
4035460	T640M050X080R6HX-D1 KP6525	M120
4035461	T640M060X100R6HX-D1 KP6525	M120
4035462	T640M080X125R6HX-D1 KP6525	M120
4035463	T640M100X150R6HX-D1 KP6525	M120
4035464	T640M120X175R6HX-D6 KP6525	M120
4035465	T640M140X200R6HX-D6 KP6525	M120
4035466	T640M160X200R6HX-D6 KP6525	M120
4035467	T640M180X250R6HX-D6 KP6525	M120
4035468	T640M200X250R6HX-D6 KP6525	M120
4035469	T640M220X250R6HX-D6 KP6525	M120
4035505	T640NC#10-24R3BX-A KP6525	M117
4035506	T640NF#10-32R3BX-A KP6525	M117
4035507	T640NC02500-20R2BX-A KP6525	M117
4035508	T640NC02500-20R3BX-A KP6525	M117
4035509	T640NF02500-28R2BX-A KP6525	M117
4035510	T640NF02500-28R3BX-A KP6525	M117
4035511	T640NC03125-18R2BX-A KP6525	M117
4035512	T640NC03125-18R3BX-A KP6525	M117
4035525	T641M050X080R6HX-D1 KP6525	M121
4035526	T641M060X100R6HX-D1 KP6525	M121
4035527	T641M080X125R6HX-D1 KP6525	M121
4035528	T641M100X150R6HX-D1 KP6525	M121
4035529	T641M120X175R6HX-D6 KP6525	M121
4035530	T641M140X200R6HX-D6 KP6525	M121
4035531	T641M160X200R6HX-D6 KP6525	M121
4035532	T641M180X250R6HX-D6 KP6525	M121
4035533	T641M200X250R6HX-D6 KP6525	M121
4035543	T640NF03125-24R3BX-A KP6525	M117
4035544	T640NC03750-16R2BX-A KP6525	M117
4035545	T640NC03750-16R3BX-A KP6525	M117
4035546	T640NF03750-24R3BX-A KP6525	M117
4035547	T640NC04375-14R3BX-A KP6525	M117
4035548	T640NF04375-20R3BX-A KP6525	M117
4035549	T640NC05000-13R3BX-A KP6525	M117
4035550	T640NF05000-20R3BX-A KP6525	M117
4035551	T640NC06250-11R3BX-A KP6525	M117
4035552	T640NC07500-10R3BX-A KP6525	M117
4035585	RCMX3209M0RU KCP10	E67
4035586	RCMX3209M0RU KCK20	E67
4035593	RCMX2507M0RU KCK20	E67
4035595	RCMH2507M0RU KCP25	E66
4035698	LNUX191940RRF KCP10	E57
4036621	RPG32E KYSP30	V157
4036916	LNUX191940RRF KCP25	E57
4038003	LNPU863ANSRHD KCPK30	S95
4038004	LNPU863ANSRHD KCK15	S95
4038005	LNPU863ANSRHD KC725M	S95
4039608	SM-906 KC720	S94, S98, S100
4039774	MS2236	V123
4040133	SPGX070308MD KCU25	J103
4040135	SPGX070308HP KCU25	J103
4040138	SPPX09T310MD KCU25	J103
4040139	SPPX120412MD KCU25	J103
4040141	SPPX120412HP KCU25	J103
4040142	SPPX15T512MD KCU25	J103
4040758	RPET1204M0ELEJ KC422M	V71
4040905	KCI3M	V155–156
4041060	ABDF0188J2AS K600	P116
4041061	ABDF0188J2ARA K600	P116
4041062	ABDF0250J2ARA K600	P116
4041073	ABDF0312J2AS K600	P116
4041074	ABDF0312J2ARA K600	P116
4041075	ABDF0500J2ARE K600	P116
4041076	ABDF0625J2BS K600	P116
4041077	ABDF0625J2BRB K600	P116
4041078	ABDF0625J2BRC K600	P116
4041079	ABDF0625J2BRE K600	P116
4041080	ABDF0750J2BS K600	P116
4041081	ABDF0750J2BRB K600	P116
4041082	ABDF0750J2BRC K600	P116
4041084	ABDF1000J2BS K600	P116
4041085	ABDF1000J2BRB K600	P116
4041086	ABDF1000J2BRC K600	P116
4041088	ABDE0188J3AS K600	P117
4041089	ABDE0188J3ARA K600	P117
4041090	ABDE0312J3AS K600	P117
4041091	ABDE0500J3ARE K600	P117
4041092	ABDE0625J3BS K600	P117
4041093	ABDE0625J3BRB K600	P117
4041094	ABDE0750J3BS K600	P117
4041095	ABDE0750J3BRB K600	P117
4041096	ABDE0750J3BRC K600	P117
4041097	ABDE0750J3BRE K600	P117
4041098	ABDE1000J3BS K600	P117
4041099	ABDE1000J3BRB K600	P117
4041100	ABDE1000J3BRC K600	P117
4041101	ABDE1000J3BRE K600	P117
4042538	B976Z02383 KC7315	G134
4042539	B976Z02400 KC7315	G134
4042540	B976Z02439 KC7315	G134
4042541	B976Z02489 KC7315	G134
4042542	B976Z02500 KC7315	G134
4042543	B976Z02578 KC7315	G134
4042544	B976Z02600 KC7315	G134
4042545	B976Z02642 KC7315	G134
4042546	B976Z02705 KC7315	G134
4042547	B976Z02779 KC7315	G134
4042548	B976Z02800 KC7315	G134
4042549	B976Z02820 KC7315	G134
4042550	B976Z02870 KC7315	G134
4042551	B976Z02900 KC7315	G134
4042552	B976Z02947 KC7315	G134
4042688	BMD125R1203M16L150	V68
4042690	BMD150R1204M16L150	V68
4042691	BMD125R1203W125L200	V68
4042692	BMD125R1203C125L700	V69
4042713	BMD150R1203C125L800	V69
4042714	BMD200R1203S075L200	V70
4042715	BMD200R1205S075L200	V70
4042716	BMD250R1207S100L200	V70
4042717	BMD300R1208S100L200	V70
4042718	BMD400R1207S125L200	V70
4042840	SPGX070308FP KCU25	J104
4042841	SPPX09T310FP KCU25	J104
4042842	SPPX09T310HP KCU25	J103
4042887	SPGX070308FP KCPK10	J104
4042888	SPGX070308MD KCPK10	J103
4042889	SPGX070308HP KCPK10	J103
4042890	SPPX09T310FP KCPK10	J104
4042891	SPPX09T310MD KCPK10	J103
4042892	SPPX09T310HP KCPK10	J103
4042903	SPPX120412FP KCPK10	J104
4042904	SPPX120412MD KCPK10	J103
4042905	SPPX120412HP KCPK10	J103
4042906	SPPX15T512FP KCPK10	J104
4042907	SPPX15T512MD KCPK10	J103
4042908	SPPX15T512HP KCPK10	J103
4042913	SPPX120412FP KCU25	J104
4042914	SPPX15T512FP KCU25	J104
4042915	SPPX15T512HP KCU25	J103
4042933	SPGX070308FP KCU40	J104
4042934	SPGX070308MD KCU40	J103
4042935	SPGX070308HP KCU40	J103
4042936	SPPX09T310FP KCU40	J104
4042937	SPPX09T310MD KCU40	J103
4042938	SPPX09T310HP KCU40	J103
4042939	SPPX120412FP KCU40	J104
4042940	SPPX120412MD KCU40	J103
4042941	SPPX120412HP KCU40	J103
4042942	SPPX15T512FP KCU40	J104
4042943	SPPX15T512MD KCU40	J103
4042944	SPPX15T512HP KCU40	J103
4043037	BMD150R1603M16	V75
4043038	BMD150R1603W125L200	V75
4043039	BMD150R1602C125L800	V76
4043040	BMD200R1603S075L200	V77
4043041	BMD200R1604S075L200	V77
4043042	BMD250R1605S100L200	V77
4043053	BMD300R1605S100L200	V77
4043054	BMD400R1608S125L200	V77
4043056	BMD600R1610S150L250	V77
4044264	B532A07200SPF KDF400	G100
4044820	TCGT2150LF KCU10	B256
4044821	TCGT2151HP KCU10	B256
4044822	TCGT2151LF KCU10	B256
4045101	VNGG3305LF KCU10	B144
4045102	VNGG331LF KCU10	B144
4045134	CCGT21505HP KCU10	B189
4045135	CCGT21505LF KCU10	B189
4045136	CCGT2150LF KCU10	B189
4045137	CCGT2151HP KCU10	B189
4045138	CCGT2151LF KCU10	B189
4045140	CCGT2152LF KCU10	B189
4045141	CCGT32505HP KCU10	B189
4045142	CCGT32505LF KCU10	B189
4045143	VNGG332LF KCU10	B144
4045144	VNGG432LF KCU10	B144
4045145	VNGP330 KCU10	B144
4045146	VNGP3305 KCU10	B144
4045147	VNGP431 KCU10	B144
4045148	VNGP432 KCU10	B144
4045149	VNMG331FF KCU10	B146
4045150	VNMG331MP KCU10	B147
4045151	VNMG331P KCU10	B147
4045163	VNMG332FF KCU10	B146
4045164	VNMG332MP KCU10	B147
4045166	VNMG332P KCU10	B147
4045167	VNMG332RP KCU10	B148
4045168	VNMG332UP KCU10	B148
4045169	VNMG333MP KCU10	B147
4045170	WNGG4305LF KCU10	B156
4045172	WNGG431LF KCU10	B156
4045174	WNMG331FW KCU10	B158
4045175	WNMG331MP KCU10	B159
4045176	WNMG332FW KCU10	B158
4045177	WNMG332MP KCU10	B159
4045178	WNMG332RP KCU10	B161
4045179	WNMG431FW KCU10	B158
4045180	WNMG431P KCU10	B160
4045181	WNMG432FW KCU10	B158
4045182	WNMG432MP KCU10	B159
4045184	WNMG432P KCU10	B160
4045185	WNMG432RP KCU10	B161
4045186	WNMG432UP KCU10	B162
4045187	WNMG433MP KCU10	B159
4045188	WNMG433RP KCU10	B161
4045189	WNMG433UP KCU10	B162
4045193	CCGT3250LF KCU10	B189
4045194	CCGT3251HP KCU10	B189
4045195	CCGT3251LF KCU10	B189
4045196	CCGT3252HP KCU10	B189
4045197	CCGT3252LF KCU10	B189
4045198	CCGT4305HP KCU10	B189
4045199	CCGT431HP KCU10	B189
4045200	CCGT432HP KCU10	B189
4045202	CCMT2151FW KCU10	B190
4045204	CCMT3251FW KCU10	B190
4045205	CCMT3251MW KCU10	B192
4045206	CCMT3252FW KCU10	B190
4045207	CCMT3252MW KCU10	B192
4045210	CPGM3250 KCU10	B205
4045211	CPGM32505 KCU10	B205
4045212	CPGM3251 KCU10	B205
4045213	CPGM3252 KCU10	B205
4045214	CPGT21505HP KCU10	B205
4045215	CPGT21505LF KCU10	B206
4045216	CPGT2150LF KCU10	B206
4045217	CPGT2151HP KCU10	B205
4045218	CPGT2151LF KCU10	B206
4045220	CPGT2152LF KCU10	B206
4045221	CPGT32505HP KCU10	B205
4045222	CPGT32505LF KCU10	B206
4045223	CPGT3251HP KCU10	B205
4045224	CPGT3251LF KCU10	B206
4045225	CPGT3252HP KCU10	B205
4045226	CPGT3252LF KCU10	B206
4045228	CPMT2151FW KCU10	B206
4045229	CPMT2152FW KCU10	B206
4045231	CPMT3251MW KCU10	B208
4045232	CPMT3252FW KCU10	B206
4045237	DCGT21505HP KCU10	B224
4045238	DCGT2150LF KCU10	B224
4045239	DCGT2151HP KCU10	B224
4045240	DCGT2152HP KCU10	B224

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4045241	DCGT32505HP KCU10	B224
4045242	DCGT3250LF KCU10	B224
4045245	DPGR431 KCU10	E32
4045246	DPGR432 KCU10	E32
4045248	NPGR51L KCU10	E33
4045249	NPGR51R KCU10	E33
4045250	NPGR52L KCU10	E33
4045251	NPGR52R KCU10	E33
4045263	DCGT3251HP KCU10	B224
4045264	DCGT3252HP KCU10	B224
4045265	DCGT432LF KCU10	B224
4045266	DCMT3251FW KCU10	B225
4045267	DCMT3251MW KCU10	B226
4045268	DCMT3252FW KCU10	B225
4045269	DCMT3252LF KCU10	B225
4045270	DCMT3252MW KCU10	B226
4045272	DPGT21505LF KCU10	B231
4045274	DPGT2151HP KCU10	B231
4045275	DPGT2151LF KCU10	B231
4045277	DPGT32505LF KCU10	B231
4045279	DPGT3251HP KCU10	B231
4045280	DPGT3251LF KCU10	B231
4045281	DPGT3252HP KCU10	B231
4045282	DPGT3252LF KCU10	B231
4045283	DPMT2152FW KCU10	B232
4045284	RCGT10T3M0HP KCU10	B238
4045285	RCGT1204M0HP KCU10	B238
4045286	RCMT0602M0 KCU10	B240
4045288	RCMT10T3M0 KCU10	B240
4045289	RCMT1204M0 KCU10	B240
4045290	RCMT1605M0 KCU10	B240
4045291	RCMT2006M0 KCU10	B240
4045292	RCMT215 KCU10	B240
4045293	RCMT325 KCU10	B240
4045294	SPGT3251LF KCU10	B252
4045295	SPGT3252LF KCU10	B252
4045316	TCGT3251HP KCU10	B256
4045317	TCGT3251LF KCU10	B256
4045318	TCGT3252HP KCU10	B256
4045319	TCGT3252LF KCU10	B256
4045321	TPGT181505LF KCU10	B267
4045322	TPGT18151LF KCU10	B267
4045323	TPGT21505HP KCU10	B267
4045324	TPGT21505LF KCU10	B267
4045325	TPGT2150LF KCU10	B267
4045327	TPGT2151LF KCU10	B267
4045329	TPGT2152LF KCU10	B267
4045330	TPGT32505HP KCU10	B267
4045331	TPGT3251HP KCU10	B267
4045333	TPGT3252HP KCU10	B267
4045334	TPGT3252LF KCU10	B267
4045335	VBGT2205HP KCU10	B280
4045336	VBGT2205LF KCU10	B280
4045337	VBGT220LF KCU10	B280
4045338	VBGT221HP KCU10	B280
4045339	VBGT221LF KCU10	B280
4045340	VBGT3305LF KCU10	B280
4045341	VBGT330LF KCU10	B280
4045342	VBGT331HP KCU10	B280
4045343	VBGT331LF KCU10	B280
4045344	VBGT332HP KCU10	B280
4045345	WPGT15105UF KCU10	B288
4045346	WPGT1510UF KCU10	B288
4045347	WPGT21505UF KCU10	B288
4045406	NPL332F KCU10	E34
4045409	NPL508 KCU10	E35
4045410	NPL51 KCU10	E35
4045412	NPR1305 KCU10	E34
4045413	NPR1308 KCU10	E34
4045415	NPR132F KCU10	E34
4045416	NPR332 KCU10	E34
4045417	NPR505 KCU10	E35
4045418	NPR508 KCU10	E35
4045419	NPR51 KCU10	E35
4045420	NPR52 KCU10	E35
4045425	VCMR332 KCU10	E37
4045426	VPGR3305 KCU10	E38
4045427	VPGR331 KCU10	E38
4045428	VPGR332 KCU10	E38
4045429	VPGR333 KCU10	E38
4045430	VPGR334 KCU10	E38
4046063	B291A04763YPL KC7315	G88
4046064	B291A11113YPL KC7315	G89
4047419	KSHRHF200HN5315C3	S17
4047420	KSHRHF250HN5315C3	S17
4047421	KSHRHF300HN5315C4	S17
4047422	KSHRHF400HN5315C5	S17
4047583	KSHRHF500HN5315C6	S17
4047584	KSHRHF600HN5315C8	S17
4047693	HPHV125S4025 KCPM15	P16
4047694	HPHV125S4025CH KCPM15	P16
4047696	HPHV125S4025LR015 KCPM15	P16
4047697	HPHV125S4050 KCPM15	P16
4047698	HPHV125S4050CH KCPM15	P16
4047699	HPHV125S4050L KCPM15	P16
4047701	HPHV125S4050R015 KCPM15	P16
4047702	HPHV188S4031 KCPM15	P16
4047703	HPHV188S4031CH KCPM15	P16
4047704	HPHV188S4031L KCPM15	P16
4047705	HPHV188S4031LR015 KCPM15	P16
4047706	HPHV188S4063 KCPM15	P16
4047707	HPHV188S4063CH KCPM15	P16
4047708	HPHV188S4063L KCPM15	P16
4047709	HPHV188S4063LR015 KCPM15	P16
4047710	HPHV188S4063LR030 KCPM15	P16
4047711	HPHV188S4063R015 KCPM15	P16
4047712	HPHV188S4063R030 KCPM15	P16
4047713	HPHV250S4038 KCPM15	P16
4047714	HPHV250S4038CH KCPM15	P16
4047716	HPHV250S4038LR015 KCPM15	P16
4047718	HPHV250S4038R030 KCPM15	P16
4047719	HPHV250S4050 KCPM15	P16
4047720	HPHV250S4050R015 KCPM15	P16
4047721	HPHV250S4050R030 KCPM15	P16
4047722	HPHV250S4050R060 KCPM15	P16
4047723	HPHV250S4075 KCPM15	P17
4047724	HPHV250S4075CH KCPM15	P17
4047725	HPHV250S4075R015 KCPM15	P16
4047726	HPHV250S4075R030 KCPM15	P16
4047727	HPHV250S4075R060 KCPM15	P17
4047728	HPHV250S4100 KCPM15	P17
4047729	HPHV250S4100R015 KCPM15	P17
4047731	HPHV250S4125 KCPM15	P17
4047732	HPHV250S4125CH KCPM15	P17
4047734	HPHV250S4125R030 KCPM15	P17
4047735	HPHV250S4175R015 KCPM15	P17
4047736	HPHV250S4175R030 KCPM15	P17
4047737	HPHV312S4050 KCPM15	P17
4047738	HPHV312S4050CH KCPM15	P17
4047739	HPHV312S4050L KCPM15	P17
4047740	HPHV312S4050LR015 KCPM15	P17
4047742	HPHV312S4050R030 KCPM15	P17
4047743	HPHV312S4075 KCPM15	P17
4047744	HPHV312S4075CH KCPM15	P17
4047745	HPHV312S4075R015 KCPM15	P17
4047746	HPHV312S4075R030 KCPM15	P17
4047747	HPHV312S4075R060 KCPM15	P17
4047748	HPHV312S4125R030 KCPM15	P17
4047749	HPHV375S4050 KCPM15	P17
4047750	HPHV375S4050CH KCPM15	P17
4047751	HPHV375S4050L KCPM15	P17
4047752	HPHV375S4050LR015 KCPM15	P17
4047753	HPHV375S4050LR030 KCPM15	P17
4047754	HPHV375S4050R030 KCPM15	P17
4047755	HPHV375S4088 KCPM15	P17
4047756	HPHV375S4088CH KCPM15	P17
4047757	HPHV375S4088L KCPM15	P17
4047758	HPHV375S4088LR015 KCPM15	P17
4047759	HPHV375S4088LR030 KCPM15	P17
4047761	HPHV375S4088LR090 KCPM15	P17
4047811	KSEMP1125FDS28A1	H104, H115, H122
4047812	KSEMP2900FDS28A1M	H104, H115, H122
4047823	KSEMP1156FDS28A1	H104, H115, H122
4047824	KSEMP3000FDS28A1M	H104, H115, H122
4047825	KSEMP1188FDS28A1	H104, H115, H122
4047826	KSEMP1219FDS28A1	H104, H115, H122
4047827	KSEMP3100FDS28A1M	H104, H115, H122
4047829	SPGX060304MD KC7140	J103
4047830	SPGX070304MD KC7140	J103
4047831	SPPX09T308MD KC7140	J103
4047832	SPPX120408MD KC7140	J103
4047843	SPPX15T508MD KC7140	J103
4047845	D2FIX110404RHP KCU25	E9
4047849	D2FIX150504RHP KCU25	E9
4047850	D2FIX150508RHP KCU25	E9
4047864	C2FIX150512RMN KCU25	E8
4047865	C2FIX110404LMN KCU25	E8
4047867	C2FIX150504LMN KCU25	E8
4047868	C2FIX150508LMN KCU25	E8
4047870	D4FIX140604RMN KCU25	E11
4047871	D4FIX140608RMN KCU25	E11
4048626	HPFSS1000S5200 KCPM15	P109
4048627	HPFSS1000S5325 KCPM15	P109
4048628	HPFSS188S5056 KCPM15	P109
4048629	HPFSS250S5038 KCPM15	P109
4048630	HPFSS250S5075 KCPM15	P109
4048631	HPFSS250S5125 KCPM15	P109
4048632	HPFSS375S5050 KCPM15	P109
4048643	HPFSS375S5088 KCPM15	P109
4048644	HPFSS375S5150 KCPM15	P109
4048645	HPFSS500S5063 KCPM15	P109
4048646	HPFSS500S5125 KCPM15	P109
4048647	HPFSS500S5200 KCPM15	P109
4048648	HPFSS625S5075 KCPM15	P109
4048649	HPFSS625S5163 KCPM15	P109
4048650	HPFSS750S5088 KCPM15	P109
4048651	HPFSS750S5163 KCPM15	P109
4048652	HPFSS750S5325 KCPM15	P109
4048661	UCDE1000J5BRB KCPM15	P31
4048662	UCDE1000J5BRD KCPM15	P31
4048683	HPRSS250S3075 KCPM15	P90
4048684	HPRSS375S3100 KCPM15	P90
4048685	HPRSS500S3125 KCPM15	P90
4048686	HPRSS625S3163 KCPM15	P90
4048687	HPRSS750S3163 KCPM15	P90
4048688	MDRHEC100S5150 KCPM15	P91
4048689	MDRHEC250S4025 KCPM15	P91
4048690	MDRHEC250S4075 KCPM15	P91
4048691	MDRHEC312S4081 KCPM15	P91
4048692	MDRHEC375S4038 KCPM15	P91
4048693	MDRHEC375S4088 KCPM15	P91
4048694	MDRHEC500S4050 KCPM15	P91
4048695	MDRHEC500S4100 KCPM15	P91
4048696	MDRHEC625S4063 KCPM15	P91
4048697	MDRHEC625S4125 KCPM15	P91
4048698	MDRHEC750S4075 KCPM15	P91
4048699	MDRHEC750S4150 KCPM15	P91
4048703	UCDE1000J5BRE KCPM15	P31
4048704	UCDE1000J5BRF KCPM15	P31
4048705	UCDE1000J5BS KCPM15	P31
4048706	UCDE1000K5BRB KCPM15	P31
4048707	UCDE1000K5BRF KCPM15	P31
4048708	UCDE1000K5BS KCPM15	P31
4048709	UCDE188J5BRA KCPM15	P30
4048710	UCDE188J5BRB KCPM15	P30
4048711	UCDE188J5BS KCPM15	P30
4048712	UCDE250J5BRA KCPM15	P30
4048713	UCDE250J5BRB KCPM15	P30
4048714	UCDE250J5BS KCPM15	P30
4048715	UCDE312J5BRA KCPM15	P30
4048716	UCDE312J5BRB KCPM15	P30
4048717	UCDE312J5BS KCPM15	P30
4048718	UCDE375J5BRA KCPM15	P30
4048719	UCDE375J5BRB KCPM15	P30
4048720	UCDE375J5BS KCPM15	P30
4048721	UCDE500J5BRA KCPM15	P30
4048722	UCDE500J5BRB KCPM15	P30
4048723	UCDE500J5BRF KCPM15	P30
4048724	UCDE500J5BS KCPM15	P30
4048725	UCDE500K5BRA KCPM15	P30
4048726	UCDE500K5BRB KCPM15	P30
4048727	UCDE500K5BRF KCPM15	P30
4048728	UCDE500K5BS KCPM15	P30
4048729	UCDE625J5BRB KCPM15	P30
4048730	UCDE625J5BS KCPM15	P30
4048731	UCDE625K5BRB KCPM15	P30
4048732	UCDE625K5BS KCPM15	P30
4048733	UCDE750J5BRB KCPM15	P30
4048734	UCDE750J5BRD KCPM15	P31
4048735	UCDE750J5BRE KCPM15	P31
4048736	UCDE750J5BRF KCPM15	P31
4048737	UCDE750J5BS KCPM15	P31
4048738	UCDE750K5BRB KCPM15	P30
4048740	UCDE750K5BS KCPM15	P31
4048741	UCDE1000K5ARB KCPM15	P32
4048742	UCDE250J5ARA KCPM15	P32
4048743	UCDE375J5ARA KCPM15	P32
4048744	UCDE500K5ARB KCPM15	P32
4048745	UCDE625K5ARB KCPM15	P32
4048746	UCDE750K5ARB KCPM15	P32
4050057	CNMG432RP KCU25	B53
4050058	RCGT0803M0HP KCU25	B238
4050060	CNGP432 KCU10	B46
4050061	CNMG432FP KCU10	B49
4050062	CNMG433FP KCU10	B49
4050332	KSEM1932HPGM KC7315	H54
4050372	CCGT21505HP KCU25	B189
4050395	CNGG4305FS KCU25	B46
4050397	CNGG431FS KCU25	B46
4050398	CNGG432FS KCU25	B46
4050399	CNMG4305MS KCU25	B52
4050400	CNMG430MS KCU25	B52
4050402	CNMG431MS KCU25	B52
4050403	CCGT2151HP KCU25	B189
4050404	CCGT2152HP KCU25	B189
4050405	CCGT32505HP KCU25	B189
4050406	CCGT3251HP KCU25	B189
4050407	CCGT3252HP KCU25	B189
4050408	CCGT4305HP KCU25	B189
4050410	CCGT432HP KCU25	B189
4050412	CPGM32505 KCU25	B205
4050413	CPGM3251 KCU25	B205
4050414	CPGM3252 KCU25	B205
4050415	CPGT21505HP KCU25	B205
4050416	CPGT2151HP KCU25	B205
4050417	CPGT2152HP KCU25	B205
4050419	CPGT3251HP KCU25	B205
4050420	CPGT3252HP KCU25	B205
4050421	DCGT21505HP KCU25	B224
4050422	DCGT2151HP KCU25	B224
4050424	DCGT32505HP KCU25	B224
4050425	DCGT3251HP KCU25	B224
4050426	DCGT3252HP KCU25	B224
4050428	DPGT2151HP KCU25	B231
4050429	DPGT2152HP KCU25	B231
4050430	DPGT3251HP KCU25	B231
4050431	DPGT3252HP KCU25	B231
4050432	RCGT10T3M0HP KCU25	B238
4050434	TCGT21505HP KCU25	B256
4050435	TCGT2151HP KCU25	B256
4050437	TCGT32505HP KCU25	B256
4050441	TPGT2151HP KCU25	B267
4050444	TPGT3251HP KCU25	B267
4050445	TPGT3252HP KCU25	B267
4050447	VBGT221HP KCU25	B280
4050448	VBGT331HP KCU25	B280
4050449	VBGT332HP KCU25	B280
4050451	CNMG432MP KCU25	B51
4050452	CNMG433MP KCU25	B51
4050453	CNMG431RP KCU25	B53
4050454	CNMG432MS KCU25	B52
4050455	CNMG433MS KCU25	B52
4050456	CNMG433RP KCU25	B53
4050458	CNMG434MS KCU25	B52
4050459	CNMG434RP KCU25	B53
4050460	CNMG542MS KCU25	B52
4050461	CNMG542RP KCU25	B53
4050462	CNMG543MS KCU25	B52
4050463	CNMG543RP KCU25	B53
4050465	CNMG544RP KCU25	B53
4050466	CNMG642MS KCU25	B52
4050468	CNMG643RP KCU25	B53
4050469	CNMG644MS KCU25	B52
4050470	CNMG644RP KCU25	B53
4050475	DNGG432FS KCU25	B77
4050477	DNMG332MS KCU25	B82
4050478	DNMG332RP KCU25	B84
4050479	DNMG4305MS KCU25	B82
4050480	DNMG431MS KCU25	B82
4050481	DNMG432MS KCU25	B82
4050482	DNMG432RP KCU25	B84

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4050484	DNMG433MS KCU25	B82
4050485	DNMG433RP KCU25	B84
4050486	DNMG441MS KCU25	B82
4050487	DNMG442MS KCU25	B82
4050488	DNMG442RP KCU25	B84
4050489	DNMG443MS KCU25	B82
4050490	DNMG443RP KCU25	B84
4050491	DNMG444RP KCU25	B84
4050513	CNMG543MP KCU25	B51
4050514	CNMG643MP KCU25	B51
4050515	DNMG442MP KCU25	B81
4050516	DNMG443MP KCU25	B81
4050517	SNMG433MP KCU25	B102
4050518	SNMG433RP KCU25	B105
4050519	SNMG543RP KCU25	B105
4050520	SNMG643RP KCU25	B105
4050521	DPGR431 KCU25	E32
4050522	DPGR432 KCU25	E32
4050523	DPGR433 KCU25	E32
4050524	NPGR51L KCU25	E33
4050525	NPGR51R KCU25	E33
4050526	NPGR52L KCU25	E33
4050527	NPGR52R KCU25	E33
4050528	NPL131F KCU25	E34
4050529	NPL132F KCU25	E34
4050531	NPL505 KCU25	E35
4050532	NPL508 KCU25	E35
4050533	NPL51 KCU25	E35
4050534	NPL52 KCU25	E35
4050535	NPR131F KCU25	E34
4050536	NPR132F KCU25	E34
4050537	NPR331N KCU25	E34
4050539	NPR508 KCU25	E35
4050540	NPR51 KCU25	E35
4050544	VCMR331 KCU25	E37
4050545	VCMR332 KCU25	E37
4050546	VPGR3305 KCU25	E38
4050547	VPGR331 KCU25	E38
4050548	VPGR332 KCU25	E38
4050549	VPGR333 KCU25	E38
4050607	CDHB120601 KCU25	B199
4050608	CDHB120605 KCU25	B199
4050609	CDHB12061 KCU25	B199
4050611	CDHH120605L KCU25	B199
4050613	CDHH12061L KCU25	B199
4050615	GPCD505 KCU25	B238
4050616	GPCD51 KCU25	B238
4050619	TDHB12807501 KCU25	B263
4050620	TDHB12807505 KCU25	B263
4050621	TDHB1280751 KCU25	B263
4050623	TDHH12807505L KCU25	B263
4050624	TDHH1280751L KCU25	B263
4050628	TPGH321 KCU25	B266
4050632	RCGK152FS KCU10	E69
4050653	RCGK152HP KCU10	E69
4050654	RCGK23FS KCU10	E69
4050655	RCGK23HP KCU10	E69
4050656	RCGK35FS KCU10	E69
4050657	RCGK35HP KCU10	E69
4050658	RCGK46FS KCU10	E69
4050659	RCGK46HP KCU10	E69
4050661	RCMK23 KCU10	E69
4050664	CNGG4305LF KCU10	B46
4050665	CNGG430LF KCU10	B46
4050666	CNGG431LF KCU10	B46
4050667	CNGG432LF KCU10	B46
4050668	CNGG433LF KCU10	B46
4050671	CNGP430 KCU10	B46
4050672	CNGP4305 KCU10	B46
4050673	CNGP431 KCU10	B46
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4050713	CNMG644MP KCU10	B51
4050714	CNMG644RP KCU10	B53
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4050746	WNMG331FP KCU10	B158
4050748	RCGV23 KCU10	B166
4050764	SPG421 KCU10	B171
4050765	SPG422 KCU10	B171
4050768	SPG433 KCU10	B171
4050769	SPG633 KCU10	B171
4050770	SPGF322 KCU10	B171
4050771	TPG221 KCU10	B177
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4050774	TPG321 KCU10	B177
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4050778	TPG431 KCU10	B177
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4051137	WD32FDS28283M	H127
4051138	SSF150FDS280502	H128
4051139	SSF150FDS280746	H129
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4052061	B254A11200YPC KCK10	G54
4052062	B254A11500YPC KCK10	G54

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4052064	B254A11800YPC KCK10	G54
4052066	B254A11908YPC KCK10	G54
4052067	B254A12000YPC KCK10	G54
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4052909	B256A19000YPC KCK10	G55
4052911	B256A19500YPC KCK10	G55
4052912	B256A19800YPC KCK10	G55
4052913	B256A20000YPC KCK10	G55
4052914	B256A20638YPC KCK10	G56
4052915	B256A22000YPC KCK10	G56
4052916	B256A22225YPC KCK10	G56
4052917	B256A25004YPC KCK10	G56
4053226	B256A03000YPC KCK10	G52
4053228	B256A03175YPC KCK10	G52
4053230	B256A03264YPC KCK10	G52
4053232	B256A03500YPC KCK10	G52
4053235	B256A03700YPC KCK10	G52
4053236	B256A03800YPC KCK10	G52
4053238	B256A04000YPC KCK10	G52
4053240	B256A04100YPC KCK10	G52
4053241	B256A04200YPC KCK10	G52
4053242	B256A04300YPC KCK10	G52
4053243	B256A04366YPC KCK10	G52
4053244	B256A04500YPC KCK10	G52
4053245	B256A04623YPC KCK10	G52
4053246	B256A04700YPC KCK10	G52
4053247	B256A04800YPC KCK10	G52
4053248	B256A04852YPC KCK10	G52
4053249	B256A05000YPC KCK10	G53
4053250	B256A05100YPC KCK10	G53
4053252	B256A05200YPC KCK10	G53
4053254	B256A05500YPC KCK10	G53
4053255	B256A05600YPC KCK10	G53
4053258	B256A05800YPC KCK10	G53
4053259	B256A05900YPC KCK10	G53
4053261	B256A06000YPC KCK10	G53
4053262	B256A06200YPC KCK10	G53
4053263	B256A06350YPC KCK10	G53
4053264	B256A06400YPC KCK10	G53
4053265	B256A06500YPC KCK10	G53
4053266	B256A06600YPC KCK10	G53
4053267	B256A06700YPC KCK10	G53
4053268	B256A06800YPC KCK10	G53
4053269	B256A07000YPC KCK10	G53
4053270	B256A07300YPC KCK10	G53
4053271	B256A07500YPC KCK10	G53
4053272	B256A07600YPC KCK10	G53
4053273	B256A07800YPC KCK10	G53
4053274	B256A08000YPC KCK10	G53
4053275	B256A08200YPC KCK10	G53
4053276	B256A08300YPC KCK10	G53
4053277	B256A08500YPC KCK10	G54
4053278	B256A08600YPC KCK10	G54
4053279	B256A08700YPC KCK10	G54
4053280	B256A08800YPC KCK10	G54
4053281	B256A09000YPC KCK10	G54
4053282	B256A09100YPC KCK10	G54
4053284	B256A09300YPC KCK10	G54
4053285	B256A09347YPC KCK10	G54
4053287	B256A09500YPC KCK10	G54
4053288	B256A09600YPC KCK10	G54
4053289	B256A09700YPC KCK10	G54
4053290	B256A09800YPC KCK10	G54
4053291	B256A10000YPC KCK10	G54
4053312	CDHB1206X0 KCU10	B199
4053323	CDHB120605 KCU10	B199
4053324	CDHB12061 KCU10	B199
4053325	CDHH120605L KCU10	B199
4053326	CDHH120605R KCU10	B199
4053327	CDHH12061L KCU10	B199
4053328	CDHH12061R KCU10	B199
4053336	TDHB12807505 KCU10	B263
4053337	TDHB1280751 KCU10	B263
4053339	TDHH12807505L KCU10	B263
4053340	TDHH12807505R KCU10	B263
4053341	TDHH1280751L KCU10	B263
4053342	TDHH1280751R KCU10	B263
4053344	TPGH321 KCU10	B266
4053352	DNGG4305LF KCU10	B77
4053363	DNGG431LF KCU10	B77
4053364	DNGG432LF KCU10	B77
4053366	DNGP4305 KCU10	B77
4053367	DNGP431 KCU10	B77
4053368	DNGP432 KCU10	B77
4053369	DNGP441 KCU10	B77
4053370	DNGP442 KCU10	B77
4053371	DNMG331FW KCU10	B80
4053372	DNMG332FF KCU10	B79
4053373	DNMG332MP KCU10	B81
4053374	DNMG332RP KCU10	B84
4053376	DNMG431CT KCU10	B79
4053377	DNMG431FF KCU10	B79
4053378	DNMG431FW KCU10	B80
4053379	DNMG431MP KCU10	B81
4053380	DNMG431P KCU10	B83
4053381	DNMG431UP KCU10	B84
4053383	DNMG432FW KCU10	B80
4053384	DNMG432MP KCU10	B81
4053386	DNMG432P KCU10	B83
4053387	DNMG432RP KCU10	B84
4053388	DNMG432UP KCU10	B84
4053389	DNMG433CT KCU10	B79
4053390	DNMG433MP KCU10	B81
4053391	DNMG433RP KCU10	B84
4053393	DNMG434RP KCU10	B84
4053395	DNMG441FW KCU10	B80
4053396	DNMG441MP KCU10	B81
4053399	DNMG442FW KCU10	B80
4053400	DNMG442MP KCU10	B81
4053403	DNMG442RP KCU10	B84
4053404	DNMG442UP KCU10	B84
4053406	DNMG443MP KCU10	B81
4053407	DNMG443RP KCU10	B84
4053408	RNMG43RN KCU10	B97
4053409	RNMG64RN KCU10	B97
4054272	D2FIX110405LMN KCP25	E9
4054299	D2FIX110405LMN KCP40	E9
4054300	D2FIX110405RMN KCP40	E9
4054301	C2FIX110405LMN KCP40	E8
4054302	C2FIX110405RMN KCP40	E8
4054355	D2FIX150505RMN KCP40	E9
4054356	D2FIX150505RRN KCP40	E10
4054358	C2FIX150505LMN KCP40	E8
4054359	C2FIX150510LMN KCP40	E8
4054362	C2FIX180610LMN KCP40	E8
4054368	C8FIX120503RRP KCP40	E12
4054372	C8FIX150605LRN KCP40	E12
4054374	C8FIX150605RRN KCP40	E12
4054375	C8FIX150608RRN KCP40	E12
4054377	C8FIX150603RMP KCP40	E13
4054380	C8FIX180808RRN KCP40	E12
4054381	C8FIX180812RRN KCP40	E12
4054386	C2FIX150510LMN KCP25	E8
4054387	C2FIX150505RMN KCP25	E8
4054388	C2FIX150510RMN KCP25	E8
4054391	C2FIX180610LMN KCP25	E8
4054397	D4FIX140605RMN KCP25	E11
4054398	D4FIX140603RMN KCP25	E11
4054401	C8FIX120503RRP KCP25	E12
4054402	C8FIX120505RRP KCP25	E12
4054403	C8FIX120503LMP KCP25	E13
4054404	C8FIX120503RMP KCP25	E13
4054405	C8FIX150605LRN KCP25	E12
4054406	C8FIX150608LRN KCP25	E12
4054407	C8FIX150605RRN KCP25	E12
4054408	C8FIX150608RRN KCP25	E12
4054409	C8FIX150603LMP KCP25	E13
4054410	C8FIX150603RMP KCP25	E13
4054412	C8FIX180812LRN KCP25	E12
4054413	C8FIX180808RRN KCP25	E12
4054414	C8FIX180812RRN KCP25	E12

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4054416	C8FIX180805RMP KCP25	E13
4054421	D2FIX150504RMN KCP25	E9
4054422	D2FIX150508RMN KCP25	E9
4054435	D2FIX150508LMN KCP25	E9
4054442	C2FIX110408LMN KCP25	E8
4054444	C2FIX150508LMN KCP25	E8
4054447	D4FIX140608RMN KCP25	E11
4054449	D4FIX140608LMN KCP25	E11
4054450	C8FIX120504RRP KCP25	E12
4054451	C8FIX120508RRP KCP25	E12
4054453	C8FIX150612RRN KCP25	E12
4054455	C8FIX120508LRP KCP25	E12
4054456	C8FIX150612LRN KCP25	E12
4054474	D2FIX110403RHP KCP25	E9
4054475	D2FIX110405RMN KCP25	E9
4054477	C2FIX110405LMN KCP25	E8
4054478	C2FIX110405RMN KCP25	E8
4054483	D2FIX150505LMN KCP25	E9
4054484	D2FIX150505LRN KCP25	E10
4054486	D2FIX150503RHP KCP25	E9
4054487	D2FIX150505RFN KCP25	E10
4054488	D2FIX150505RMN KCP25	E9
4054490	D2FIX150503RMN KCP25	E9
4054491	C2FIX150505LMN KCP25	E8
4054494	B976A03175 KC7315	G134
4054495	B976A03454 KC7315	G134
4054496	B976A03734 KC7315	G134
4054497	B976A03797 KC7315	G134
4054498	B976A04039 KC7315	G134
4054499	B976A04366 KC7315	G135
4054500	B976A04496 KC7315	G135
4054501	B976A04700 KC7315	G135
4054502	B976A05106 KC7315	G135
4054503	B976A05410 KC7315	G135
4054504	B976A05791 KC7315	G135
4054505	B976A05944 KC7315	G135
4054506	B976A06528 KC7315	G135
4054507	B976A06909 KC7315	G135
4054508	B976A07366 KC7315	G136
4054509	B976A08433 KC7315	G136
4054510	B976A08839 KC7315	G136
4054511	B976A09093 KC7315	G136
4054512	B976A10262 KC7315	G136
4054513	B976A13495 KC7315	G137
4054514	B976A16670 KC7315	G138
4054515	B977A03175 KC7315	G134
4054516	B977A03734 KC7315	G134
4054517	B977A03797 KC7315	G134
4054518	B977A04039 KC7315	G134
4054519	B977A04366 KC7315	G135
4054520	B977A04496 KC7315	G135
4054521	B977A05106 KC7315	G135
4054522	B977A05791 KC7315	G135
4054523	B977A05944 KC7315	G135
4054524	B977A07366 KC7315	G136
4054525	B977A08839 KC7315	G136
4054526	B977A09093 KC7315	G136
4054527	B977A10262 KC7315	G136
4054528	B977A13495 KC7315	G137
4054648	C2FIX150504LMN KCP40	E8
4054651	D4FIX140604RMN KCP40	E11
4054660	C8FIX120508LRP KCP40	E12
4054680	DFR040304D28MD KC7140	H113, J97
4054681	DFR040304D28LD KC7225	H113
4054733	HSK100ASVUBB2124MCLB	K78
4054734	HSK63ASVUBB1095MCLB	K76
4054735	HSK63ASVUBB2116MCLB	K78
4054736	KM50TSSVUBB2100MCLB	K77
4054737	KR32SVUBB1060MCLB	K76
4054738	KR32SVUBB2085MCLB	K77
4054739	KR50SVUBB2075MCLB	K77
4054740	KR80SVU92152MCLB	K88
4054889	A4G0605M06U08GMN KCP10	C106
4054890	A4R0605M06U00GMN KCP10	C107
4056174	SS16KST115AR3M	K42
4056175	SS20KST135AR3M	K42
4056176	SS20KST155AR3M	K42
4056177	SS16KST115AR5M	K42
4056178	SS20KST135AR5M	K42
4056179	SS20KST155AR5M	K42
4056390	RHM14000KST115H7HF KT6215	K33
4056513	RPG43E KYSP30	V157
4056980	RHM14000KST115H7HF KT325	K33
4056981	RHM14288KST115H7HF KT325	K33
4056983	RHM15875KST115H7HF KT325	K33
4056984	RHM16000KST135H7HF KT325	K33
4056985	RHM17000KST135H7HF KT325	K33
4056986	RHM17463KST135H7HF KT325	K33
4056987	RHM18000KST155H7HF KT325	K33
4056988	RHM19000KST155H7HF KT325	K33
4056989	RHM19050KST155H7HF KT325	K33
4056990	RHM14288KST115H7HF KT6215	K33
4056993	RHM16000KST135H7HF KT6215	K33
4056994	RHM17000KST135H7HF KT6215	K33
4056995	RHM17463KST135H7HF KT6215	K33
4056996	RHM18000KST155H7HF KT6215	K33
4056997	RHM19000KST155H7HF KT6215	K33
4056998	RHM19050KST155H7HF KT6215	K33
4057034	RHM14000KST115H7SF KT325	K31
4057035	RHM14288KST115H7SF KT325	K31
4057036	RHM15000KST115H7SF KT325	K31
4057037	RHM15875KST115H7SF KT325	K31
4057038	RHM16000KST135H7SF KT325	K31
4057039	RHM17000KST135H7SF KT325	K31
4057040	RHM17463KST135H7SF KT325	K31
4057041	RHM18000KST155H7SF KT325	K31
4057042	RHM19000KST155H7SF KT325	K31
4057044	RHM14000KST115H7SF KT6215	K31
4057045	RHM14288KST115H7SF KT6215	K31
4057047	RHM15875KST115H7SF KT6215	K31
4057048	RHM16000KST135H7SF KT6215	K31
4057049	RHM17000KST135H7SF KT6215	K31
4057051	RHM18000KST155H7SF KT6215	K31
4057053	RHM19050KST155H7SF KT6215	K31
4057057	HSK63FBHM1696	K132
4057058	DV40FBHM1691	K133
4057059	BT40FBHM1691	K133
4057060	KM50TSFBHM1677	K132
4057061	AFM29115	K135
4057062	AFM47115	K135
4057093	AFM29SCFPR06	K136
4057094	AFM47SCFPR09	K136
4057095	EBM8015086	K136
4057096	886038045	K136
4057097	PKG-8001	K132–134
4057098	HSK63FBHMKIT164M	K127, K131
4057099	DV40FBHMKIT164M	K127, K131
4057100	BT40FBHMKIT164M	K127, K131
4057101	KM50TSFBHMKIT164M	K127, K131
4057204	EB630128650	K144
4057205	EB10801281100	K144
4057206	EB16301281650	K144
4057207	EBSLD1105	K144
4057208	EBSLD2205	K144
4057576	KSHR1000HN7545C10	S24
4057578	KSHR300HN7545M4	S24
4057579	KSHR400HN7545M5	S24
4057580	KSHR500HN7545M6	S24
4057581	KSHR600HN7545M8	S24
4057582	KSHR800HN7545M10	S24
4057583	KSHR1000HN7545M10	S24
4057639	HNPJ75ANSNHD KCPK30	S26
4057640	HNPJ75ANSNHD KCK15	S26
4057641	HNPJ75ANSNHD KC725M	S26
4057828	HNPJ755ANSNHD KCPK30	S26
4057830	HNPJ755ANSNHD KC725M	S26
4057854	HNPJ759ANSNHD KCPK30	S26
4057855	HNPJ759ANSNHD KCK15	S26
4057865	HNGJ75ANENGD KCPK30	S25
4057867	HNGJ75ANENGD KC725M	S25
4058547	LNEQ1235R03 4 KCK15	U20
4058551	LNEU1240R03SGP 4 KC725M	U20
4058763	LNEQ1240R03 4 KCPK30	U20
4059040	T620M240X300R6H-XL KP6525	M14
4059042	T620M300X350R6H-XL KP6525	M14
4059043	T620M330X350R6H-XL KP6525	M14
4059045	T620M360X400R6H-XL KP6525	M14
4059047	T620M420X450R6H-XL KP6525	M14
4059051	T630M240X300R6HX-XL KP6525	M56
4059053	T630M300X350R6HX-XL KP6525	M56
4059054	T630M330X350R6HX-XL KP6525	M56
4059056	T630M360X400R6HX-XL KP6525	M56
4059058	T630M420X450R6HX-XL KP6525	M56
4059062	T631M240X300R6HX-XL KP6525	M57
4059064	T631M300X350R6HX-XL KP6525	M57
4059065	T631M330X350R6HX-XL KP6525	M57
4059067	T631M360X400R6HX-XL KP6525	M57
4059069	T631M420X450R6HX-XL KP6525	M57
4059090	T620M240X300R6HX-D6 KP6525	M13
4059092	T620M300X350R6HX-D6 KP6525	M13
4059113	T620M330X350R6HX-D6 KP6525	M13
4059115	T620M360X400R6HX-D6 KP6525	M13
4059117	T620M420X450R6HX-D6 KP6525	M13
4059121	T630M300X350R6HX-D6 KP6525	M54
4059122	T630M330X350R6HX-D6 KP6525	M54
4059124	T630M360X400R6HX-D6 KP6525	M54
4059126	T630M420X450R6HX-D6 KP6525	M54
4059129	T631M240X300R6HX-D6 KP6525	M55
4059131	T631M300X350R6HX-D6 KP6525	M55
4059132	T631M330X350R6HX-D6 KP6525	M55
4059134	T631M360X400R6HX-D6 KP6525	M55
4059136	T631M420X450R6HX-D6 KP6525	M55
4059938	LNEU1240R08 4 KC725M	U19
4059939	LNEU1240R16 4 KC725M	U19
4059940	LNEU1235R03 4 KC725M	U19
4059941	LNEU1240R03 4 KC725M	U19
4059942	LNEQ1235R03 4 KC725M	U20
4060093	LNEQ1240R03 4 KC725M	U20
4060099	LNEU1235R03 4 KC520M	U19
4060100	LNEU1240R08 4 KC520M	U19
4060101	LNEU1240R03 4 KC520M	U19
4060102	LNEU1235R03SGP 4 KC725M	U20
4060528	KST115115AS	K42
4060529	KST135155AS	K42
4061407	XNXF43ZNENW KY3500	S90
4062112	HSK100BT13075	K143
4062443	EBUCW0074	K145
4062902	KTIP260R3SCF25M	H40
4063183	KTIP270R3SCF25M	H40
4063184	KTIP260R5SCF25M	H40
4063185	KTIP270R5SCF25M	H40
4063186	KTIP260R8SCF25M	H40
4063187	KTIP270R8SCF25M	H40
4063188	KTIP260R3SS32M	H38
4063189	KTIP270R3SS32M	H38
4063190	KTIP260R5SS32M	H38
4063191	KTIP270R5SS32M	H38
4063192	KTIP260R8SS32M	H38
4063193	KTIP1024R3SS125	H39
4063194	KTIP1063R3SS125	H39
4063195	KTIP1024R5SS125	H39
4063196	KTIP1063R5SS125	H39
4063197	KTIP1024R8SS125	H39
4063198	KTIP1063R8SS125	H39
4063996	SDB24RBHT06F	K126
4063997	SDB30RBHT06F	K126
4063998	SDB40RBHT09F	K126
4063999	SDB50RBHT09F	K126
4064000	SDB66RBHT12F	K126
4064001	SDB66RBHT12LF	K126
4064002	SDB87RBHT12F	K126
4064203	SDB87RBHT16LF	K126
4064204	SDB115RBHT16LF	K126
4064205	SDB115RBHT12F	K126
4064258	TTP25	S24
4065057	A4G0605M06U08GMN KCP25	C106
4067219	HPHV750S4225CH KCPM15	P19
4067220	HPHV750S4225R030 KCPM15	P19
4067221	HPHV750S4225R060 KCPM15	P19
4067222	HPHV750S4300 KCPM15	P19
4067236	HPHV625S4075 KCPM15	P18
4067237	HPHV625S4075CH KCPM15	P18
4067238	HPHV625S4075L KCPM15	P19
4067239	HPHV625S4075LR015 KCPM15	P18
4067240	HPHV625S4075LR030 KCPM15	P18
4067241	HPHV625S4075LR060 KCPM15	P18
4067253	HPHV625S4075R060 KCPM15	P18
4067255	HPHV625S4125 KCPM15	P19
4067256	HPHV625S4125CH KCPM15	P19
4067257	HPHV625S4125R030 KCPM15	P19
4067258	HPHV625S4125R060 KCPM15	P19
4067259	HPHV625S4125R090 KCPM15	P19
4067261	HPHV625S4163 KCPM15	P19
4067262	HPHV625S4163R030 KCPM15	P19
4067263	HPHV625S4163R060 KCPM15	P19
4067264	HPHV625S4163R120 KCPM15	P19
4067265	HPHV625S4213 KCPM15	P19
4067266	HPHV625S4213R030 KCPM15	P19
4067267	HPHV625S4213R120 KCPM15	P19
4067268	HPHV625S4225R060 KCPM15	P19
4067269	HPHV750S4088 KCPM15	P19
4067270	HPHV750S4088CH KCPM15	P19
4067271	HPHV750S4088L KCPM15	P19
4067272	HPHV750S4088LR030 KCPM15	P19
4067273	HPHV750S4150 KCPM15	P19
4067274	HPHV750S4150CH KCPM15	P19
4067275	HPHV750S4150R015 KCPM15	P19
4067276	HPHV750S4150R030 KCPM15	P19
4067277	HPHV750S4150R060 KCPM15	P19
4067278	HPHV750S4150R090 KCPM15	P19
4067279	HPHV750S4150R120 KCPM15	P19
4067280	HPHV750S4163CH KCPM15	P19
4067281	HPHV750S4163R030 KCPM15	P19
4067282	HPHV750S4163R060 KCPM15	P19
4067283	HPHV750S4163R120 KCPM15	P19
4067286	HPHVBN1000S4150 KCPM15	P23
4067287	HPHVBN438S4088 KCPM15	P23
4067288	HPHVBN500S4100 KCPM15	P23
4067289	HPHVBN500S4125 KCPM15	P23
4067290	HPHVBN625S4125 KCPM15	P23
4067291	HPHVBN750S4150 KCPM15	P23
4067292	HPHVBN125S4050 KCPM15	P23
4067303	HPHV750S4300CH KCPM15	P19
4067304	HPHV750S4400R030 KCPM15	P19
4067305	HPHV750S4400R060 KCPM15	P19
4067306	HPHV1000S4150 KCPM15	P19
4067307	HPHV1000S4150CH KCPM15	P19
4067308	HPHV1000S4150R030 KCPM15	P19
4067311	HPHV1000S4150R120 KCPM15	P19
4067312	HPHV1000S4150R250 KCPM15	P19
4067313	HPHV1000S4200 KCPM15	P20
4067314	HPHV1000S4200R030 KCPM15	P19
4067315	HPHV1000S4200R060 KCPM15	P19
4067316	HPHV1000S4200R120 KCPM15	P19
4067318	HPHV1000S4225 KCPM15	P20
4067319	HPHV1000S4225CH KCPM15	P20
4067320	HPHV1000S4225R030 KCPM15	P20
4067321	HPHV1000S4225R060 KCPM15	P20
4067322	HPHV1000S4263 KCPM15	P20
4067323	HPHV1000S4263CH KCPM15	P20
4067324	HPHV1000S4263R030 KCPM15	P20
4067325	HPHV1000S4300CH KCPM15	P20
4067326	HPHV1000S4300R030 KCPM15	P20
4067327	HPHV1000S4300R060 KCPM15	P20
4067328	HPHV1000S4400CH KCPM15	P20
4067329	HPHV1000S4400R030 KCPM15	P20
4067330	HPHV1000S4400R060 KCPM15	P20
4067331	HPHV1250S4225CH KCPM15	P20
4067332	HPHV1250S4225R030 KCPM15	P20
4067343	HPHVBN188S4063 KCPM15	P23
4067344	HPHVBN250S4075 KCPM15	P23
4067345	HPHVBN312S4075 KCPM15	P23
4067346	HPHVBN375S4088 KCPM15	P23
4068215	UADE0250J4AQA KCPM15	P21
4068216	UADE0250J4AQB KCPM15	P21
4068217	UADE0375J4AQA KCPM15	P21
4068218	UADE0375J4AQB KCPM15	P21
4068220	UADE0500J4AQB KCPM15	P21
4068221	UADE0625J4AQB KCPM15	P21
4068222	UADE0750J4AQB KCPM15	P21
4068233	UADE0750J4BQB KCPM15	P21
4068234	UADE1000J4BQB KCPM15	P21
4068604	RCMH3209M0RU KCP25	E66
4071037	B967A13000 KC7315	G132
4071041	A4G0505M05U08GMN KCP10	C106
4071068	A4R0505M05U00GMN KCP10	C107
4071840	HPHV375S4088R015 KCPM15	P17
4071841	HPHV375S4088R030 KCPM15	P17
4071842	HPHV375S4088R060 KCPM15	P17
4071883	HPHV375S4088R090 KCPM15	P17
4071884	HPHV375S4100 KCPM15	P17
4071885	HPHV375S4100R015 KCPM15	P17
4071886	HPHV375S4100R030 KCPM15	P17
4071887	HPHV375S4100R060 KCPM15	P17
4071888	HPHV375S4125 KCPM15	P17
4071889	HPHV375S4125R015 KCPM15	P17
4071890	HPHV375S4125R030 KCPM15	P17

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4071891	HPHV375S4125R060 KCPM15	P17
4071892	HPHV375S4150 KCPM15	P17
4071893	HPHV375S4150R030 KCPM15	P17
4071894	HPHV375S4150R060 KCPM15	P17
4071895	HPHV375S4250R030 KCPM15	P17
4071896	HPHV375S4250R060 KCPM15	P17
4071897	HPHV438S4063CH KCPM15	P18
4071898	HPHV438S4088CH KCPM15	P18
4071899	HPHV438S4113R015 KCPM15	P18
4071900	HPHV500S4063 KCPM15	P18
4071901	HPHV500S4063CH KCPM15	P18
4071902	HPHV500S4063L KCPM15	P18
4071903	HPHV500S4063LR015 KCPM15	P18
4071904	HPHV500S4063LR030 KCPM15	P18
4071905	HPHV500S4063LR060 KCPM15	P18
4071906	HPHV500S4063R030 KCPM15	P18
4071907	HPHV500S4063R060 KCPM15	P18
4071908	HPHV500S4100 KCPM15	P18
4071909	HPHV500S4100CH KCPM15	P18
4071910	HPHV500S4100R030 KCPM15	P18
4071911	HPHV500S4100R060 KCPM15	P18
4071912	HPHV500S4125 KCPM15	P18
4071913	HPHV500S4125CH KCPM15	P18
4071914	HPHV500S4125R015 KCPM15	P18
4071915	HPHV500S4125R030 KCPM15	P18
4071916	HPHV500S4125R060 KCPM15	P18
4071917	HPHV500S4125R090 KCPM15	P18
4071918	HPHV500S4125R120 KCPM15	P18
4071919	HPHV500S4150 KCPM15	P18
4071920	HPHV500S4150CH KCPM15	P18
4071921	HPHV500S4150R030 KCPM15	P18
4071922	HPHV500S4150R060 KCPM15	P18
4071923	HPHV500S4163 KCPM15	P18
4071924	HPHV500S4163R030 KCPM15	P18
4071925	HPHV500S4163R060 KCPM15	P18
4071926	HPHV500S4163R120 KCPM15	P18
4071927	HPHV500S4200 KCPM15	P18
4071928	HPHV500S4200CH KCPM15	P18
4071929	HPHV500S4200R030 KCPM15	P18
4071930	HPHV500S4250R030 KCPM15	P18
4071932	HPHV500S4300R030 KCPM15	P18
4071933	HPHV500S4300R060 KCPM15	P18
4072204	HPRSHV1000S4700CH KCPM15	P22
4072205	HPRSHV500S4600 KCPM15	P22
4072206	HPRSHV500S4600CH KCPM15	P22
4072207	HPRSHV625S4600 KCPM15	P22
4072208	HPRSHV625S4600CH KCPM15	P22
4072209	HPRSHV750S4500CH KCPM15	P22
4072210	HPRSHV750S4600 KCPM15	P22
4072211	HPRSHV750S4600CH KCPM15	P22
4075269	CNMG433MP KCP10	B51
4075270	DNMG432MP KCP10	B81
4075271	DNMG442MP KCP10	B81
4075304	WNMG432MP KCP10	B159
4075305	CNMG432MP KCP25	B51
4075306	CNMG433MP KCP25	B51
4075307	DNMG432MP KCP25	B81
4075308	DNMG442MP KCP25	B81
4075309	TNMG332MP KCP25	B124
4075310	WNMG332MP KCP25	B159
4075311	WNMG432MP KCP25	B159
4078132	B967A15300 KC7315	G132
4078652	CNMG431FP KCP10	B49
4078704	DNMG332FP KCP10	B80
4078705	DNMG432FP KCP10	B80
4078706	DNMG442FP KCP10	B80
4078708	VNMG332FP KCP10	B146
4078709	WNMG431FP KCP10	B158
4078710	WNMG432FP KCP10	B158
4078711	CNMG432FP KCP25	B49
4078712	DNMG432FP KCP25	B80
4078723	DNMG442FP KCP25	B80
4078724	WNMG431FP KCP25	B158
4078725	WNMG432FP KCP25	B158
4079239	UADE1000J4ARF KC643M	P19
4079241	UADE1000J4ARD KC643M	P19
4079242	UADE1000J4ARC KC643M	P19
4079253	UADE1000J4ARB KC643M	P19
4079254	UADE1000J4ARA KC643M	P19
4079255	UADE750J4BRE KC643M	P19
4079257	UADE750J4BRC KC643M	P19
4079258	UADE750J4BRB KC643M	P19
4079259	UADE750J4BRA KC643M	P19
4079260	UADE750J4ARE KC643M	P19
4079263	UADE750J4ARB KC643M	P19
4079265	UADE625J4ARC KC643M	P19
4079266	UADE625J4ARB KC643M	P19
4079267	UADE500J4CRE KC643M	P18
4079268	UADE500J4CRD KC643M	P18
4079269	UADE500J4CRC KC643M	P18
4079270	UADE500J4CRB KC643M	P18
4079271	UADE500J4CRA KC643M	P18
4079272	UADE500J4BRE KC643M	P18
4079273	UADE500J4BRD KC643M	P18
4079274	UADE500J4BRC KC643M	P18
4079275	UADE500J4BRB KC643M	P18
4079276	UADE500J4BRA KC643M	P18
4079277	UADE500J4ARE KC643M	P18
4079279	UADE500J4ARC KC643M	P18
4079280	UADE500J4ARB KC643M	P18
4079281	UADE500J4ARA KC643M	P18
4079283	UADE375J4BRB KC643M	P18
4079284	UADE375J4BRA KC643M	P18
4079285	UADE375J4ARC KC643M	P18
4079286	UADE375J4ARB KC643M	P17
4079287	UADE375J4ARA KC643M	P17
4079288	UADE250J4ARC KC643M	P17
4079290	UADE250J4ARA KC643M	P16
4080356	B967A10200 KC7315	G131
4080393	B967A12800 KC7315	G132
4080395	B967A15000 KC7315	G132
4081832	RIQ09E1306 KC6005	K58
4086429	B976A05558 KC7315	G135
4086430	B977A03454 KC7315	G134
4086431	B977A16670 KC7315	G138
4086935	A4G0405M04U08GMN KCP10	C106
4086956	A4R0405M04U00GMN KCP10	C107
4089831	B967A11300 KC7315	G131
4105177	MEGA45D1000LN863C10	S94
4105178	MEGA45D1200LN863C10	S94
4106399	B707A07400FBS KN15	G111
4109575	KF2X100W0902M12L138	V36
4109577	KF2X125W0903M16L169	V36
4109579	KF2X150W0904M16L169	V36
4109580	KF2X100W0902C100L600	V37
4109581	KF2X100W0902C100L800	V37
4109582	KF2X125W0903C125L600	V37
4109593	KF2X125W0903C125L800	V37
4109594	KF2X150W0903C125L600	V37
4109595	KF2X150W0903C125L800	V37
4109596	KF2X150W0904S050L157	V38
4109597	KF2X200W0905S075L157	V38
4109598	KF2X200W0906S075L157	V38
4109599	KF2X250W0906S075L175	V38
4109600	KF2X300W0907S100L175	V38
4109624	NA3L10 KCU25	D11
4109625	NA3L4 KCU25	D11
4109626	NA3L5 KCU25	D11
4109627	NA3L6 KCU25	D11
4109628	NA3L8 KCU25	D11
4109629	NA3R10 KCU25	D11
4109630	NA3R4 KCU25	D11
4109631	NA3R5 KCU25	D11
4109632	NA3R6 KCU25	D11
4109633	NA3R8 KCU25	D11
4109636	NAS3L4 KCU25	D12
4109637	NAS3L6 KCU25	D12
4109638	NAS3L8 KCU25	D12
4109640	NAS3R12 KCU25	D12
4109641	NAS3R4 KCU25	D12
4109644	NAS3R8 KCU25	D12
4109645	NF3125LK KCU25	C173
4109646	NF3125RK KCU25	C173
4109647	NF3156LK KCU25	C173
4109648	NF3156RK KCU25	C173
4109649	NF3188L KCU25	C175
4109650	NF3188R KCU25	C175
4109651	NFD3125LK KCU25	C174
4109652	NFD3125LKI KCU25	C174
4109653	NFD3125RK KCU25	C174
4109654	NFD3125RKI KCU25	C174
4109655	NFD3189LKI KCU25	C174
4109656	NFD3189RKI KCU25	C174
4109657	NFD4189LK KCU25	C174
4109658	NFD4189RK KCU25	C174
4109659	NFD4250LK KCU25	C174
4109660	NFD4250RK KCU25	C174
4109661	NG2031L KCU25	C170
4109662	NG2031LK KCU25	C163
4109663	NG2031R KCU25	C170
4109664	NG2031RK KCU25	C162
4109665	NG2041L KCU25	C170
4109666	NG2041R KCU25	C170
4109667	NG2047L KCU25	C170
4109668	NG2047LK KCU25	C163
4109669	NG2047R KCU25	C170
4109670	NG2047RK KCU25	C162
4109671	NG2058L KCU25	C170
4109672	NG2058R KCU25	C170
4109673	NG2062L KCU25	C170
4109674	NG2062LK KCU25	C163
4109675	NG2062R KCU25	C170
4109676	NG2062RK KCU25	C162
4109677	NG2094L KCU25	C170
4109678	NG2094LK KCU25	C163
4109679	NG2094R KCU25	C170
4109680	NG2094RK KCU25	C162
4109681	NG2125L KCU25	C170
4109682	NG2125LK KCU25	C163
4109683	NG2125R KCU25	C170
4109684	NG2125RK KCU25	C162
4109685	NG2M050RK KCU25	C162
4109686	NG2M080LK KCU25	C163
4109687	NG2M080RK KCU25	C162
4109688	NG2M100LK KCU25	C163
4109689	NG2M100RK KCU25	C162
4109690	NG2M120LK KCU25	C163
4109691	NG2M120RK KCU25	C162
4109692	NG2M140LK KCU25	C163
4109698	NG3M100LK KCU25	C163
4109699	NG3M100RK KCU25	C162
4109700	NG3M120LK KCU25	C163
4109701	NG3M120RK KCU25	C162
4109702	NG3M150LK KCU25	C163
4109713	NG3M150RK KCU25	C162
4109714	NG3M175LK KCU25	C163
4109715	NG3M175RK KCU25	C162
4109716	NG3M200LK KCU25	C163
4109717	NG3M200RK KCU25	C162
4109718	NG3M220LK KCU25	C164
4109719	NG3M220RK KCU25	C162
4109720	NG3M225LK KCU25	C164
4109721	NG3M225RK KCU25	C162
4109722	NG3M250LK KCU25	C164
4109723	NG2M140RK KCU25	C162
4109724	NG2M150LK KCU25	C163
4109725	NG2M150RK KCU25	C162
4109726	NG2M170LK KCU25	C163
4109727	NG2M170RK KCU25	C162
4109728	NG2M175LK KCU25	C163
4109729	NG2M175RK KCU25	C162
4109730	NG2M195LK KCU25	C163
4109731	NG2M195RK KCU25	C162
4109732	NG2M200LK KCU25	C163
4109733	NG3M250RK KCU25	C162
4109734	NG3M275LK KCU25	C164
4109735	NG3M275RK KCU25	C162
4109736	NG3M300LK KCU25	C164
4109737	NG3M300RK KCU25	C162
4109738	NG3M320LK KCU25	C164
4109739	NG3M320RK KCU25	C162
4109740	NG3M325LK KCU25	C164
4109741	NG3M325RK KCU25	C162
4109742	NG3M350LK KCU25	C164
4109743	NG2M200RK KCU25	C162
4109744	NG2M220LK KCU25	C163
4109745	NG2M220RK KCU25	C162
4109746	NG2M225LK KCU25	C163
4109747	NG2M225RK KCU25	C162
4109748	NG2M250LK KCU25	C163
4109749	NG2M250RK KCU25	C162
4109750	NG2M275LK KCU25	C163
4109751	NG2M275RK KCU25	C162
4109752	NG2M300LK KCU25	C163
4109753	NG3M350RK KCU25	C162
4109754	NG3M400LK KCU25	C164
4109755	NG3M400RK KCU25	C162
4109756	NG3M425LK KCU25	C164
4109757	NG3M425RK KCU25	C163
4109758	NG3M450LK KCU25	C164
4109759	NG3M450RK KCU25	C163
4109760	NG4125L KCU25	C171
4109761	NG4125LK KCU25	C164
4109762	NG4125R KCU25	C170
4109763	NG2M300RK KCU25	C162
4109764	NG2M325LK KCU25	C163
4109765	NG2M325RK KCU25	C162
4109766	NG3047L KCU25	C170
4109767	NG3047LK KCU25	C163
4109768	NG3047R KCU25	C170
4109769	NG3047RK KCU25	C162
4109770	NG3062L KCU25	C170
4109771	NG3062LK KCU25	C163
4109772	NG3062R KCU25	C170
4109773	NG4125RK KCU25	C163
4109774	NG4189L KCU25	C171
4109775	NG4189LK KCU25	C164
4109776	NG4189R KCU25	C170
4109777	NG4189RK KCU25	C163
4109778	NG4213R KCU25	C170
4109779	NG4250L KCU25	C171
4109780	NG4250LK KCU25	C164
4109781	NG4250R KCU25	C170
4109782	NG4250RK KCU25	C163
4109783	NG3062RK KCU25	C162
4109784	NG3072LK KCU25	C163
4109785	NG3072RK KCU25	C162
4109786	NG3078LK KCU25	C163
4109787	NG3078RK KCU25	C162
4109788	NG3088L KCU25	C170
4109789	NG3088R KCU25	C170
4109790	NG3094L KCU25	C170
4109791	NG3094LK KCU25	C164
4109792	NG3094R KCU25	C170
4109793	NG4M300LK KCU25	C164
4109794	NG4M300RK KCU25	C163
4109795	NG4M350LK KCU25	C164
4109796	NG4M350RK KCU25	C163
4109797	NG4M400LK KCU25	C164
4109798	NG4M400RK KCU25	C163
4109799	NG4M450RK KCU25	C163
4109800	NG4M500LK KCU25	C164
4109801	NG4M500RK KCU25	C163
4109803	NG3094RK KCU25	C162
4109804	NG3097L KCU25	C171
4109805	NG3097R KCU25	C170
4109806	NG3105L KCU25	C171
4109807	NG3105R KCU25	C170
4109808	NG3110L KCU25	C171
4109809	NG3110R KCU25	C170
4109810	NG3122L KCU25	C171
4109811	NG3122R KCU25	C170
4109812	NG3125L KCU25	C171
4109814	NG4M600LK KCU25	C164
4109815	NG4M600RK KCU25	C163
4109823	NG3125LK KCU25	C164
4109824	NG3125R KCU25	C170
4109825	NG3125RK KCU25	C162
4109826	NG3142L KCU25	C171
4109827	NG3142R KCU25	C170
4109828	NG3156L KCU25	C171
4109829	NG3156LK KCU25	C164
4109830	NG3156R KCU25	C170
4109831	NG3156RK KCU25	C162
4109832	NG3178L KCU25	C171
4109833	NG3185R KCU25	C170
4109834	NG3189L KCU25	C171
4109835	NG3189LK KCU25	C164
4109836	NG3189R KCU25	C170
4109837	NG3189RK KCU25	C163
4109838	NGC2C130L055K KCU25	C168
4109839	NGC2C130R055K KCU25	C168
4109840	NGC2C185L125K KCU25	C168
4109841	NGC2C215L150K KCU25	C168
4109842	NGC2C215R150K KCU25	C168
4109844	NGD3062LK KCU25	C165
4109845	NGD3062RK KCU25	C165
4109846	NGD3094LK KCU25	C165

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4109847	NGD3094RK KCU25	C165
4109848	NGD3125LK KCU25	C165
4109849	NGD3125RK KCU25	C165
4109850	NGD3189LK KCU25	C165
4109851	NGD3189RK KCU25	C165
4109852	NGD4125LK KCU25	C165
4109853	NGD4125RK KCU25	C165
4109854	NGD4189LK KCU25	C165
4109855	NGD4189RK KCU25	C165
4109856	NGD4250LK KCU25	C165
4109857	NGD4250RK KCU25	C165
4109858	NJ3010R16 KCU25	D15
4109860	NJ3014R12 KCU25	D15
4109864	NJF3009R18 KCU25	D15
4109866	NJF3012R14 KCU25	D15
4109868	NJK3006R28 KCU25	D16
4109869	NJK3007R24 KCU25	D16
4109871	NJK3008R20 KCU25	D16
4109873	NJK3010R16 KCU25	D16
4109876	NJP3014R12 KCU25	D16
4109878	NJP3020R8 KCU25	D16
4109879	NP2002RK KCU25	C167
4109880	NP2012RK KCU25	C167
4109881	NP3002RK KCU25	C167
4109882	NP3012RK KCU25	C167
4109883	NPD2002RK KCU25	C167
4109884	NPD3002RK KCU25	C167
4109885	NPD3012RK KCU25	C167
4109887	NR2031L KCU25	C172
4109888	NR2031R KCU25	C172
4109889	NR2047L KCU25	C172
4109890	NR2047R KCU25	C172
4109891	NR2062L KCU25	C172
4109892	NR2062R KCU25	C172
4109903	NR2M050L KCU25	C172
4109904	NR2M050R KCU25	C172
4109905	NR3031L KCU25	C172
4109906	NR3031LK KCU25	C166
4109907	NR3031R KCU25	C172
4109908	NR3031RK KCU25	C166
4109909	NR3047L KCU25	C172
4109910	NR3047LK KCU25	C166
4109911	NR3047R KCU25	C172
4109912	NR3047RK KCU25	C166
4109913	NR3062L KCU25	C172
4109914	NR3062LK KCU25	C166
4109915	NR3062R KCU25	C172
4109916	NR3062RK KCU25	C166
4109917	NR3078LK KCU25	C166
4109918	NR3078RK KCU25	C166
4109919	NR3094L KCU25	C172
4109920	NR3094R KCU25	C172
4109921	NR4062LK KCU25	C166
4109922	NR4062RK KCU25	C166
4109923	NR4094LK KCU25	C166
4109924	NR4094RK KCU25	C166
4109925	NR4125L KCU25	C172
4109926	NR4125LK KCU25	C166
4109927	NR4125R KCU25	C172
4109928	NR4125RK KCU25	C166
4109929	NRD3031L KCU25	C173
4109930	NRD3031R KCU25	C173
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4109933	NRD4062L KCU25	C173
4109934	NRD4062R KCU25	C173
4109935	NRD4094L KCU25	C173
4109936	NRD4125L KCU25	C173
4109937	NRD4125R KCU25	C173
4109938	NT2L KCU25	D17
4109939	NT2LK KCU25	D22
4109940	NT2R KCU25	D17
4109941	NT2RK KCU25	D22
4109942	NT3L KCU25	D17
4109943	NT3LCK KCU25	D19
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4109945	NT3R KCU25	D17
4109946	NT3RCK KCU25	D19
4109947	NT3RK KCU25	D22
4109948	NT4L KCU25	D17
4109949	NT4LCK KCU25	D19
4109950	NT4LK KCU25	D22
4109951	NT4R KCU25	D17
4109952	NT4RCK KCU25	D19
4109953	NT4RK KCU25	D22
4109954	NTF2L KCU25	D21
4109955	NTF2R KCU25	D21
4109956	NTF3L KCU25	D21
4109957	NTF3R KCU25	D21
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4109961	NTK3R KCU25	D21
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4109963	NTP2R KCU25	D22
4109964	NTP3L KCU25	D22
4109965	NTP3R KCU25	D22
4109967	NTP4R KCU25	D22
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4111911	B221A19050HP KCPK15	G41
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4111913	B221A20000HP KCPK15	G41
4111914	B221A20500HP KCPK15	G41
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4111951	B222A05159HP KCPK15	G38
4111952	B222A05410HP KCPK15	G39
4111953	B222A05500HP KCPK15	G39
4111954	B222A05558HP KCPK15	G39
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4111957	B222A05954HP KCPK15	G39
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4111965	B222A07145HP KCPK15	G39
4111966	B222A07500HP KCPK15	G39
4111967	B222A07541HP KCPK15	G39
4111968	B222A07800HP KCPK15	G39
4111969	B222A07938HP KCPK15	G39
4111970	B222A08000HP KCPK15	G39
4111971	B222A08200HP KCPK15	G39
4111972	B222A08334HP KCPK15	G39
4111973	B222A08433HP KCPK15	G39
4111974	B222A08500HP KCPK15	G39

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4111975	B222A08733HP KCPK15	G39
4111976	B222A08800HP KCPK15	G39
4111977	B222A09000HP KCPK15	G39
4111978	B222A09129HP KCPK15	G40
4111979	B222A09300HP KCPK15	G40
4111982	B222A09500HP KCPK15	G40
4111983	B222A09525HP KCPK15	G40
4111984	B222A09800HP KCPK15	G40
4111985	B222A09921HP KCPK15	G40
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4111987	B222A10200HP KCPK15	G40
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4112421	B224A05944HP KCPK15	G45
4112422	B224A06528HP KCPK15	G45
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4112451	B224A13100HP KCPK15	G47
4112452	B224A13495HP KCPK15	G47
4112453	B224A14500HP KCPK15	G47
4112454	B225A03797HP KCPK15	G44
4112455	B225A04496HP KCPK15	G44
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4112570	B225A21000HP KCPK15	G48
4112583	B225A03455HP KCPK15	G44
4112584	B225A03500HP KCPK15	G44
4112585	B225A03571HP KCPK15	G44
4112586	B225A03600HP KCPK15	G44
4112587	B225A03700HP KCPK15	G44
4112588	B225A03800HP KCPK15	G44
4112589	B225A03900HP KCPK15	G44
4112590	B225A03970HP KCPK15	G44
4112591	B225A04000HP KCPK15	G44
4112592	B225A04100HP KCPK15	G44
4112593	B225A04200HP KCPK15	G44
4112594	B225A04300HP KCPK15	G44
4112595	B225A04366HP KCPK15	G44
4112596	B225A04400HP KCPK15	G44
4112597	B225A04500HP KCPK15	G44
4112598	B225A04600HP KCPK15	G44
4112599	B225A04700HP KCPK15	G44
4112600	B225A04763HP KCPK15	G44
4112601	B225A04800HP KCPK15	G44
4112602	B225A04900HP KCPK15	G45
4112603	B225A05000HP KCPK15	G45
4112604	B225A05100HP KCPK15	G45
4112605	B225A05159HP KCPK15	G45
4112606	B225A05200HP KCPK15	G45
4112607	B225A05300HP KCPK15	G45
4112608	B225A05400HP KCPK15	G45
4112609	B225A05410HP KCPK15	G45
4112610	B225A05500HP KCPK15	G45
4112611	B225A05558HP KCPK15	G45
4112612	B225A05600HP KCPK15	G45
4112613	B225A05700HP KCPK15	G45
4112614	B225A05800HP KCPK15	G45
4112615	B225A05900HP KCPK15	G45
4112616	B225A05954HP KCPK15	G45
4112617	B225A06000HP KCPK15	G45
4112618	B225A06100HP KCPK15	G45
4112619	B225A06200HP KCPK15	G45
4112620	B225A06300HP KCPK15	G45
4112621	B225A06350HP KCPK15	G45
4112622	B225A06400HP KCPK15	G45
4112623	B225A06500HP KCPK15	G45
4112624	B225A06528HP KCPK15	G45
4112625	B225A06600HP KCPK15	G45
4112626	B225A06700HP KCPK15	G45
4112627	B225A06746HP KCPK15	G45
4112628	B225A06800HP KCPK15	G45
4112629	B225A06900HP KCPK15	G45
4112630	B225A07000HP KCPK15	G45
4112631	B225A07100HP KCPK15	G45
4112632	B225A07145HP KCPK15	G45
4112633	B225A07200HP KCPK15	G45
4112634	B225A07300HP KCPK15	G45
4112635	B225A07400HP KCPK15	G45
4112636	B225A07500HP KCPK15	G45
4112637	B225A07541HP KCPK15	G45
4112638	B225A07600HP KCPK15	G45
4112639	B225A07700HP KCPK15	G45
4112640	B225A07800HP KCPK15	G45
4112641	B225A07900HP KCPK15	G45
4112642	B225A07938HP KCPK15	G45
4112643	B225A08000HP KCPK15	G45
4112644	B225A08100HP KCPK15	G45
4112645	B225A08200HP KCPK15	G45
4112646	B225A08300HP KCPK15	G46
4112647	B225A08334HP KCPK15	G46
4112648	B225A08400HP KCPK15	G46
4112649	B225A08433HP KCPK15	G46
4112650	B225A08500HP KCPK15	G46
4112651	B225A08600HP KCPK15	G46
4112652	B225A08700HP KCPK15	G46
4112653	B225A08733HP KCPK15	G46
4112654	B225A08800HP KCPK15	G46
4112655	B225A08900HP KCPK15	G46
4112656	B225A09000HP KCPK15	G46
4112657	B225A09100HP KCPK15	G46
4112658	B225A09129HP KCPK15	G46
4112659	B225A09200HP KCPK15	G46
4112660	B225A09300HP KCPK15	G46
4112661	B225A09347HP KCPK15	G46
4112662	B225A09400HP KCPK15	G46
4112663	B225A09500HP KCPK15	G46
4112664	B225A09525HP KCPK15	G46
4112665	B225A09600HP KCPK15	G46
4112666	B225A09700HP KCPK15	G46
4112667	B225A09800HP KCPK15	G46
4112668	B225A09900HP KCPK15	G46
4112669	B225A09921HP KCPK15	G46
4112670	B225A10000HP KCPK15	G46
4112672	B224A03048HP KCPK15	G44
4112673	B224A03000HP KCPK15	G44
4112674	B224A03100HP KCPK15	G44
4112675	B224A03175HP KCPK15	G44
4112676	B224A03200HP KCPK15	G44
4112677	B224A03264HP KCPK15	G44
4112678	B224A03300HP KCPK15	G44
4112679	B224A03400HP KCPK15	G44
4112680	B224A03455HP KCPK15	G44
4112681	B224A03500HP KCPK15	G44
4112683	B224A03600HP KCPK15	G44
4112684	B224A03658HP KCPK15	G44
4112685	B224A03700HP KCPK15	G44
4112686	B224A03734HP KCPK15	G44
4112687	B224A03800HP KCPK15	G44
4112688	B224A03900HP KCPK15	G44
4112689	B224A03970HP KCPK15	G44
4112690	B224A04000HP KCPK15	G44
4112691	B224A04039HP KCPK15	G44
4112692	B224A04090HP KCPK15	G44
4112693	B224A04200HP KCPK15	G44
4112694	B224A04217HP KCPK15	G44
4112695	B224A04366HP KCPK15	G44
4112696	B224A04623HP KCPK15	G44
4112697	B224A04763HP KCPK15	G44
4112698	B224A04852HP KCPK15	G44
4112699	B224A05000HP KCPK15	G45
4112700	B224A05100HP KCPK15	G45
4112701	B224A05159HP KCPK15	G45
4112702	B224A05410HP KCPK15	G45
4112703	B224A05500HP KCPK15	G45
4112704	B224A05558HP KCPK15	G45
4112705	B224A05616HP KCPK15	G45
4112706	B224A05954HP KCPK15	G45
4112707	B224A06000HP KCPK15	G45
4112708	B224A06350HP KCPK15	G45
4112709	B224A06500HP KCPK15	G45
4112710	B224A06630HP KCPK15	G45
4112711	B224A06746HP KCPK15	G45
4112712	B224A06800HP KCPK15	G45
4112713	B224A07000HP KCPK15	G45
4112714	B224A07145HP KCPK15	G45
4112715	B224A07500HP KCPK15	G45
4112716	B224A07541HP KCPK15	G45
4112717	B224A07938HP KCPK15	G45
4112718	B224A08000HP KCPK15	G45
4112719	B224A08200HP KCPK15	G45
4112720	B224A08334HP KCPK15	G46
4112721	B224A08433HP KCPK15	G46
4112722	B224A08500HP KCPK15	G46
4112723	B224A08700HP KCPK15	G46
4112724	B224A08733HP KCPK15	G46
4112725	B224A08800HP KCPK15	G46
4112726	B224A09000HP KCPK15	G46
4112727	B224A09129HP KCPK15	G46
4112728	B224A09500HP KCPK15	G46
4112729	B224A09525HP KCPK15	G46
4112730	B224A09921HP KCPK15	G46
4112731	B224A10000HP KCPK15	G46
4112732	B224A10200HP KCPK15	G46
4112733	B224A10300HP KCPK15	G46
4112734	B224A10320HP KCPK15	G46
4112735	B224A10400HP KCPK15	G46
4112736	B224A10500HP KCPK15	G46
4112737	B224A10716HP KCPK15	G46
4112738	B224A10800HP KCPK15	G46
4112739	B224A11000HP KCPK15	G46
4112740	B224A11113HP KCPK15	G46
4112741	B224A11500HP KCPK15	G46
4112742	B224A11509HP KCPK15	G46
4112743	B224A11908HP KCPK15	G46

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4112744	B224A12000HP KCPK15	G46
4112745	B224A12300HP KCPK15	G47
4112746	B224A12304HP KCPK15	G47
4112747	B224A12500HP KCPK15	G47
4112748	B224A12700HP KCPK15	G47
4112749	B224A13000HP KCPK15	G47
4112750	B224A13096HP KCPK15	G47
4112751	B224A13500HP KCPK15	G47
4112752	B224A13891HP KCPK15	G47
4112753	B224A14000HP KCPK15	G47
4112754	B224A14288HP KCPK15	G47
4112755	B224A14684HP KCPK15	G47
4112756	B224A15083HP KCPK15	G47
4112758	B224A15500HP KCPK15	G47
4112759	B224A15600HP KCPK15	G47
4112760	B224A15875HP KCPK15	G47
4112761	B224A16000HP KCPK15	G47
4112762	B224A16500HP KCPK15	G47
4112763	B224A17000HP KCPK15	G48
4112764	B224A17463HP KCPK15	G48
4112765	B224A17500HP KCPK15	G48
4112766	B224A18000HP KCPK15	G48
4112767	B224A19000HP KCPK15	G48
4112768	B224A19050HP KCPK15	G48
4112769	B224A20000HP KCPK15	G48
4113708	A4C0155N00CF01 KCU25	C112
4113709	A4C0155R10CF01 KCU25	C113
4113710	A4C0205L06CF02 KCU25	C113
4113711	A4C0205N00CF02 KCU25	C112
4113712	A4C0205R06CF02 KCU25	C113
4114283	A4C0205R10CF02 KCU25	C113
4114284	A4C0255N00CF02 KCU25	C112
4114285	A4C0305L06CF02 KCU25	C113
4114286	A4C0305L10CF02 KCU25	C113
4114287	A4C0305N00CF02 KCU25	C112
4114288	A4C0305R06CF02 KCU25	C113
4114289	A4C0305R10CF02 KCU25	C113
4114290	A4C0405L06CF02 KCU25	C113
4114291	A4C0405L10CF02 KCU25	C113
4114292	A4C0405N00CF02 KCU25	C112
4114293	A4C0405R06CF02 KCU25	C113
4114294	A4C0405R10CF02 KCU25	C113
4114295	A4G0200M02P02GMP KCU25	C105
4114296	A4G0205M02U02GMN KCU25	C106
4114297	A4G0205M02U02GMP KCU25	C105
4114298	A4G0255M2BU02GMP KCU25	C105
4114299	A4G0300M03P02GMP KCU25	C105
4114300	A4G0300M03P04GMP KCU25	C105
4114301	A4G0305M03U02B KCU25	C108
4114302	A4G0305M03U02GMN KCU25	C106
4114303	A4G0305M03U02GMP KCU25	C105
4114304	A4G0305M03U04GMN KCU25	C106
4114305	A4G0305M03U04GMP KCU25	C105
4114306	A4G0400M04P02GMP KCU25	C105
4114307	A4G0400M04P04GMP KCU25	C105
4114308	A4G0400M04P08GMP KCU25	C105
4114309	A4G0405M04U04GMN KCU25	C106
4114310	A4G0405M04U04GMP KCU25	C105
4114311	A4G0405M04U08GMN KCU25	C106
4114312	A4G0405M04U08GMP KCU25	C105
4114313	A4G0500M05P04GMP KCU25	C105
4114315	A4G0505M05U04B KCU25	C108
4114316	A4G0505M05U04GMN KCU25	C106
4114317	A4G0505M05U04GMP KCU25	C105
4114318	A4G0505M05U08GMN KCU25	C106
4114319	A4G0505M05U08GMP KCU25	C105
4114320	A4G0600M06P04GMP KCU25	C105
4114321	A4G0600M06P08GMP KCU25	C105
4114322	A4G0605M06U04B KCU25	C108
4114323	A4G0605M06U04GMN KCU25	C106
4114325	A4G0605M06U08GMN KCU25	C106
4114328	A4G0800M08P08GMP KCU25	C105
4114329	A4G0805M08U08GMN KCU25	C106
4114330	A4G0805M08U08GMP KCU25	C105
4114331	A4G0805M08U12GMN KCU25	C106
4114333	A4G1005M10U08GMN KCU25	C106
4114334	A4G1005M10U08GMP KCU25	C105
4114335	A4G125I03P05GMN KCU25	C107
4114336	A4G125I03P1GMN KCU25	C107
4114337	A4G187I04P1GMN KCU25	C107
4114338	A4G187I04P2GMN KCU25	C107
4114339	A4G250I06P1GMN KCU25	C107
4114340	A4G250I06P2GMN KCU25	C107
4114341	A4G312I08P1GMN KCU25	C107
4114343	A4R0200M02P00GMP KCU25	C106
4114344	A4R0205M02U00GMN KCU25	C107
4114345	A4R0300M03P00GMP KCU25	C106
4114346	A4R0305M03U00GMN KCU25	C107
4114347	A4R0400M04P00GMP KCU25	C106
4114348	A4R0405M04U00GMN KCU25	C107
4114349	A4R0500M05P00GMP KCU25	C106
4114350	A4R0505M05U00GMN KCU25	C107
4114351	A4R0600M06P00GMP KCU25	C106
4114352	A4R0605M06U00GMN KCU25	C107
4114353	A4R0800M08P00GMP KCU25	C106
4114354	A4R0805M08U00GMN KCU25	C107
4114355	A4R1005M10U00GMN KCU25	C107
4114356	A4R125I03P00GMN KCU25	C107
4114357	A4R187I04P00GMN KCU25	C107
4114358	A4R250I06P00GMN KCU25	C107
4114696	B967A09800 KC7315	G131
4114713	B967A11800 KC7315	G132
4115401	DFR040304ST KD1425	J98
4115433	DFT05T308ST KD1425	J98
4115434	DFT06T308ST KD1425	J98
4115435	DFT070408ST KD1425	J98
4115436	DFT090508ST KD1425	J98
4115437	DFT110508ST KD1425	J98
4116607	T630M030X050R6HX-A KM6515	M49
4116608	T630M040X070R6HX-A KM6515	M49
4116609	T630M050X080R6HX-A KM6515	M49
4116610	T630M060X100R6HX-A KM6515	M49
4116611	T630M080X125R6HX-A KM6515	M49
4116612	T630M100X150R6HX-A KM6515	M49
4116636	T620M030X050R6HX-A KP6525	M10
4116637	T620M040X070R6HX-A KP6525	M10
4116638	T620M050X080R6HX-A KP6525	M10
4116639	T620M060X100R6HX-A KP6525	M10
4116640	T620M080X100R6HX-A KP6525	M10
4116641	T620M080X125R6HX-A KP6525	M10
4116642	T620M100X150R6HX-A KP6525	M10
4116643	T620M120X175R6HX-A KP6525	M10
4116645	T620NC#02-56R2BX-A KM6515	M6
4116646	T620NC#02-56R3BX-A KM6515	M6
4116647	T620NC#04-40R2BX-A KM6515	M6
4116648	T620NC#04-40R3BX-A KM6515	M6
4116649	T620NC#05-40R3BX-A KM6515	M6
4116650	T620NC#06-32R2BX-A KM6515	M6
4116651	T620NC#06-32R3BX-A KM6515	M6
4116652	T620NC#08-32R2BX-A KM6515	M6
4116673	T620NC#08-32R3BX-A KM6515	M6
4116674	T620NC#10-24R3BX-A KM6515	M6
4116675	T620NC#12-24R3BX-A KM6515	M6
4116676	T620NC02500-20R2BX-A KM6515	M6
4116677	T620NC02500-20R3BX-A KM6515	M6
4116678	T620NC03125-18R2BX-A KM6515	M6
4116679	T620NC03125-18R3BX-A KM6515	M6
4116680	T620NC03750-16R2BX-A KM6515	M6
4116681	T620NC03750-16R3BX-A KM6515	M6
4116682	T620NC04375-14R3BX-A KM6515	M7
4116683	T620NC05000-13R3BX-A KM6515	M7
4116684	T620NC06250-11R3BX-A KM6515	M7
4116685	T620NC07500-10R3BX-A KM6515	M7
4116686	T620NF#08-36R3BX-A KM6515	M6
4116687	T620NF#10-32R2BX-A KM6515	M6
4116688	T620NF#10-32R3BX-A KM6515	M6
4116689	T620NF02500-28R2BX-A KM6515	M6
4116690	T620NF02500-28R3BX-A KM6515	M6
4116691	T620NF03125-24R3BX-A KM6515	M6
4116692	T620NF03750-24R3BX-A KM6515	M6
4116693	T620NF04375-20R3BX-A KM6515	M7
4116694	T620NF05000-20R3BX-A KM6515	M7
4116698	T620M030X050R6HX-A KM6515	M10
4116699	T620M040X070R6HX-A KM6515	M10
4116700	T620M050X080R6HX-A KM6515	M10
4116701	T620M060X100R6HX-A KM6515	M10
4116702	T620MF080X100R6HX-A KM6515	M10
4116733	T620M080X125R6HX-A KM6515	M10
4116734	T620M100X150R6HX-A KM6515	M10
4116735	T620M120X175R6HX-A KM6515	M10
4116742	T630NC#02-56R3BX-A KM6515	M46
4116763	T630NC#04-40R2BX-A KM6515	M46
4116764	T630NC#04-40R3BX-A KM6515	M46
4116765	T630NC#06-32R2BX-A KM6515	M46
4116766	T630NC#06-32R3BX-A KM6515	M46
4116767	T630NC#08-32R3BX-A KM6515	M46
4116768	T630NC#10-24R3BX-A KM6515	M46
4116769	T630NC02500-20R2BX-A KM6515	M46
4116770	T630NC02500-20R3BX-A KM6515	M46
4116771	T630NC03125-18R2BX-A KM6515	M46
4116772	T630NC03125-18R3BX-A KM6515	M46
4116773	T630NC03750-16R2BX-A KM6515	M46
4116774	T630NC03750-16R3BX-A KM6515	M46
4116775	T630NC04375-14R3BX-A KM6515	M46
4116776	T630NC05000-13R2BX-A KM6515	M46
4116777	T630NC05000-13R3BX-A KM6515	M46
4116778	T630NC06250-11R2BX-A KM6515	M46
4116779	T630NC06250-11R3BX-A KM6515	M46
4116780	T630NC07500-10R2BX-A KM6515	M46
4116781	T630NC07500-10R3BX-A KM6515	M46
4116782	T630NC10000-08R3BX-A KM6515	M46
4116783	T630NF#10-32R2BX-A KM6515	M46
4116784	T630NF#10-32R3BX-A KM6515	M46
4116785	T630NF02500-28R2BX-A KM6515	M46
4116786	T630NF02500-28R3BX-A KM6515	M46
4116787	T630NF03125-24R2BX-A KM6515	M46
4116788	T630NF03125-24R3BX-A KM6515	M46
4116789	T630NF03750-24R3BX-A KM6515	M46
4116790	T630NF04375-20R3BX-A KM6515	M46
4116791	T630NF05000-20R3BX-A KM6515	M46
4116819	T630M030X050R6HX-A KP6525	M49
4116820	T630M040X070R6HX-A KP6525	M49
4116821	T630M050X080R6HX-A KP6525	M49
4116822	T630M060X100R6HX-A KP6525	M49
4116823	T630M120X175R6HX-A KM6515	M49
4116824	T630M140X200R6HX-A KM6515	M49
4116825	T630M160X200R6HX-A KM6515	M49
4116834	T630NC#02-56R3BX-A KP6525	M46
4116835	T630NC#04-40R2BX-A KP6525	M46
4116836	T630NC#04-40R3BX-A KP6525	M46
4116837	T630NC#06-32R2BX-A KP6525	M46
4116838	T630NC#06-32R3BX-A KP6525	M46
4116839	T630NC#08-32R3BX-A KP6525	M46
4116840	T630NC#10-24R3BX-A KP6525	M46
4116841	T630NC02500-20R2BX-A KP6525	M46
4116842	T630NC02500-20R3BX-A KP6525	M46
4116843	T630M080X125R6HX-A KP6525	M49
4116844	T630M100X150R6HX-A KP6525	M49
4116845	T630M120X175R6HX-A KP6525	M49
4116846	T630M140X200R6HX-A KP6525	M49
4116847	T630M160X200R6HX-A KP6525	M49
4116853	T630NC03125-18R2BX-A KP6525	M46
4116854	T630NC03125-18R3BX-A KP6525	M46
4116855	T630NC03750-16R2BX-A KP6525	M46
4116856	T630NC03750-16R3BX-A KP6525	M46
4116857	T630NC04375-14R3BX-A KP6525	M46
4116858	T630NC05000-13R2BX-A KP6525	M46
4116859	T630NC05000-13R3BX-A KP6525	M46
4116860	T630NC06250-11R2BX-A KP6525	M46
4116861	T630NC06250-11R3BX-A KP6525	M46
4116862	T630NC07500-10R2BX-A KP6525	M46
4116863	T630NC07500-10R3BX-A KP6525	M46
4116864	T630NC10000-08R3BX-A KP6525	M46
4116865	T630NF#10-32R2BX-A KP6525	M46
4116866	T630NF#10-32R3BX-A KP6525	M46
4116867	T630NF02500-28R2BX-A KP6525	M46
4116868	T630NF02500-28R3BX-A KP6525	M46
4116869	T630NF03125-24R2BX-A KP6525	M46
4116870	T630NF03125-24R3BX-A KP6525	M46
4116871	T630NF03750-24R3BX-A KP6525	M46
4116872	T630NF04375-20R3BX-A KP6525	M46
4116873	T630NF05000-20R3BX-A KP6525	M46
4117139	T620NC#02-56R2BX-A KP6525	M6
4117140	T620NC#02-56R3BX-A KP6525	M6
4117141	T620NC#04-40R2BX-A KP6525	M6
4117142	T620NC#04-40R3BX-A KP6525	M6
4117163	T620NC#05-40R3BX-A KP6525	M6
4117164	T620NC#06-32R2BX-A KP6525	M6
4117165	T620NC#06-32R3BX-A KP6525	M6
4117166	T620NC#08-32R2BX-A KP6525	M6
4117167	T620NC#08-32R3BX-A KP6525	M6
4117168	T620NC#10-24R3BX-A KP6525	M6
4117169	T620NC#12-24R3BX-A KP6525	M6
4117170	T620NC02500-20R2BX-A KP6525	M6
4117171	T620NC02500-20R3BX-A KP6525	M6
4117172	T620NC03125-18R2BX-A KP6525	M6
4117173	T620NC03125-18R3BX-A KP6525	M6
4117174	T620NC03750-16R2BX-A KP6525	M6
4117175	T620NC03750-16R3BX-A KP6525	M6
4117176	T620NC04375-14R3BX-A KP6525	M7
4117177	T620NC05000-13R3BX-A KP6525	M7
4117178	T620NC06250-11R3BX-A KP6525	M7
4117179	T620NC07500-10R3BX-A KP6525	M7
4117180	T620NF#08-36R3BX-A KP6525	M6
4117181	T620NF#10-32R2BX-A KP6525	M6
4117182	T620NF#10-32R3BX-A KP6525	M6
4117183	T620NF02500-28R2BX-A KP6525	M6
4117184	T620NF02500-28R3BX-A KP6525	M6
4117185	T620NF03125-24R3BX-A KP6525	M6
4117186	T620NF03750-24R3BX-A KP6525	M6
4117187	T620NF04375-20R3BX-A KP6525	M7
4117188	T620NF05000-20R3BX-A KP6525	M7
4118347	VPGR331 KCP25	E38
4119190	HNGJ43ANENLD KCPK30	S6, S12, S15
4119224	HNGJ43ANENLD KC725M	S6, S12, S15
4119227	HNGJ43ANENLD KCK15	S6, S12, S15
4119228	HNPJ43ANSNHD KCPK30	S7, S13, S16
4119229	HNPJ43ANSNHD KC725M	S7, S13, S16
4119230	HNPJ43ANSNHD KCK15	S7, S13, S16
4119253	XNGJ43ANENLD3W KC725M	S12
4119639	HNGJ438ANENLD KCPK30	S6, S12, S15
4119640	HNGJ438ANENLD KC725M	S6, S12, S15
4119696	HNPJ43ANSNGD KC520M	S7, S13, S16
4119697	HNPJ43ANSNGD KC522M	S7, S13, S16
4119699	HNPJ43ANSNGD KCK15	S7, S13, S16
4119700	HNPJ43ANSNGD KCPK30	S7, S13, S16
4119701	HNPJ43ANSNGD KC725M	S7, S13, S16
4119702	HNPJ43ANSNHD KC520M	S7, S13, S16
4119703	HNPJ43ANSNHD KC522M	S7, S13, S16
4119989	HNPJ438ANSNHD KC522M	S7, S13, S16
4119991	HNPJ438ANSNHD KCK15	S7, S13, S16
4119992	HNPJ438ANSNHD KCPK30	S7, S13, S16
4120003	HNPJ438ANSNHD KC725M	S7, S13, S16
4120661	A4G0305M03U04GMN KCP25	C106
4121491	B051A14000CPG KC7325	G17
4121505	B052A03300CPG KC7325	G15
4121528	B051A03200CPG KC7325	G15
4121529	B051A04000CPG KC7325	G15
4121532	B051A05900CPG KC7325	G15
4121534	B051A06000CPG KC7325	G16
4121574	HNGJ43ANFNLDJ K313	S6, S11, S15
4121575	HNGJ43ANFNLDJ KC410M	S6, S11, S15
4121576	HNGJ43ANENLD KC510M	S6, S12, S15
4121577	HNGJ43ANENLD KC520M	S6, S12, S15
4121578	HNGJ43ANENLD KC522M	S6, S12, S15
4121604	XNGJ43ANFNLDJ3W KC410M	S11
4121605	XNGJ43ANENLD3W KC510M	S12
4121607	XNGJ43ANENLD3W KC522M	S12
4121683	SNMG432MS KCU25	B103
4121684	SNMG432RP KCU25	B105
4121685	SNMG433MS KCU25	B103
4121686	SNMG542MS KCU25	B103
4121687	SNMG543MS KCU25	B103
4121688	SNMG544RP KCU25	B105

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4121689	SNMG643MS KCU25	B103
4121690	SNMG644RP KCU25	B105
4121695	TNMG3305MS KCU25	B125
4121696	TNMG331MS KCU25	B125
4121697	TNMG332MS KCU25	B125
4121698	TNMG332RP KCU25	B127
4121699	TNMG333RP KCU25	B127
4121700	TNMG431MS KCU25	B125
4121701	TNMG432MS KCU25	B125
4121702	TNMG432RP KCU25	B127
4121703	TNMG433MS KCU25	B125
4121704	TNMG433RP KCU25	B127
4121705	TNMG434RP KCU25	B127
4121706	TNMG542MS KCU25	B125
4121707	TNMG543RP KCU25	B127
4121708	VNGG3305FS KCU25	B144
4121710	VNGG331FS KCU25	B144
4121711	VNGG332FS KCU25	B144
4121712	VNMG3305MS KCU25	B147
4121713	VNMG330MS KCU25	B147
4121714	VNMG331MS KCU25	B147
4121715	VNMG332MS KCU25	B147
4121716	VNMG332RP KCU25	B148
4121717	VNMG333RP KCU25	B148
4121718	VNMG431MS KCU25	B147
4121719	VNMG432MS KCU25	B147
4121720	WNMG332MS KCU25	B160
4121721	WNMG332RP KCU25	B161
4121722	WNMG4305MS KCU25	B160
4121723	WNMG431MS KCU25	B160
4121724	WNMG432MS KCU25	B160
4121725	WNMG432RP KCU25	B161
4121726	WNMG433RP KCU25	B161
4121727	WNMG434RP KCU25	B161
4124962	B051A02000CPG KC7325	G14
4125849	A4G0505M05U04GMN KCP10	C106
4129398	RCGV45E KYS25	B351
4129399	RCGV45T0420 KYS25	B351
4129400	RPGV35E KYS25	B352
4129402	RPGV45E KYS25	B352
4129443	KTIP080R1SS10M	H38
4129444	KTIP085R1SS10M	H38
4129445	KTIP090R1SS10M	H38
4129446	KTIP095R1SS10M	H38
4129447	KTIP100R1SS12M	H38
4129448	KTIP105R1SS12M	H38
4129449	KTIP110R1SS12M	H38
4129450	KTIP115R1SS12M	H38
4129451	KTIP120R1SS14M	H38
4129452	KTIP125R1SS14M	H38
4129453	KTIP130R1SS14M	H38
4129454	KTIP135R1SS14M	H38
4129455	KTIP140R1SS16M	H38
4129456	KTIP145R1SS16M	H38
4129457	KTIP150R1SS16M	H38
4129458	KTIP160R1SS18M	H38
4129459	KTIP170R1SS18M	H38
4129460	KTIP180R1SS20M	H38
4129461	KTIP190R1SS20M	H38
4129462	KTIP200R1SS25M	H38
4129463	KTIP210R1SS25M	H38
4129464	KTIP220R1SS25M	H38
4129465	KTIP230R1SS25M	H38
4129466	KTIP240R1SS25M	H38
4129467	KTIP250R1SS32M	H38
4129468	KTIP260R1SS32M	H38
4129469	KTIP270R1SS32M	H38
4129470	KTIP080R1SCF12M	H40
4129471	KTIP085R1SCF12M	H40
4129472	KTIP090R1SCF12M	H40
4129483	KTIP095R1SCF12M	H40
4129484	KTIP100R1SCF16M	H40
4129485	KTIP105R1SCF16M	H40
4129486	KTIP110R1SCF16M	H40
4129487	KTIP115R1SCF16M	H40
4129488	KTIP120R1SCF16M	H40
4129489	KTIP125R1SCF16M	H40
4129490	KTIP130R1SCF16M	H40
4129491	KTIP135R1SCF16M	H40
4129492	KTIP140R1SCF16M	H40
4129493	KTIP145R1SCF16M	H40
4129494	KTIP150R1SCF20M	H40
4129495	KTIP160R1SCF20M	H40
4129496	KTIP170R1SCF20M	H40
4129497	KTIP180R1SCF25M	H40
4129498	KTIP190R1SCF25M	H40
4129499	KTIP200R1SCF25M	H40
4129500	KTIP210R1SCF25M	H40
4129501	KTIP220R1SCF25M	H40
4129502	KTIP230R1SCF25M	H40
4129503	KTIP240R1SCF25M	H40
4129504	KTIP250R1SCF25M	H40
4129505	KTIP260R1SCF25M	H40
4129506	KTIP270R1SCF25M	H40
4129542	CNGA434T0420 KYS25	B350
4129546	SNGA434T0420 KYS25	B353
4129549	SNGG644E KYS25	B353
4129552	TNGA433T0420 KYS25	B354
4129553	TNGA434T0420 KYS25	B354
4129554	CNGA432E KYS25	B350
4129555	CNGA432T0420 KYS25	B350
4129557	CNGA433T0420 KYS25	B350
4129562	SNGA433T0420 KYS25	B353
4129563	RCGV23E KYS25	B351
4129567	CNGA453T0420 KYS25	B350
4129568	CNGX452T0420 KYS25	B350
4129569	CNGX453T0420 KYS25	B350
4129570	DNGX452T0420 KYS25	B351
4129571	DNGX453T0420 KYS25	B351
4129576	RNG45T0425 KYS25	B352
4129577	RCGV45T0425 KYS25	B351
4129769	KHSST28002	M157
4129916	KHSST28003	M128–129
4129917	KHSST28004	M126
4129921	KHSST28008	M129
4129922	KHSST28009	M126
4129952	KHSST28791	M133
4129962	KHSST28787	M102
4129964	KHSST28786	M104
4129966	KHSST28785	M102
4129968	KHSST28784	M38
4129979	KHSST28015	M129
4129982	KHSST28016	M126
4129984	KHSST28781	M133
4129985	KHSST28780	M104
4129986	KHSST28779	M102
4129989	KHSST28776	M38
4129991	KHSST28774	M102
4129998	KHSST28020	M129
4130013	KHSST28021	M126
4130020	KHSST28028	M129
4130021	KHSST28029	M126
4130035	KHSST28032	M129
4130036	KHSST28033	M126
4130058	KHSST28762	M102
4130059	KHSST28761	M102
4130063	KHSST28040	M126
4130066	KHSST28043	M126
4130070	KHSST28047	M102
4130071	KHSST28048	M104
4130072	KHSST28049	M102
4130083	KHSST28757	M36
4130105	KHSST28752	M133
4130368	KHSST28751	M134
4130372	KHSST28747	M102
4130392	RCGV35E KYS25	B351
4130393	KHSST28746	M104
4130394	KHSST28745	M102
4130397	KHSST28744	M38
4130400	KHSST28743	M40
4130403	KHSST28742	M133
4130408	KHSST28740	M102
4130409	KHSST28739	M104
4130411	KHSST28738	M102
4130413	KHSST28737	M38
4130419	KHSST28733	M36
4130421	KHSST28732	M36
4130422	KHSST28731	M36
4130423	RCGV35T0420 KYS25	B351
4130426	KSHR150HN4345M3	S10
4130427	KSHR150HN4345F2	S10
4130428	KSHR200HN4345C3	S10
4130429	KSHR200HN4345M3	S10
4130430	KSHR200HN4345F3	S10
4130431	KSHR250HN4345C3	S10
4130432	KSHR250HN4345M3	S10
4130433	KHSST28730	M40
4130448	KHSST28726	M103
4130493	KSHR250HN4345F3	S10
4130494	KSHR300HN4345C4	S10
4130495	KSHR300HN4345M4	S10
4130496	KSHR300HN4345F4	S10
4130497	KSHR400HN4345C6	S10
4130498	KSHR400HN4345M6	S10
4130499	KSHR400HN4345F6	S10
4130500	KSHR500HN4345C6	S10
4130501	KSHR500HN4345M6	S10
4130502	KSHR500HN4345F6	S10
4130506	KHSST28723	M103
4130509	KHSST28721	M103
4130514	KSHR100D02W075HN06	S8
4130515	KSHR100D03W075HN06	S8
4130516	KSHR125D03W100HN06	S8
4130517	KSHR125D04W100HN06	S8
4130518	KSHR100D02C075HN06L480	S9
4130519	KSHR100D03C075HN06L480	S9
4130520	KSHR125D03C100HN06L520	S9
4130521	KSHR125D04C100HN06L520	S9
4130529	KHSST28053	M132
4130533	KSHR100D03C100HN06L800	S9
4130547	KHSST28716	M103
4130555	KHSST28709	M103
4130557	KHSST28707	M103
4130573	KHSST28700	M103
4130575	KHSST28698	M130
4130578	KHSST28695	M130
4130581	KHSST28692	M103
4130583	KHSST28057	M158
4130584	KHSST28058	M158
4130588	KHSST28060	M157
4130590	KHSST28062	M102
4130592	KHSST28064	M132
4130595	KHSST28067	M158
4130596	KHSST28068	M158
4130600	KHSST28072	M38
4130601	KHSST28073	M104
4130602	KHSST28074	M102
4130610	KHSST28683	M103
4130611	KHSST28682	M130
4130612	KHSST28681	M41
4130615	KHSST28077	M134
4130616	KHSST28078	M133
4130619	KHSST28080	M38
4130620	KHSST28081	M102
4130621	KHSST28082	M104
4130622	KHSST28083	M102
4130634	KHSST28085	M133
4130635	KHSST28086	M132
4130640	KHSST28091	M158
4130641	KHSST28092	M158
4130642	KHSST28093	M158
4130653	KHSST28094	M158
4130662	KHSST28102	M128
4130664	KHSST28104	M158
4130666	KHSST28106	M157
4130667	KHSST28107	M157
4130669	KHSST28109	M157
4130671	KHSST28111	M36
4130672	KHSST28112	M36
4130683	KHSST28113	M36
4130684	KHSST28114	M129
4130685	KHSST28115	M126
4130686	KHSST28116	M125
4130688	KHSST28117	M128
4130689	KHSST28118	M126
4130690	KHSST28119	M128
4130691	KHSST28120	M125
4130692	KHSST28121	M125
4130703	KHSST28122	M128
4130705	KHSST28123	M125
4130706	KHSST28124	M129
4130707	KHSST28125	M126
4130710	KHSST28127	M125
4130711	KHSST28128	M127
4130712	KHSST28129	M124
4130713	KHSST28130	M127
4130714	KHSST28131	M127
4130715	KHSST28132	M124
4130716	KHSST28133	M127
4130719	KHSST28134	M124
4130720	KHSST28135	M127
4130721	KHSST28136	M124
4130722	KHSST28137	M102
4130755	KHSST28139	M157
4130756	KHSST28140	M157
4130757	KHSST28141	M157
4130758	KHSST28142	M157
4130778	KHSST28152	M41
4130788	KHSST28162	M39
4130789	KHSST28163	M104
4130791	KHSST28165	M102
4130803	KHSST28167	M132
4130808	KHSST28172	M158
4130809	KHSST28173	M158
4130813	KHSST28177	M157
4130814	KHSST28178	M157
4130817	KHSST28181	M157
4131016	KHSST28184	M132
4131019	KHSST28187	M102
4131020	KHSST28188	M104
4131043	KHSST28189	M102
4131047	KHSST28192	M38
4131050	KHSST28194	M134
4131052	KHSST28195	M133
4131054	KHSST28196	M158
4131056	KHSST28197	M158
4131061	KHSST28201	M102
4131065	KHSST28204	M38
4131068	KHSST28207	M132
4131070	KHSST28209	M38
4131071	KHSST28210	M102
4131072	KHSST28211	M102
4131073	KHSST28212	M104
4131075	KHSST28213	M102
4131079	KHSST28217	M134
4131080	KHSST28218	M133
4131081	KHSST28219	M40
4131082	KHSST28220	M38
4131103	KHSST28221	M102
4131106	KHSST28223	M102
4131110	KHSST28226	M134
4131113	KHSST28228	M39
4131116	KHSST28231	M102
4131118	KHSST28233	M132
4131121	KHSST28235	M128–129
4131156	KHSST28239	M132
4131159	KHSST28242	M125–126
4131161	KHSST28244	M36
4131162	KHSST28245	M36
4131163	KHSST28246	M37
4131164	KHSST28247	M37
4131165	KHSST28248	M36
4131167	KHSST28249	M36
4131168	KHSST28250	M37
4131169	KHSST28251	M37
4131170	KHSST28252	M36
4131171	KHSST28253	M36
4131172	KHSST28254	M36
4131184	KHSST28255	M36
4131185	KHSST28256	M36
4131186	KHSST28257	M36
4131187	KHSST28258	M36
4131189	KHSST28259	M36
4131190	KHSST28260	M36
4131191	KHSST28261	M36
4131192	KHSST28262	M36
4131213	KHSST28263	M36
4131214	KHSST28264	M36
4131215	KHSST28265	M36
4131216	KHSST28266	M36
4131217	KHSST28267	M36
4131220	KHSST28268	M36
4131221	KHSST28269	M36
4131222	KHSST28270	M36
4131255	KHSST28271	M36
4131257	KHSST28272	M36
4131258	KHSST28273	M36
4131260	KHSST28274	M36

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4131261	KHSST28275	M36
4131262	KHSST28276	M36
4131263	KHSST28277	M36
4131264	KHSST28278	M129
4131265	KHSST28279	M126
4131267	KHSST28281	M126
4131268	KHSST28282	M129
4131269	KHSST28283	M126
4131272	KHSST28286	M126
4131283	KHSST28287	M128
4131285	KHSST28289	M128
4131286	KHSST28290	M128
4131287	KHSST28291	M125
4131289	KHSST28293	M125
4131290	KHSST28294	M128
4131291	KHSST28295	M128
4131292	KHSST28296	M125
4131294	KHSST28298	M125
4131297	KHSST28301	M128
4131298	KHSST28302	M126
4131300	KHSST28304	M128
4131301	KHSST28305	M126
4131315	KHSST28308	M128
4131316	KHSST28309	M125
4131318	KHSST28311	M128
4131320	KHSST28313	M128
4131321	KHSST28314	M125
4131334	KHSST28317	M128
4131335	KHSST28318	M125
4131336	KHSST28319	M128
4131340	KHSST28323	M125
4131357	KHSST28329	M129
4131359	KHSST28330	M126
4131370	KHSST28338	M129
4131371	KHSST28339	M126
4131372	KHSST28340	M128
4131383	KHSST28341	M125
4131384	KHSST28342	M128
4131385	KHSST28343	M125
4131386	KHSST28344	M128
4131388	KHSST28345	M126
4131389	KHSST28346	M126
4131390	KHSST28347	M128
4131391	KHSST28348	M125
4131392	KHSST28349	M125
4131393	KHSST28350	M128
4131395	KHSST28351	M125
4131396	KHSST28352	M126
4131397	KHSST28353	M128
4131400	KHSST28356	M125
4131423	KHSST28358	M125
4131424	KHSST28359	M125
4131427	KHSST28361	M125
4131430	KHSST28364	M125
4131431	KHSST28365	M126
4131432	KHSST28366	M125
4131435	KHSST28368	M127
4131440	KHSST28371	M127
4131442	KHSST28372	M124
4131463	KHSST28373	M127
4131464	KHSST28374	M127
4131465	KHSST28375	M127
4131466	KHSST28376	M124
4131469	KHSST28379	M127
4131470	KHSST28380	M124
4131476	KHSST28384	M127
4131480	KHSST28388	M127
4131481	KHSST28389	M124
4131496	KHSST28394	M127
4131497	KHSST28395	M127
4131498	KHSST28396	M124
4131499	KHSST28397	M124
4131501	KHSST28399	M127
4131502	KHSST28400	M124
4131523	KHSST28401	M124
4131525	KHSST28403	M127
4131529	KHSST28406	M127
4131530	KHSST28407	M124
4131553	KHSST28410	M124
4131556	KHSST28412	M127
4131557	KHSST28413	M124
4131560	KHSST28416	M127
4131561	KHSST28417	M124
4131593	KHSST28419	M127
4131594	KHSST28420	M127
4131599	KHSST28423	M127
4131601	KHSST28425	M124
4131602	KHSST28426	M124
4131613	KHSST28427	M124
4131614	KHSST28428	M124
4131615	KHSST28429	M127
4131742	KHSST28433	M124
4131803	KHSST28440	M124
4131807	KHSST28443	M157
4131809	KHSST28444	M157
4131810	KHSST28445	M157
4131811	KHSST28446	M157
4131812	KHSST28447	M41
4131823	KHSST28448	M41
4131843	KHSST28455	M131
4131846	KHSST28458	M131
4131850	KHSST28462	M131
4131878	KHSST28465	M131
4131943	KHSST28476	M103
4131947	KHSST28478	M103
4131971	KHSST28675	M132
4131972	KHSST28674	M102
4131994	KHSST28672	M102
4131995	KHSST28671	M104
4131997	KHSST28670	M102
4132075	KHSST28526	M39
4132076	KHSST28527	M39
4132077	KHSST28528	M39
4132078	KHSST28529	M39
4132080	KHSST28531	M39
4132081	KHSST28532	M39
4132093	KHSST28534	M39
4132602	1.18025R110	E16
4132633	1.78025L100	E19
4132634	1.78025R100	E19
4132641	1.18025R310Z	E20, E22
4132647	1.38025R021Z	E20, E22
4132649	1.77125R300Z	E21, E23
4132653	1.78025L300Z	E21, E23
4132655	1.78032L400Z	E21, E23
4132877	B977A06150 KC7315	G135
4133732	RNG45T0425 KYS30	B352
4135418	LNPU763PNSRHD KCPK30	S99, S101
4135419	LNPU763PNSRHD KCK15	S99, S101
4135420	LNPU763PNSRHD KC725M	S99, S101
4135435	HNPJ755ANSNGD KC520M	S25
4135438	HNPJ759ANSNHD KC520M	S26
4135574	TM711M030X050R2DHA KCU33	M165
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4135673	TM711MF140X150R2DHA KCU33	M165
4135674	TM711MF160X150R2DHA KCU33	M165
4135675	TM711MF180X150R2DHA KCU33	M165
4135676	TM711MF200X150R2DHA KCU33	M165
4135763	TM721M060X100R2DHA KCU32	M166
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4135776	TM721MF140X150R2DHA KCU32	M166
4135778	TM721NC2500-20R2DHA KCU32	M166
4135779	TM721NC3125-18R2DHA KCU32	M166
4135780	TM721NC3750-16R2DHA KCU32	M166
4135781	TM721NC4375-14R2DHA KCU32	M166
4135782	TM721NC0500-13R2DHA KCU32	M166
4135783	TM721NC5625-12R2DHA KCU32	M166
4135784	TM721NC0625-11R2DHA KCU32	M166
4135823	TM731M040X070R2DHA KCU32	M167
4135824	TM731M050X080R2DHA KCU32	M167
4135825	TM731M060X100R2DHA KCU32	M167
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4135828	TM731M120X175R2DHA KCU32	M167
4135830	TM731M160X200R2DHA KCU32	M167
4135832	TM731MF080X100R2DHA KCU32	M167
4136208	B269A03000HP KCPK15	G62
4136209	B269A08500HP KCPK15	G63
4136210	B269A14000HP KCPK15	G64
4136381	MEGA90D500LN76M6	S100
4136382	MEGA90D600LN76M8	S100
4136385	MEGA90D1000LN76C10	S100
4136387	MEGA90D1200LN76C10	S100
4136388	MEGA90D1200LN76M10	S100
4136389	KSHRHD150HN43M2	S14
4136390	KSHRHD150HN43F2	S14
4136391	KSHRHD200HN43C3	S14
4136392	KSHRHD200HN43M3	S14
4136394	KSHRHD250HN43M3	S14
4136395	KSHRHD300HN43C4	S14
4136396	KSHRHD300HN43M4	S14
4136397	KSHRHD400HN43C6	S14
4136399	KSHRHD500HN43C6	S14
4136400	KSHRHD500HN43M6	S14
4136407	KSHRHF100D02C075HN43L480	S4
4136408	KSHRHF100D03C075HN43L480	S4
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4136413	KSHRHF250HN43M3	S5
4136414	KSHRHF300HN43M4	S5
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4137052	A4G0805M08U12GMN KCP25	C106
4137279	CCNC0500J4AH KCN05	P136
4137280	CCNC0500J4BH KCN05	P136
4137446	CCNC0250J3AH KCN05	P136
4137447	CCNC0250J3BH KCN05	P136
4137448	CCNC0375J4AH KCN05	P136
4137449	CCNC0375J4BH KCN05	P136
4137459	CBDB0250JXAS KCN05	P138
4137460	CBDB0250JXBS KCN05	P138
4137461	CBDB0375JXAS KCN05	P138
4137462	CBDB0375JXBS KCN05	P138
4137473	CBDB0500JXAS KCN05	P138
4137474	CBDB0500JXBS KCN05	P138
4137719	CDDC0250J6AH KCN05	P137
4137720	CDDC0250J6BH KCN05	P137
4137721	CDDC0375J6AH KCN05	P137
4137722	CDDC0375J6BH KCN05	P137
4137733	CDDC0500J6AH KCN05	P137
4137734	CDDC0500J6BH KCN05	P137
4138292	TM741M060X100R2DHA KCU36	M169
4138344	TM741M080X125R2DHA KCU36	M169
4138346	TM741M100X150R2DHA KCU36	M169
4138348	TM741MF120X150R2DHA KCU36	M169
4138349	TM741M120X175R2DHA KCU36	M169
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4138351	TM741M160X200R2DHA KCU36	M169
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4138353	TM741M200X250R2DHA KCU36	M169
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4138355	TM741MF080X100R2DHA KCU36	M169
4138357	TM741MF100X100R2DHA KCU36	M169
4138366	TM741NC2500-20R2DHA KCU36	M168
4138367	TM741NC3125-18R2DHA KCU36	M168
4138368	TM741NC3750-16R2DHA KCU36	M168
4138370	TM741NC0500-13R2DHA KCU36	M168
4138373	TM741NC0750-10R2DHA KCU36	M168
4138374	TM741NF2500-28R2DHA KCU36	M168
4138375	TM741NF3125-24R2DHA KCU36	M168
4138376	TM741NF3750-24R2DHA KCU36	M168
4138378	TM741NF0500-20R2DHA KCU36	M168
4138380	TM741NF0625-18R2DHA KCU36	M168
4138381	TM741NC0750-16R2DHA KCU36	M168
4139437	KSEM1760HPCCLM KC7410	H60
4140842	KSEM3920HPCCLM KC7410	H61
4141558	SSP8	S104
4142614	KSEM2210HPCCLM KC7410	H60
4146399	WNGA432T0420 KYS30	B354
4146400	WNGA434T0420 KYS30	B354
4146401	CNGA432E KYS30	B350
4146402	CNGA432T0420 KYS30	B350
4146424	CNGA433T0420 KYS30	B350
4146427	DNGA432T0420 KYS30	B351
4146428	DNGA433T0420 KYS30	B351
4146429	SNGA433T0420 KYS30	B353
4146436	CNG453T0420 KYS30	B350
4146437	CNG454T0420 KYS30	B350
4146438	RCGV45T0425 KYS30	B351
4146440	RNG43T0420 KYS30	B352
4146442	RNG45T0225 KYS30	B352
4146443	RNG45T0420 KYS30	B352
4146445	RNG65T0420 KYS30	B352
4146446	SNG432T0420 KYS30	B353
4146447	SNG433T0420 KYS30	B353
4146448	SNG434T0420 KYS30	B353
4146451	SNG454T0420 KYS30	B353
4146453	SNG644T0420 KYS30	B353
4146454	SNG656E KYS30	B353
4146459	CNGX452T0420 KYS30	B350
4146461	CNGX453T0420 KYS30	B350
4146462	CNGX454E KYS30	B350
4146464	DNGX453T0420 KYS30	B351
4146465	DNGX454T0420 KYS30	B351
4146466	SNGX453T0420 KYS30	B353
4146467	SNGX454T0420 KYS30	B353
4146468	RPG32E KYS30	B352, V157
4146469	RCGV23E KYS30	B351
4146470	RCGV35E KYS30	B351
4146471	RCGV35T0225 KYS30	B351
4146472	RCGV35T0420 KYS30	B351
4146473	RCGV45E KYS30	B351
4146474	RCGV45T0420 KYS30	B351
4146475	RPGV35E KYS30	B352
4146476	RPGV35T0420 KYS30	B352
4146477	RPGV45E KYS30	B352
4146478	RPGV45T0420 KYS30	B352
4146482	RNGJ1204M0FLDJ KC422M	V55
4146583	RNGJ1204M0ELD KCPK30	V55
4146584	RNGJ1204M0ELD KC522M	V55
4146585	RNGJ1204M0ELD KC725M	V55
4146586	RNGJ1204M0SGD KCPK30	V55
4146587	RNGJ1204M0SGD KC522M	V55
4146588	RNGJ1204M0SGD KC725M	V55
4147474	RNGJ1204M0SHD KCPK30	V56
4147477	RNGJ1204M0SHD KC725M	V56
4147496	MEGA60D500LN76M6	S98
4147497	MEGA60D600LN76M8	S98
4147499	MEGA60D800LN76M10	S98
4147523	MEGA60D1200LN76M10	S98
4148475	B051A18000CPG KC7325	G18
4148476	B051A18100CPG KC7325	G18
4148477	B051A18200CPG KC7325	G18
4148478	B051A18258CPG KC7325	G18
4148479	B051A18300CPG KC7325	G18
4148480	B051A18400CPG KC7325	G19
4148481	B051A18500CPG KC7325	G19
4148482	B051A18600CPG KC7325	G19
4148583	B051A18654CPG KC7325	G19
4148584	B051A18700CPG KC7325	G19
4148585	B051A18800CPG KC7325	G19
4148586	B051A18900CPG KC7325	G19
4148587	B051A19000CPG KC7325	G19
4148588	B051A19050CPG KC7325	G19
4148589	B051A19100CPG KC7325	G19
4148590	B051A19200CPG KC7325	G19
4148591	B051A19300CPG KC7325	G19
4148592	B051A19400CPG KC7325	G19
4148593	B051A19500CPG KC7325	G19
4148594	B051A19600CPG KC7325	G19

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4148595	B051A197000CPG KC7325	G19
4148596	B051A198000CPG KC7325	G19
4148597	B051A199000CPG KC7325	G19
4148598	B051A200000CPG KC7325	G19
4148804	B051A01500CPG KC7325	G14
4148805	B051A01600CPG KC7325	G14
4148806	B051A01700CPG KC7325	G14
4148807	B051A01800CPG KC7325	G14
4148808	B051A01900CPG KC7325	G14
4148809	B051A01984CPG KC7325	G14
4148810	B051A02100CPG KC7325	G14
4148811	B051A02200CPG KC7325	G14
4148812	B051A02300CPG KC7325	G14
4148843	B051A02383CPG KC7325	G14
4148844	B051A02400CPG KC7325	G14
4148845	B051A02439CPG KC7325	G14
4148846	B051A02489CPG KC7325	G14
4148847	B051A02500CPG KC7325	G14
4148848	B051A02578CPG KC7325	G14
4148849	B051A02600CPG KC7325	G14
4148850	B051A02642CPG KC7325	G14
4148851	B051A02700CPG KC7325	G14
4148852	B051A02705CPG KC7325	G14
4148853	B051A02779CPG KC7325	G14
4148854	B051A02800CPG KC7325	G14
4148855	B051A02820CPG KC7325	G14
4148856	B051A02870CPG KC7325	G14
4148857	B051A02900CPG KC7325	G14
4148858	B051A02947CPG KC7325	G15
4148872	B269A12500HP KCPK15	G63
4149110	B052A10000CPG KC7325	G17
4149111	B052A10100CPG KC7325	G17
4149112	B052A10200CPG KC7325	G17
4149125	B052A03000CPG KC7325	G15
4149126	B052A03048CPG KC7325	G15
4149128	B052A03100CPG KC7325	G15
4149129	B052A03175CPG KC7325	G15
4149130	B052A03200CPG KC7325	G15
4149131	B052A03264CPG KC7325	G15
4149132	B052A03400CPG KC7325	G15
4149143	B052A01500CPG KC7325	G14
4149144	B052A01600CPG KC7325	G14
4149145	B052A01700CPG KC7325	G14
4149146	B052A01800CPG KC7325	G14
4149147	B052A01900CPG KC7325	G14
4149148	B052A01984CPG KC7325	G14
4149149	B052A02000CPG KC7325	G14
4149150	B052A02100CPG KC7325	G14
4149151	B052A02200CPG KC7325	G14
4149152	B052A02300CPG KC7325	G14
4149153	B052A02383CPG KC7325	G14
4149154	B052A02400CPG KC7325	G14
4149155	B052A02439CPG KC7325	G14
4149156	B052A02489CPG KC7325	G14
4149157	B052A02500CPG KC7325	G14
4149158	B052A02578CPG KC7325	G14
4149159	B052A02600CPG KC7325	G14
4149160	B052A02642CPG KC7325	G14
4149161	B052A02700CPG KC7325	G14
4149162	B052A02705CPG KC7325	G14
4149163	B052A02779CPG KC7325	G14
4149164	B052A02800CPG KC7325	G14
4149165	B052A02820CPG KC7325	G14
4149166	B052A02870CPG KC7325	G14
4149167	B052A02900CPG KC7325	G14
4149168	B052A02947CPG KC7325	G15
4149178	B052A18000CPG KC7325	G18
4149179	B052A18100CPG KC7325	G18
4149180	B052A18200CPG KC7325	G18
4149181	B052A18258CPG KC7325	G18
4149182	B052A18300CPG KC7325	G18
4149183	B052A03455CPG KC7325	G15
4149184	B052A03500CPG KC7325	G15
4149185	B052A03571CPG KC7325	G15
4149186	B052A03600CPG KC7325	G15
4149187	B052A03658CPG KC7325	G15
4149188	B052A03700CPG KC7325	G15
4149189	B052A03734CPG KC7325	G15
4149190	B052A03800CPG KC7325	G15
4149191	B052A03900CPG KC7325	G15
4149192	B052A03970CPG KC7325	G15
4149193	B052A04000CPG KC7325	G15
4149194	B052A04039CPG KC7325	G15
4149195	B052A04090CPG KC7325	G15
4149196	B052A04100CPG KC7325	G15
4149197	B052A04200CPG KC7325	G15
4149198	B052A04217CPG KC7325	G15
4149199	B052A04300CPG KC7325	G15
4149200	B052A04366CPG KC7325	G15
4149201	B052A04400CPG KC7325	G15
4149202	B052A04500CPG KC7325	G15
4149203	B052A04600CPG KC7325	G15
4149204	B052A04623CPG KC7325	G15
4149205	B052A04700CPG KC7325	G15
4149206	B052A04763CPG KC7325	G15
4149207	B052A04800CPG KC7325	G15
4149208	B052A04852CPG KC7325	G15
4149209	B052A04900CPG KC7325	G15
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4149211	B052A05100CPG KC7325	G15
4149212	B052A05106CPG KC7325	G15
4149213	B052A05159CPG KC7325	G15
4149214	B052A05200CPG KC7325	G15
4149215	B052A05300CPG KC7325	G15
4149216	B052A05400CPG KC7325	G15
4149217	B052A05410CPG KC7325	G15
4149218	B052A05500CPG KC7325	G15
4149219	B052A05558CPG KC7325	G15
4149220	B052A05600CPG KC7325	G15
4149221	B052A05616CPG KC7325	G15
4149222	B052A05700CPG KC7325	G15
4149223	B052A05800CPG KC7325	G15
4149224	B052A05900CPG KC7325	G15
4149225	B052A05954CPG KC7325	G15
4149226	B052A06000CPG KC7325	G16
4149227	B052A06100CPG KC7325	G16
4149228	B052A06200CPG KC7325	G16
4149229	B052A06300CPG KC7325	G16
4149230	B052A06350CPG KC7325	G16
4149231	B052A06400CPG KC7325	G16
4149232	B052A06500CPG KC7325	G16
4149233	B052A06528CPG KC7325	G16
4149234	B052A06600CPG KC7325	G16
4149235	B052A06630CPG KC7325	G16
4149236	B052A06700CPG KC7325	G16
4149237	B052A06746CPG KC7325	G16
4149238	B052A06800CPG KC7325	G16
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4149244	B052A07300CPG KC7325	G16
4149245	B052A07400CPG KC7325	G16
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4149255	B052A08200CPG KC7325	G16
4149256	B052A08300CPG KC7325	G16
4149257	B052A08334CPG KC7325	G16
4149258	B052A08400CPG KC7325	G16
4149259	B052A08433CPG KC7325	G16
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4149269	B052A09200CPG KC7325	G16
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4149271	B052A09347CPG KC7325	G16
4149272	B052A09400CPG KC7325	G16
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4149275	B052A09600CPG KC7325	G16
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4149594	B053A03200CPG KC7325	G15
4149595	B053A03264CPG KC7325	G15
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4149597	B053A03400CPG KC7325	G15
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4149631	B053A05400CPG KC7325	G15
4149632	B053A05410CPG KC7325	G15
4149633	B053A05500CPG KC7325	G15
4149634	B053A05558CPG KC7325	G15
4149635	B053A05600CPG KC7325	G15
4149636	B053A05616CPG KC7325	G15

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4149637	B053A05700CPG KC7325	G15
4149638	B053A05800CPG KC7325	G15
4149639	B053A05900CPG KC7325	G15
4149640	B053A05954CPG KC7325	G15
4149641	B053A06000CPG KC7325	G16
4149642	B053A06100CPG KC7325	G16
4149643	B053A06200CPG KC7325	G16
4149644	B053A06300CPG KC7325	G16
4149645	B053A06350CPG KC7325	G16
4149646	B053A06400CPG KC7325	G16
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4149648	B053A06528CPG KC7325	G16
4149649	B053A06600CPG KC7325	G16
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4149658	B053A07200CPG KC7325	G16
4149659	B053A07300CPG KC7325	G16
4149660	B053A07400CPG KC7325	G16
4149661	B053A07500CPG KC7325	G16
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4150177	B041A10100CPG KC7325	G11
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4150179	B041A10300CPG KC7325	G11
4150180	B041A10320CPG KC7325	G11
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4150219	B041A05558CPG KC7325	G9
4150220	B041A05600CPG KC7325	G10
4150221	B041A05616CPG KC7325	G10
4150222	B041A05700CPG KC7325	G10
4150223	B041A05800CPG KC7325	G10
4150224	B041A05900CPG KC7325	G10
4150225	B041A05954CPG KC7325	G10
4150226	B041A06000CPG KC7325	G10
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4150232	B041A06500CPG KC7325	G10
4150233	B041A06528CPG KC7325	G10
4150234	B041A06600CPG KC7325	G10
4150235	B041A06630CPG KC7325	G10
4150236	B041A06700CPG KC7325	G10
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4150238	B041A06800CPG KC7325	G10
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4150245	B041A07400CPG KC7325	G10
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4150249	B041A07700CPG KC7325	G10
4150250	B041A07800CPG KC7325	G10
4150251	B041A07900CPG KC7325	G10
4150252	B041A07938CPG KC7325	G10
4150253	B041A08000CPG KC7325	G10
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4150312	B041A12100CPG KC7325	G11
4150313	B041A12200CPG KC7325	G11
4150314	B041A12300CPG KC7325	G11
4150315	B041A12304CPG KC7325	G11
4150316	B041A12400CPG KC7325	G11
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4150319	B041A12700CPG KC7325	G11
4150320	B041A12800CPG KC7325	G11
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4150324	B041A13100CPG KC7325	G11
4150325	B041A13200CPG KC7325	G11
4150326	B041A13300CPG KC7325	G11
4150327	B041A13400CPG KC7325	G11
4150328	B041A13500CPG KC7325	G11
4150329	B041A13600CPG KC7325	G11

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4150330	B041A137000PG KC7325	G12
4150331	B041A138000PG KC7325	G12
4150332	B041A13891CPG KC7325	G12
4150333	B041A139000PG KC7325	G12
4150334	B041A140000PG KC7325	G12
4150335	B041A141000PG KC7325	G12
4150336	B041A142000PG KC7325	G12
4150337	B041A14288CPG KC7325	G12
4150338	B041A143000PG KC7325	G12
4150339	B041A144000PG KC7325	G12
4150340	B041A145000PG KC7325	G12
4150341	B041A146000PG KC7325	G12
4150342	B041A14684CPG KC7325	G12
4150343	B041A147000PG KC7325	G12
4150344	B041A148000PG KC7325	G12
4150345	B041A149000PG KC7325	G12
4150346	B041A150000PG KC7325	G12
4150347	B041A15083CPG KC7325	G12
4150348	B041A151000PG KC7325	G12
4150349	B041A152000PG KC7325	G12
4150350	B041A153000PG KC7325	G12
4150351	B041A15400CPG KC7325	G12
4150352	B041A15479CPG KC7325	G12
4150353	B041A155000PG KC7325	G12
4150354	B041A156000PG KC7325	G12
4150355	B041A157000PG KC7325	G12
4150356	B041A15800CPG KC7325	G12
4150357	B041A15875CPG KC7325	G12
4150358	B041A159000PG KC7325	G12
4150359	B041A160000PG KC7325	G12
4150360	B041A161000PG KC7325	G12
4150361	B041A162000PG KC7325	G12
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4150363	B041A163000PG KC7325	G12
4150364	B041A164000PG KC7325	G12
4150365	B041A165000PG KC7325	G12
4150366	B041A166000PG KC7325	G12
4150367	B041A16670CPG KC7325	G12
4150368	B041A167000PG KC7325	G12
4150369	B041A168000PG KC7325	G12
4150370	B041A169000PG KC7325	G12
4150371	B041A170000PG KC7325	G12
4150372	B041A171000PG KC7325	G12
4150373	B041A172000PG KC7325	G12
4150374	B041A173000PG KC7325	G12
4150375	B041A17400CPG KC7325	G12
4150376	B041A17463CPG KC7325	G12
4150377	B041A17500CPG KC7325	G12
4150378	B041A176000PG KC7325	G12
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4150405	B041A182000PG KC7325	G13
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4150415	B041A190000PG KC7325	G13
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4150423	B041A197000PG KC7325	G13
4150424	B041A198000PG KC7325	G13
4150425	B041A199000PG KC7325	G13
4150426	B041A200000PG KC7325	G13
4150456	B051A10200CPG KC7325	G17
4150457	B051A103000PG KC7325	G17
4150458	B051A10320CPG KC7325	G17
4150459	B051A10400CPG KC7325	G17
4150460	B051A10500CPG KC7325	G17
4150461	B051A106000PG KC7325	G17
4150462	B051A10700CPG KC7325	G17
4150602	B042A032000PG KC7325	G9
4150633	B042A03048CPG KC7325	G9
4150634	B042A031000PG KC7325	G9
4150635	B042A03175CPG KC7325	G9
4150636	B042A032000PG KC7325	G9
4150637	B042A03264CPG KC7325	G9
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4150670	B042A05159CPG KC7325	G9
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4150762	B042A119000PG KC7325	G11
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4150805	B042A15479CPG KC7325	G12
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4150807	B042A156000PG KC7325	G12
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4150823	B042A169000PG KC7325	G12
4150824	B042A170000PG KC7325	G12
4150825	B042A171000PG KC7325	G12
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4150827	B042A173000PG KC7325	G12
4150828	B042A17400CPG KC7325	G12
4150829	B042A17463CPG KC7325	G12
4150830	B042A17500CPG KC7325	G12
4150831	B042A176000PG KC7325	G12
4150832	B042A177000PG KC7325	G12
4150833	B042A178000PG KC7325	G12
4150834	B042A17859CPG KC7325	G12
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4150836	B042A180000PG KC7325	G13
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4150873	B042A186000PG KC7325	G13
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4150889	B042A200000PG KC7325	G13
4151081	B051A03000PG KC7325	G15
4151082	B051A03048CPG KC7325	G15
4151103	B051A03100CPG KC7325	G15
4151104	B051A03175CPG KC7325	G15
4151105	B051A03264CPG KC7325	G15
4151106	B051A033000PG KC7325	G15
4151107	B051A034000PG KC7325	G15
4151108	B051A03455CPG KC7325	G15
4151109	B051A035000PG KC7325	G15
4151110	B051A03571CPG KC7325	G15
4151111	B051A036000PG KC7325	G15
4151112	B051A03658CPG KC7325	G15
4151113	B051A037000PG KC7325	G15
4151114	B051A03734CPG KC7325	G15
4151115	B051A038000PG KC7325	G15
4151116	B051A039000PG KC7325	G15
4151117	B051A03970CPG KC7325	G15
4151118	B051A04039CPG KC7325	G15

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4151119	B051A04090CPG KC7325	G15
4151120	B051A04100CPG KC7325	G15
4151121	B051A04200CPG KC7325	G15
4151122	B051A04217CPG KC7325	G15
4151123	B051A04300CPG KC7325	G15
4151124	B051A04366CPG KC7325	G15
4151125	B051A04400CPG KC7325	G15
4151126	B051A04500CPG KC7325	G15
4151127	B051A04600CPG KC7325	G15
4151128	B051A04623CPG KC7325	G15
4151129	B051A04700CPG KC7325	G15
4151130	B051A04763CPG KC7325	G15
4151131	B051A04800CPG KC7325	G15
4151132	B051A04852CPG KC7325	G15
4151133	B051A04900CPG KC7325	G15
4151134	B051A05000CPG KC7325	G15
4151135	B051A05100CPG KC7325	G15
4151136	B051A05106CPG KC7325	G15
4151137	B051A05159CPG KC7325	G15
4151138	B051A05200CPG KC7325	G15
4151139	B051A05300CPG KC7325	G15
4151140	B051A05400CPG KC7325	G15
4151141	B051A05410CPG KC7325	G15
4151142	B051A05500CPG KC7325	G15
4151143	B051A05558CPG KC7325	G15
4151144	B051A05600CPG KC7325	G15
4151145	B051A05616CPG KC7325	G15
4151146	B051A05700CPG KC7325	G15
4151147	B051A05800CPG KC7325	G15
4151148	B051A05954CPG KC7325	G15
4151149	B051A06100CPG KC7325	G16
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4151161	B051A06900CPG KC7325	G16
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4151163	B051A07100CPG KC7325	G16
4151164	B051A07145CPG KC7325	G16
4151165	B051A07200CPG KC7325	G16
4151166	B051A07300CPG KC7325	G16
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4151176	B051A08100CPG KC7325	G16
4151177	B051A08200CPG KC7325	G16
4151178	B051A08300CPG KC7325	G16
4151179	B051A08334CPG KC7325	G16
4151180	B051A08400CPG KC7325	G16
4151181	B051A08433CPG KC7325	G16
4151182	B051A08500CPG KC7325	G16
4151183	B051A08600CPG KC7325	G16
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4151185	B051A08733CPG KC7325	G16
4151186	B051A08800CPG KC7325	G16
4151187	B051A08900CPG KC7325	G16
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4151189	B051A09100CPG KC7325	G16
4151190	B051A09129CPG KC7325	G16
4151191	B051A09200CPG KC7325	G16
4151192	B051A09300CPG KC7325	G16
4151193	B051A09347CPG KC7325	G16
4151194	B051A09400CPG KC7325	G16
4151195	B051A09500CPG KC7325	G16
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4151202	B051A10000CPG KC7325	G17
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4151215	B051A10900CPG KC7325	G17
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4151217	B051A11100CPG KC7325	G17
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4151219	B051A11200CPG KC7325	G17
4151220	B051A11300CPG KC7325	G17
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4151225	B051A11700CPG KC7325	G17
4151226	B051A11800CPG KC7325	G17
4151227	B051A11900CPG KC7325	G17
4151228	B051A11908CPG KC7325	G17
4151229	B051A12000CPG KC7325	G17
4151230	B051A12100CPG KC7325	G17
4151231	B051A12200CPG KC7325	G17
4151232	B051A12300CPG KC7325	G17
4151233	B051A12304CPG KC7325	G17
4151234	B051A12400CPG KC7325	G17
4151235	B051A12500CPG KC7325	G17
4151236	B051A12600CPG KC7325	G17
4151237	B051A12700CPG KC7325	G17
4151238	B051A12800CPG KC7325	G17
4151239	B051A12900CPG KC7325	G17
4151240	B051A13000CPG KC7325	G17
4151241	B051A13096CPG KC7325	G17
4151242	B051A13100CPG KC7325	G17
4151243	B051A13200CPG KC7325	G17
4151244	B051A13300CPG KC7325	G17
4151245	B051A13400CPG KC7325	G17
4151246	B051A13500CPG KC7325	G17
4151247	B051A13600CPG KC7325	G17
4151248	B051A13700CPG KC7325	G17
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4151252	B051A14100CPG KC7325	G17
4151253	B051A14200CPG KC7325	G18
4151254	B051A14288CPG KC7325	G18
4151255	B051A14300CPG KC7325	G18
4151256	B051A14400CPG KC7325	G18
4151257	B051A14500CPG KC7325	G18
4151258	B051A14600CPG KC7325	G18
4151259	B051A14684CPG KC7325	G18
4151260	B051A14700CPG KC7325	G18
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4151262	B051A14900CPG KC7325	G18
4151263	B051A15000CPG KC7325	G18
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4151265	B051A15100CPG KC7325	G18
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4151271	B051A15600CPG KC7325	G18
4151272	B051A15700CPG KC7325	G18
4151273	B051A15800CPG KC7325	G18
4151274	B051A15875CPG KC7325	G18
4151275	B051A15900CPG KC7325	G18
4151276	B051A16000CPG KC7325	G18
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4151278	B051A16200CPG KC7325	G18
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4151295	B051A17600CPG KC7325	G18
4151296	B051A17700CPG KC7325	G18
4151297	B051A17800CPG KC7325	G18
4151298	B051A17859CPG KC7325	G18
4151299	B051A17900CPG KC7325	G18
4151623	B041A01000CPG KC7325	G8
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4151653	B041A02642CPG KC7325	G8
4151654	B041A02700CPG KC7325	G8
4151655	B041A02705CPG KC7325	G9
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4151657	B041A02800CPG KC7325	G9
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4151737	B053A01600CPG KC7325	G14
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4151752	B053A02600CPG KC7325	G14
4151753	B053A02642CPG KC7325	G14
4151754	B053A02700CPG KC7325	G14
4151755	B053A02705CPG KC7325	G14
4151756	B053A02779CPG KC7325	G14
4151757	B053A02800CPG KC7325	G14
4151758	B053A02820CPG KC7325	G14
4151759	B053A02870CPG KC7325	G14
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4151761	B053A02947CPG KC7325	G15
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4151778	B042A01067CPG KC7325	G8
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4151812	B042A02900CPG KC7325	G9
4151813	B042A02947CPG KC7325	G9
4153778	T321M100X150R6HX KC7542	M5
4153779	T321M120X175R6HX KC7542	M5
4153780	T321M140X200R6HX KC7542	M5
4153781	T321M160X200R6HX KC7542	M5
4153782	T321MF120X150R6HX KC7542	M5
4153874	T650M240X300R6HX-D6 KP6525	M58
4153875	T650M300X350R6HX-D6 KP6525	M58
4153876	T650M330X350R6HX-D6 KP6525	M58
4153877	T650M360X400R6HX-D6 KP6525	M58
4153878	T650M420X450R6HX-D6 KP6525	M58
4153879	T650M240X300R6HX-XL KP6525	M60
4153880	T650M300X350R6HX-XL KP6525	M60
4153881	T650M330X350R6HX-XL KP6525	M60
4153882	T650M360X400R6HX-XL KP6525	M60
4153883	T650M420X450R6HX-XL KP6525	M60
4153884	T651M240X300R6HX-D6 KP6525	M59
4153885	T651M300X350R6HX-D6 KP6525	M59
4153886	T651M330X350R6HX-D6 KP6525	M59
4153887	T651M360X400R6HX-D6 KP6525	M59
4153888	T651M420X450R6HX-D6 KP6525	M59
4153889	T651M240X300R6HX-XL KP6525	M61
4153890	T651M300X350R6HX-XL KP6525	M61
4153891	T651M330X350R6HX-XL KP6525	M61
4153892	T651M360X400R6HX-XL KP6525	M61
4153893	T651M420X450R6HX-XL KP6525	M61
4153903	T321MF140X150R6HX KC7542	M5
4154007	T632M050X080R6HX-D1 KP6525	M52
4154008	T632M060X100R6HX-D1 KP6525	M52
4154009	T632M080X125R6HX-D1 KP6525	M52
4154010	T632M100X150R6HX-D1 KP6525	M52
4154011	T632M120X175R6HX-D6 KP6525	M52
4154012	T632M140X200R6HX-D6 KP6525	M52
4154013	T632MF120X150R6HX-D4 KP6525	M52
4154014	T632MF140X150R6HX-D4 KP6525	M52
4154015	T632MF160X150R6HX-D4 KP6525	M52
4154016	T633M050X080R6HX-D1 KP6525	M53
4154017	T633M060X100R6HX-D1 KP6525	M53
4154018	T633M080X125R6HX-D1 KP6525	M53
4154019	T633M100X150R6HX-D1 KP6525	M53
4154020	T633M120X175R6HX-D6 KP6525	M53
4154021	T633M140X200R6HX-D6 KP6525	M53
4154022	T633MF120X150R6HX-D4 KP6525	M53
4154023	T633MF140X150R6HX-D4 KP6525	M53
4154024	T633MF160X150R6HX-D4 KP6525	M53
4154103	T600M030X050R6HX-D1 KSP21	M22
4154104	T600M040X070R6HX-D1 KSP21	M22
4154105	T600M050X080R6HX-D1 KSP21	M22
4154106	T600M060X100R6HX-D1 KSP21	M22
4154107	T600M080X125R6HX-D1 KSP21	M22
4154108	T600M100X150R6HX-D1 KSP21	M22
4154109	T600M120X175R6HX-D6 KSP21	M22
4154110	T600M140X200R6HX-D6 KSP21	M22

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4154111	T600M160X200R6HX-D6 KSP21	M22
4154112	T600M180X250R6HX-D6 KSP21	M22
4154113	T600M200X250R6HX-D6 KSP21	M22
4154114	T600MF080X100R6HX-D4 KSP21	M22
4154115	T600MF100X100R6HX-D4 KSP21	M22
4154116	T600MF100X125R6HX-D4 KSP21	M22
4154117	T600MF120X125R6HX-D4 KSP21	M22
4154118	T600MF120X150R6HX-D4 KSP21	M22
4154119	T600MF140X150R6HX-D4 KSP21	M22
4154120	T600MF160X150R6HX-D4 KSP21	M22
4154647	T622M030X050R6HX-D74 KSN28	M139
4154648	T622M040X070R6HX-D74 KSN28	M139
4154649	T622M050X080R6HX-D74 KSN28	M139
4154650	T622M060X100R6HX-D74 KSN28	M139
4154651	T622M080X125R6HX-D74 KSN28	M139
4154652	T622M100X150R6HX-D74 KSN28	M139
4154693	T622M120X175R6HX-D74 KSN28	M139
4154694	T622M160X200R6HX-D74 KSN28	M139
4154695	T622MF080X100R6HX-D74 KSN28	M139
4154696	T622MF100X100R6HX-D74 KSN28	M139
4154697	T622MF100X125R6HX-D74 KSN28	M139
4154698	T622MF120X125R6HX-D74 KSN28	M139
4154699	T622MF120X150R6HX-D74 KSN28	M139
4154700	T622MF140X150R6HX-D74 KSN28	M139
4154701	T622MF160X150R6HX-D74 KSN28	M139
4155723	EP1408SGD2 KC725M	T59, T70
4155725	EP1408SGD2 KCPK30	T59, T70
4155726	EP1408SGD2 KC520M	T59, T70
4156451	T642M050X080R6HX-D1 KP6525	M122
4156452	T642M060X100R6HX-D1 KP6525	M122
4156543	T642M080X125R6HX-D1 KP6525	M122
4156544	T642M100X150R6HX-D1 KP6525	M122
4156545	T642M120X175R6HX-D6 KP6525	M122
4156546	T642M140X200R6HX-D6 KP6525	M122
4156547	T642MF120X150R6HX-D4 KP6525	M122
4156548	T642MF140X150R6HX-D4 KP6525	M122
4156549	T642MF160X150R6HX-D4 KP6525	M122
4156550	T643M050X080R6HX-D1 KP6525	M123
4156551	T643M060X100R6HX-D1 KP6525	M123
4156552	T643M080X125R6HX-D1 KP6525	M123
4156553	T643M100X150R6HX-D1 KP6525	M123
4156554	T643M120X175R6HX-D6 KP6525	M123
4156555	T643M140X200R6HX-D6 KP6525	M123
4156556	T643MF120X150R6HX-D4 KP6525	M123
4156557	T643MF140X150R6HX-D4 KP6525	M123
4156558	T643MF160X150R6HX-D4 KP6525	M123
4157734	T410M030X050R6HX-D1 KCU36	M116
4157735	T410M040X070R6HX-D1 KCU36	M116
4157736	T410M050X080R6HX-D1 KCU36	M116
4157737	T410M060X100R6HX-D1 KCU36	M116
4157738	T410M080X125R6HX-D1 KCU36	M116
4157739	T410M100X150R6HX-D1 KCU36	M116
4157740	T410M120X175R6HX-D6 KCU36	M116
4157741	T410M140X200R6HX-D6 KCU36	M116
4157742	T410MF080X100R6HX-D4 KCU36	M116
4157963	T410MF100X100R6HX-D4 KCU36	M116
4157964	T410MF120X150R6HX-D4 KCU36	M116
4157965	T410MF140X150R6HX-D4 KCU36	M116
4157966	T410MF160X150R6HX-D4 KCU36	M116
4158449	T622M030X050R6HX-D74 KSP21	M139
4158450	T622M040X070R6HX-D74 KSP21	M139
4158451	T622M050X080R6HX-D74 KSP21	M139
4158452	T622M060X100R6HX-D74 KSP21	M139
4158483	T622M080X125R6HX-D74 KSP21	M139
4158484	T622M100X150R6HX-D74 KSP21	M139
4158485	T622M120X175R6HX-D74 KSP21	M139
4158486	T622M160X200R6HX-D74 KSP21	M139
4158487	T622MF080X100R6HX-D74 KSP21	M139
4158488	T622MF100X100R6HX-D74 KSP21	M139
4158489	T622MF100X125R6HX-D74 KSP21	M139
4158490	T622MF120X125R6HX-D74 KSP21	M139
4158491	T622MF120X150R6HX-D74 KSP21	M139
4158492	T622MF140X150R6HX-D74 KSP21	M139
4158493	T622MF160X150R6HX-D74 KSP21	M139
4158728	KTIP03125HP KCP15	H32
4158729	KTIP0800HPM KCP15	H32
4158730	KTIP0810HPM KCP15	H32
4158731	KTIP03214HP KCP15	H32
4158732	KTIP03230HP KCP15	H32
4158893	KTIP0830HPM KCP15	H32
4158894	KTIP03281HP KCP15	H32
4158895	KTIP0840HPM KCP15	H32
4158896	KTIP03320HP KCP15	H32
4158897	KTIP0850HPM KCP15	H32
4158898	KTIP0860HPM KCP15	H32
4158899	KTIP03390HP KCP15	H32
4158900	KTIP0870HPM KCP15	H32
4158901	KTIP03438HP KCP15	H32
4158902	KTIP0880HPM KCP15	H32
4158903	KTIP03480HP KCP15	H32
4158904	KTIP0890HPM KCP15	H32
4158905	KTIP0900HPM KCP15	H32
4158906	KTIP03580HP KCP15	H32
4158907	KTIP0910HPM KCP15	H32
4158908	KTIP03594HP KCP15	H32
4158909	KTIP0920HPM KCP15	H32
4158910	KTIP0930HPM KCP15	H32
4158911	KTIP03680HP KCP15	H32
4158912	KTIP0940HPM KCP15	H32
4158913	KTIP0950HPM KCP15	H32
4158914	KTIP03750HP KCP15	H32
4158915	KTIP03763HP KCP15	H32
4158916	KTIP03770HP KCP15	H32
4158917	KTIP0960HPM KCP15	H32
4158918	KTIP03820HP KCP15	H32
4158919	KTIP03860HP KCP15	H32
4158920	KTIP0990HPM KCP15	H32
4158921	KTIP03906HP KCP15	H32
4158922	KTIP1000HPM KCP15	H32
4158923	KTIP03946HP KCP15	H32
4158924	KTIP03970HP KCP15	H32
4158925	KTIP1010HPM KCP15	H32
4158926	KTIP1020HPM KCP15	H32
4158927	KTIP04040HP KCP15	H32
4158928	KTIP1030HPM KCP15	H32
4158929	KTIP04063HP KCP15	H32
4158930	KTIP1040HPM KCP15	H32
4158931	KTIP04130HP KCP15	H32
4158932	KTIP1050HPM KCP15	H32
4158933	KTIP1060HPM KCP15	H32
4158934	KTIP1070HPM KCP15	H32
4158935	KTIP04219HP KCP15	H32
4158936	KTIP1080HPM KCP15	H32
4158937	KTIP1090HPM KCP15	H32
4158938	KTIP1100HPM KCP15	H32
4158939	KTIP1110HPM KCP15	H32
4158940	KTIP04375HP KCP15	H32
4158941	KTIP1120HPM KCP15	H32
4158942	KTIP1130HPM KCP15	H32
4158943	KTIP1140HPM KCP15	H32
4158944	KTIP1150HPM KCP15	H32
4158945	KTIP04531HP KCP15	H32
4158946	KTIP1160HPM KCP15	H32
4158947	KTIP1170HPM KCP15	H32
4158948	KTIP1180HPM KCP15	H32
4158949	KTIP1190HPM KCP15	H32
4158950	KTIP04688HP KCP15	H33
4158951	KTIP1200HPM KCP15	H33
4158952	KTIP1210HPM KCP15	H33
4158953	KTIP1220HPM KCP15	H33
4158954	KTIP04844HP KCP15	H33
4158955	KTIP1240HPM KCP15	H33
4158956	KTIP04911HP KCP15	H33
4158957	KTIP1250HPM KCP15	H33
4158958	KTIP1260HPM KCP15	H33
4158959	KTIP05000HP KCP15	H33
4158960	KTIP1280HPM KCP15	H33
4158961	KTIP05080HP KCP15	H33
4158962	KTIP1300HPM KCP15	H33
4158963	KTIP05156HP KCP15	H33
4158964	KTIP1320HPM KCP15	H33
4158965	KTIP1330HPM KCP15	H33
4158966	KTIP1340HPM KCP15	H33
4158967	KTIP05312HP KCP15	H33
4158968	KTIP1350HPM KCP15	H33
4158969	KTIP1360HPM KCP15	H33
4158970	KTIP1370HPM KCP15	H33
4158971	KTIP1380HPM KCP15	H33
4158972	KTIP05469HP KCP15	H33
4158973	KTIP05471HP KCP15	H33
4158974	KTIP1400HPM KCP15	H33
4158975	KTIP1410HPM KCP15	H33
4158976	KTIP1420HPM KCP15	H33
4158977	KTIP05625HP KCP15	H33
4158978	KTIP1430HPM KCP15	H33
4158979	KTIP1440HPM KCP15	H33
4158980	KTIP1450HPM KCP15	H33
4158981	KTIP1460HPM KCP15	H33
4158982	KTIP05774HP KCP15	H33
4158983	KTIP05781HP KCP15	H33
4158984	KTIP1470HPM KCP15	H33
4158985	KTIP1480HPM KCP15	H33
4158986	KTIP1500HPM KCP15	H33
4158987	KTIP05938HP KCP15	H33
4159030	KTIP1520HPM KCP15	H33
4159031	KTIP1530HPM KCP15	H33
4159032	KTIP1540HPM KCP15	H33
4159205	KTIP1510HPM KCP15	H33
4159223	KTIP06094HP KCP15	H33
4159224	KTIP1550HPM KCP15	H33
4159225	KTIP1560HPM KCP15	H33
4159226	KTIP1570HPM KCP15	H33
4159227	KTIP1580HPM KCP15	H33
4159228	KTIP06250HP KCP15	H33
4159229	KTIP1600HPM KCP15	H33
4159230	KTIP06310HP KCP15	H33
4159231	KTIP06330HP KCP15	H33
4159232	KTIP1610HPM KCP15	H33
4159233	KTIP1620HPM KCP15	H33
4159234	KTIP06406HP KCP15	H33
4159235	KTIP1630HPM KCP15	H33
4159236	KTIP1640HPM KCP15	H33
4159237	KTIP1650HPM KCP15	H33
4159238	KTIP1660HPM KCP15	H33
4159239	KTIP06563HP KCP15	H33
4159240	KTIP1670HPM KCP15	H33
4159241	KTIP1680HPM KCP15	H33
4159242	KTIP1690HPM KCP15	H33
4159243	KTIP1700HPM KCP15	H33
4159244	KTIP06719HP KCP15	H33
4159245	KTIP1710HPM KCP15	H33
4159246	KTIP1720HPM KCP15	H33
4159247	KTIP1730HPM KCP15	H33
4159248	KTIP1740HPM KCP15	H33
4159249	KTIP06875HP KCP15	H33
4159250	KTIP1750HPM KCP15	H33
4159251	KTIP1760HPM KCP15	H33
4159252	KTIP1770HPM KCP15	H33
4159253	KTIP1780HPM KCP15	H33
4159254	KTIP07031HP KCP15	H33
4159255	KTIP1790HPM KCP15	H33
4159256	KTIP1800HPM KCP15	H33
4159257	KTIP1810HPM KCP15	H33
4159258	KTIP1820HPM KCP15	H33
4159259	KTIP07188HP KCP15	H33
4159260	KTIP1850HPM KCP15	H33
4159261	KTIP1860HPM KCP15	H33
4159262	KTIP07344HP KCP15	H33
4159263	KTIP1870HPM KCP15	H33
4159264	KTIP1880HPM KCP15	H33
4159265	KTIP1890HPM KCP15	H33
4159266	KTIP1900HPM KCP15	H33
4159267	KTIP07500HP KCP15	H33
4159268	KTIP1910HPM KCP15	H33
4159269	KTIP1920HPM KCP15	H33
4159270	KTIP07570HP KCP15	H33
4159271	KTIP07580HP KCP15	H33
4159272	KTIP1930HPM KCP15	H33
4159273	KTIP1940HPM KCP15	H33
4159274	KTIP07656HP KCP15	H33
4159275	KTIP1950HPM KCP15	H33
4159276	KTIP1960HPM KCP15	H33
4159277	KTIP1970HPM KCP15	H34
4159278	KTIP1980HPM KCP15	H34
4159279	KTIP07813HP KCP15	H34
4159280	KTIP1990HPM KCP15	H34
4159281	KTIP2000HPM KCP15	H34
4159282	KTIP2010HPM KCP15	H34
4159283	KTIP2020HPM KCP15	H34
4159284	KTIP07969HP KCP15	H34
4159285	KTIP2030HPM KCP15	H34
4159286	KTIP2050HPM KCP15	H34
4159287	KTIP2060HPM KCP15	H34
4159288	KTIP08125HP KCP15	H34
4159289	KTIP2070HPM KCP15	H34
4159290	KTIP2080HPM KCP15	H34
4159291	KTIP2090HPM KCP15	H34
4159292	KTIP2099HPM KCP15	H34
4159293	KTIP2100HPM KCP15	H34
4159294	KTIP08438HP KCP15	H34
4159295	KTIP2150HPM KCP15	H34
4159296	KTIP2200HPM KCP15	H34
4159297	KTIP08750HP KCP15	H34
4159298	KTIP2250HPM KCP15	H34
4159299	KTIP2300HPM KCP15	H34
4159300	KTIP2350HPM KCP15	H34
4159301	KTIP09375HP KCP15	H34
4159302	KTIP2400HPM KCP15	H34
4159303	KTIP2450HPM KCP15	H34
4159304	KTIP09688HP KCP15	H34
4159305	KTIP2500HPM KCP15	H34
4159306	KTIP10000HP KCP15	H34
4159307	KTIP2550HPM KCP15	H34
4159308	KTIP10110HP KCP15	H34
4159309	KTIP10160HP KCP15	H34
4159310	KTIP2599HPM KCP15	H34
4159311	KTIP2600HPM KCP15	H34
4159312	KTIP10310HP KCP15	H34
4159313	KTIP2650HPM KCP15	H34
4159314	KTIP10469HP KCP15	H34
4159315	KTIP2700HPM KCP15	H34
4159316	KTIP2750HPM KCP15	H34
4159317	KTIP10938HP KCP15	H34
4159318	KTIP2799HPM KCP15	H34
4159441	T623M050X080R6HX-D74 KSN28	M140
4159442	T623M060X100R6HX-D74 KSN28	M140
4159623	T623M080X125R6HX-D74 KSN28	M140
4159624	T623M100X150R6HX-D74 KSN28	M140
4159625	T623M120X175R6HX-D74 KSN28	M140
4159626	T623M160X200R6HX-D74 KSN28	M140
4159627	T623MF080X100R6HX-D74 KSN28	M140
4159628	T623MF100X100R6HX-D74 KSN28	M140
4159629	T623MF120X150R6HX-D74 KSN28	M140
4159630	T623MF140X150R6HX-D74 KSN28	M140
4159631	T623MF160X150R6HX-D74 KSN28	M140
4159820	T623M050X080R6HX-D74 KSP21	M140
4159821	T623M060X100R6HX-D74 KSP21	M140
4159822	T623M080X125R6HX-D74 KSP21	M140
4159843	T623M100X150R6HX-D74 KSP21	M140
4159844	T623M120X175R6HX-D74 KSP21	M140
4159845	T623M160X200R6HX-D74 KSP21	M140
4159846	T623MF080X100R6HX-D74 KSP21	M140
4159847	T623MF100X100R6HX-D74 KSP21	M140
4159848	T623MF120X150R6HX-D74 KSP21	M140
4159849	T623MF140X150R6HX-D74 KSP21	M140
4159850	T623MF160X150R6HX-D74 KSP21	M140
4160768	RCGT1204M0MS KCU25	B239
4160769	RCGT1606M0MS KCU25	B239

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4161098	T604M030X050R6H-D1 KSH26	M73
4161099	T604M040X070R6H-D1 KSH26	M73
4161100	T604M050X080R6H-D1 KSH26	M73
4161101	T604M060X100R6H-D1 KSH26	M73
4161102	T604M080X125R6H-D1 KSH26	M73
4161343	T604M100X150R6H-D1 KSH26	M73
4161344	T604M120X175R6H-D6 KSH26	M73
4161345	T604M140X200R6H-D6 KSH26	M73
4161346	T604M160X200R6H-D6 KSH26	M73
4161347	T604M180X250R6H-D6 KSH26	M73
4161348	T604M200X250R6H-D6 KSH26	M73
4161349	T604MF080X100R6H-D4 KSH26	M73
4161350	T604MF100X100R6H-D4 KSH26	M73
4161351	T604MF100X125R6H-D4 KSH26	M73
4161352	T604MF120X125R6H-D4 KSH26	M73
4161353	T604MF120X150R6H-D4 KSH26	M73
4161354	T604MF140X150R6H-D4 KSH26	M73
4161355	T604MF160X150R6H-D4 KSH26	M73
4164987	RIQ09E1300 KC6005	K58
4165042	NGD3M350LK KCU25	C165
4167881	CV40FBHM1691	K134
4167882	CV40FBHMKIT645	K127, K131
4168063	EBM1580160162	K136
4168669	A4G0300M03P04S02025ST KB1630	C111
4168670	A4G0400M04P04S02025ST KB1630	C111
4168753	A4G0300M03P04EST KB1630	C111
4168755	A4G0500M05P08EST KB1630	C111
4168756	A4G0600M06P08EST KB1630	C111
4168757	A4R0300M03P00EST KB1630	B355, C112
4168758	A4R0400M04P00EST KB1630	B355, C112
4168759	A4R0500M05P00EST KB1630	B355, C112
4168760	A4R0600M06P00EST KB1630	B355, C112
4168856	A4SCR080214	C127
4168857	A4SCR100217	C127
4168858	A4SCR080314	C127
4168859	A4SCR100317	C127
4168860	A4SCL080214	C127
4168861	A4SCL100217	C127
4168862	A4SCL080314	C127
4168883	A4SCL100317	C127
4168928	A4G0300M03P04S02025ST KB5625	C111
4168929	A4G0400M04P04S02025ST KB5625	C111
4168930	A4G0500M05P08S02025ST KB5625	C111
4168931	A4G0600M06P08S02025ST KB5625	C111
4168932	NG3M200LS02020ST KB5625	C177
4168945	NG3M200RS02020ST KB5625	C177
4168946	NG3M300RS02020ST KB5625	C177
4168947	NG3M400RS02020ST KB5625	C177
4168948	NG3125RS0820ST KB5625	C177
4169239	B269A03175HP KCPK15	G62
4169240	B269A03264HP KCPK15	G62
4169241	B269A03500HP KCPK15	G62
4169242	B269A03970HP KCPK15	G62
4169243	B269A04000HP KCPK15	G62
4169244	B269A04500HP KCPK15	G62
4169245	B269A04600HP KCPK15	G62
4169246	B269A04763HP KCPK15	G62
4169247	B269A04800HP KCPK15	G62
4169248	B269A05000HP KCPK15	G62
4169249	B269A05100HP KCPK15	G62
4169250	B269A05200HP KCPK15	G62
4169251	B269A05300HP KCPK15	G62
4169252	B269A05410HP KCPK15	G62
4169253	B269A05500HP KCPK15	G62
4169254	B269A05558HP KCPK15	G62
4169255	B269A05600HP KCPK15	G62
4169256	B269A05700HP KCPK15	G62
4169257	B269A05800HP KCPK15	G62
4169258	B269A06000HP KCPK15	G62
4169259	B269A06200HP KCPK15	G63
4169260	B269A06350HP KCPK15	G63
4169261	B269A06500HP KCPK15	G63
4169262	B269A06528HP KCPK15	G63
4169263	B269A06600HP KCPK15	G63
4169264	B269A06746HP KCPK15	G63
4169265	B269A06800HP KCPK15	G63
4169266	B269A06909HP KCPK15	G63
4169267	B269A07000HP KCPK15	G63
4169268	B269A07145HP KCPK15	G63
4169269	B269A07500HP KCPK15	G63
4169270	B269A07541HP KCPK15	G63
4169271	B269A07700HP KCPK15	G63
4169272	B269A07800HP KCPK15	G63
4169273	B269A07938HP KCPK15	G63
4169274	B269A08000HP KCPK15	G63
4169275	B269A08100HP KCPK15	G63
4169276	B269A08334HP KCPK15	G63
4169277	B269A08433HP KCPK15	G63
4169278	B269A08700HP KCPK15	G63
4169279	B269A08733HP KCPK15	G63
4169280	B269A09000HP KCPK15	G63
4169281	B269A09100HP KCPK15	G63
4169282	B269A09129HP KCPK15	G63
4169283	B269A09500HP KCPK15	G63
4169284	B269A09525HP KCPK15	G63
4169285	B269A09921HP KCPK15	G63
4169286	B269A10000HP KCPK15	G63
4169287	B269A10200HP KCPK15	G63
4169288	B269A10300HP KCPK15	G63
4169289	B269A10320HP KCPK15	G63
4169290	B269A10500HP KCPK15	G63
4169291	B269A10716HP KCPK15	G63
4169292	B269A10800HP KCPK15	G63
4169293	B269A11000HP KCPK15	G63
4169294	B269A11113HP KCPK15	G63
4169295	B269A11500HP KCPK15	G63
4169296	B269A11800HP KCPK15	G63
4169297	B269A12000HP KCPK15	G63
4169298	B269A12100HP KCPK15	G63
4169299	B269A12304HP KCPK15	G63
4169300	B269A12700HP KCPK15	G63
4169301	B269A13000HP KCPK15	G64
4169302	B269A13100HP KCPK15	G64
4169303	B269A13500HP KCPK15	G64
4169304	B269A14100HP KCPK15	G64
4169305	B269A14288HP KCPK15	G64
4169306	B269A14500HP KCPK15	G64
4169307	B269A14684HP KCPK15	G64
4169308	B269A15000HP KCPK15	G64
4169309	B269A15500HP KCPK15	G64
4169310	B269A15875HP KCPK15	G64
4169311	B269A16000HP KCPK15	G64
4169312	B269A16500HP KCPK15	G64
4169313	B269A17000HP KCPK15	G64
4169314	B269A17463HP KCPK15	G64
4169315	B269A17500HP KCPK15	G64
4169316	B269A18000HP KCPK15	G64
4169317	B269A18500HP KCPK15	G64
4169318	B269A19000HP KCPK15	G64
4169319	B269A19050HP KCPK15	G64
4169320	B269A19500HP KCPK15	G64
4169321	B269A20000HP KCPK15	G64
4169337	NG3M200RS02020ST KB1630	C177
4169338	NG3M300RS02020ST KB1630	C177
4169341	NG3125RS0820ST KB1630	C177
4169343	NG3125LS0820ST KB1630	C177
4169351	UEDE0078J3AS KC643M	P166
4169352	UEDE0094J3AS KC643M	P166
4169513	UEDE0125J3AS KC643M	P166
4169514	UEDE0156J3AS KC643M	P166
4169515	UEDE0188J3AS KC643M	P166
4169516	UEDE0250J3AS KC643M	P166
4169517	UEDE0312J3AS KC643M	P166
4169518	UEDE0375J3AS KC643M	P166
4169519	UEDE0437J3AS KC643M	P166
4169520	UEDE0500J3AS KC643M	P166
4169660	UEBD0078J3A KC643M	P169
4169661	UEBD0094J3A KC643M	P169
4169662	UEBD0125J3A KC643M	P169
4169745	A4SCR1212K0214	C128
4169746	A4SCR1616K0217	C128
4169747	A4SCR1212K0314	C128
4169748	A4SCR1616K0317	C128
4169749	A4SCL1212K0214	C128
4169750	A4SCL1616K0217	C128
4169752	A4SCL1616K0317	C128
4169805	UEDE0156J4AH KC643M	P167
4169806	UEDE0188J4AH KC643M	P167
4169807	UEDE0250J4AH KC643M	P167
4169808	UEDE0312J4AH KC643M	P167
4169809	UEDE0375J4AH KC643M	P167
4169810	UEDE0437J4AH KC643M	P167
4169811	UEDE0500J4AH KC643M	P167
4169833	UEBD0156J3A KC643M	P169
4169834	UEBD0188J3A KC643M	P169
4169835	UEBD0250J3A KC643M	P169
4169836	UEBD0312J3A KC643M	P169
4169837	UEBD0375J3A KC643M	P169
4169838	UEBD0437J3A KC643M	P169
4169839	UEBD0500J3A KC643M	P169
4170385	CM209R ASSY	B58–60, B67–68, B87
4170386	CM210R ASSY	B58–60, B68, B98, B109–110
4170388	CM235R ASSY	B150–151
4170389	CM234RLP ASSY	B67–68, B92, B138
4170408	KSCMCA90QF KD1420	S110
4170410	KSCMCA90UNBF KD1420	S110
4170411	KSCMCA90QFBF KD1420	S110
4171227	LNUX301940RRF KCP10	E57
4171768	RCGT0803M0MS KCU10	B239
4171769	RCGT1204M0MS KCU10	B239
4171770	RCGT1606M0MS KCU10	B239
4171823	CNMG4305FN KCU10	B49
4171824	CNMG431FP KCU10	B49
4171825	DNMG331FF KCU10	B79
4171826	DNMG331FP KCU10	B80
4171827	DNMG431FP KCU10	B80
4171828	DNMG432FP KCU10	B80
4171829	DNMG433FP KCU10	B80
4171830	DNMG441FP KCU10	B80
4171831	DNMG442FP KCU10	B80
4171833	SNMG321FF KCU10	B101
4171835	SNMG431FP KCU10	B101
4171836	SNMG432FP KCU10	B101
4171837	TNMG221FF KCU10	B123
4171838	TNMG331FP KCU10	B123
4171839	TNMG332FP KCU10	B123
4171840	TNMG333FP KCU10	B123
4171841	TNMG431FP KCU10	B123
4171842	TNMG432FP KCU10	B123
4171843	VNMG331FP KCU10	B146
4171844	VNMG332FP KCU10	B146
4171845	WNMG331FF KCU10	B157
4171848	WNMG431FF KCU10	B157
4171849	WNMG431FP KCU10	B158
4171851	WNMG432FP KCU10	B158
4171853	NPL13M05N KCU10	E35
4171854	NPL13M10N KCU10	E35
4171855	NPL5M02 KCU10	E36
4171856	NPL5M05 KCU10	E36
4171857	NPR13M05F KCU10	E35
4171858	NPR13M10N KCU10	E35
4171860	NPR5M05 KCU10	E36
4173826	UEBD0078J2A KC643M	P168
4173827	UEBD0094J2A KC643M	P168
4173828	UEBD0125J2A KC643M	P168
4173829	UEBD0156J2A KC643M	P168
4173830	UEBD0188J2A KC643M	P168
4173831	UEBD0250J2A KC643M	P168
4173832	UEBD0312J2A KC643M	P168
4173913	UEBD0375J2A KC643M	P168
4173914	UEBD0437J2A KC643M	P168
4173915	UEBD0500J2A KC643M	P168
4174419	S459CG	T90, V70
4175270	B731A04200HP KCPK15	G118
4175271	B731A05000HP KCPK15	G118
4175272	B731A06800HP KCPK15	G118
4175403	B731A08500HP KCPK15	G118
4175404	B731A10200HP KCPK15	G118
4175405	B731A10500HP KCPK15	G118
4175406	B731A12000HP KCPK15	G118
4175407	B731A12500HP KCPK15	G118
4175408	B731A14000HP KCPK15	G118
4175409	B732A04200HP KCPK15	G119
4175410	B732A05000HP KCPK15	G119
4175411	B732A06800HP KCPK15	G119
4175412	B732A08500HP KCPK15	G119
4175413	B732A10200HP KCPK15	G119
4175414	B732A10500HP KCPK15	G119
4175415	B732A12000HP KCPK15	G119
4175416	B732A12500HP KCPK15	G119
4175417	B732A14000HP KCPK15	G119
4175418	B731A03734HP KCPK15	G118
4175419	B731A04496HP KCPK15	G118
4175420	B731A05106HP KCPK15	G118
4175421	B731A05410HP KCPK15	G118
4175422	B731A06528HP KCPK15	G118
4175423	B731A06909HP KCPK15	G118
4175424	B731A07938HP KCPK15	G118
4175425	B731A08433HP KCPK15	G118
4175426	B731A09921HP KCPK15	G118
4175427	B731A10716HP KCPK15	G118
4175428	B731A12304HP KCPK15	G118
4175429	B731A13096HP KCPK15	G118
4175430	B731A13495HP KCPK15	G118
4175431	B731A16670HP KCPK15	G118
4175432	B731A17463HP KCPK15	G118
4175433	B731A19446HP KCPK15	G118
4175434	B732A03734HP KCPK15	G119
4175435	B732A04496HP KCPK15	G119
4175436	B732A05106HP KCPK15	G119
4175437	B732A05410HP KCPK15	G119
4175438	B732A06528HP KCPK15	G119
4175439	B732A06909HP KCPK15	G119
4175440	B732A07938HP KCPK15	G119
4175441	B732A08433HP KCPK15	G119
4175442	B732A09921HP KCPK15	G119
4175443	B732A10716HP KCPK15	G119
4175445	B732A13096HP KCPK15	G119
4175446	B732A13495HP KCPK15	G119
4175447	B732A16670HP KCPK15	G119
4175448	B732A17463HP KCPK15	G119
4175834	NGD3125RK KCU10	C165
4175835	NGD3189L KCU10	C171
4175836	NGD3189LK KCU10	C165
4175837	NGD3189R KCU10	C171
4175838	NGD3189RK KCU10	C165
4175839	NGD3M200RK KCU10	C165
4175840	NGP3088L KCU10	C168
4175841	NGP3088R KCU10	C168
4175843	NG2031L KCU10	C170
4175844	NG2031LK KCU10	C163
4175845	NG2031R KCU10	C170
4175846	NG2031RK KCU10	C162
4175847	NG2041R KCU10	C170
4175848	NG2047L KCU10	C170
4175849	NG2047LK KCU10	C163
4175850	NG2047R KCU10	C170
4175851	NG2047RK KCU10	C162
4175852	NG2062L KCU10	C170
4175853	NG2062LK KCU10	C163
4175854	NG2062R KCU10	C170
4175855	NG2062RK KCU10	C162
4175856	NG2094L KCU10	C170
4175857	NG2094LK KCU10	C163
4175858	NG2094R KCU10	C170
4175859	NG2094RK KCU10	C162
4175860	NG2125L KCU10	C170
4175861	NG2125LK KCU10	C163
4175862	NG2125R KCU10	C170
4175863	NG2125RK KCU10	C162
4175864	NG2M080LK KCU10	C163
4175865	NG2M080RK KCU10	C162
4175866	NG2M100LK KCU10	C163
4175867	NG2M100RK KCU10	C162
4175868	NG2M120LK KCU10	C163
4175869	NG2M120RK KCU10	C162
4175870	NG2M140LK KCU10	C163
4175871	NG2M140RK KCU10	C162
4175873	NG2M170RK KCU10	C162
4175875	NG2M195RK KCU10	C162
4175876	NG2M200LK KCU10	C163
4175877	NG2M200RK KCU10	C162
4175878	NG2M225LK KCU10	C163
4175879	NG2M225RK KCU10	C162
4175880	NG2M275RK KCU10	C162

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
4175881	NG2M300LK KCU10	C163
4175882	NG2M300RK KCU10	C162
4175883	NGP3125R KCU10	C168
4175884	NGP3156R KCU10	C168
4175886	NJ3014R12 KCU10	D15
4175888	NJF3005R32 KCU10	D15
4175893	NGP2031L KCU10	C168
4175894	NGP2031R KCU10	C168
4175895	NGP2062L KCU10	C168
4175896	NGP2062R KCU10	C168
4175897	NGP2125L KCU10	C168
4175898	NGP2125R KCU10	C168
4175899	NP2002RK KCU10	C167
4175901	NR2031L KCU10	C172
4175902	NR2031R KCU10	C172
4175903	NR2062L KCU10	C172
4175904	NR2062R KCU10	C172
4175905	NR2M050L KCU10	C172
4175906	NR2M050R KCU10	C172
4175907	NR2M075R KCU10	C172
4175908	NR2M100R KCU10	C172
4175909	NT2L KCU10	D17
4175910	NT2LK KCU10	D22
4175911	NT2R KCU10	D17
4175912	NT2RK KCU10	D22
4175928	NJK3008R20 KCU10	D16
4175932	NJP3010R16 KCU10	D16
4175933	NTF2L KCU10	D21
4175934	NTF2R KCU10	D21
4175935	NTK2L KCU10	D21
4175936	NTK2R KCU10	D21
4175937	NTP2L KCU10	D22
4175938	NTP2R KCU10	D22
4175944	NJP3014R12 KCU10	D16
4175946	NP3002RK KCU10	C167
4175947	NPD3012RK KCU10	C167
4175948	NR3031L KCU10	C172
4175949	NR3031LK KCU10	C166
4175950	NR3031R KCU10	C172
4175951	NR3031RK KCU10	C166
4175952	NR3047L KCU10	C172
4175953	NR3047LK KCU10	C166
4175954	NR3047R KCU10	C172
4175955	NR3047RK KCU10	C166
4175956	NR3062L KCU10	C172
4175957	NR3062LK KCU10	C166
4175958	NR3062R KCU10	C172
4175959	NR3062RK KCU10	C166
4175961	NR3078RK KCU10	C166
4175963	NR3094R KCU10	C172
4175964	NR3M150L KCU10	C172
4175965	NRD3031L KCU10	C173
4175966	NRD3031R KCU10	C173
4175967	NRD3062L KCU10	C173
4175968	NRD3062R KCU10	C173
4175969	NRP3031L KCU10	C169
4175970	NRP3031R KCU10	C169
4175971	NRP3047L KCU10	C169
4175972	NRP3047R KCU10	C169
4175975	NRP3062R KCU10	C169
4175976	NRP3094L KCU10	C169
4175977	NRP3094R KCU10	C169
4175978	NT3L KCU10	D17
4175979	NT3LCK KCU10	D19
4175980	NT3LK KCU10	D22
4175981	NT3R KCU10	D17
4175982	NT3RCK KCU10	D19
4175983	NT3RK KCU10	D22
4175984	NTF3L KCU10	D21
4175985	NTF3R KCU10	D21
4175986	NTK3L KCU10	D21
4175987	NTK3R KCU10	D21
4175988	NTP3L KCU10	D22
4175989	NTP3R KCU10	D22
4176009	NG4125L KCU10	C171
4176010	NG4125LK KCU10	C164
4176011	NG4125R KCU10	C170
4176012	NG4125RK KCU10	C163
4176015	NA3L4 KCU10	D11
4176018	NA3L8 KCU10	D11
4176019	NA3R10 KCU10	D11
4176020	NA3R12 KCU10	D11
4176021	NA3R16 KCU10	D11
4176023	NA3R5 KCU10	D11
4176024	NA3R6 KCU10	D11
4176025	NA3R8 KCU10	D11
4176026	NAS3L10 KCU10	D12
4176027	NAS3L5 KCU10	D12
4176028	NAS3L6 KCU10	D12
4176029	NAS3L8 KCU10	D12
4176030	NAS3R10 KCU10	D12
4176031	NAS3R5 KCU10	D12
4176032	NAS3R6 KCU10	D12
4176033	NAS3R8 KCU10	D12
4176034	NG3047L KCU10	C170
4176035	NG3047LK KCU10	C163
4176036	NG3047R KCU10	C170
4176037	NG3047RK KCU10	C162
4176038	NG3062L KCU10	C170
4176039	NG3062LK KCU10	C163
4176040	NG3062R KCU10	C170
4176041	NG3062RK KCU10	C162
4176042	NG3072L KCU10	C170
4176043	NG3072LK KCU10	C163
4176044	NG3072R KCU10	C170
4176045	NG3072RK KCU10	C162
4176046	NG3078L KCU10	C170
4176047	NG3078LK KCU10	C163
4176048	NG3078R KCU10	C170
4176049	NG3078RK KCU10	C162
4176050	NG3088L KCU10	C170
4176051	NG3088R KCU10	C170
4176052	NG3094L KCU10	C170
4176053	NG3094LK KCU10	C164
4176054	NG3094R KCU10	C170
4176055	NG3094RK KCU10	C162
4176056	NG3097L KCU10	C171
4176057	NG3097R KCU10	C170
4176058	NG3105L KCU10	C171
4176059	NG3105R KCU10	C170
4176060	NG3125L KCU10	C171
4176061	NG3125LK KCU10	C164
4176062	NG3125R KCU10	C170
4176063	NG3125RK KCU10	C162
4176064	NG3142L KCU10	C171
4176065	NG3156LK KCU10	C164
4176066	NG3156R KCU10	C170
4176067	NG3156RK KCU10	C162
4176068	NG3189L KCU10	C171
4176069	NG3189LK KCU10	C164
4176070	NG3189R KCU10	C170
4176071	NG3189RK KCU10	C163
4176072	NG3M120LK KCU10	C163
4176073	NG4189L KCU10	C171
4176074	NG4189LK KCU10	C164
4176075	NG4189R KCU10	C170
4176076	NG4189RK KCU10	C163
4176077	NG4250L KCU10	C171
4176078	NG4250LK KCU10	C164
4176079	NG4250R KCU10	C170
4176081	NG4M400LK KCU10	C164
4176083	NG4M500LK KCU10	C164
4176084	NG4M500RK KCU10	C163
4176085	NGD4125LK KCU10	C165
4176086	NGD4125RK KCU10	C165
4176087	NGD4189LK KCU10	C165
4176088	NGD4189RK KCU10	C165
4176089	NGD4250L KCU10	C171
4176090	NGD4250LK KCU10	C165
4176091	NGD4250R KCU10	C171
4176092	NGD4250RK KCU10	C165
4176093	NG3M120RK KCU10	C162
4176094	NG3M225LK KCU10	C164
4176095	NG3M225RK KCU10	C162
4176096	NG3M275LK KCU10	C164
4176097	NG3M275RK KCU10	C162
4176098	NG3M300LK KCU10	C164
4176099	NG3M300RK KCU10	C162
4176100	NG3M400LK KCU10	C164
4176101	NG3M400RK KCU10	C162
4176102	NG3M425LK KCU10	C164
4176104	NGP4189R KCU10	C168
4176105	NGP4250L KCU10	C168
4176107	NR4062LK KCU10	C166
4176108	NR4062RK KCU10	C166
4176109	NR4094LK KCU10	C166
4176110	NR4094RK KCU10	C166
4176112	NR4125LK KCU10	C166
4176113	NR4125R KCU10	C172
4176114	NR4125RK KCU10	C166
4176115	NRD4062L KCU10	C173
4176116	NRD4062R KCU10	C173
4176117	NRD4094L KCU10	C173
4176118	NRD4094R KCU10	C173
4176119	NRD4125L KCU10	C173
4176121	NT4L KCU10	D17
4176122	NT4LK KCU10	D22
4176123	NG3M425RK KCU10	C163
4176124	NGD3062LK KCU10	C165
4176125	NGD3062RK KCU10	C165
4176126	NGD3094LK KCU10	C165
4176127	NGD3094RK KCU10	C165
4176128	NGD3125LK KCU10	C165
4176133	NT4R KCU10	D17
4176135	NT4RK KCU10	D22
4176137	NTP4R KCU10	D22
4176138	NA4L4 KCU10	D11
4176141	NA6R2 KCU10	D11
4176164	NDC3115VL75 KCU10	D14
4176165	NDC3115VR75 KCU10	D14
4176166	NDC314VR75 KCU10	D14
4176167	NDC327VR75 KCU10	D14
4176177	NDC68RDR75M KCU10	D13
4176178	NDC8115VR75M KCU10	D14
4176180	NDC88VR75M KCU10	D14
4176181	NT1L KCU10	D23
4176182	NTB2LB KCU10	D18
4176186	NTB3LB KCU10	D18
4176187	NTB3RA KCU10	D17
4176188	NTB3RB KCU10	D18
4176190	NTB4RA KCU10	D17
4176191	NTB4RB KCU10	D18
4176192	NTC3L10E KCU10	D20
4176193	NTC3L12E KCU10	D20
4176194	NTC3L16E KCU10	D20
4176195	NTC3MR150E KCU10	D19
4176198	NTC3R11E KCU10	D20
4176204	NTC3R20E KCU10	D20
4176206	NTC3R32E KCU10	D20
4176207	NTC3R8E KCU10	D20
4176208	NTC3R9E KCU10	D20
4177167	KDMB025R394A038HN	V123
4177169	KDMB0312R591A038HN	V123
4177170	KDMB025R394A025HN	V123
4177171	KDMB025R591A025HN	V123
4177172	KDMB025R788A025HN	V123
4177578	KDMT0750SRHF KC515M	V135
4177597	VBMT333LF KCP25	B281
4177635	KDMB0250M0ERGP KC515M	V126
4177637	KDMB0375M0ERGP KC515M	V126
4177638	KDMB0500M0ERGP KC515M	V126
4177639	KDMB0625M0ERGP KC515M	V126
4177640	KDMB0750M0ERGP KC515M	V126
4177641	KDMB1000M0ERGP KC515M	V126
4177642	KDMB1250M0ERGP KC515M	V126
4177643	KDMB0312M0ERGP KC505M	V126
4177644	KDMB0375M0ERGP KC505M	V126
4177645	KDMB0500M0ERGP KC505M	V126
4177646	KDMB0625M0ERGP KC505M	V126
4177647	KDMB0750M0ERGP KC505M	V126
4177648	KDMB1000M0ERGP KC505M	V126
4177649	KDMB1250M0ERGP KC505M	V126
4177650	KDMB0250M0ERLD K115M	V126
4177651	KDMB0312M0ERLD K115M	V126
4177652	KDMB0375M0ERLD K115M	V126
4177653	KDMB0500M0ERLD K115M	V126
4177654	KDMB0625M0ERLD K115M	V126
4177655	KDMB0750M0ERLD K115M	V126
4177656	KDMB1000M0ERLD K115M	V126
4177657	KDMB1250M0ERLD K115M	V126
4177658	KDMB0500M0ERHC KC530M	V126
4177659	KDMB0625M0ERHC KC530M	V126
4177660	KDMB0750M0ERHC KC530M	V126
4177661	KDMB1000M0ERHC KC530M	V126
4178116	KDR150R1204M16L150	V51
4178119	KDR125R1202W100L200	V52
4178120	KDR125R1202C125L900	V53
4178122	KDR150R1204S050L157	V54
4178123	KDR200R1204S075L200	V54
4178124	KDR200R1205S075L200	V54
4178125	KDR250R1207S075L200	V54
4178126	KDR300R1208S100L200	V54
4181068	RIQ09R0400S KB1610	K57
5000493	B707A12600FBG KC7315	G111
5001994	A4R0405M04U00GMN KCP25	C107
5004291	RIQ09R0400FB KT6225	K58
5006833	B978A03800 KC7315	G139
5015690	193.545	H126–129
5023558	B269A03700HP KCPK15	G62
5025597	SF300M1LA1RA	K68
5025598	SF750M1LA1RA	K68
5025599	SF300M1RS	K68
5025670	SF750M1RS	K68
5025671	SFSLRS	K69
5025672	SFSLLS	K69
5025673	SFSLRA	K69
5025674	SFSLLA	K69
5025675	SFMGS	K71
5025676	SFCR20	K71
5025677	SFCRHSK3263	K71
5025678	SFCRHSK63100	K71
5025679	SFCR20S	K71
5025680	SFVB	K69
5025681	SFEBS	K70
5025682	SFEBCH	K70
5025683	SFSLSS	K69
5025684	SFSB450	K70
5025685	SFSB900	K70
5025686	SFCPS	K70
5030114	UJDE0625J6CRB KCSM15	P44
5039055	B269A04300HP KCPK15	G62
5048735	CNMU443MN KCP10	B51
5051283	HPFT500S6063 KC635M	P110
5051285	HPFT250S6038 KC635M	P110
5051327	HPFT750S6300 KC635M	P110
5051382	HPFT750S6400 KC635M	P110
5051389	HPFT1000S6400 KC635M	P110
5051852	AADE0750J3K K600	P130
5051853	AADE1000J3I K600	P130
5051854	AADE1000J3K K600	P130
5051855	AADE0500J3K K600	P129
5051857	AADE0625J3H K600	P130
5051858	AADE0500J3L K600	P129
5051941	AADE0312J3D K600	P128
5051942	AADE0438J3A K600	P129
5051946	AADE0312J3DRB K600	P128
5051949	AADE0375J3KRB K600	P129
5052000	AADE0375J3KRC K600	P129
5052001	AADE0500J3KRB K600	P129
5052002	AADE0500J3KRC K600	P129
5052003	AADE0500J3LRB K600	P129
5052004	AADE0500J3LRC K600	P129
5052007	AADE0625J3HRC K600	P130
5052008	AADE0750J3ARB K600	P130
5052040	AADE0750J3ARC K600	P130
5053664	HPHV750S4225 KCPM15	P19
5057900	B976A10600 KC7315	G137
5058500	KSEM2653HPGM KC7315	H55
5058542	AADF500J2B K600	P127
5058612	AADF500J2F K600	P127
5058615	AADF375J2G K600	P126
5058618	AADF250J2I K600	P126
5058633	AADF375J2H K600	P126
5059163	AADE750J3J K600	P130
5059165	AADE750J3K K600	P130
5059167	AADE500J3H K600	P129
5059202	AADE438J3A K600	P129
5059203	AADE375J3I K600	P129
5059206	AADE250J3H K600	P128
5059209	AADE188J3F K600	P128
5059213	AADE125J3F K600	P128
5059215	AADE625J3I K600	P129
5059218	AADE125J3G K600	P128
5059219	AADE250J3B K600	P128
5059278	B978A03400 KC7315	G139
5059453	UGDE0250J5AE KC643M	P38
5059455	UGDE0250J5ARA KC643M	P38
5059457	UGDE0250J5ARB KC643M	P38

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5059458	UGDE0250J5BE KC643M	P39
5059459	UGDE0250J5BRA KC643M	P39
5059580	UGDE0250J5BRB KC643M	P39
5059582	UGDE0312J5AE KC643M	P38
5059583	UGDE0312J5ARA KC643M	P38
5059584	UGDE0312J5ARB KC643M	P38
5059585	UGDE0312J5BE KC643M	P39
5059589	UGDE0312J5BRA KC643M	P39
5059620	UGDE0312J5BRB KC643M	P39
5059622	UGDE0375J5AE KC643M	P38
5059623	UGDE0375J5ARA KC643M	P38
5059624	UGDE0375J5ARB KC643M	P38
5059625	UGDE0375J5ARC KC643M	P38
5059626	UGDE0375J5BE KC643M	P39
5059627	UGDE0375J5BRA KC643M	P39
5059628	UGDE0375J5BRB KC643M	P39
5059629	UGDE0375J5BRC KC643M	P39
5059670	UGDE0500J5AE KC643M	P38
5059671	UGDE0500J5ARA KC643M	P38
5059672	UGDE0500J5ARB KC643M	P38
5059673	UGDE0500J5ARC KC643M	P38
5059674	UGDE0500J5BE KC643M	P39
5059675	UGDE0500J5BRA KC643M	P39
5059676	UGDE0500J5BRB KC643M	P39
5059677	UGDE0500J5BRC KC643M	P39
5059678	UGDE0625J5AE KC643M	P38
5059697	UGDE0625J5ARA KC643M	P38
5059703	UGDE0625J5ARB KC643M	P38
5059704	UGDE0625J5ARC KC643M	P38
5059705	UGDE0625J5ARD KC643M	P38
5059706	UGDE0625J5BE KC643M	P39
5059707	UGDE0625J5BRA KC643M	P39
5059709	UGDE0625J5BRB KC643M	P39
5059740	UGDE0625J5BRC KC643M	P39
5059741	UGDE0625J5BRD KC643M	P39
5059742	UGDE0750J5AE KC643M	P38
5059743	UGDE0750J5ARA KC643M	P38
5059744	UGDE0750J5ARB KC643M	P38
5059745	UGDE0750J5ARC KC643M	P38
5059746	UGDE0750J5ARD KC643M	P38
5059747	UGDE0750J5BE KC643M	P39
5059748	UGDE0750J5BRA KC643M	P39
5059749	UGDE0750J5BRB KC643M	P39
5059770	UGDE0750J5BRC KC643M	P39
5059771	UGDE0750J5BRD KC643M	P39
5059795	UGDE1000J5AE KC643M	P38
5059798	UGDE1000J5ARA KC643M	P38
5059799	UGDE1000J5ARB KC643M	P38
5060120	UGDE1000J5ARC KC643M	P38
5060121	UGDE1000J5ARD KC643M	P38
5060122	UGDE1000J5BE KC643M	P39
5060123	UGDE1000J5BRA KC643M	P39
5060124	UGDE1000J5BRB KC643M	P39
5060126	UGDE1000J5BRC KC643M	P39
5060127	UGDE1000J5BRD KC643M	P39
5060206	HPFSS156S5056 KC635M	P109
5062104	SNMG322FF KCU10	B101
5062106	SNMG432MP KCU10	B102
5062108	SNMG432RP KCU10	B105
5062109	SNMG433MP KCU10	B102
5062110	SNMG433P KCU10	B104
5062111	SNMG433RP KCU10	B105
5062112	SNMG543MP KCU10	B102
5062113	SNMG543RP KCU10	B105
5062114	SNMG543UP KCU10	B106
5062115	SNMG643 KCU10	B100
5062117	SNMG643RP KCU10	B105
5062120	SNMG644RP KCU10	B105
5062121	SNMG866 KCU10	B100
5062122	SNMG866RM KCU10	B104
5062123	TNGG3305LF KCU10	B121
5062126	TNGP3305 KCU10	B121
5062127	TNGP331 KCU10	B121
5062128	TNGP332 KCU10	B121
5062129	TNMG331FF KCU10	B123
5062130	TNMG331FW KCU10	B124
5062131	TNMG331MP KCU10	B124
5062132	TNMG331P KCU10	B126
5062133	TNMG332FF KCU10	B123
5062135	TNMG332MP KCU10	B124
5062136	TNMG332P KCU10	B126
5062137	TNMG332RP KCU10	B127
5062139	TNMG431P KCU10	B126
5062140	TNMG432MP KCU10	B124
5062141	TNMG432P KCU10	B126
5062142	TNMG432RP KCU10	B127
5062144	TNMG433P KCU10	B126
5062145	TNMG433RP KCU10	B127
5062147	TNMG543RP KCU10	B127
5062148	TNMG666RP KCU10	B127
5062149	CNMG643MS KCU25	B52
5063675	RPET1204M0ELEJ KC522M	V71
5063676	RPET1204M0ELEJ KC725M	V71
5063677	RPET1204M0SGEJ KC522M	V71
5063678	RPET1204M0SGEJ KC725M	V71
5063701	RPET1605M0ELEJ KC725M	V78
5063702	RPET1605M0SGEJ KC522M	V78
5063704	RPET1605M0SGEJ KC725M	V78
5065400	KTIP1338HPM KCP15	H33
5065401	KTIP1538HPM KCP15	H33
5065552	DFR020204LD KCU40	J97
5065554	DFR020204GD KCU40	J97
5065556	DFR020204MD KCU40	J97
5065557	DFR030204LD KCU40	J97
5065558	DFR030204GD KCU40	J97
5065559	DFR030204MD KCU40	J97
5065560	DFR040304LD KCU40	J97
5065561	DFR040304GD KCU40	J97
5065562	DFR040304MD KCU40	J97
5065663	DFT030204HP KCU40	J101
5065664	DFT030204MD KCU40	J101
5065665	DFT030204GD KCU40	J101
5065666	DFT030304HP KCU40	J101
5065667	DFT030304MD KCU40	J101
5065916	DFT030304GD KCU40	J101
5066013	DFT05T308HP KCU40	J101
5066014	DFT05T308MD KCU40	J101
5066015	DFT05T308GD KCU40	J101
5066016	DFT06T308HP KCU40	J101
5066019	DFT06T308MD KCU40	J101
5066064	DFT06T308GD KCU40	J101
5066146	DFT070408HP KCU40	J101
5066147	DFT070408MD KCU40	J101
5066148	DFT070408GD KCU40	J101
5066149	DFT090508HP KCU40	J101
5066190	DFT090508MD KCU40	J101
5066191	DFT090508GD KCU40	J101
5066192	DFR040304D28GD KCU40	H113
5066193	DFT05T308D32HP KCU40	H112
5066195	DFT05T308D33HP KCU40	H112
5066196	DFT06T308D36HP KCU40	H112
5066197	DFT06T308D39HP KCU40	H112
5066198	DFT06T308D44HP KCU40	H112
5066199	DFT070408D45HP KCU40	H112
5066220	DFT070408D50HP KCU40	H112
5066221	DFT090508D56HP KCU40	H112
5066222	DFT090508D63HP KCU40	H112
5066798	DFR020204GD KCU25	J97
5066799	DFR020204MD KCU25	J97
5067312	DFR030204GD KCU25	J97
5067313	DFR030204MD KCU25	J97
5067314	DFR040304GD KCU25	J97
5067316	DFR040304MD KCU25	J97
5067318	DFT030204HP KCU25	J101
5067319	DFT030204MD KCU25	J101
5067401	DFT030204GD KCU25	J101
5067402	DFT030304HP KCU25	J101
5067403	DFT030304MD KCU25	J101
5067404	DFT030304GD KCU25	J101
5067406	DFT05T308HP KCU25	J101
5067408	DFT05T308MD KCU25	J101
5067470	DFT05T308GD KCU25	J101
5067473	DFT06T308HP KCU25	J101
5067474	DFT06T308MD KCU25	J101
5067475	DFT06T308GD KCU25	J101
5067476	DFT070408HP KCU25	J101
5067478	DFT070408MD KCU25	J101
5067479	DFT070408GD KCU25	J101
5067480	DFT090508HP KCU25	J101
5067482	DFT090508MD KCU25	J101
5067485	DFT090508GD KCU25	J101
5067486	DFR040304D28GD KCU25	H113
5067487	DFT05T308D32HP KCU25	H112
5067488	DFT05T308D33HP KCU25	H112
5067489	DFT06T308D36HP KCU25	H112
5067520	DFT06T308D39HP KCU25	H112
5067522	DFT06T308D44HP KCU25	H112
5067523	DFT070408D45HP KCU25	H112
5067524	DFT070408D50HP KCU25	H112
5067526	DFT090508D56HP KCU25	H112
5067527	DFT090508D63HP KCU25	H112
5067567	M1D250E1804S075L157AL	T78
5067568	M1D200E1803S075L157AL	T78
5068267	DFR020204GD KCPK10	J97
5068268	DFR030204GD KCPK10	J97
5068280	DFR040304GD KCPK10	J97
5068281	DFT030204HP KCPK10	J101
5068282	DFT030204GD KCPK10	J101
5068283	DFT030304HP KCPK10	J101
5068284	DFT030304GD KCPK10	J101
5068285	DFT05T308HP KCPK10	J101
5068286	DFT05T308GD KCPK10	J101
5068288	DFT06T308HP KCPK10	J101
5068289	DFT06T308GD KCPK10	J101
5068321	DFT070408HP KCPK10	J101
5068323	DFT070408GD KCPK10	J101
5068325	DFT090508HP KCPK10	J101
5068326	DFT090508GD KCPK10	J101
5069150	A4G0405M04U04GMP KCP25	C105
5069154	A4G0605M06U04GMP KCP25	C105
5069158	A4G0605M06U12GMN KCP25	C106
5069159	A4G1005M10U08GMN KCP25	C106
5069160	A4G1005M10U12GMN KCP25	C106
5069161	A4R0305M03U00GMN KCP25	C107
5069162	A4R0505M05U00GMN KCP25	C107
5069163	A4R0605M06U00GMN KCP25	C107
5069164	A4R0805M08U00GMN KCP25	C107
5069354	A4G0405M04U04GMP KCP10	C105
5069359	A4G0505M05U04GMP KCP10	C105
5069390	A4G0505M05U08GMP KCP10	C105
5069394	A4G0205M02U02GMN KCP10	C106
5069430	A4G0305M03U02GMN KCP10	C106
5069431	A4G0305M03U04GMN KCP10	C106
5069432	A4G0605M06U04GMN KCP10	C106
5069433	A4G0805M08U08GMN KCP10	C106
5069435	A4G0805M08U12GMN KCP10	C106
5069437	A4G1005M10U08GMN KCP10	C106
5069439	A4R0205M02U00GMN KCP10	C107
5069470	A4R0305M03U00GMN KCP10	C107
5069471	A4R0805M08U00GMN KCP10	C107
5077334	B269A03300HP KCPK15	G62
5077336	B269A04200HP KCPK15	G62
5077337	B269A08200HP KCPK15	G63
5078982	NGD2M200LK KCU10	C165
5080992	SPGX060304MD KCPK10	J103
5085676	UJDE0500J6ARB KCSM15	P44
5090284	RPG2150E KYS30	B352, V157
5090285	RPG32T0420 KYS30	B352, V157
5090286	RPG43E KYS30	B352, V157
5090287	RPG43T0420 KYS30	B352, V157
5090494	CNMG4305MS KCU10	B52
5090495	CNMG430MS KCU10	B52
5090496	CNMG431MS KCU10	B52
5090497	CNMG432MS KCU10	B52
5090498	CNMG433MS KCU10	B52
5090499	CNMG434MS KCU10	B52
5090680	CNMG542MS KCU10	B52
5090681	CNMG543MS KCU10	B52
5090682	CNMG642MS KCU10	B52
5090684	CNMG644MS KCU10	B52
5090685	DNMG332MS KCU10	B82
5090686	DNMG4305MS KCU10	B82
5090687	DNMG430MS KCU10	B82
5090688	DNMG431MS KCU10	B82
5090689	DNMG432MS KCU10	B82
5090740	DNMG433MS KCU10	B82
5090741	DNMG441MS KCU10	B82
5090742	DNMG442MS KCU10	B82
5090743	DNMG443MS KCU10	B82
5090744	RCGH43 KCU10	B238
5090760	SNMG432MS KCU10	B103
5090761	SNMG433MS KCU10	B103
5090763	SNMG434RP KCU10	B105
5090764	TNGG331FS KCU10	B121
5090765	TNGG432FS KCU10	B121
5090767	TNMG3305MS KCU10	B125
5090768	TNMG331MS KCU10	B125
5090769	TNMG332MS KCU10	B125
5090810	TNMG431MS KCU10	B125
5090811	TNMG432MS KCU10	B125
5090812	TNMG433MS KCU10	B125
5090815	VNGG3305FS KCU10	B144
5090816	VNGG330FS KCU10	B144
5090817	VNGG331FS KCU10	B144
5090819	VNGG332FS KCU10	B144
5090851	VNMG3305MS KCU10	B147
5090852	VNMG330MS KCU10	B147
5090853	VNMG331MS KCU10	B147
5090854	VNMG332MS KCU10	B147
5090855	VNMG431MS KCU10	B147
5090856	VNMG432MS KCU10	B147
5090857	VNMG333RP KCU10	B148
5090858	WNGG431FS KCU10	B156
5090859	WNGG432FS KCU10	B156
5090890	WNMG332MS KCU10	B160
5090891	WNMG4305MS KCU10	B160
5090892	WNMG430MS KCU10	B160
5090893	WNMG431MS KCU10	B160
5090894	WNMG432MS KCU10	B160
5101798	UJDE0625J6ARA KCSM15	P44
5104314	RNGJ1204M0ENLDJX KC522M	V63
5104318	RNGJ1204M0SNGDJX KC725M	V63
5104420	KDR40Z04S16RN12X	V62
5104421	KDR50Z05S22RN12X	V62
5104424	KDR63Z06S22RN12X	V62
5104426	KDR80Z07S27RN12X	V62
5106643	UJDE0500J6ARC KCSM15	P44
5109130	A4G094I2BP05GUP KCU25	C103
5109131	A4G125I03P05GUP KCU25	C103
5109132	A4G125I03P1GUP KCU25	C103
5109133	A4G187I04P1GUP KCU25	C103
5109135	A4G250I06P1GUP KCU25	C103
5109136	A4G250I06P2GUP KCU25	C103
5109137	A4G312I08P1GUP KCU25	C103
5109138	A4G375I10P1GUP KCU25	C103
5109290	DNGG3305FS KCU10	B77
5109291	DNGG331FS KCU10	B77
5109292	DNGG332FS KCU10	B77
5109293	DNGG430FS KCU10	B77
5109294	DNGG4305FS KCU10	B77
5109295	DNGG441FS KCU10	B77
5109296	DNGG431FS KCU10	B77
5109297	DNGG442FS KCU10	B77
5109298	DNGG432FS KCU10	B77
5115736	KSEMP2800FDS28B1M	H108, H118
5115737	KSEMP1125FDS28B1	H108, H118
5115738	KSEMP2900FDS28B1M	H108, H118
5115739	KSEMP1156FDS28B1	H108, H118
5116010	KSEMP3000FDS28B1M	H108, H118
5116011	KSEMP1188FDS28B1	H108, H118
5116012	KSEMP1219FDS28B1	H108, H118
5116013	KSEMP3100FDS28B1M	H108, H118
5116014	KSEMP1250FDS32B1	H108, H118
5116015	KSEMP3200FDS32B1M	H108, H118
5116016	KSEMP3300FDS32B1M	H108, H118
5116017	KSEMP3320FDS32B1M	H108, H118
5116018	KSEMP1313FDS32B1	H108, H118
5116019	KSEMP3400FDS32B1M	H108, H118
5116030	KSEMP1375FDS32B1	H108, H118
5116031	KSEMP3500FDS32B1M	H108, H118
5116032	KSEMP3600FDS36B1M	H108, H118
5116033	KSEMP1438FDS36B1	H108, H118
5116034	KSEMP3700FDS36B1M	H108, H118
5116035	KSEMP3750FDS36B1M	H108, H118
5116036	KSEMP3800FDS36B1M	H108, H119
5116037	KSEMP1500FDS36B1	H108, H119
5116038	KSEMP3900FDS36B1M	H108, H119
5116039	KSEMP3920FDS36B1M	H108, H119
5116040	KSEMP1563FDS36B1	H108, H119
5116041	KSEMP4000FDS40B1M	H108, H119
5116042	KSEMP4100FDS40B1M	H108, H119
5116043	KSEMP1625FDS40B1	H108, H119
5116044	KSEMP4200FDS40B1M	H108, H119
5116045	KSEMP4300FDS40B1M	H108, H119
5116046	KSEMP4400FDS40B1M	H108, H119
5116047	KSEMP1750FDS40B1	H108, H119
5116098	KSEMP4500FDS45B1M	H109, H119
5116099	KSEMP4600FDS45B1M	H109, H119

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5116110	KSEMP4700FDS45B1M	H109, H119
5116111	KSEMP1875FDS45B1	H109, H119
5116112	KSEMP4800FDS45B1M	H109, H119
5116113	KSEMP4900FDS45B1M	H109, H119
5116114	KSEMP5000FDS50B1M	H109, H119
5116115	KSEMP2000FDS50B1	H109, H119
5116116	KSEMP5100FDS50B1M	H109, H119
5116117	KSEMP5200FDS50B1M	H109, H119
5116118	KSEMP5300FDS50B1M	H109, H119
5116119	KSEMP2125FDS50B1	H109, H119
5116120	KSEMP5400FDS50B1M	H109, H119
5116121	KSEMP5500FDS50B1M	H109, H119
5116122	KSEMP5600FDS56B1M	H109, H119
5116123	KSEMP5700FDS56B1M	H109, H119
5116124	KSEMP2250FDS56B1	H109, H119
5116125	KSEMP5800FDS56B1M	H109, H119
5116126	KSEMP5900FDS56B1M	H109, H119
5116127	KSEMP6000FDS56B1M	H109, H119
5116128	KSEMP2375FDS56B1	H109, H119
5116129	KSEMP6100FDS56B1M	H109, H119
5116130	KSEMP6200FDS56B1M	H109, H119
5116131	KSEMP6300FDS63B1M	H109, H119
5116132	KSEMP2500FDS63B1	H109, H119
5116133	KSEMP6400FDS63B1M	H109, H119
5116134	KSEMP6500FDS63B1M	H109, H119
5116135	KSEMP6600FDS63B1M	H109, H119
5116136	KSEMP2625FDS63B1	H109, H119
5116137	KSEMP6700FDS63B1M	H109, H119
5116138	KSEMP6800FDS63B1M	H109, H119
5116139	KSEMP6900FDS63B1M	H109, H119
5116140	KSEMP2750FDS63B1	H109, H119
5116141	KSEMP7000FDS63B1M	H109, H119
5116887	B224A14200HP KCPK15	G47
5117311	B269A09800HP KCPK15	G63
5118324	DPA07T3D25 KCU40	H114
5118325	DPA09T4D32 KCU40	H114
5118326	DPA13T5D50 KCU40	H114
5118327	DFC040310D28HP KCU25	H114
5118328	DFC05T312D32HP KCU25	H114
5118329	DFC06T312D36HP KCU25	H114
5118450	DFC070416D45HP KCU25	H114
5118451	DFC090520D56HP KCU25	H114
5118452	DFC040310D28HP KCU40	H114
5118453	DFC05T312D32HP KCU40	H114
5118454	DFC06T312D36HP KCU40	H114
5118455	DFC070416D45HP KCU40	H114
5118456	DFC090520D56HP KCU40	H114
5118457	DFC040310D28MD KC7140	H114
5118458	DFC05T312D32MD KC7140	H114
5118459	DFC06T312D36MD KC7140	H114
5118460	DFC070416D45MD KC7140	H114
5118461	DFC090520D56MD KC7140	H114
5120433	UJDE0500J6CRB KCSM15	P44
5120466	UJDE1000J6ARB KCSM15	P45
5120480	UJDE1000J6DRB KCSM15	P45
5123821	KTIP2280HPM KCP15	H34
5124334	SDET4316SNGB KCPK30	T116, T123, U39
5124576	HSK63AAVS00B126MCLB	K83
5124577	HSK63AAVS0B143MCLB	K83
5124578	HSK63AAVS1B127MCLB	K83
5124579	HSK63AAVS2B139MCLB	K83
5124800	HSK63AAVS3B139MCLB	K83
5124801	KM40TSAVS00B111MCLB	K82
5124802	KM40TSAVS0B128MCLB	K82
5124803	KM40TSAVS1B112MCLB	K82
5124804	KM40TSAVS2B127MCLB	K82
5124805	KM50TSAVS00B117MCLB	K82
5124807	KM50TSAVS0B134MCLB	K82
5124808	KM50TSAVS1B118MCLB	K82
5124809	KM50TSAVS2B128MCLB	K82
5124810	KM50TSAVS3B128MCLB	K82
5124811	KM63TSAVS3B130MCLB	K82
5124812	KR32AVS00B099MCLB	K82
5124814	KR32AVS0B116MCLB	K82
5124816	KR32AVS1B100MCLB	K82
5124818	KR32AVS2B115MCLB	K82
5124820	KR32AVS3B115MCLB	K82
5124822	KRCSCFPR061Y	K85
5124823	KRCSCFPR062Y	K85
5124824	KRCSCFPR063Y	K85
5124825	KRCSCFPR061X	K85
5124826	KRCSCFPR062X	K85
5124827	KRCSCFPR063X	K85
5124828	KRCSCFPR061W	K85
5124829	KRCSCFPR062W	K85
5124850	KRCSCFPR063W	K85
5127885	RIQ06R0400S KB1610	K57
5128566	C8FIX150608LRP KCU25	E12
5128598	C8FIX150612LRP KCP25	E12
5129621	B269A10400HP KCPK15	G63
5130229	B707A17900FBL KCMS15	G112
5131942	B269A03600HP KCPK15	G62
5132051	B978A03600 KC7315	G139
5133402	RMBE14000H6SF KC6305	K19
5133403	RMBE15000H6SF KC6305	K19
5133404	RMBE16000H6SF KC6305	K19
5133405	RMBE17000H6SF KC6305	K19
5133406	RMBE18000H6SF KC6305	K19
5133407	RMBE19000H6SF KC6305	K19
5133408	RMBE20000H6SF KC6305	K19
5133409	RMBE14000H6SF KC6005	K19
5133540	RMBE15000H6SF KC6005	K19
5133541	RMBE16000H6SF KC6005	K19
5133542	RMBE17000H6SF KC6005	K19
5133543	RMBE18000H6SF KC6005	K19
5133544	RMBE19000H6SF KC6005	K19
5133545	RMBE20000H6SF KC6005	K19
5133546	RMBE14000H6HF KC6305	K20
5133547	RMBE15000H6HF KC6305	K20
5133548	RMBE16000H6HF KC6305	K20
5133549	RMBE17000H6HF KC6305	K20
5133560	RMBE18000H6HF KC6305	K20
5133561	RMBE19000H6HF KC6305	K20
5133562	RMBE20000H6HF KC6305	K20
5133563	RMBE14000H6HF KC6005	K20
5133564	RMBE15000H6HF KC6005	K20
5133565	RMBE16000H6HF KC6005	K20
5133566	RMBE17000H6HF KC6005	K20
5133567	RMBE18000H6HF KC6005	K20
5133568	RMBE19000H6HF KC6005	K20
5133569	RMBE20000H6HF KC6005	K20
5133590	RHME14000KST115H6SF KC6305	K35
5133591	RHME14288KST115H6SF KC6305	K35
5133592	RHME15000KST115H6SF KC6305	K35
5133593	RHME16000KST135H6SF KC6305	K35
5133594	RHME17000KST135H6SF KC6305	K35
5133595	RHME17463KST135H6SF KC6305	K35
5133596	RHME18000KST155H6SF KC6305	K35
5133597	RHME19000KST155H6SF KC6305	K35
5133598	RHME19050KST155H6SF KC6305	K35
5133599	RHME20000KST175H6SF KC6305	K35
5133600	RHME21000KST175H6SF KC6305	K35
5133601	RHME22000KST175H6SF KC6305	K35
5133602	RHME22225KST175H6SF KC6305	K35
5133603	RHME23000KST200H6SF KC6305	K35
5133604	RHME23813KST200H6SF KC6305	K35
5133605	RHME24000KST200H6SF KC6305	K35
5133606	RHME25000KST200H6SF KC6305	K35
5133607	RHME25400KST200H6SF KC6305	K35
5133609	RHME26000KST200H6SF KC6305	K35
5133610	RHME27000KST200H6SF KC6305	K35
5133611	RHME28000KST250H6SF KC6305	K35
5133612	RHME30000KST250H6SF KC6305	K35
5133613	RHME31750KST250H6SF KC6305	K35
5133614	RHME32000KST250H6SF KC6305	K35
5133615	RHME34000KST300H6SF KC6305	K35
5133616	RHME36000KST300H6SF KC6305	K35
5133617	RHME38000KST350H6SF KC6305	K35
5133618	RHME40000KST350H6SF KC6305	K35
5133619	RHME42000KST350H6SF KC6305	K35
5133818	RHME14000KST115H6SF KC6005	K35
5133819	RHME14288KST115H6SF KC6005	K35
5133960	RHME15000KST115H6SF KC6005	K35
5133961	RHME16000KST135H6SF KC6005	K35
5133962	RHME17000KST135H6SF KC6005	K35
5133963	RHME17463KST135H6SF KC6005	K35
5133964	RHME18000KST155H6SF KC6005	K35
5133965	RHME19000KST155H6SF KC6005	K35
5133966	RHME19050KST155H6SF KC6005	K35
5133967	RHME20000KST175H6SF KC6005	K35
5133968	RHME21000KST175H6SF KC6005	K35
5133969	RHME22000KST175H6SF KC6005	K35
5133970	RHME22225KST175H6SF KC6005	K35
5133971	RHME23000KST200H6SF KC6005	K35
5133972	RHME23813KST200H6SF KC6005	K35
5133973	RHME24000KST200H6SF KC6005	K35
5133974	RHME25000KST200H6SF KC6005	K35
5133975	RHME25400KST200H6SF KC6005	K35
5133976	RHME26000KST200H6SF KC6005	K35
5133977	RHME27000KST200H6SF KC6005	K35
5133978	RHME28000KST250H6SF KC6005	K35
5133979	RHME30000KST250H6SF KC6005	K35
5133990	RHME31750KST250H6SF KC6005	K35
5133991	RHME32000KST250H6SF KC6005	K35
5133992	RHME34000KST300H6SF KC6005	K35
5133993	RHME36000KST300H6SF KC6005	K35
5133994	RHME38000KST350H6SF KC6005	K35
5133995	RHME40000KST350H6SF KC6005	K35
5133996	RHME42000KST350H6SF KC6005	K35
5133997	RHME14000KST115H6HF KC6305	K36
5133998	RHME14288KST115H6HF KC6305	K36
5133999	RHME15000KST115H6HF KC6305	K36
5134030	RHME16000KST135H6HF KC6305	K36
5134031	RHME17000KST135H6HF KC6305	K36
5134032	RHME17463KST135H6HF KC6305	K36
5134033	RHME18000KST155H6HF KC6305	K36
5134034	RHME19000KST155H6HF KC6305	K36
5134035	RHME19050KST155H6HF KC6305	K36
5134036	RHME20000KST175H6HF KC6305	K36
5134037	RHME21000KST175H6HF KC6305	K36
5134038	RHME22000KST175H6HF KC6305	K36
5134039	RHME22225KST175H6HF KC6305	K36
5134040	RHME23000KST200H6HF KC6305	K36
5134041	RHME23813KST200H6HF KC6305	K36
5134042	RHME24000KST200H6HF KC6305	K36
5134043	RHME25000KST200H6HF KC6305	K36
5134044	RHME25400KST200H6HF KC6305	K36
5134045	RHME26000KST200H6HF KC6305	K36
5134046	RHME27000KST200H6HF KC6305	K36
5134047	RHME28000KST250H6HF KC6305	K36
5134048	RHME30000KST250H6HF KC6305	K36
5134049	RHME31750KST250H6HF KC6305	K36
5134050	RHME32000KST250H6HF KC6305	K36
5134051	RHME34000KST300H6HF KC6305	K36
5134052	RHME36000KST300H6HF KC6305	K36
5134053	RHME38000KST350H6HF KC6305	K36
5134054	RHME40000KST350H6HF KC6305	K36
5134055	RHME42000KST350H6HF KC6305	K36
5134072	RHME14000KST115H6HF KC6005	K36
5134073	RHME14288KST115H6HF KC6005	K36
5134074	RHME15000KST115H6HF KC6005	K36
5134075	RHME16000KST135H6HF KC6005	K36
5134076	RHME17000KST135H6HF KC6005	K36
5134077	RHME17463KST135H6HF KC6005	K36
5134078	RHME18000KST155H6HF KC6005	K36
5134079	RHME19000KST155H6HF KC6005	K36
5134120	RHME19050KST155H6HF KC6005	K36
5134121	RHME20000KST175H6HF KC6005	K36
5134122	RHME21000KST175H6HF KC6005	K36
5134123	RHME22000KST175H6HF KC6005	K36
5134124	RHME22225KST175H6HF KC6005	K36
5134125	RHME23000KST200H6HF KC6005	K36
5134126	RHME23813KST200H6HF KC6005	K36
5134127	RHME24000KST200H6HF KC6005	K36
5134128	RHME25000KST200H6HF KC6005	K36
5134129	RHME25400KST200H6HF KC6005	K36
5134130	RHME26000KST200H6HF KC6005	K36
5134131	RHME27000KST200H6HF KC6005	K36
5134132	RHME28000KST250H6HF KC6005	K36
5134133	RHME30000KST250H6HF KC6005	K36
5134134	RHME31750KST250H6HF KC6005	K36
5134135	RHME32000KST250H6HF KC6005	K36
5134136	RHME34000KST300H6HF KC6005	K36
5134137	RHME36000KST300H6HF KC6005	K36
5134138	RHME38000KST350H6HF KC6005	K36
5134139	RHME40000KST350H6HF KC6005	K36
5134140	RHME42000KST350H6HF KC6005	K36
5134141	KGIP0125N0189GD KCU45	H101
5134142	KGEM0750R1SS075	H100
5134143	KGEM1905R1WN20M	H100
5134144	KGEM0750R3SS075	H100
5134145	KGEM1905R3WN20M	H100
5135356	M1D300E1804S100L175AL	T78
5136359	A4R0405M04U00GUP KCU25	C102
5136407	A4R0605M06U00GUP KCU25	C102
5136420	A4R0600M06P00GUP KCU10	C104
5136423	A4R0805M08U00GUP KCU25	C102
5140368	B269A12200HP KCPK15	G63
5144597	A4R125I03P00GUP KCU25	C104
5144598	A4R187I04P00GUP KCU25	C104
5144599	A4R250I06P00GUP KCU25	C104
5144664	KSEM0890HPG KC7315	H55
5144793	CNMG433RP KCPK05	B53
5146918	A4R0305M03U00GUP KCU25	C104
5146919	A4R0505M05U00GUP KCU25	C104
5147210	A4R1005M10U00GUP KCU25	C104
5147211	A4R0300M03P00GUP KCU25	C104
5147212	A4R0400M04P00GUP KCU25	C104
5147213	A4R0500M05P00GUP KCU25	C104
5147214	A4R0600M06P00GUP KCU25	C104
5147215	A4R0800M08P00GUP KCU25	C104
5147216	A4R1000M10P00GUP KCU25	C104
5148480	KSEM1619HPGM KC7315	H54
5152563	RNGJ10T3M0FLDJ KC422M	V48
5152566	RNGJ10T3M0ELDJ KC725M	V48
5152600	RNGJ10T3M0SGDJ KC725M	V49
5152606	RNGJ1605M0ELDJ KC522M	V59
5152607	RNGJ1605M0ELDJ KC725M	V59
5154366	KDR100R1003M12L125	V44
5154400	KDR100R1003W100L200	V45
5154402	KDR100R1003C100L600	V46
5154406	KDR150R1005S050L157	V47
5154408	KDR200R1006S075L200	V47
5154910	KDR200R1604S075L200	V58
5154913	KDR300R1607S100L200	V58
5154914	KDR400R1606S150L200	V58
5154915	KDR400R1608S150L200	V58
5154916	KDR500R1608S150L200	V58
5158428	RIQ09E1300 KC6305	K58
5159761	RIQ06R0500FT KT6315	K58
5161120	NA3L16 KCU10	D11
5169173	EP0708SGE KC725M	T25
5169174	EP0708SGE KC522M	T25
5169175	EP0708SGE KCPK30	T25
5172840	RPPT43EGE KCPK30	V84
5172841	RPPT43EGE KC725M	V84
5172843	RPPT43SGE KCPK30	V84
5172844	RPPT43SGE KC725M	V84
5172862	RPPT1204M0SGDX KC725M	V72
5175033	KSRM125R4303M16L150	V81
5175034	KSRM150R4304M16L150	V81
5175035	KSRM125R4302C125L600	V82
5175037	KSRM125R4303C125L1000	V82
5175038	KSRM150R4304C125L600	V82
5175039	KSRM150R4304C125L1000	V82
5175380	KSRM200R4305S075L197	V83
5175381	KSRM250R4306S075L197	V83
5175382	KSRM300R4307S100L197	V83
5182481	KTIP1490HPM KCP15	H33
5182869	SNMG433RN KCPK05	B105
5182893	SNMG543RN KCPK05	B105
5185658	UJDE0500J6CRE KCSM15	P44
5189859	B269A08600HP KCPK15	G63
5190087	M1D050E0702C050L400	T24
5190088	M1D062E0703C062L500	T24
5190089	M1D075E0705C075L600	T24
5194531	M1D150E1803C125L1000AL	T77
5201519	LS103	S104
5202231	SALS50	S104
5202238	SALS25	S104
5202239	SALS30	S104
5202240	SALS40	S104
5202243	SALS6150	S104
5202514	SWSM515	S104
5211960	T630NC#06-32R2BX-D1 KP6525	M47
5211961	T630NC#08-32R2BX-D1 KP6525	M47
5211962	T630NC#10-24R2BX-D1 KP6525	M47
5211964	T630NC02500-20R3BX-D1 KP6525	M47
5211965	T630NC03125-18R3BX-D1 KP6525	M47
5211966	T630NC03750-16R3BX-D1 KP6525	M47
5211967	T630NC04375-14R3BX-D6 KP6525	M47
5211968	T630NC05000-13R3BX-D6 KP6525	M47

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5211981	T630NF#06-40R2BX-D1 KP6525	M47
5211983	T630NF#10-32R2BX-D1 KP6525	M47
5211985	T630NF02500-28R3BX-D1 KP6525	M47
5211987	T630NF03125-24R3BX-D1 KP6525	M47
5211988	T630NF03750-24R3BX-D1 KP6525	M47
5211989	T630NF04375-20R3BX-D6 KP6525	M47
5211990	T630NF05000-20R3BX-D6 KP6525	M47
5211991	T631NC02500-20R3BX-D1 KP6525	M48
5211992	T631NC03125-18R3BX-D1 KP6525	M48
5211993	T631NC03750-16R3BX-D1 KP6525	M48
5211994	T631NC04375-14R3BX-D6 KP6525	M48
5211995	T631NC05000-13R3BX-D6 KP6525	M48
5211996	T631NF02500-28R3BX-D1 KP6525	M48
5211997	T631NF03125-24R3BX-D1 KP6525	M48
5211998	T631NF03750-24R3BX-D1 KP6525	M48
5211999	T631NF04375-20R3BX-D6 KP6525	M48
5212000	T631NF05000-20R3BX-D6 KP6525	M48
5212152	T620NC#06-32R2BX-D1 KP6525	M8
5212155	T620NC#08-32R2BX-D1 KP6525	M8
5212156	T620NC#10-24R2BX-D1 KP6525	M8
5212158	T620NC02500-20R3BX-D1 KP6525	M8
5212159	T620NC03125-18R3BX-D1 KP6525	M8
5212210	T620NC03750-16R3BX-D1 KP6525	M8
5212211	T620NC04375-14R3BX-D6 KP6525	M8
5212212	T620NC05000-13R3BX-D6 KP6525	M8
5212213	T620NF#06-40R2BX-D1 KP6525	M8
5212215	T620NF#10-32R2BX-D1 KP6525	M8
5212217	T620NF02500-28R3BX-D1 KP6525	M8
5212218	T620NF03125-24R3BX-D1 KP6525	M8
5212219	T620NF03750-24R3BX-D1 KP6525	M8
5212230	T620NF04375-20R3BX-D6 KP6525	M8
5212231	T620NF05000-20R3BX-D6 KP6525	M8
5212232	T621NC02500-20R3BX-D1 KP6525	M9
5212233	T621NC03125-18R3BX-D1 KP6525	M9
5212234	T621NC03750-16R3BX-D1 KP6525	M9
5212235	T621NC04375-14R3BX-D6 KP6525	M9
5212236	T621NC05000-13R3BX-D6 KP6525	M9
5212237	T621NF02500-28R3BX-D1 KP6525	M9
5212238	T621NF03125-24R3BX-D1 KP6525	M9
5212239	T621NF03750-24R3BX-D1 KP6525	M9
5212240	T621NF04375-20R3BX-D6 KP6525	M9
5212241	T621NF05000-20R3BX-D6 KP6525	M9
5212248	T640NC#06-32R2BX-D1 KP6525	M118
5212249	T640NC#08-32R2BX-D1 KP6525	M118
5212270	T640NC#10-24R2BX-D1 KP6525	M118
5212272	T640NC02500-20R3BX-D1 KP6525	M118
5212273	T640NC03125-18R3BX-D1 KP6525	M118
5212274	T640NC03750-16R3BX-D1 KP6525	M118
5212275	T640NC04375-14R3BX-D6 KP6525	M118
5212276	T640NC05000-13R3BX-D6 KP6525	M118
5212277	T640NF#06-40R2BX-D1 KP6525	M118
5212279	T640NF#10-32R2BX-D1 KP6525	M118
5212281	T640NF02500-28R3BX-D1 KP6525	M118
5212282	T640NF03125-24R3BX-D1 KP6525	M118
5212283	T640NF03750-24R3BX-D1 KP6525	M118
5212284	T640NF04375-20R3BX-D6 KP6525	M118
5212285	T640NF05000-20R3BX-D6 KP6525	M118
5212286	T641NC02500-20R3BX-D1 KP6525	M119
5212287	T641NC03125-18R3BX-D1 KP6525	M119
5212288	T641NC03750-16R3BX-D1 KP6525	M119
5212289	T641NC04375-14R3BX-D6 KP6525	M119
5212290	T641NC05000-13R3BX-D6 KP6525	M119
5212291	T641NF02500-28R3BX-D1 KP6525	M119
5212292	T641NF03125-24R3BX-D1 KP6525	M119
5212293	T641NF03750-24R3BX-D1 KP6525	M119
5212294	T641NF04375-20R3BX-D6 KP6525	M119
5212295	T641NF05000-20R3BX-D6 KP6525	M119
5214053	B269A03800HP KCPK15	G62
5274660	RNPJ10T3M0SGD KCPK30	V49
5274661	RNPJ10T3M0SGD KC522M	V49
5274663	RNPJ10T3M0SHD KCPK30	V49
5274665	RNPJ10T3M0SHD KCK15	V49
5274690	RNPJ1204M0SGD KCPK30	V56
5274691	RNPJ1204M0SGD KC522M	V56
5274693	RNPJ1204M0SHD KCPK30	V56
5274699	RNPJ1605M0SGD KCPK30	V59
5274720	RNPJ1605M0SGD KC725M	V59
5274721	RNPJ1605M0SGD KC522M	V59
5274722	RNPJ1605M0SHD KCPK30	V59
5274724	RNPJ1605M0SHD KCK15	V59
5274725	RNPJ1605M0SHD KC520M	V59
5299680	RPET43SGEJ KC725M	V85
5302954	KSRM200R4303S075L197	V83
5302955	KSRM250R4304S075L197	V83
5302956	KSRM300R4305S100L197	V83
5307642	KTIP0313R3SCF050	H41
5307643	KTIP0335R3SCF050	H41
5307644	KTIP0354R3SCF050	H41
5307645	KTIP0374R3SCF050	H41
5307646	KTIP0394R3SCF063	H41
5307647	KTIP0413R3SCF063	H41
5307648	KTIP0433R3SCF063	H41
5307649	KTIP0453R3SCF063	H41
5307680	KTIP0472R3SCF063	H41
5307681	KTIP0492R3SCF063	H41
5307682	KTIP0512R3SCF063	H41
5307683	KTIP0532R3SCF063	H41
5307684	KTIP0551R3SCF063	H41
5307685	KTIP0571R3SCF063	H41
5307686	KTIP0591R3SCF075	H41
5307687	KTIP0630R3SCF075	H41
5307688	KTIP0669R3SCF075	H41
5307689	KTIP0709R3SCF075	H41
5307691	KTIP0748R3SCF075	H41
5307692	KTIP0787R3SCF100	H41
5307693	KTIP0827R3SCF100	H41
5307694	KTIP0866R3SCF100	H41
5307695	KTIP0906R3SCF100	H41
5307696	KTIP0945R3SCF100	H41
5307697	KTIP0984R3SCF100	H41
5307698	KTIP1024R3SCF100	H41
5307699	KTIP1063R3SCF100	H41
5307700	KTIP0313R5SCF050	H41
5307701	KTIP0335R5SCF050	H41
5307702	KTIP0354R5SCF050	H41
5307703	KTIP0374R5SCF050	H41
5307704	KTIP0394R5SCF063	H41
5307705	KTIP0413R5SCF063	H41
5307706	KTIP0433R5SCF063	H41
5307707	KTIP0453R5SCF063	H41
5307708	KTIP0472R5SCF063	H41
5307709	KTIP0492R5SCF063	H41
5307710	KTIP0512R5SCF063	H41
5307711	KTIP0532R5SCF063	H41
5307712	KTIP0551R5SCF063	H41
5307713	KTIP0571R5SCF063	H41
5307816	KTIP0591R5SCF075	H41
5307817	KTIP0630R5SCF075	H41
5307818	KTIP0669R5SCF075	H41
5307819	KTIP0709R5SCF075	H41
5307840	KTIP0748R5SCF075	H41
5307841	KTIP0787R5SCF100	H41
5307842	KTIP0827R5SCF100	H41
5307843	KTIP0866R5SCF100	H41
5307844	KTIP0906R5SCF100	H41
5307845	KTIP0945R5SCF100	H41
5307846	KTIP0984R5SCF100	H41
5307847	KTIP1024R5SCF100	H41
5307848	KTIP1063R5SCF100	H41
5307849	KTIP0313R8SCF050	H41
5307860	KTIP0335R8SCF050	H41
5307861	KTIP0354R8SCF050	H41
5307862	KTIP0374R8SCF050	H41
5307863	KTIP0394R8SCF063	H41
5307864	KTIP0413R8SCF063	H41
5307865	KTIP0433R8SCF063	H41
5307866	KTIP0453R8SCF063	H41
5307867	KTIP0472R8SCF063	H41
5307868	KTIP0492R8SCF063	H41
5307869	KTIP0512R8SCF063	H41
5307871	KTIP0532R8SCF063	H41
5307872	KTIP0551R8SCF063	H41
5307873	KTIP0571R8SCF063	H41
5307874	KTIP0591R8SCF075	H41
5307875	KTIP0630R8SCF075	H41
5307876	KTIP0669R8SCF075	H41
5307877	KTIP0709R8SCF075	H41
5307878	KTIP0748R8SCF075	H41
5307879	KTIP0787R8SCF100	H41
5307880	KTIP0827R8SCF100	H41
5307881	KTIP0866R8SCF100	H41
5307882	KTIP0906R8SCF100	H41
5307883	KTIP0945R8SCF100	H41
5307884	KTIP0984R8SCF100	H41
5307885	KTIP1024R8SCF100	H41
5307886	KTIP1063R8SCF100	H41
5309298	B977A16300 KC7315	G138
5314920	KTIP2110HPM KCP15	H34
5314951	B707A03800FBL KCMS15	G110
5317764	UJDE0375J6BQE KCSM15	P46
5324450	DPGR431FP KCP25	E32
5324453	DPGR431FP KCU10	E32
5324456	DPGR432FP KCP10	E32
5324458	DPGR432FP KCM25	E32
5324773	NPGR51LFP KCP10	E33
5324774	NPGR51LFP KCP25	E33
5324775	NPGR51LFP KCM25	E33
5324777	NPGR51LFP KCU25	E33
5324778	NPGR51RFP KCP10	E33
5324780	NPGR51RFP KCP25	E33
5324782	NPGR51RFP KCM25	E33
5324786	NPGR52LFP KCP10	E33
5324787	NPGR52LFP KCP25	E33
5324791	NPGR52RFP KCP10	E33
5324794	NPGR52RFP KCU10	E33
5324906	VBMR2205FP KCP25	E36
5324911	VBMR221FP KCP10	E36
5324912	VBMR221FP KCP25	E36
5324915	VBMR221FP KCU25	E36
5324916	VBMR222FP KCP10	E36
5324921	VBMR222FP KCU10	E36
5324923	VCMR331FP KCP10	E37
5324924	VCMR331FP KCP25	E37
5324925	VCMR331FP KCM25	E37
5324927	VCMR331FP KCU10	E37
5324928	VCMR331FP KCU25	E37
5324929	VCMR332FP KCP10	E37
5324930	VCMR332FP KCP25	E37
5324931	VCMR332FP KCM25	E37
5324932	VCMR332FP KCK05	E37
5327662	A4R0305M03U00GUP KCU10	C104
5327663	A4R0505M05U00GUP KCU10	C104
5327664	A4R1005M10U00GUP KCU10	C104
5327665	A4R0300M03P00GUP KCU10	C104
5327666	A4R1000M10P00GUP KCU10	C104
5327684	A4R125I03P00GUP KCU10	C104
5327686	A4R250I06P00GUP KCU10	C104
5327687	A4R312I08P00GUP KCU10	C104
5327912	VPGR331HP K313	E39
5327919	VPGR3305FP KCP10	E39
5327936	VPGR331FP KCP10	E39
5327937	VPGR331FP KCP25	E39
5327938	VPGR331FP KCM25	E39
5327940	VPGR331FP KCU10	E39
5327942	VPGR332FP KCP10	E39
5327943	VPGR332FP KCP25	E39
5327944	VPGR332FP KCM25	E39
5327945	VPGR332FP KCK05	E39
5327948	VPGR333FP KCP10	E39
5327949	VPGR333FP KCP25	E39
5327961	VPGR333FP KCK05	E39
5327965	VPGR334FP KCP25	E39
5328738	DNGA432S0525MT KBH20	B334
5329836	WNGA431S0415MT KBH20	B343
5329837	WNGA432S0415MT KBH20	B343
5329838	WNGA432S0525MT KBH20	B343
5329839	WNGA432S0735MT KBH20	B343
5330130	WNGA432S0415FWMT KBH20	B343
5330131	CCGW21505S0525MT KBH20	B328
5330132	CCGW2151S0525MT KBH20	B328
5330133	CCGW32505S0525MT KBH20	B328
5330134	CCGW3251S0525MT KBH20	B328
5330135	CCGW3251S0415MT KBH20	B328
5330136	CCGW3251S0415FWMT KBH20	B328
5330137	CCGW3252S0525MT KBH20	B328
5330138	CCGW3252S0415MT KBH20	B328
5330139	CCGW3252S0415FWMT KBH20	B328
5330140	CCGW432S0415MT KBH20	B328
5330141	DCGW21505S0525MT KBH20	B332
5330142	DCGW2151S0525MT KBH20	B332
5330143	DCGW2151S0415MT KBH20	B332
5330144	DCGW32505S0525MT KBH20	B332
5330145	DCGW3251S0525MT KBH20	B332
5330146	DCGW3251S0415MT KBH20	B332
5330147	DCGW3252S0525MT KBH20	B332
5330148	DCGW3252S0415MT KBH20	B332
5330149	DCGW3252S0415FWMT KBH20	B332
5330150	TPGW21505S0415MT KBH20	B341
5330151	TPGW2151S0415MT KBH20	B341
5330152	TPGW2152S0415MT KBH20	B341
5330153	TCGW21505S0415MT KBH20	B338
5330154	TCGW2151S0415MT KBH20	B338
5330155	TCGW2152S0415MT KBH20	B338
5330156	TCGW181505S0415MT KBH20	B338
5330157	TCGW18151S0415MT KBH20	B338
5330159	TPGW3251S0415MT KBH20	B341
5330160	TPGW3252S0525MT KBH20	B341
5330161	TPGW3252S0415MT KBH20	B341
5330162	VBGW221S0525MT KBH20	B341
5330163	VBGW221S0415MT KBH20	B341
5330164	VBGW332S0415MT KBH20	B341
5330165	VBGW333S0415MT KBH20	B341
5330166	VBGW222S0525MT KBH20	B341
5330167	VCGW331S0525MT KBH20	B342
5330168	VCGW331S0415MT KBH20	B342
5330169	VCGW332S0525MT KBH20	B342
5330180	VCGW332S0415MT KBH20	B342

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5330695	CNGA431S0525MT KBH20	B330
5330696	CNGA431S0415MT KBH20	B330
5330697	CNGA431S0735MT KBH20	B330
5330698	CNGA431S0415FWMT KBH20	B330
5330699	CNGA432S0525MT KBH20	B330
5330830	CNGA432S0415MT KBH20	B330
5330831	CNGA432S0735MT KBH20	B330
5330832	CNGA432S0415FWMT KBH20	B330
5330833	CNGA433S0525MT KBH20	B330
5330834	CNGA433S0415MT KBH20	B330
5330835	CNGA433S0735MT KBH20	B330
5330836	CNGA433S0415FWMT KBH20	B330
5330837	DNGA431S0525MT KBH20	B334
5330838	DNGA431S0415MT KBH20	B334
5330839	DNGA431S0735MT KBH20	B334
5330840	DNGA432S0415MT KBH20	B334
5330841	DNGA432S0735MT KBH20	B334
5330842	DNGA433S0525MT KBH20	B334
5330843	DNGA433S0415MT KBH20	B334
5330844	DNGA433S0735MT KBH20	B334
5330845	DNGA432S0415FWMT KBH20	B333
5330846	DNGA433S0415FWMT KBH20	B333
5330847	DNGA441S0525MT KBH20	B334
5330848	DNGA441S0415MT KBH20	B334
5330849	DNGA441S0735MT KBH20	B334
5330850	DNGA442S0525MT KBH20	B334
5330851	DNGA442S0415MT KBH20	B334
5330852	DNGA442S0735MT KBH20	B334
5330853	DNGA443S0525MT KBH20	B334
5330854	DNGA443S0415MT KBH20	B334
5330855	DNGA443S0735MT KBH20	B334
5330856	SNGA432S0525MT KBH20	B337
5330857	SNGA433S0525MT KBH20	B337
5330858	TNGA331S0525MT KBH20	B339
5330859	TNGA331S0415MT KBH20	B339
5330860	TNGA331S0735MT KBH20	B339
5330861	TNGA332S0525MT KBH20	B339
5330862	TNGA332S0415MT KBH20	B339
5330863	TNGA332S0735MT KBH20	B339
5330864	TNGA333S0525MT KBH20	B339
5330865	TNGA333S0415MT KBH20	B339
5330866	TNGA333S0735MT KBH20	B339
5330867	VNGA331S0525MT KBH20	B342
5330868	VNGA331S0415MT KBH20	B342
5330869	VNGA331S0735MT KBH20	B342
5330870	VNGA332S0525MT KBH20	B342
5330871	VNGA332S0415MT KBH20	B342
5330872	VNGA332S0735MT KBH20	B342
5330873	VNGA333S0525MT KBH20	B342
5337754	KM4X100NEL3	D32
5337755	KM4X100NEL4	D32
5337756	KM4X100NEL5	D32
5337757	KM4X100NEL6	D32
5337758	KM4X100NER3	D32
5337759	KM4X100NER4	D32
5337770	KM4X100NER5	D32
5337771	KM4X100NER6	D32
5341813	KSEM3125HPGM KC7315	H55
5348571	CNGM432S0525MTCB1 KBH20	B330
5348572	CNGM433S0525MTCB1 KBH20	B330
5348573	CNGM431S0525MTCB1 KBH20	B330
5348574	DNGM432S0525MTCB1 KBH20	B334
5348575	DNGM433S0525MTCB1 KBH20	B334
5348576	DNGM442S0525MTCB1 KBH20	B334
5348577	DNGM443S0525MTCB1 KBH20	B334
5348579	TNGM332S0525MTCB1 KBH20	B340
5348582	VNGM332S0525MTCB1 KBH20	B342
5348583	VNGM333S0525MTCB1 KBH20	B342
5348584	CCGM3251S0525MTCB1 KBH20	B328
5348585	CCGM3252S0525MTCB1 KBH20	B328
5348586	DCGM3251S0525MTCB1 KBH20	B331
5350437	RIQ06E1306 KC6005	K58
5351811	UJDE375J6CRA KCSM15	P44
5351812	UJDE375J6CRB KCSM15	P44
5351814	UJDE375J6CRC KCSM15	P44
5351815	UJDE375J6CS KCSM15	P44
5351816	UJDE375J6BQA KCSM15	P46
5351817	UJDE500J6BRA KCSM15	P44
5351818	UJDE500J6BRB KCSM15	P44
5351819	UJDE500J6BRC KCSM15	P44
5351820	UJDE500J6BRE KCSM15	P44
5351821	UJDE500J6BS KCSM15	P44
5351823	UJDE500N6BRA KCSM15	P44
5351824	UJDE500N6BRB KCSM15	P44
5351825	UJDE500N6BRC KCSM15	P44
5351826	UJDE500N6BRE KCSM15	P44
5351827	UJDE500N6BS KCSM15	P44
5351828	UJDE500N6BQB KCSM15	P46
5351829	UJDE625J6BRB KCSM15	P44
5351830	UJDE625J6BRC KCSM15	P44
5351831	UJDE625J6BS KCSM15	P44
5351832	UJDE625N6BRB KCSM15	P44
5351833	UJDE625N6BRC KCSM15	P44
5351834	UJDE625N6BS KCSM15	P44
5351835	UJDE625N6BQB KCSM15	P46
5351838	UJDE750J6BRB KCSM15	P44
5351839	UJDE750J6BRC KCSM15	P44
5351890	UJDE750J6BRD KCSM15	P44
5351891	UJDE750J6BRE KCSM15	P44
5351892	UJDE750J6BS KCSM15	P44
5351893	UJDE750N6BRB KCSM15	P44
5351894	UJDE750N6BRC KCSM15	P44
5351895	UJDE750N6BRD KCSM15	P44
5351896	UJDE750N6BRE KCSM15	P44
5351897	UJDE750N6BS KCSM15	P44
5351898	UJDE750N6BQB KCSM15	P46
5351899	UJDE750J6CRB KCSM15	P45
5351900	UJDE750J6CRC KCSM15	P45
5351901	UJDE750J6CRD KCSM15	P45
5351902	UJDE750J6CRE KCSM15	P45
5351903	UJDE750J6CS KCSM15	P45
5351904	UJDE750N6CRB KCSM15	P45
5351905	UJDE750N6CRC KCSM15	P45
5351906	UJDE750N6CRD KCSM15	P45
5351907	UJDE750N6CRE KCSM15	P45
5351908	UJDE750N6CS KCSM15	P45
5351930	UJDE1000J6BRC KCSM15	P45
5351931	UJDE1000J6BRE KCSM15	P45
5351932	UJDE1000J6BRF KCSM15	P45
5351933	UJDE1000J6BS KCSM15	P45
5351934	UJDE1000N6BRB KCSM15	P45
5351935	UJDE1000N6BRC KCSM15	P45
5351936	UJDE1000N6BRE KCSM15	P45
5351937	UJDE1000N6BRF KCSM15	P45
5351938	UJDE1000N6BS KCSM15	P45
5351939	UJDE1000N6BQB KCSM15	P46
5351940	UJDE1250J6BRB KCSM15	P45
5351942	UJDE1250N6BRB KCSM15	P45
5351943	UJDE1250N6BRE KCSM15	P45
5351944	UJDE1250N6BS KCSM15	P45
5352319	EADE0178J4AQX KYS40	P156
5352350	EADE0188J4AQX KYS40	P156
5352351	EADE0238J4AQB KYS40	P156
5352352	EADE0250J4AQB KYS40	P156
5352353	EADE0297J4AQX KYS40	P156
5352354	EADE0313J4AQX KYS40	P156
5352355	EADE0356J4AQX KYS40	P156
5352356	EADE0375J4AQX KYS40	P156
5352357	EADE0475J4AQC KYS40	P156
5352358	EADE0500J4AQC KYS40	P156
5352359	EADE0188J6ARX KYS40	P157
5352360	EADE0250J6ARB KYS40	P157
5352361	EADE0313J6ARX KYS40	P157
5352362	EADE0375J6ARX KYS40	P157
5352363	EADE0500J6ARC KYS40	P157
5358938	KSOM125Z03C1000F53X	S44
5359020	KSOM150Z040F53S050X	S45
5359021	KSOM200Z060F53S075X	S45
5359023	KSOM250Z070F53S075X	S45
5359024	KSOM300Z090F53S100X	S45
5360214	KDR300R1607S125L200	V58
5360215	KDR300R1208S125L200	V54
5360377	UBDE0500N4AQA KCSM15	P21
5360378	UBDE0500N4AQB KCSM15	P21
5360379	UBDE0625N4AQB KCSM15	P21
5360380	UBDE0625N4AQC KCSM15	P21
5360381	UBDE0750N4AQB KCSM15	P21
5360382	UBDE0750N4AQC KCSM15	P21
5360383	UBDE0750N4AQD KCSM15	P21
5360384	UBDE0750N4AQE KCSM15	P21
5360385	UBDE0750N4BQB KCSM15	P21
5360386	UBDE0750N4BQC KCSM15	P21
5360387	UBDE0750N4BQD KCSM15	P21
5360388	UBDE0750N4BQE KCSM15	P21
5360389	UBDE1000N4BQB KCSM15	P21
5360390	UBDE1000N4BQC KCSM15	P21
5360391	UBDE1000N4BQE KCSM15	P21
5362754	CCMT3253MP KCU10	B191
5366566	B269A17100HP KCPK15	G64
5367199	UJDE0750J6BRH KCSM15	P44
5374997	UJDE0625J6CRE KCSM15	P44
5377581	B269A04700HP KCPK15	G62
5377582	B269A06100HP KCPK15	G63
5378294	B269A11200HP KCPK15	G63
5387230	CNMG433FM KCP10B	B50
5387231	CNMG433FM KCP25B	B50
5387540	DNMG443CT KCP25B	B79
5387541	DNMG443MN KCP25B	B81
5387542	DNMG443RN KCP25B	B83
5387543	DNMG443RP KCP25B	B84
5387544	DNMG444RN KCP25B	B83
5387545	DNMG444RP KCP25B	B84
5387547	DPMT3252LF KCP25B	B232
5387550	SCMT3251LF KCP25B	B246
5387551	SCMT3252FP KCP25B	B246
5387553	SCMT3252MF KCP25B	B247
5387554	SCMT3252MP KCP25B	B247
5387555	SCMT3253MF KCP25B	B247
5387556	SCMT432FP KCP25B	B246
5387557	SCMT432MF KCP25B	B247
5387558	SCMT433LF KCP25B	B246
5387559	SCMT433MF KCP25B	B247
5387563	SNMG433RP KCP25B	B105
5387567	SNMG543RP KCP25B	B105
5387571	SPMT3252LF KCP25B	B252
5387575	TNMG333RP KCP25B	B127
5387577	TNMG434RP KCP25B	B127
5387579	TPMT2152LF KCP25B	B268
5387580	TPMT2152MF KCP25B	B268
5387581	TPMT3252LF KCP25B	B268
5387584	VBMT331FP KCP25B	B281
5387587	VBMT332MP KCP25B	B281
5387588	VBMT333FP KCP25B	B281
5387610	WNMG332RN KCP25B	B161
5387611	WNMG432MF KCP25B	B159
5387612	WNMG432MW KCP25B	B160
5387614	WNMG433MN KCP25B	B159
5387615	WNMG433MW KCP25B	B160
5387616	WNMG433RN KCP25B	B161
5387618	WNMG434RN KCP25B	B161
5387627	CCMT3251LF KCP25B	B191
5387628	CCMT3252LF KCP25B	B191
5387629	CCMT3252MF KCP25B	B191
5387661	CCMT432MF KCP25B	B191
5387662	CNMG432MN KCP25B	B50
5387663	CNMG432MW KCP25B	B52
5387664	CNMG432RN KCP25B	B53
5387665	CNMG432RP KCP25B	B53
5387667	CNMG433MN KCP25B	B50
5387668	CNMG433RN KCP25B	B53
5387681	CNMG434RN KCP25B	B53
5387688	CNMG643MN KCP25B	B50
5387689	CNMG643RN KCP25B	B53
5387691	CNMG644RN KCP25B	B53
5387692	CNMM433RM KCP25B	B55
5387693	CNMM433RP KCP25B	B56
5387694	CNMM434RP KCP25B	B56
5387695	CNMM543RM KCP25B	B55
5387696	CNMM544RP KCP25B	B56
5387697	CNMM644RM KCP25B	B55
5387698	CNMM646RH KCP25B	B55
5387699	CNMM646RM KCP25B	B55
5387727	DCMT3252LF KCP25B	B225
5387729	DCMT3253MF KCP25B	B226
5387732	DNMG432MN KCP25B	B81
5387733	DNMG432RN KCP25B	B83
5387737	DNMG442MN KCP25B	B81
5387753	CNMG432FN KCK15B	B49
5387754	VNMG332FN KCK15B	B146
5387755	CNMG432MW KCK15B	B52
5387801	CNMG433UN KCK15B	B54
5387802	CNMG432UN KCK15B	B54
5387804	TNMG332UN KCK15B	B127
5387805	SNMG433UN KCK15B	B106
5387806	RNMG43UN KCK15B	B97
5387807	TNMG333UN KCK15B	B127
5387808	WNMG432UN KCK15B	B162
5387809	WNMG434UN KCK15B	B162
5387810	DNMG332UN KCK15B	B84
5387811	CNMG544UN KCK15B	B54
5387812	DNMG444UN KCK15B	B84
5387851	DNMG444RP KCP10B	B84
5387853	DPMT3252LF KCP10B	B232
5387856	SCMT3251LF KCP10B	B246
5387858	SCMT3252MF KCP10B	B247
5387864	SCMT433LF KCP10B	B246
5387874	SNMG433RP KCP10B	B105
5387882	SNMG543RP KCP10B	B105
5387884	SPMT3252LF KCP10B	B252
5387896	TNMG333RP KCP10B	B127
5387901	TNMG438RP KCP10B	B127
5387903	TPMT2152LF KCP10B	B268
5387905	TPMT3252LF KCP10B	B268
5387907	VBMT331FP KCP10B	B281
5387910	VBMT333FP KCP10B	B281
5387915	WNMG432RP KCP10B	B161
5387919	WNMG433RP KCP10B	B161
5388031	CCMT3251LF KCP10B	B191
5388032	CCMT3252LF KCP10B	B191
5388033	CCMT3252MF KCP10B	B191
5388035	CCMT432MF KCP10B	B191
5388036	CNMG432MN KCP10B	B50
5388037	CNMG432MW KCP10B	B52
5388038	CNMG432RN KCP10B	B53
5388039	CNMG432RP KCP10B	B53
5388061	CNMG433MN KCP10B	B50
5388062	CNMG433RN KCP10B	B53
5388064	CNMG434RN KCP10B	B53
5388082	CNMG643RN KCP10B	B53
5388084	CNMG644RN KCP10B	B53
5388085	CNMM433RM KCP10B	B55
5388086	CNMM433RP KCP10B	B56
5388088	CNMM543RM KCP10B	B55
5388089	CNMM544RP KCP10B	B56
5388090	CNMM644RM KCP10B	B55
5388095	DCMT3252LF KCP10B	B225
5388097	DCMT3253MF KCP10B	B226
5388111	DNMG432MN KCP10B	B81
5388112	DNMG432RN KCP10B	B83
5388116	DNMG442FN KCP10B	B79
5388117	DNMG442MN KCP10B	B81
5390730	UJDE1000J6DS KCSM15	P45
5390731	UJDE1000J6CRC KCSM15	P45
5390732	UJDE1000J6CRH KCSM15	P45
5393242	CNMG432RN KCK15B	B53
5393244	CNMG432RN KCP40B	B53
5394869	UJDE1000J6CRD KCSM15	P45
5397385	KSEM0500HPG KCPM45	H57
5397386	KSEM0509HPG KCPM45	H57
5397387	KSEM1400HPGM KCPM45	H57
5397388	KSEM0563HPG KCPM45	H57
5397389	KSEM0634HPG KCPM45	H57
5397470	KSEM1620HPGM KCPM45	H57
5397471	KSEM0656HPG KCPM45	H57
5397473	KSEM0688HPG KCPM45	H57
5397474	KSEM1800HPGM KCPM45	H57
5397475	KSEM0719HPG KCPM45	H57
5397476	KSEM1900HPGM KCPM45	H57
5397477	KSEM1920HPGM KCPM45	H57
5397478	KSEM0750HPG KCPM45	H57
5397479	KSEM0758HPG KCPM45	H57
5397480	KSEM0759HPG KCPM45	H57
5397481	KSEM1950HPGM KCPM45	H57
5397482	KSEM0781HPG KCPM45	H57
5397483	KSEM2000HPGM KCPM45	H57
5397484	KSEM0813HPG KCPM45	H57
5397485	KSEM2100HPGM KCPM45	H57
5397486	KSEM2200HPGM KCPM45	H57
5397487	KSEM0875HPG KCPM45	H57
5397488	KSEM2300HPGM KCPM45	H57
5397489	KSEM0938HPG KCPM45	H57
5397490	KSEM2400HPGM KCPM45	H57
5397491	KSEM2500HPGM KCPM45	H58
5397492	KSEM1000HPG KCPM45	H58
5397493	KSEM1008HPG KCPM45	H58
5397494	KSEM1010HPG KCPM45	H58
5397495	KSEM1011HPG KCPM45	H58
5397496	KSEM1016HPG KCPM45	H58

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5397497	KSEM2600HPGM KCPM45	H58
5397498	KSEM1031HPG KCPM45	H58
5397499	KSEM2700HPGM KCPM45	H58
5397500	KSEM2800HPGM KCPM45	H58
5397501	KSEM1125HPG KCPM45	H58
5397502	KSEM3000HPGM KCPM45	H58
5397503	KSEM1188HPG KCPM45	H58
5397504	KSEM1250HPG KCPM45	H58
5397505	KSEM3200HPGM KCPM45	H58
5397506	KSEM3300HPGM KCPM45	H58
5397507	KSEM1313HPG KCPM45	H58
5397508	KSEM3600HPGM KCPM45	H58
5397509	KSEM1500HPG KCPM45	H58
5397510	KSEM4000HPGM KCPM45	H58
5397513	KSEMP7200FDS71A1M	H106, H116, H123
5397514	KSEMP7400FDS71A1M	H106, H116, H123
5397515	KSEMP7600FDS71A1M	H106, H117, H123
5397516	KSEMP3000FDS71A1	H106, H117, H123
5397517	KSEMP7800FDS71A1M	H106, H117, H123
5397518	KSEMP8000FDS80A1M	H106, H117, H123
5397519	KSEMP8200FDS80A1M	H106, H117, H123
5397550	KSEMP3250FDS80A1	H106, H117, H123
5397551	KSEMP8400FDS80A1M	H106, H117, H123
5397552	KSEMP8600FDS80A1M	H106, H117, H123
5397553	KSEMP8800FDS80A1M	H106, H117, H123
5397554	KSEMP3500FDS80A1	H106, H117, H123
5397555	KSEMP9000FDS90A1M	H106, H117, H123
5397556	KSEMP9200FDS90A1M	H106, H117, H123
5397557	KSEMP9400FDS90A1M	H106, H117, H123
5397558	KSEMP3750FDS90A1	H106, H117, H123
5397559	KSEMP9600FDS90A1M	H106, H117, H123
5397560	KSEMP9800FDS90A1M	H106, H117, H123
5397561	KSEMP4000FDS90A1	H106, H117, H123
5397562	KSEMP3000FDS71B1	H110, H119
5397563	KSEMP3250FDS80B1	H110, H120
5397564	KSEMP3500FDS80B1	H110, H120
5397565	KSEMP3750FDS90B1	H110, H120
5397566	KSEMP4000FDS90B1	H110, H120
5397942	WD50FDS71292M	H126
5397943	WD50FDS71452M	H127
5397944	WD50FDS80327M	H126
5397945	WD50FDS80507M	H127
5397946	WD50FDS90362M	H126
5397947	WD50FDS90562M	H127
5397948	SSF200FDS711150	H128
5397949	SSF200FDS711780	H129
5398010	SSF200FDS801287	H128
5398011	SSF200FDS801996	H129
5398012	SSF200FDS901425	H128
5398013	SSF200FDS902213	H129
5400814	B272Z06400HPS KN25	G70
5402877	SNMG433MR KCM25	B103
5402879	SNMG433MR KCP10B	B103
5402920	SNMG433MR KCP25B	B103
5402924	TNMG332MR KCM25	B125
5402926	TNMG332MR KCP10B	B125
5402927	TNMG332MR KCP25B	B125
5402930	TNMG333MR KCP10B	B125
5402931	TNMG333MR KCP25B	B125
5402932	TNMG333MR KCK15B	B125
5402935	WNMG432MR KCM25	B159
5402936	WNMG432MR KCM35	B159
5402937	WNMG432MR KCP10B	B159
5402938	WNMG432MR KCP25B	B159
5402960	WNMG432MR KCK15B	B159
5402963	WNMG433MR KCM35	B159
5402964	WNMG433MR KCP10B	B159
5402965	WNMG433MR KCP25B	B159
5402966	DNMG432MR KCM15	B82
5402969	DNMG432MR KCP10B	B82
5402980	DNMG432MR KCP25B	B82
5402983	DNMG442MR KCM25	B82
5402985	DNMG442MR KCP10B	B82
5402986	DNMG442MR KCP25B	B82
5402987	DNMG442MR KCK15B	B82
5402990	DNMG433MR KCP10B	B82
5402995	DNMG444MR KCP25B	B82
5403016	CNMG432MR KCM15	B51
5403017	CNMG432MR KCM25	B51
5403018	CNMG432MR KCM35	B51
5403019	CNMG432MR KCP10B	B51
5403090	CNMG432MR KCP25B	B51
5403091	CNMG432MR KCP40	B51
5403092	CNMG432MR KCK15B	B51
5403093	CNMG433MR KCM15	B51
5403094	CNMG433MR KCM25	B51
5403095	CNMG433MR KCM35	B51
5403096	CNMG433MR KCP10B	B51
5403097	CNMG433MR KCP25B	B51
5403099	CNMG433MR KCK15B	B51
5403103	CNMG543MR KCP10B	B51
5403104	CNMG543MR KCP25B	B51
5403105	CNMG543MR KCP40	B51
5403108	CNMG434MR KCP10B	B51
5403112	CNMG544MR KCP10B	B51
5403113	CNMG544MR KCP25B	B51
5403116	CNMG643MR KCM25	B51
5403119	CNMG643MR KCP25B	B51
5405652	PSC50KGMER65C	C73, C151
5405653	PSC50KGMEL65C	C73, C151
5405654	PSC50KGMSR65C	C72, C150
5405655	PSC50KGMSL65C	C72, C150
5406563	170.365	H123
5408657	KGEM1588R1WN20M	H100
5413058	CNMG434UN KCK15B	B54
5413059	CNMM866RH KCP25B	B55
5413170	CCMT3253MF KCP25B	B191
5413171	CNMG433CT KCP10B	B48
5413172	CNMG433CT KCP25B	B48
5413173	CNMG433MW KCK15B	B52
5413174	CNMG433RP KCP10B	B53
5413175	CNMG433RP KCP25B	B53
5413176	CNMG434RP KCP10B	B53
5413177	CNMG434RP KCP25B	B53
5413178	CNMG543MN KCP10B	B50
5413179	CNMG543MN KCP25B	B50
5413180	CNMG543RP KCP10B	B53
5413181	CNMG543RP KCP25B	B53
5413182	CNMG544RP KCP10B	B53
5413183	CNMG544RP KCP25B	B53
5413184	CPMT2152MP KCP25B	B207
5413185	CPMT3252LF KCP10B	B207
5413186	CPMT3252LF KCP25B	B207
5413187	CPMT3252MF KCP10B	B207
5413188	CPMT3252MF KCP25B	B207
5413189	CPMT3252MP KCP25B	B207
5413190	DCMT3252MF KCP10B	B226
5413191	DCMT3252MF KCP25B	B226
5413193	DNMG333MN KCP25B	B81
5413194	DNMG431CT KCP25B	B79
5413195	DNMG433RP KCP10B	B84
5413196	DNMG433RP KCP25B	B84
5413197	DNMG442RP KCP10B	B84
5413198	DNMG442RP KCP25B	B84
5413199	DNMG443CT KCP10B	B79
5413200	DNMG443MN KCP10B	B81
5413201	DNMG443RN KCP10B	B83
5413202	DNMG443RP KCP10B	B84
5413203	SNMG433RP KCK15B	B105
5413205	VNMG333RP KCK15B	B148
5413206	WNMG432RP KCP25B	B161
5413207	WNMG433RP KCP25B	B161
5413208	WNMG434RP KCP25B	B161
5413209	DNMM444RP KCP10B	B85
5413210	CNMM866RM KCP25B	B55
5413211	SNMM856RH KCP25B	B106
5413212	SNMM866RH KCP25B	B106
5413242	SCMT3252LF KCP10B	B246
5413249	TNMG332FN KCP10B	B123
5413250	TNMG332MN KCP10B	B124
5413251	TNMG333FN KCP10B	B123
5413255	VBMT221LF KCP10B	B281
5413256	VBMT331LF KCP10B	B281
5413257	VBMT332LF KCP10B	B281
5413260	WNMG432MN KCP10B	B159
5413261	WNMG432MW KCP10B	B160
5413263	WNMG433MW KCP10B	B160
5413269	SCMT3252LF KCP25B	B246
5413276	SNMM644RM KCP25B	B107
5413277	TNMG332MN KCP25B	B124
5413291	VBMT221LF KCP25B	B281
5413292	VBMT331LF KCP25B	B281
5413293	VBMT332LF KCP25B	B281
5413746	RNPJ10T3M0SHD KC725M	V49
5413747	RNPJ1204M0SGD KC725M	V56
5413748	RNPJ1204M0SHD KC725M	V56
5413749	RNPJ1605M0SHD KC725M	V59
5415049	RIQ06EGR06 KD1415	K59
5415819	UJDE0500J6DQB KCSM15	P46
5415936	UJDE1000J6CRF KCSM15	P45
5415950	UJDE0625J6CRC KCSM15	P44
5415951	UJDE0625J6CRD KCSM15	P44
5415953	UJDE0625J6DQB KCSM15	P46
5415954	UJDE0750J6ARB KCSM15	P44
5415956	UJDE1000J6ARC KCSM15	P45
5415957	UJDE1000J6ARE KCSM15	P45
5415959	UJDE1000J6AS KCSM15	P45
5415970	UJDE1000J6CRB KCSM15	P45
5415971	UJDE1000J6CRE KCSM15	P45
5415973	UJDE1000J6CS KCSM15	P45
5416851	T820NC02500-20RH2-A KSP39	M24
5416852	T820NC02500-20RH3-A KSP32	M24
5416853	T820NC02500-20RH3-A KSMN34	M24
5416854	T820NC02500-20RH3-A KSP39	M24
5416855	T820NC02500-20RH5-A KSP39	M24
5416856	T820NC02500-20RH7-A KSP39	M24
5416857	T820NF02500-28RH2-A KSP39	M24
5416858	T820NF02500-28RH3-A KSP32	M24
5416859	T820NF02500-28RH3-A KSMN34	M24
5416880	T820NF02500-28RH3-A KSP39	M24
5416881	T820NF02500-28RH4-A KSP39	M24
5416882	T820NF02500-28RH5-A KSP39	M24
5416883	T820NF02500-28RH6-A KSP39	M24
5416884	T820NF02500-28RH7-A KSP39	M24
5416885	T820NC03125-18RH3-A KSP32	M24
5416886	T820NC03125-18RH3-A KSMN34	M24
5416887	T820NC03125-18RH3-A KSP39	M24
5416888	T820NC03125-18RH5-A KSP39	M24
5416889	T820NC03125-18RH7-A KSP39	M24
5416890	T820NF03125-24RH3-A KSP32	M24
5416891	T820NF03125-24RH3-A KSMN34	M24
5416892	T820NF03125-24RH3-A KSP39	M24
5416893	T820NF03125-24RH4-A KSP39	M24
5416894	T820NF03125-24RH5-A KSP39	M24
5416895	T820NF03125-24RH6-A KSP39	M24
5416896	T820NF03125-24RH7-A KSP39	M24
5416897	T820NC03750-16RH3-A KSP32	M24
5416898	T820NC03750-16RH3-A KSMN34	M24
5416899	T820NC03750-16RH3-A KSP39	M24
5416900	T820NC03750-16RH5-A KSP39	M24
5416901	T820NC03750-16RH7-A KSP39	M24
5416902	T820NF03750-24RH3-A KSP32	M24
5416903	T820NF03750-24RH3-A KSMN34	M24
5416904	T820NF03750-24RH3-A KSP39	M24
5416905	T820NF03750-24RH4-A KSP39	M24
5416906	T820NF03750-24RH5-A KSP39	M24
5416907	T820NF03750-24RH6-A KSP39	M24
5416908	T820NF03750-24RH7-A KSP39	M24
5416909	T820NC04375-14RH3-A KSMN34	M24
5416910	T820NC04375-14RH3-A KSP39	M24
5416911	T820NC04375-14RH5-A KSP39	M24
5416912	T820NF04375-20RH3-A KSMN34	M24
5416913	T820NF04375-20RH3-A KSP39	M24
5416914	T820NF04375-20RH5-A KSP39	M24
5416915	T820NF04375-20RH6-A KSP39	M24
5416916	T820NF04375-20RH7-A KSP39	M24
5416917	T820NC05000-13RH3-A KSP32	M24
5416918	T820NC05000-13RH3-A KSMN34	M24
5416919	T820NC05000-13RH3-A KSP39	M24
5416930	T820NC05000-13RH5-A KSP39	M24
5416931	T820NC05000-13RH7-A KSP39	M24
5416932	T820NF05000-20RH3-A KSP32	M24
5416933	T820NF05000-20RH3-A KSMN34	M24
5416934	T820NF05000-20RH3-A KSP39	M24
5416935	T820NF05000-20RH5-A KSP39	M24
5416936	T820NF05000-20RH6-A KSP39	M24
5416937	T820NF05000-20RH7-A KSP39	M24
5416938	T820NC05625-12RH3-A KSP32	M24
5416939	T820NC05625-12RH3-A KSP39	M24
5416940	T820NF05625-18RH3-A KSMN34	M24
5416941	T820NF05625-18RH3-A KSP39	M24
5416942	T820NC06250-11RH3-A KSP32	M24
5416943	T820NC06250-11RH3-A KSMN34	M24
5416944	T820NC06250-11RH3-A KSP39	M24
5416945	T820NC06250-11RH5-A KSP39	M24
5416946	T820NC06250-11RH7-A KSP39	M24
5416947	T820NF06250-18RH3-A KSP32	M24
5416948	T820NF06250-18RH3-A KSP39	M24
5416949	T820NF06250-18RH5-A KSP32	M24
5416950	T820NF06250-18RH5-A KSP39	M24
5416951	T820NF06250-18RH6-A KSP39	M24
5416952	T820NC07500-10RH3-A KSP32	M24
5416953	T820NC07500-10RH3-A KSMN34	M24
5416954	T820NC07500-10RH3-A KSP39	M24
5416955	T820NF07500-16RH3-A KSP32	M25
5416956	T820NF07500-16RH3-A KSMN34	M25
5416957	T820NF07500-16RH3-A KSP39	M25
5416958	T820NC08750-9RH4-A KSP32	M25
5416959	T820NC08750-9RH4-A KSMN34	M25
5416961	T820NF08750-14RH4-A KSP39	M25
5416962	T820NC10000-8RH5-A KSP32	M25
5416963	T820NC10000-8RH5-A KSMN34	M25
5416964	T820NC10000-8RH5-A KSP39	M25
5416965	T820NF10000-12RH4-A KSP39	M25
5416966	T820NC11250-7RH6-A KSP39	M25
5416967	T820NF11250-12RH5-A KSP39	M25
5416968	T820NC12500-7RH6-A KSP39	M25
5416994	T830NC#02-56RH2-A KSP39	M74
5416995	T830NC#03-48RH2-A KSP39	M74
5416996	T830NC#04-40RH2-A KSP32	M74
5416997	T830NC#04-40RH2-A KSMN34	M74
5416998	T830NC#04-40RH2-A KSP39	M74
5416999	T830NC#04-40RH3-A KSP39	M74
5417000	T830NC#04-40RH4-A KSP39	M74
5417001	T830NC#04-40RH5-A KSP39	M74
5417002	T830NF#04-48RH2-A KSP39	M74
5417003	T830NC#05-40RH2-A KSP39	M74
5417004	T830NC#06-32RH2-A KSP39	M74
5417005	T830NC#06-32RH3-A KSP32	M74
5417006	T830NC#06-32RH3-A KSMN34	M74
5417007	T830NC#06-32RH3-A KSP39	M74
5417008	T830NC#06-32RH4-A KSP39	M74
5417009	T830NC#06-32RH5-A KSP39	M74
5417010	T830NC#06-32RH7-A KSP39	M74
5417012	T830NF#06-40RH2-A KSP39	M74
5417014	T830NF#06-40RH3-A KSP39	M74
5417016	T830NC#08-32RH2-A KSP39	M74
5417018	T830NC#08-32RH3-A KSP32	M74
5417020	T830NC#08-32RH3-A KSMN34	M74
5417021	T830NC#08-32RH3-A KSP39	M74
5417022	T830NC#08-32RH4-A KSP39	M74
5417023	T830NC#08-32RH5-A KSP39	M74
5417024	T830NC#08-32RH6-A KSP39	M74
5417025	T830NC#08-32RH7-A KSP39	M74
5417026	T830NC#10-24RH2-A KSP39	M74
5417027	T830NC#10-24RH3-A KSP32	M74
5417028	T830NC#10-24RH3-A KSP39	M74
5417029	T830NC#10-24RH3-A KSMN34	M74
5417040	T830NC#10-24RH4-A KSP39	M74
5417041	T830NC#10-24RH5-A KSP39	M75
5417042	T830NC#10-24RH7-A KSP39	M75
5417043	T830NF#10-32RH2-A KSP39	M75
5417044	T830NF#10-32RH3-A KSP32	M75
5417045	T830NF#10-32RH3-A KSMN34	M75
5417046	T830NF#10-32RH3-A KSP39	M75
5417047	T830NF#10-32RH4-A KSP39	M75
5417048	T830NF#10-32RH5-A KSP39	M75
5417049	T830NF#10-32RH6-A KSP39	M75
5417050	T830NF#10-32RH7-A KSP39	M75

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5417051	T830NC#12-24RH3-A KSP39	M75
5417052	T830NF#12-28RH3-A KSP39	M75
5417110	T830NC02500-20RH2-A KSP39	M75
5417111	T830NC02500-20RH3-A KSP32	M75
5417112	T830NC02500-20RH3-A KSMN34	M75
5417113	T830NC02500-20RH3-A KSP39	M75
5417114	T830NC02500-20RH5-A KSP39	M75
5417115	T830NC02500-20RH7-A KSP39	M75
5417116	T830NF02500-28RH2-A KSP39	M75
5417117	T830NF02500-28RH3-A KSP32	M75
5417118	T830NF02500-28RH3-A KSMN34	M75
5417119	T830NF02500-28RH3-A KSP39	M75
5417120	T830NF02500-28RH4-A KSP39	M75
5417121	T830NF02500-28RH5-A KSP39	M75
5417122	T830NF02500-28RH6-A KSP39	M75
5417123	T830NF02500-28RH7-A KSP39	M75
5417124	T830NC03125-18RH3-A KSP32	M75
5417125	T830NC03125-18RH3-A KSMN34	M75
5417126	T830NC03125-18RH3-A KSP39	M75
5417127	T830NC03125-18RH5-A KSP39	M75
5417128	T830NC03125-18RH7-A KSP39	M75
5417129	T830NF03125-24RH3-A KSP32	M75
5417130	T830NF03125-24RH3-A KSMN34	M75
5417131	T830NF03125-24RH3-A KSP39	M75
5417132	T830NF03125-24RH5-A KSP39	M75
5417133	T830NF03125-24RH7-A KSP39	M75
5417134	T830NC03750-16RH3-A KSP32	M75
5417135	T830NC03750-16RH3-A KSMN34	M75
5417136	T830NC03750-16RH3-A KSP39	M75
5417137	T830NC03750-16RH5-A KSP39	M75
5417138	T830NC03750-16RH7-A KSP39	M75
5417139	T830NF03750-24RH3-A KSP32	M75
5417140	T830NF03750-24RH3-A KSMN34	M75
5417141	T830NF03750-24RH3-A KSP39	M75
5417142	T830NF03750-24RH4-A KSP39	M75
5417143	T830NF03750-24RH5-A KSP39	M75
5417144	T830NF03750-24RH6-A KSP39	M75
5417145	T830NC04375-14RH3-A KSP32	M75
5417146	T830NC04375-14RH3-A KSMN34	M75
5417147	T830NC04375-14RH3-A KSP39	M75
5417148	T830NC04375-14RH5-A KSP39	M75
5417149	T830NC04375-14RH7-A KSP39	M75
5417150	T830NF04375-20RH3-A KSP32	M75
5417151	T830NF04375-20RH3-A KSMN34	M75
5417152	T830NF04375-20RH3-A KSP39	M75
5417153	T830NF04375-20RH5-A KSP39	M75
5417154	T830NF04375-20RH6-A KSP39	M75
5417155	T830NF04375-20RH7-A KSP39	M75
5417156	T830NC05000-13RH3-A KSP32	M75
5417157	T830NC05000-13RH3-A KSMN34	M75
5417158	T830NC05000-13RH3-A KSP39	M75
5417159	T830NC05000-13RH5-A KSP39	M75
5417160	T830NC05000-13RH7-A KSP39	M75
5417161	T830NF05000-20RH3-A KSP32	M75
5417162	T830NF05000-20RH3-A KSMN34	M75
5417163	T830NF05000-20RH3-A KSP39	M75
5417164	T830NF05000-20RH5-A KSP39	M75
5417165	T830NF05000-20RH6-A KSP39	M75
5417166	T830NF05000-20RH7-A KSP39	M75
5417167	T830NC05625-12RH3-A KSMN34	M75
5417168	T830NC05625-12RH3-A KSP39	M75
5417169	T830NC05625-12RH3-A KSP32	M75
5417170	T830NC05625-12RH5-A KSP39	M76
5417171	T830NF05625-18RH3-A KSMN34	M76
5417172	T830NF05625-18RH3-A KSP39	M76
5417173	T830NF05625-18RH5-A KSP39	M76
5417174	T830NC06250-11RH3-A KSP32	M76
5417175	T830NC06250-11RH3-A KSMN34	M76
5417176	T830NC06250-11RH3-A KSP39	M76
5417177	T830NC06250-11RH5-A KSP39	M76
5417178	T830NC06250-11RH7-A KSP39	M76
5417179	T830NF06250-18RH3-A KSP32	M76
5417180	T830NF06250-18RH3-A KSMN34	M76
5417181	T830NF06250-18RH3-A KSP39	M76
5417182	T830NF06250-18RH5-A KSP39	M76
5417183	T830NF06250-18RH6-A KSP39	M76
5417184	T830NF06250-18RH7-A KSP39	M76
5417185	T830NC07500-10RH3-A KSP32	M76
5417186	T830NC07500-10RH3-A KSMN34	M76
5417187	T830NC07500-10RH3-A KSP39	M76
5417189	T830NF07500-16RH3-A KSP32	M76
5417190	T830NF07500-16RH3-A KSMN34	M76
5417191	T830NF07500-16RH3-A KSP39	M76
5417192	T830NC07500-10RH5-A KSP39	M76
5417193	T830NF07500-16RH5-A KSP39	M76
5417194	T830NC08750-9RH4-A KSMN34	M76
5417195	T830NC08750-9RH4-A KSP39	M76
5417196	T830NF08750-14RH4-A KSMN34	M76
5417197	T830NF08750-14RH4-A KSP39	M76
5417198	T830NC10000-8RH4-A KSMN34	M76
5417199	T830NC10000-8RH5-A KSP32	M76
5417200	T830NC10000-8RH5-A KSP39	M76
5417202	T830NF1000-12RH4-A KSP39	M76
5417203	T830NC11250-7RH6-A KSP39	M76
5417205	T820M020X040R6H-D1 KSP32	M31
5417206	T820M020X040R6H-D1 KSP39	M31
5417207	T820M020X040R6G-D1 KSP39	M31
5417208	T820M025X045R6H-D1 KSP39	M31
5417209	T820M025X045R6G-D1 KSP39	M31
5417220	T820M030X050R6H-D1 KSP32	M31
5417221	T820M030X050R6H-D1 KSP39	M31
5417222	T820M030X050R6G-D1 KSP39	M31
5417223	T820M035X060R6H-D1 KSP39	M31
5417224	T820M040X070R6H-D1 KSP32	M31
5417225	T820M040X070R6H-D1 KSP39	M31
5417226	T820MF040X050R6H-D4 KSP39	M31
5417227	T820M040X070R6G-D1 KSP39	M31
5417228	T820M050X080R6H-D1 KSP32	M31
5417229	T820M050X080R6H-D1 KSP39	M31
5417230	T820MF050X050R6H-D4 KSP39	M31
5417231	T820M050X080R6G-D1 KSP39	M31
5417232	T820M060X100R6H-D1 KSP32	M31
5417233	T820M060X100R6H-D1 KSP39	M31
5417234	T820MF060X050R6H-D4 KSP39	M31
5417235	T820MF060X075R6H-D4 KSP39	M31
5417236	T820M060X100R6G-D1 KSP39	M31
5417237	T820M070X100R6H-D1 KSP32	M31
5417238	T820M070X100R6H-D1 KSP39	M31
5417239	T820M070X100R6G-D1 KSP39	M31
5417240	T820M080X125R6H-D1 KSP32	M31
5417241	T820M080X125R6H-D1 KSP39	M31
5417242	T820MF080X100R6H-D4 KSP39	M31
5417243	T820M080X125R6G-D1 KSP39	M31
5417244	T820M100X150R6H-D1 KSP32	M31
5417245	T820M100X150R6H-D1 KSP39	M31
5417246	T820MF100X125R6H-D4 KSP39	M31
5417247	T820M100X150R6G-D1 KSP39	M32
5417248	T820M060X100R6H-D6 KSP39	M31
5417249	T820M080X125R6H-D6 KSP39	M31
5417250	T820M100X150R6H-D6 KSP39	M31
5417251	T820M120X175R6H-D6 KSP32	M32
5417252	T820M120X175R6H-D6 KSP39	M32
5417253	T820MF120X125R6H-D4 KSP39	M32
5417254	T820MF120X150R6H-D4 KSP39	M32
5417255	T820M120X175R6G-D6 KSP39	M32
5417256	T820M140X200R6H-D6 KSP32	M32
5417257	T820M140X200R6H-D6 KSP39	M32
5417258	T820MF140X125R6H-D4 KSP39	M32
5417259	T820MF140X150R6H-D4 KSP39	M32
5417260	T820M140X200R6G-D6 KSP39	M32
5417261	T820M160X200R6H-D6 KSP32	M32
5417262	T820M160X200R6H-D6 KSP39	M32
5417263	T820MF160X150R6H-D4 KSP39	M32
5417264	T820M160X200R6G-D6 KSP39	M32
5417265	T820M180X250R6H-D6 KSP32	M32
5417266	T820M180X250R6H-D6 KSP39	M32
5417267	T820MF180X150R6H-D4 KSP39	M32
5417268	T820M200X250R6H-D6 KSP32	M32
5417269	T820M200X250R6H-D6 KSP39	M32
5417270	T820M220X250R6H-D6 KSP39	M32
5417271	T820M240X300R6H-D6 KSP39	M32
5417272	T820M270X300R6H-D6 KSP39	M32
5417273	T820M300X350R6H-D6 KSP39	M32
5417274	T820M330X350R6H-D6 KSP39	M32
5417275	T820M360X400R6H-D6 KSP39	M32
5417276	T830M020X040R6H-D1 KSP39	M92
5417277	T830M020X040R6G-D1 KSP39	M92
5417278	T830M025X045R6H-D1 KSP39	M92
5417279	T830M025X045R6G-D1 KSP39	M92
5417280	T830M030X050R6H-D1 KSP32	M92
5417281	T830M030X050R6H-D1 KSP39	M92
5417282	T830M030X050R6G-D1 KSP39	M92
5417283	T830M035X060R6H-D1 KSP39	M92
5417284	T830M040X070R6H-D1 KSP32	M92
5417285	T830M040X070R6H-D1 KSP39	M92
5417286	T830M040X070R6G-D1 KSP39	M92
5417287	T830M050X080R6H-D1 KSP32	M92
5417288	T830M050X080R6H-D1 KSP39	M92
5417289	T830M050X080R6G-D1 KSP39	M92
5417290	T830M060X100R6H-D1 KSP32	M92
5417291	T830M060X100R6H-D1 KSP39	M92
5417292	T830M060X100R6G-D1 KSP39	M92
5417293	T830M070X100R6H-D1 KSP39	M92
5417294	T830M080X125R6H-D1 KSP32	M92
5417295	T830M080X125R6H-D1 KSP39	M92
5417296	T830MF080X100R6H-D4 KSP32	M92
5417297	T830MF080X100R6H-D4 KSP39	M92
5417298	T830M080X125R6G-D1 KSP39	M92
5417299	T830M100X150R6H-D1 KSP32	M92
5417300	T830M100X150R6H-D1 KSP39	M92
5417301	T830MF100X125R6H-D4 KSP32	M92
5417302	T830MF100X125R6H-D4 KSP39	M92
5417303	T830M100X150R6G-D1 KSP39	M92
5417304	T830M060X100R6H-D6 KSP39	M92
5417305	T830M080X125R6H-D6 KSP39	M92
5417306	T830M100X150R6H-D6 KSP39	M92
5417307	T830M120X175R6H-D6 KSP32	M93
5417308	T830M120X175R6H-D6 KSP39	M93
5417309	T830MF120X125R6H-D4 KSP39	M93
5417310	T830MF120X150R6H-D4 KSP32	M93
5417311	T830MF120X150R6H-D4 KSP39	M93
5417312	T830M120X175R6G-D6 KSP39	M93
5417313	T830M140X200R6H-D6 KSP32	M93
5417314	T830M140X200R6H-D6 KSP39	M93
5417315	T830MF140X150R6H-D4 KSP32	M93
5417316	T830MF140X150R6H-D4 KSP39	M93
5417317	T830M140X200R6G-D6 KSP39	M93
5417318	T830M160X200R6H-D6 KSP39	M93
5417319	T830MF160X150R6H-D4 KSP39	M93
5417330	T830M160X200R6G-D6 KSP39	M93
5417331	T830M180X250R6H-D6 KSP39	M93
5417332	T830MF180X150R6H-D4 KSP39	M93
5417333	T830M200X250R6H-D6 KSP39	M93
5417334	T830M220X250R6H-D6 KSP39	M93
5417335	T830M240X300R6H-D6 KSP39	M93
5417336	T830M270X300R6H-D6 KSP39	M93
5417337	T830M300X350R6H-D6 KSP39	M93
5417338	T830M330X350R6H-D6 KSP39	M93
5417339	T830M360X400R6H-D6 KSP39	M93
5417350	T820M030X050R6H-J KSU31	M33
5417351	T820M030X050R6H-J KSU30	M33
5417352	T820M040X070R6H-J KSU31	M33
5417353	T820M040X070R6H-J KSU30	M33
5417354	T820M050X080R6H-J KSU31	M33
5417355	T820M050X080R6H-J KSU30	M33
5417356	T820M060X100R6H-J KSU31	M33
5417357	T832M030X050R6H-D1 KSP32	M94
5417358	T820M060X100R6H-J KSU30	M33
5417359	T832M030X050R6H-D1 KSP39	M94
5417370	T820M080X125R6H-J KSU31	M33
5417371	T832M040X070R6H-D1 KSP32	M94
5417372	T820M080X125R6H-J KSU30	M33
5417373	T832M040X070R6H-D1 KSP39	M94
5417374	T820M100X150R6H-J KSU31	M33
5417375	T832M050X080R6H-D1 KSP32	M94
5417376	T820M100X150R6H-J KSU30	M33
5417377	T832M050X080R6H-D1 KSP39	M94
5417378	T820M120X175R6H-J KSU30	M33
5417379	T832M060X100R6H-D1 KSP32	M94
5417380	T820MF120X125R6H-J KSU30	M33
5417381	T832M060X100R6H-D1 KSP39	M94
5417382	T820MF120X150R6H-J KSU30	M33
5417383	T832M080X125R6H-D1 KSP32	M94
5417384	T820M140X200R6H-J KSU30	M33
5417385	T832M080X125R6H-D1 KSP39	M94
5417386	T820MF140X150R6H-J KSU30	M33
5417387	T832MF080X100R6H-D4 KSP32	M94
5417388	T820M160X200R6H-J KSU30	M33
5417389	T832MF080X100R6H-D4 KSP39	M94
5417390	T820MF160X150R6H-J KSU30	M33
5417391	T832M100X150R6H-D1 KSP32	M94
5417392	T820M180X250R6H-J KSU30	M33
5417393	T832M100X150R6H-D1 KSP39	M94
5417394	T820M200X250R6H-J KSU30	M33
5417395	T832MF100X125R6H-D4 KSP32	M94
5417396	T832MF100X125R6H-D4 KSP39	M94
5417397	T832M120X175R6H-D6 KSP32	M94
5417398	T832M120X175R6H-D6 KSP39	M94
5417399	T832MF120X150R6H-D4 KSP32	M94
5417400	T832MF120X150R6H-D4 KSP39	M94
5417401	T832M140X200R6H-D6 KSP32	M94
5417402	T832M140X200R6H-D6 KSP39	M94
5417403	T832MF140X150R6H-D4 KSP32	M94
5417404	T832MF140X150R6H-D4 KSP39	M94
5417405	T832M160X200R6H-D6 KSP39	M94
5417406	T832M180X250R6H-D6 KSP32	M94
5417407	T832M180X250R6H-D6 KSP39	M94
5417408	T832M200X250R6H-D6 KSP32	M94
5417409	T832M200X250R6H-D6 KSP39	M94
5417410	T830M030X050R6H-J KSU31	M98
5417411	T830M030X050R6H-J KSU30	M98
5417412	T830M040X070R6H-J KSU31	M98
5417413	T830M040X070R6H-J KSU30	M98
5417414	T830M050X080R6H-J KSU31	M98
5417415	T830M050X080R6H-J KSU30	M98
5417416	T830M060X100R6H-J KSU31	M98
5417417	T830M060X100R6H-J KSU30	M98
5417418	T830M080X125R6H-J KSU30	M98
5417419	T830M080X125R6H-J KSU31	M98
5417420	T830M100X150R6H-J KSU30	M98
5417421	T830M100X150R6H-J KSU31	M98
5417422	T830M120X175R6H-J KSU30	M98
5417423	T830MF120X125R6H-J KSU30	M98
5417424	T830MF120X150R6H-J KSU30	M98
5417425	T830MF140X150R6H-J KSU30	M98
5417426	T830M140X200R6H-J KSU30	M98
5417427	T830MF160X150R6H-J KSU30	M98
5417428	T830M160X200R6H-J KSU30	M98
5417429	T830M180X250R6H-J KSU30	M98
5417430	T830M200X250R6H-J KSU30	M98
5418689	SNHJ444ENLD KC520M	S59
5418800	SNHJ444ENLD KC725M	S59
5418801	SNHJ444ENLD KCK15	S59
5418802	SNHJ444ENLD KCPK30	S59
5418803	SNHJ442ENLD KC520M	S59
5418804	SNHJ442ENLD KC725M	S59
5418805	SNHJ442ENLD KCK15	S59
5418806	SNHJ442ENLD KCPK30	S59
5418807	SNHJ31252ENLD KC520M	S57
5418808	SNHJ31252ENLD KC725M	S57
5418809	SNHJ31252ENLD KCK15	S57
5418810	SNHJ31252ENLD KCPK30	S57
5418811	SNHJ31253ENLD KC725M	S57
5418812	SNHJ31253ENLD KCK15	S57
5420150	KSSM87D200SN440S075Z05	S58
5420154	KSSM87D300SN440S100Z07	S58
5420155	KSSM87D300SN440S100Z09	S58
5420156	KSSM87D400SN440S150Z08	S58
5420157	KSSM87D400SN440S150Z11	S58
5420160	KSSM87D600SN440S150Z12	S58
5420161	KSSM87D600SN440S150Z16	S58
5420251	KSSM88D200SN3125S075Z05	S56
5420252	KSSM88D200SN3125S075Z06	S56
5420255	KSSM88D300SN3125S100Z07	S56
5420257	KSSM88D300SN3125S100Z09	S56
5420258	KSSM88D400SN3125S150Z08	S56
5420672	B551A04763DAL KN15	G104
5420673	B551A06350DAL KN15	G104
5420674	B551A07938DAL KN15	G104
5420675	B551A09525DAL KN15	G104
5420676	B551A11113DAL KN15	G104
5420677	B551A12700DAL KN15	G104
5420678	B551A14288DAL KN15	G104
5420679	B551A15875DAL KN15	G104
5420800	B556A04763DAL KN15	G104
5420801	B556A04826DAL KN15	G104
5420802	B556A06350DAL KN15	G104
5420803	B556A06375DAL KN15	G104
5420804	B556A07938DAL KN15	G104
5420805	B556A09525DAL KN15	G104
5420806	B556A11113DAL KN15	G104
5420807	B556A12700DAL KN15	G104
5420808	B556A14288DAL KN15	G104
5420809	B556A15875DAL KN15	G104
5420832	HNGX5358MCI KCK15	S79
5420836	SNXF433ENLD KCK15	S89
5420837	SNXF43ZNENLD KCK15	S89
5420838	SNXF433SNGP KCK15	S89

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5420839	SNXF43ZNSNGP KCK15	S89
5420840	SNXF433SNHE KCK15	S89
5420841	SNXF43ZNSNHE KCK15	S89
5420842	XNXF43ZNENLDW KCK15	S90
5424912	WNMG432RN KCP25B	B161
5425545	CNMG543RN KCP25B	B53
5425546	CNMG544RN KCP25B	B53
5425547	CNMG644MN KCP25B	B50
5425548	DNMG433MN KCP25B	B81
5425549	DNMG433RN KCP25B	B83
5425581	RNMG43RN KCP10B	B97
5425582	SNMG322MN KCP10B	B102
5425583	SNMG433MN KCP10B	B102
5425584	SNMG433RN KCP10B	B105
5425585	SNMG434RN KCP10B	B105
5425586	SNMG543MN KCP10B	B102
5425587	SNMG543RN KCP10B	B105
5425588	TNMG333MN KCP10B	B124
5425589	TNMG333RN KCP10B	B126
5425591	VNMG332MN KCP10B	B146
5425592	WNMG332RN KCP10B	B161
5425593	WNMG433MN KCP10B	B159
5425594	WNMG433RN KCP10B	B161
5425595	WNMG434RN KCP10B	B161
5425596	RNMG32RN KCP25B	B97
5425597	RNMG43RN KCP25B	B97
5425598	SNMG322MN KCP25B	B102
5425599	SNMG433MN KCP25B	B102
5425600	SNMG433RN KCP25B	B105
5425601	SNMG434RN KCP25B	B105
5425602	SNMG543MN KCP25B	B102
5425603	SNMG543RN KCP25B	B105
5425604	TNMG333MN KCP25B	B124
5425605	TNMG333RN KCP25B	B126
5425606	TNMG434RN KCP25B	B126
5425607	VNMG332MN KCP25B	B146
5430965	WNMG433RP KCK15B	B161
5430966	CNMG543RN KCP10B	B53
5430967	CNMG544RN KCP10B	B53
5430968	CNMG644MN KCP10B	B50
5430969	DNMG431MN KCP10B	B81
5431070	DNMG433MN KCP10B	B81
5431071	DNMG433RN KCP10B	B83
5431193	HSFS0500	H128–129
5431591	CW16	S30–31
5431656	T820M030X050RD3-A KSP32	M29
5431657	T820M030X050RD3-A KSMN34	M29
5431658	T820M030X050RD3-A KSP39	M29
5431659	T820M035X060RD4-A KSP39	M29
5431700	T820M040X070RD4-A KSP32	M29
5431701	T820M040X070RD4-A KSMN34	M29
5431702	T820M040X070RD4-A KSP39	M29
5431703	T820M050X080RD4-A KSP32	M29
5431704	T820M050X080RD4-A KSMN34	M29
5431705	T820M050X080RD4-A KSP39	M29
5431706	T820M060X100RD5-A KSP32	M29
5431707	T820M060X100RD5-A KSMN34	M29
5431708	T820M060X100RD5-A KSP39	M29
5431710	T820M070X100RD5-A KSP39	M29
5431711	T820M080X125RD5-A KSP32	M29
5431712	T820M080X125RD5-A KSMN34	M29
5431713	T820M080X125RD5-A KSP39	M29
5431715	T820M100X150RD6-A KSP32	M29
5431716	T820M100X150RD6-A KSMN34	M29
5431717	T820M100X150RD6-A KSP39	M29
5431719	T820M120X175RD6-A KSP32	M29
5431730	T820M120X175RD6-A KSMN34	M29
5431731	T820M120X175RD6-A KSP39	M29
5431732	T820M140X200RD7-A KSP39	M29
5431733	T820M160X200RD7-A KSP32	M29
5431734	T820M160X200RD7-A KSMN34	M29
5431735	T820M160X200RD7-A KSP39	M29
5431737	T820MF080X100RD5-A KSP39	M29
5431738	T820MF100X125RD5-A KSP39	M29
5431739	T820MF120X125RD6-A KSP39	M29
5431740	T820MF120X150RD6-A KSP39	M29
5431741	T820MF140X150RD6-A KSP39	M29
5431742	T820MF160X150RD6-A KSMN34	M29
5431743	T820MF160X150RD6-A KSP39	M29
5434658	PDC251A04763DA KD1415	G106
5434659	PDC251A06350DA KD1415	G106
5434690	PDC251A07938DA KD1415	G106
5434691	PDC251A09525DA KD1415	G106
5434692	PDC251A11113DA KD1415	G106
5434693	PDC251A12700DA KD1415	G106
5434697	B284D03000HPS KN15	G82
5434699	B284D03175HPS KN15	G82
5434700	B284D03200HPS KN15	G82
5434701	B284D03300HPS KN15	G82
5434703	B284D03500HPS KN15	G82
5434704	B284D03571HPS KN15	G82
5434706	B284D03970HPS KN15	G82
5434707	B284D04000HPS KN15	G82
5434709	B284D04200HPS KN15	G82
5434710	B284D04366HPS KN15	G82
5434712	B284D04500HPS KN15	G82
5434713	B284D04763HPS KN15	G82
5434714	B284D04800HPS KN15	G82
5434715	B284D05000HPS KN15	G82
5434716	B284D05100HPS KN15	G82
5434717	B284D05159HPS KN15	G82
5434718	B284D05558HPS KN15	G82
5434719	B284D05600HPS KN15	G83
5434721	B284D05800HPS KN15	G83
5434722	B284D05954HPS KN15	G83
5434723	B284D06000HPS KN15	G83
5434724	B284D06400HPS KN15	G83
5434725	B284D06500HPS KN15	G83
5434726	B284D06746HPS KN15	G83
5434727	B284D06800HPS KN15	G83
5434728	B284D07000HPS KN15	G83
5434729	B284D07145HPS KN15	G83
5434730	B284D07400HPS KN15	G83
5434731	B284D07500HPS KN15	G83
5434732	B284D07541HPS KN15	G83
5434733	B284D07938HPS KN15	G83
5434734	B284D08000HPS KN15	G83
5434735	B284D08334HPS KN15	G83
5434736	B284D08500HPS KN15	G83
5434737	B284D08733HPS KN15	G83
5434738	B284D09000HPS KN15	G83
5434739	B284D09129HPS KN15	G83
5434740	B284D09500HPS KN15	G83
5434741	B284D09525HPS KN15	G83
5434742	B284D09921HPS KN15	G83
5434743	B284D10000HPS KN15	G83
5434744	B284D10200HPS KN15	G83
5434745	B284D10320HPS KN15	G83
5434746	B284D10500HPS KN15	G83
5434747	B284D10716HPS KN15	G84
5434748	B284D11000HPS KN15	G84
5434749	B284D11113HPS KN15	G84
5434750	B284D11908HPS KN15	G84
5434751	B284D12000HPS KN15	G84
5434752	B284D12500HPS KN15	G84
5434753	B284D12700HPS KN15	G84
5434754	B284D14000HPS KN15	G84
5434755	B284D14288HPS KN15	G84
5434756	B284D15875HPS KN15	G84
5434757	B284D19050HPS KN15	G84
5434758	B284D20000HPS KN15	G84
5434759	B285D03000HPS KN15	G82
5434760	B285D03175HPS KN15	G82
5434761	B285D03200HPS KN15	G82
5434762	B285D03300HPS KN15	G82
5434763	B285D03970HPS KN15	G82
5434764	B285D04000HPS KN15	G82
5434765	B285D04200HPS KN15	G82
5434766	B285D04500HPS KN15	G82
5434767	B285D04763HPS KN15	G82
5434768	B285D04800HPS KN15	G82
5434769	B285D04900HPS KN15	G82
5434770	B285D05000HPS KN15	G82
5434771	B285D05100HPS KN15	G82
5434772	B285D05200HPS KN15	G82
5434773	B285D05500HPS KN15	G82
5434774	B285D05558HPS KN15	G82
5434775	B285D05600HPS KN15	G83
5434776	B285D06000HPS KN15	G83
5434777	B285D06300HPS KN15	G83
5434778	B285D06400HPS KN15	G83
5434779	B285D06500HPS KN15	G83
5434780	B285D06600HPS KN15	G83
5434781	B285D06700HPS KN15	G83
5434782	B285D07000HPS KN15	G83
5434783	B285D07145HPS KN15	G83
5434785	B285D07700HPS KN15	G83
5434786	B285D07800HPS KN15	G83
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5434803	B285D14500HPS KN15	G84
5434804	B285D18000HPS KN15	G84
5443804	T832NC#04-40RH2-A KSP39	M77
5443805	T832NC#04-40RH3-A KSP39	M77
5443806	T832NC#04-40RH5-A KSP39	M77
5443807	T832NC#05-40RH2-A KSP39	M77
5443820	T832NC#06-32RH2-A KSP39	M77
5443821	T832NC#06-32RH3-A KSP39	M77
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5443824	T832NF#06-40RH3-A KSP39	M77
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5443827	T832NC#08-32RH3-A KSP39	M77
5443828	T832NC#08-32RH5-A KSP39	M77
5443829	T832NC#10-24RH3-A KSP39	M77
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5443837	T832NF02500-28RH5-A KSP39	M77
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5443839	T832NC03125-18RH5-A KSP39	M77
5443840	T832NF03125-24RH3-A KSP39	M77
5443841	T832NF03125-24RH5-A KSP39	M77
5443842	T832NC03750-16RH3-A KSP39	M77
5443843	T832NC03750-16RH5-A KSP39	M77
5443844	T832NF03750-24RH3-A KSP39	M77
5443845	T832NF03750-24RH4-A KSP39	M77
5443846	T832NF03750-24RH5-A KSP39	M78
5443847	T832NC04375-14RH3-A KSP39	M78
5443848	T832NC04375-14RH5-A KSP39	M78
5443849	T832NF04375-20RH3-A KSP39	M78
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5443851	T832NC05000-13RH3-A KSP39	M78
5443852	T832NC05000-13RH5-A KSP39	M78
5443854	T832NF05000-20RH3-A KSP39	M78
5443856	T832NC05625-12RH3-A KSP39	M78
5443857	T832NC05625-12RH5-A KSP39	M78
5443858	T832NF05625-18RH3-A KSP39	M78
5443859	T832NC06250-11RH3-A KSP39	M78
5443870	T832NC06250-11RH5-A KSP39	M78
5443871	T832NF06250-18RH3-A KSP39	M78
5443872	T832NF06250-18RH5-A KSP39	M78
5443873	T832NC07500-10RH3-A KSP39	M78
5443874	T832NF07500-16RH3-A KSP39	M78
5443876	T832M030X050RD3-A KSP39	M89
5443877	T832M035X060RD4-A KSP39	M89
5443878	T832M040X070RD4-A KSP39	M89
5443879	T832M050X080RD4-A KSP39	M89
5443910	T832M060X100RD5-A KSP39	M89
5443911	T832M070X100RD5-A KSP39	M89
5443912	T832MF080X100RD5-A KSP39	M89
5443913	T832M080X125RD5-A KSP39	M89
5443914	T832MF100X125RD5-A KSP39	M89
5443915	T832M100X150RD6-A KSP39	M89
5443916	T832MF120X125RD5-A KSP39	M89
5443917	T832MF120X150RD5-A KSP39	M89
5443918	T832M120X175RD6-A KSP39	M89
5443919	T832MF140X150RD6-A KSP39	M89
5443920	T832M140X200RD7-A KSP39	M89
5443921	T832MF160X150RD6-A KSP39	M89
5443922	T832M160X200RD7-A KSP39	M89
5443923	T832MF180X150RD6-A KSP39	M89
5453538	T830M030X050RD3-A KSP32	M88
5453539	T830M030X050RD3-A KSP39	M88
5455180	T830M035X060RD4-A KSP39	M88
5455181	T830M040X070RD4-A KSP32	M88
5455182	T830M040X070RD4-A KSP39	M88
5455183	T830M050X080RD4-A KSP32	M88
5455184	T830M050X080RD4-A KSMN34	M88
5455185	T830M050X080RD4-A KSP39	M88
5455186	T830M060X100RD5-A KSP32	M88
5455187	T830M060X100RD5-A KSMN34	M88
5455188	T830M060X100RD5-A KSP39	M88
5455189	T830M070X100RD5-A KSP39	M88
5455200	T830MF080X100RD5-A KSP39	M88
5455201	T830M080X125RD5-A KSP32	M88
5455202	T830M080X125RD5-A KSMN34	M88
5455203	T830M080X125RD5-A KSP39	M88
5455204	T830MF100X125RD5-A KSP39	M88
5455205	T830M100X150RD6-A KSP32	M88
5455206	T830M100X150RD6-A KSMN34	M88
5455207	T830M100X150RD6-A KSP39	M88
5455208	T830MF120X125RD5-A KSP39	M88
5455209	T830MF120X150RD5-A KSP39	M88
5455220	T830M120X175RD6-A KSP32	M88
5455221	T830M120X175RD6-A KSMN34	M88
5455222	T830M120X175RD6-A KSP39	M88
5455224	T830MF140X150RD6-A KSP39	M88
5455225	T830M140X200RD7-A KSP39	M88
5455226	T830MF160X150RD6-A KSP39	M88
5455227	T830M160X200RD7-A KSP39	M88
5455229	T830MF180X150RD6-A KSP39	M88
5455230	T830M180X250RD7-A KSP39	M88
5455233	T820NC#02-56RH2-A KSP39	M23
5455234	T820NC#02-56RH3-A KSP39	M23
5455235	T820NC#02-56RH4-A KSP39	M23
5455236	T820NC#03-48RH2-A KSP39	M23
5455237	T820NC#04-40RH2-A KSP32	M23
5455238	T820NC#04-40RH2-A KSMN34	M23
5455239	T820NC#04-40RH2-A KSP39	M23
5455830	T820NC#04-40RH3-A KSP39	M23
5455831	T820NC#04-40RH4-A KSP39	M23
5455832	T820NF#04-48RH4-A KSP39	M23
5455833	T820NC#04-40RH5-A KSP32	M23
5455834	T820NC#04-40RH5-A KSP39	M23
5455835	T820NC#04-40RH6-A KSP39	M23
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5455839	T820NC#06-32RH3-A KSP32	M23
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5455841	T820NC#06-32RH3-A KSP39	M23
5455842	T820NC#06-32RH4-A KSP39	M23
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5455848	T820NC#08-32RH2-A KSP39	M23
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5455862	T820NC#08-32RH4-A KSP32	M23
5455863	T820NC#08-32RH5-A KSP39	M23
5455864	T820NC#08-32RH6-A KSP39	M23
5455865	T820NC#08-32RH7-A KSP39	M23
5455866	T820NF#08-36RH2-A KSP39	M23
5455867	T820NC#10-24RH3-A KSP32	M24
5455868	T820NC#10-24RH3-A KSMN34	M24
5455869	T820NC#10-24RH3-A KSP39	M24
5455881	T820NF#10-32RH3-A KSP32	M23
5455882	T820NF#10-32RH3-A KSMN34	M23
5455883	T820NF#10-32RH3-A KSP39	M23
5455884	T820NF#10-32RH4-A KSP39	M23
5455885	T820NC#10-24RH5-A KSP39	M24
5455886	T820NF#10-32RH5-A KSP39	M23
5455887	T820NF#10-32RH6-A KSP39	M23
5455888	T820NC#10-24RH7-A KSP39	M24
5455889	T820NF#10-32RH7-A KSP39	M23
5455891	T820NF#12-28RH3-A KSP39	M24
5477295	EP1408EHD2 KC725M	T58, T69

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5477296	EP1408EHD2 KCPK30	T58, T69
5477297	EP1408EHD2 KCK15	T58, T69
5477299	EP1408EHD2 KC522M	T58, T69
5479648	T820NC#04-40R2B-D1 KSP39	M26
5479649	T820NC#04-40R3B-D1 KSP39	M27
5479690	T820NC#05-40R2B-D1 KSP39	M26
5479691	T820NC#06-32R2B-D1 KSP39	M26
5479692	T820NC#06-32R3B-D1 KSP39	M27
5479693	T820NF#06-40R2B-D1 KSP39	M26
5479694	T820NC#08-32R2B-D1 KSP39	M26
5479695	T820NC#08-32R3B-D1 KSP39	M27
5479696	T820NC#10-24R2B-D1 KSP39	M26
5479697	T820NF#10-32R2B-D1 KSP39	M26
5479698	T820NF#10-32R3B-D1 KSP39	M27
5479699	T820NC02500-20R2B-D1 KSP39	M26
5479700	T820NF02500-28R2B-D1 KSP39	M26
5479701	T820NF02500-28R3B-D1 KSP39	M27
5479702	T820NC03125-18R2B-D1 KSP39	M26
5479703	T820NF03125-24R2B-D1 KSP39	M26
5479704	T820NF03125-24R3B-D1 KSP39	M27
5479705	T820NC03750-16R2B-D1 KSP39	M26
5479706	T820NF03750-24R2B-D1 KSP39	M26
5479707	T820NF03750-24R3B-D1 KSP39	M27
5479708	T820NC04375-14R2B-D6 KSP39	M26
5479709	T820NF04375-20R2B-D6 KSP39	M26
5479710	T820NF04375-20R3B-D6 KSP39	M27
5479711	T820NC05000-13R2B-D6 KSP39	M26
5479712	T820NF05000-20R2B-D6 KSP39	M26
5479713	T820NF05000-20R3B-D6 KSP39	M27
5479714	T820NC05625-12R2B-D6 KSP39	M26
5479715	T820NF05625-18R2B-D6 KSP39	M26
5479716	T820NC06250-11R2B-D6 KSP39	M26
5479717	T820NF06250-18R2B-D6 KSP39	M26
5479718	T820NC07500-10R2B-D6 KSP39	M26
5479719	T820NF07500-16R2B-D6 KSP39	M26
5479720	T820NC08750-9R2B-D6 KSP39	M26
5479721	T820NF08750-14R2B-D6 KSP39	M26
5479722	T820NC10000-8R2B-D6 KSP39	M26
5479723	T820NF10000-12R2B-D6 KSP39	M26
5479724	T830NC#04-40R2B-D1 KSP39	M84
5479725	T830NC#04-40R3B-D1 KSP39	M87
5479726	T830NC#05-40R2B-D1 KSP39	M84
5479727	T830NC#06-32R2B-D1 KSP39	M84
5479728	T830NC#06-32R3B-D1 KSP39	M87
5479729	T830NF#06-40R2B-D1 KSP39	M84
5479730	T830NC#08-32R2B-D1 KSP39	M84
5479732	T830NC#08-32R3B-D1 KSP39	M87
5479733	T830NC#10-24R2B-D1 KSP39	M84
5479734	T830NF#10-32R2B-D1 KSP39	M84
5479735	T830NF#10-32R3B-D1 KSP39	M87
5479736	T830NC02500-20R2B-D1 KSP39	M84
5479737	T830NF02500-28R2B-D1 KSP39	M84
5479738	T830NF02500-28R3B-D1 KSP39	M87
5479739	T830NC03125-18R2B-D1 KSP39	M84
5479760	T830NF03125-24R2B-D1 KSP39	M84
5479761	T830NF03125-24R3B-D1 KSP39	M87
5479762	T830NC03750-16R2B-D1 KSP39	M84
5479763	T830NF03750-24R2B-D1 KSP39	M84
5479764	T830NF03750-24R3B-D1 KSP39	M87
5479765	T830NC04375-14R2B-D6 KSP39	M84
5479766	T830NF04375-20R2B-D6 KSP39	M84
5479767	T830NF04375-20R3B-D6 KSP39	M87
5479768	T830NC05000-13R2B-D6 KSP39	M84
5479769	T830NF05000-20R2B-D6 KSP39	M84
5479770	T830NF05000-20R3B-D6 KSP39	M87
5479771	T830NC05625-12R2B-D6 KSP39	M84
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5479773	T830NC06250-11R2B-D6 KSP39	M84
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5479775	T830NC07500-10R2B-D6 KSP39	M84
5479776	T830NF07500-16R2B-D6 KSP39	M84
5479777	T830NF08750-9R2B-D6 KSP39	M84
5479778	T830NF08750-14R2B-D6 KSP39	M84
5479779	T830NC10000-8R2B-D6 KSP39	M84
5479780	T830NF10000-12R2B-D6 KSP39	M84
5479781	T820MF100X100R6H-D4 KSP39	M31
5479782	T820MF120X100R6H-D4 KSP39	M32
5479783	T820MF140X100R6H-D4 KSP39	M32
5479784	T820MF160X100R6H-D4 KSP39	M32
5479785	T820MF180X200R6H-D4 KSP39	M32
5479786	T820MF200X150R6H-D4 KSP39	M32
5479787	T820MF200X200R6H-D4 KSP39	M32
5479788	T820MF220X150R6H-D4 KSP39	M32
5479789	T820MF220X200R6H-D4 KSP39	M32
5479790	T820MF240X150R6H-D4 KSP39	M32
5479864	KTIP0983HPM KCP15	H32
5489410	WNMG434MN KCP25B	B159
5490089	CNMG644RP KCPK05	B53
5491717	RIQ06EDR06 KD1415	K59
5492520	B269A04550HP KCPK15	G62
5497332	RIQ09EDR06 KD1415	K59
5497351	CFM0402R00RHP KCU40	H43
5505778	B271Z02383KMG KCPK20	G68
5505779	B271Z02500KMG KCPK20	G68
5505938	KTMDUSCREW1	W29–31
5506030	B271Z02642KMG KCPK20	G68
5506031	B271Z02705KMG KCPK20	G68
5506032	B271Z02779KMG KCPK20	G68
5506033	B271Z02820KMG KCPK20	G68
5506034	B271Z03000HPG KCPK20	G68
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5506037	B271Z03500HPG KCPK20	G68
5506038	B271Z03600HPG KCPK20	G68
5506039	B271Z03700HPG KCPK20	G68
5506040	B271Z03970HPG KCPK20	G68
5506041	B271Z04000HPG KCPK20	G68
5506042	B271Z04500HPG KCPK20	G68
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5506151	B271Z15875HPG KCPK20	G69
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5506158	B272Z02489KMG KCPK20	G70
5506159	B272Z02500KMG KCPK20	G70
5506303	B272Z02779KMG KCPK20	G70
5506305	B272Z03000HPG KCPK20	G70
5506306	B272Z03175HPG KCPK20	G70
5506307	B272Z03300HPG KCPK20	G70
5506308	B272Z03500HPG KCPK20	G70
5506309	B272Z03850HPG KCPK20	G70
5506310	B272Z03970HPG KCPK20	G70
5506311	B272Z04000HPG KCPK20	G70
5506312	B272Z04500HPG KCPK20	G70
5506313	B272Z04623HPG KCPK20	G70
5506314	B272Z04763HPG KCPK20	G70
5506315	B272Z05000HPG KCPK20	G70
5506316	B272Z05200HPG KCPK20	G70
5506318	B272Z05260HPG KCPK20	G70
5506320	B272Z05410HPG KCPK20	G70
5506322	B272Z05500HPG KCPK20	G70
5506324	B272Z05558HPG KCPK20	G70
5506326	B272Z05800HPG KCPK20	G70
5506328	B272Z06000HPG KCPK20	G70
5506329	B272Z06200HPG KCPK20	G70
5506330	B272Z06350HPG KCPK20	G70
5506331	B272Z06500HPG KCPK20	G70
5506332	B272Z06528HPG KCPK20	G70
5506333	B272Z06746HPG KCPK20	G70
5506334	B272Z06800HPG KCPK20	G70
5506335	B272Z06909HPG KCPK20	G70
5506336	B272Z07000HPG KCPK20	G71
5506337	B272Z07145HPG KCPK20	G71
5506338	B272Z07200HPG KCPK20	G71
5506339	B272Z07500HPG KCPK20	G71
5506340	B272Z07541HPG KCPK20	G71
5506341	B272Z07938HPG KCPK20	G71
5506342	B272Z08000HPG KCPK20	G71
5506343	B272Z08334HPG KCPK20	G71
5506344	B272Z08433HPG KCPK20	G71
5506345	B272Z08500HPG KCPK20	G71
5506346	B272Z08733HPG KCPK20	G71
5506347	B272Z09000HPG KCPK20	G71
5506348	B272Z09100HPG KCPK20	G71
5506349	B272Z09500HPG KCPK20	G71
5506350	B272Z09525HPG KCPK20	G71
5506351	B272Z09750HPG KCPK20	G71
5506352	B272Z10000HPG KCPK20	G71
5506353	B272Z10200HPG KCPK20	G71
5506354	B272Z10500HPG KCPK20	G71
5506355	B272Z10716HPG KCPK20	G71
5506356	B272Z11000HPG KCPK20	G71
5506357	B272Z11500HPG KCPK20	G71
5506358	B272Z11800HPG KCPK20	G71
5506359	B272Z12000HPG KCPK20	G71
5506360	B272Z12500HPG KCPK20	G71
5506361	B272Z12700HPG KCPK20	G71
5506362	B272Z13000HPG KCPK20	G71
5506363	B272Z13100HPG KCPK20	G71
5506364	B272Z13500HPG KCPK20	G71
5506365	B272Z14000HPG KCPK20	G71
5506367	B272Z14500HPG KCPK20	G71
5506368	B272Z15000HPG KCPK20	G71
5506369	B272Z15500HPG KCPK20	G71
5506370	B272Z15875HPG KCPK20	G71
5506371	B272Z16000HPG KCPK20	G71
5507556	TNMG432MP KCP10B	B124
5507610	TNMG432FN KCP10B	B123
5507611	WNMG432FW KCP10B	B158
5507612	WNMG432RN KCP10B	B161
5511788	B273Z02383KMG KCPK20	G72
5511789	B273Z02500KMG KCPK20	G72
5511930	B273Z02600KMG KCPK20	G72
5511933	B273Z03000HPG KCPK20	G72
5511934	B273Z03175HPG KCPK20	G72
5511935	B273Z03500HPG KCPK20	G72
5511936	B273Z04000HPG KCPK20	G72
5511937	B273Z04500HPG KCPK20	G72
5511938	B273Z05000HPG KCPK20	G72
5511939	B273Z05100HPG KCPK20	G72
5511940	B273Z05500HPG KCPK20	G72
5511941	B273Z05800HPG KCPK20	G72
5511942	B273Z06000HPG KCPK20	G72
5511943	B273Z06350HPG KCPK20	G72
5511944	B273Z06500HPG KCPK20	G72
5511945	B273Z06746HPG KCPK20	G72
5511946	B273Z07000HPG KCPK20	G72
5511947	B273Z07500HPG KCPK20	G72
5511948	B273Z08000HPG KCPK20	G72
5511949	B273Z08500HPG KCPK20	G72
5511950	B273Z08733HPG KCPK20	G72
5511951	B273Z09000HPG KCPK20	G72
5511952	B273Z10000HPG KCPK20	G72
5511953	B273Z10200HPG KCPK20	G72
5511954	B273Z10500HPG KCPK20	G72
5511955	B273Z11000HPG KCPK20	G72
5511956	B273Z11500HPG KCPK20	G72
5511957	B273Z12000HPG KCPK20	G72
5511958	B273Z12500HPG KCPK20	G72
5511959	B273Z12700HPG KCPK20	G72
5511960	B273Z13000HPG KCPK20	G72
5511961	B273Z13500HPG KCPK20	G72
5511962	B273Z14000HPG KCPK20	G72
5511963	B273Z14288HPG KCPK20	G72
5511964	B273Z14500HPG KCPK20	G72
5511965	B273Z15000HPG KCPK20	G72
5512462	CNMG543RN KCPK05	B53
5513477	CNMG432RP KCPK05	B53
5513478	CNMG543RP KCPK05	B53
5514452	TNMG433MN KCP10B	B124
5515172	KSEM3300HPCCLM KC7410	H61, H111
5515173	KSEM3400HPCCLM KC7410	H61, H111
5515174	KSEM3500HPCCLM KC7410	H61, H111
5515175	KSEM3600HPCCLM KC7410	H61, H111
5515176	KSEM3700HPCCLM KC7410	H61, H111
5515177	KSEM3800HPCCLM KC7410	H61, H111
5515178	KSEM3900HPCCLM KC7410	H61, H111
5515179	KSEM4000HPCCLM KC7410	H61, H111
5515220	KSEMP3500HPGM KC7315	H111
5515221	KSEMP3600HPGM KC7315	H111
5515222	KSEMP3700HPGM KC7315	H111
5515223	KSEMP3800HPGM KC7315	H111
5515224	KSEMP3900HPGM KC7315	H111
5515225	KSEMP4000HPGM KC7315	H111
5515226	KSEM2900HPGM KCPM45	H58
5515746	LNGU543SRGE KC520M	T19
5515747	LNGU543SRGE KC522M	T19
5515748	LNGU543SRGE KC725M	T19
5515749	LNGU543SRGE KCK15	T19

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5515759	LNGU542SRGE KC520M	T19
5515890	LNGU542SRGE KC522M	T19
5515891	LNGU542SRGE KC725M	T19
5515892	LNGU542SRGE KCK15	T19
5515893	LNGU542SRGE KCPK30	T19
5516070	LNGU543SRGE KCPK30	T19
5516073	LNGU541SRGE KC520M	T19
5516074	LNGU541SRGE KC522M	T19
5516075	LNGU541SRGE KC725M	T19
5516076	LNGU541SRGE KCK15	T19
5516077	LNGU541SRGE KCPK30	T19
5517479	RCGT64ELFJ KCSM30	V89
5517600	SNMM646RW KCP25B	B107
5517760	RPET1204M0ELEJ KCSM30	V71
5517761	RPET1204M0SGEJ KCSM30	V71
5517764	RPET1605M0SGEJ KCSM30	V78
5517767	WOEJ090512SRGD KCSM30	V39
5517773	RNGJ1204M0ELDJ KCSM30	V55
5517778	RNGJ10T3M0SGDJ KCSM30	V49
5518566	DNMG443MR KCP25B	B82
5519287	EP0708SGE KCSM30	T25
5519923	SDET43PDSR8GB KCSM30	T116, T123, U39
5519967	SDCT438ENLD2 KCSM30	T115, T122
5519983	EP1431EHD KCSM30	T57, T68
5520493	EP1416EHD KCSM30	T57, T68
5520494	EP1440EHD KCSM30	T57, T68
5520684	EP1016EHD KCSM30	T36
5520687	SPCT31254ENLD2 KCSM30	T111, U30
5520736	T353M040X070R6HX-D1 KCK17	M113
5520737	T353M050X080R6HX-D1 KCK17	M113
5520738	T353M060X100R6HX-D1 KCK17	M113
5520739	T353M080X125R6HX-D1 KCK17	M113
5520790	T353M100X150R6HX-D1 KCK17	M113
5520791	T353M120X175R6HX-D6 KCK17	M113
5520792	T353M140X200R6HX-D6 KCK17	M113
5520793	T351M060X100R6HX-D1 KCK17	M112
5520794	T351M070X100R6HX-D1 KCK17	M112
5520795	T351M080X125R6HX-D1 KCK17	M112
5520796	T351M090X125R6HX-D1 KCK17	M112
5520798	T351M100X150R6HX-D1 KCK17	M112
5520799	T351MF100X100R6HX-D4 KCK17	M112
5520800	T351MF100X125R6HX-D4 KCK17	M112
5520801	T351M120X175R6HX-D6 KCK17	M112
5520802	T351MF120X125R6HX-D4 KCK17	M112
5520803	T351MF120X150R6HX-D4 KCK17	M112
5520804	T351M140X2006RHX-D6 KCK17	M112
5520805	T351MF140X125R6HX-D4 KCK17	M112
5520806	T351MF140X150R6HX-D4 KCK17	M112
5520807	T471M060X100R6HX-D1 KCN14	M115
5520808	T471M080X125R6HX-D1 KCN14	M115
5520809	T471M100X150R6HX-D1 KCN14	M115
5520810	T491M060X100R6HX-D74 KCN14	M138
5520811	T491M080X125R6HX-D74 KCN14	M138
5520812	T491M100X150R6HX-D74 KCN14	M138
5523116	RIQ06EGR06 KC6305	K59
5523306	CNMG322FN KCP10B	B49
5523588	DNMG443MR KCP10B	B82
5524447	KTIP04571HP KCP15	H32
5524448	KTIP1830HPM KCP15	H33
5524449	KTIP1840HPM KCP15	H33
5524610	KTIP07620HP KCP15	H33
5528977	OFKT64AFEN6GB KCSM30	S52
5531233	CNGG430FS KCU10	B46
5531234	CNGG4305FS KCU10	B46
5531235	CNGG431FS KCU10	B46
5531236	CNGG432FS KCU10	B46
5531238	CNMG643MS KCU10	B52
5531240	SNMG544MP KCU10	B102
5531241	TCGT3250LF KCU10	B256
5531835	CNMG431FP KCP25B	B49
5531836	CNMG431FN KCP10B	B49
5531837	CNMG431FN KCK15B	B49
5531838	CNMG431FN KCP25B	B49
5531839	CNMG432FN KCP10B	B49
5531890	CNMG432FN KCP25B	B49
5531891	CNMG432FP KCP10B	B49
5531892	CNMG432FP KCP25B	B49
5531893	CNMG433FN KCP25B	B49
5531894	CNMG433FN KCP10B	B49
5531896	DNMG331FN KCP10B	B79
5531897	DNMG332FN KCP25B	B79
5531898	DNMG431FN KCK15B	B79
5531899	DNMG431FN KCP25B	B79
5531900	DNMG432FN KCP10B	B79
5531901	DNMG441FN KCP10B	B79
5531902	DNMG441FN KCK15B	B79
5531903	DNMG441FN KCP25B	B79
5531904	DNMG442FP KCP10B	B80
5531905	DNMG442FP KCP25B	B80
5531906	DNMG442FN KCP25B	B79
5531907	DNMG442FN KCK15B	B79
5531908	DNMG443FN KCP10B	B79
5531909	SNMG322FN KCK15B	B101
5531910	SNMG431FN KCP10B	B101
5532930	EG0212M02U02GUP KCU25	C17
5532931	EG0251M02U02GUP KCU25	C17
5532936	EG0212M02U02GUN KCU25	C20
5532937	EG0251M02U02GUN KCU25	C20
5532941	EG0812M08U08GUP KCU25	C17
5532942	EG0812M08U12GUP KCU25	C17
5532944	EG0812M08U08GUN KCU25	C20
5532945	EG0812M08U12GUN KCU25	C20
5533012	EG255I06U1GUP KCU25	C18
5533013	EG255I06U2GUP KCU25	C18
5533015	EG255I06U1GUN KCU25	C21
5533016	EG255I06U2GUN KCU25	C21
5533080	EC030M03N00CL02 KCU25	C23
5533081	EC014M1BN00CF01 KCU25	C22
5533082	EC020M02N00CF02 KCU25	C22
5533089	EC014M1BN00CM01 KCU25	C24
5533090	EC020M02N00CM02 KCU25	C24
5533093	EC060M06N00CM03 KCU25	C24
5533096	EC060M06N00CR03 KCU25	C25
5533097	EC080M08N00CR04 KCU25	C25
5533120	EG0612M06U04GUP KCU25	C17
5533124	EG0612M06U08GUP KCU25	C17
5533125	EG0612M06U04GUN KCU25	C20
5533127	EG0612M06U08GUN KCU25	C20
5533134	EG317I08U3GUP KCU25	C18
5533136	EG317I08U3GUN KCU25	C21
5533137	EC014M1BN00CL01 KCU25	C23
5533138	EC020M02N00CL02 KCU25	C23
5533139	EC040M04N00CL02 KCU25	C23
5533150	EC020M02L06CF02 KCU25	C22
5533151	EC020M02R06CF02 KCU25	C22
5533156	EC020M02N00CR02 KCU25	C25
5533171	EC060M06L06CR04 KCU25	C25
5533172	EC060M06R06CR04 KCU25	C25
5533173	EC080M08L06CR04 KCU25	C25
5533174	EC080M08R06CR04 KCU25	C25
5533178	EG380I10U3GUP KCU25	C18
5533179	EG063I1FU05GUN KCU25	C21
5533210	EG380I10U3GUN KCU25	C21
5533212	EG0512M05U04GUP KCU25	C17
5533214	EG0512M05U08GUP KCU25	C17
5533216	EG0712M06U08GUP KCU25	C17
5533220	EG1012M10U12GUP KCU25	C17
5533221	EG0512M05U04GUN KCU25	C20
5533222	EG0512M05U08GUN KCU25	C20
5533223	EG1012M10U12GUN KCU25	C20
5533361	ER130I03U00GUP KCU25	C19
5533363	ER192I04U00GUP KCU25	C19
5533365	ER255I06U00GUP KCU25	C19
5533367	ER317I08U00GUP KCU25	C19
5533368	ER130I03U00GUN KCU25	C22
5533369	ER192I04U00GUN KCU25	C22
5533370	ER255I06U00GUN KCU25	C22
5533371	ER317I08U00GUN KCU25	C22
5533448	EC014M1BL06CL01 KCU25	C23
5533449	EC014M1BR06CL01 KCU25	C23
5533510	EC020M02L06CL02 KCU25	C23
5533511	EC020M02R06CL02 KCU25	C23
5533512	EC030M03L06CL02 KCU25	C23
5533513	EC030M03R06CL02 KCU25	C23
5533514	EC040M04L06CL02 KCU25	C23
5533515	EC040M04R06CL02 KCU25	C23
5533516	EC014M1BL06CF01 KCU25	C22
5533517	EC014M1BR06CF01 KCU25	C22
5533518	EC050M05N00CF03 KCU25	C22
5533519	EC014M1BL06CM01 KCU25	C24
5533520	EC014M1BR06CM01 KCU25	C24
5533521	EC020M02L06CM02 KCU25	C24
5533522	EC020M02R06CM02 KCU25	C24
5533523	EC050M05N00CM03 KCU25	C24
5533524	EC070M06N00CM04 KCU25	C24
5533525	EC080M08N00CM04 KCU25	C24
5533526	EC050M05N00CR03 KCU25	C25
5533527	EC070M06N00CR04 KCU25	C25
5533528	EC020M02L06CR02 KCU25	C25
5533529	EC020M02R06CR02 KCU25	C25
5533546	DFR020204LD KCU25	J97
5533547	DFR030204LD KCU25	J97
5533548	DFR040304LD KCU25	J97
5533549	DFR020204LD KCPK10	J97
5533630	DFR030204LD KCPK10	J97
5533631	DFR040304LD KCPK10	J97
5533632	DFR030204LD KC7140	J97
5533633	DFR040304LD KC7140	J97
5533634	SPHX060204R21 KCPK10	J116
5533635	SPHX070304R21 KCPK10	J116
5533636	SPHX070308R21 KCPK10	J116
5533637	SPHX090304R21 KCPK10	J116
5533638	SPHX090308R21 KCPK10	J116
5533639	SPHX120404R21 KCPK10	J116
5533640	SPHX060204R20 KCU25	J115
5533641	SPHX070304R20 KCU25	J115
5533642	SPHX090304R20 KCU25	J115
5533643	SPHX090308R20 KCU25	J115
5533644	SPHX120404R20 KCU25	J115
5533645	SPHX120408R20 KCU25	J115
5533646	SPHX150504R20 KCU25	J115
5533647	SPHX150508R20 KCU25	J115
5533648	SPHX060204R20 KCU40	J115
5533649	SPHX060204R21 KCU40	J116
5533650	SPHX070304R20 KCU40	J115
5533651	SPHX070304R21 KCU40	J116
5533652	SPHX070308R21 KCU40	J116
5533653	SPHX090304R20 KCU40	J115
5533654	SPHX090304R21 KCU40	J116
5533655	SPHX090308R20 KCU40	J115
5533656	SPHX090308R21 KCU40	J116
5533657	SPHX120404R20 KCU40	J115
5533658	SPHX120404R21 KCU40	J116
5533659	SPHX120408R20 KCU40	J115
5533660	SPHX150504R20 KCU40	J115
5533661	SPHX150508R20 KCU40	J115
5534147	SPGX060304FP KCU40	J104
5534148	SPGX060304RHP KCU40	J103
5534149	SPGX060304MD KCU40	J103
5534230	SPGX070304FP KCU40	J104
5534231	SPGX070304RHP KCU40	J103
5534232	SPGX070304MD KCU40	J103
5534233	SPPX09T308FP KCU40	J104
5534234	SPPX09T308RHP KCU40	J103
5534235	SPPX09T308MD KCU40	J103
5534236	SPPX120408FP KCU40	J104
5534237	SPPX120408RHP KCU40	J103
5534238	SPPX120408MD KCU40	J103
5534239	SPPX15T508FP KCU40	J104
5534250	SPPX15T508RHP KCU40	J103
5534251	SPPX15T508MD KCU40	J103
5534252	SPGX060304FP KCU25	J104
5534253	SPGX060304RHP KCU25	J103
5534254	SPGX060304MD KCU25	J103
5534255	SPGX070304FP KCU25	J104
5534256	SPGX070304RHP KCU25	J103
5534257	SPGX070304MD KCU25	J103
5534258	SPPX09T308FP KCU25	J104
5534259	SPPX09T308RHP KCU25	J103
5534260	SPPX09T308MD KCU25	J103
5534261	SPPX120408FP KCU25	J104
5534262	SPPX120408RHP KCU25	J103
5534263	SPPX120408MD KCU25	J103
5534264	SPPX15T508FP KCU25	J104
5534265	SPPX15T508RHP KCU25	J103
5534266	SPPX15T508MD KCU25	J103
5534267	SPGX060304FP KCPK10	J104
5534268	SPGX070304FP KCPK10	J104
5534269	SPPX09T308FP KCPK10	J104
5534270	SPPX120408FP KCPK10	J104
5534271	SPPX15T508FP KCPK10	J104
5534274	ER0312M03U00GUP KCU25	C19
5534276	ER0412M04U00GUP KCU25	C19
5534278	ER0512M05U00GUP KCU25	C19
5534290	ER0612M06U00GUP KCU25	C19
5534292	ER0812M08U00GUP KCU25	C19
5534293	ER0312M03U00GUN KCU25	C21
5534294	ER0412M04U00GUN KCU25	C21
5534295	ER0512M05U00GUN KCU25	C21
5534296	ER0612M06U00GUN KCU25	C21
5534297	ER0812M08U00GUN KCU25	C21
5534828	CNMG431FF KCP10B	B48
5535020	CNMG432CT KCP25B	B48
5535021	CNMG432CT KCP10B	B48
5535022	CNMG432FF KCP10B	B48
5535025	DNMG332CT KCP10B	B79
5535026	DNMG332FF KCP10B	B79
5535027	DNMG432CT KCP10B	B79
5535028	DNMG432FW KCP10B	B80
5535029	DNMG441FF KCP10B	B79
5535040	DNMG441FW KCP10B	B80
5535041	DNMG442CT KCP10B	B79
5535042	DNMG442FF KCP10B	B79
5535043	DNMG442FW KCK15B	B80
5535044	DNMG442FW KCP10B	B80
5535045	DNMP441K KCP25B	B86
5535046	DNMP442K KCP25B	B86
5537375	CCMT2151FP KCP10B	B190
5537376	CCMT2151FP KCP25B	B190
5537378	CCMT2152FP KCP25B	B190
5537379	CCMT32505FP KCP25B	B190
5537420	CCMT3251FP KCP10B	B190
5537421	CCMT3251FP KCP25B	B190
5537422	CCMT3252FP KCP10B	B190
5537423	CCMT3252FP KCP25B	B190
5537425	CCMT431FP KCP10B	B190
5537426	CCMT431FP KCP25B	B190
5537427	CCMT432FP KCP25B	B190
5537429	CPMT2151FP KCP25B	B206
5537430	CPMT2151UF KCP25B	B208
5537431	CPMT2151UF KCP10B	B208
5537432	CPMT3251FP KCP25B	B206
5537433	CPMT3251UF KCP25B	B208
5537435	CPMT3252FP KCP25B	B206
5537436	DCMT21505FP KCP25B	B225
5537437	DCMT2152FP KCP25B	B225
5537438	DCMT32505FP KCP25B	B225
5537439	DCMT32505FP KCP10B	B225
5537442	DCMT3251FP KCP10B	B225
5537443	DCMT3251FP KCP25B	B225
5537444	DCMT3251UF KCP10B	B226
5538857	DCMT3251UF KCP25B	B226
5538858	DCMT3252FP KCP10B	B225
5538891	TCMT18151FP KCP25B	B257
5538894	TCMT221FP KCP10B	B257
5538900	TPMT221FP KCP10B	B267
5538903	VBMT332FP KCP10B	B281
5538904	VBMT332FP KCP25B	B281
5542022	SDET433PDENGDZ KCPM40	V143
5542023	SDET433PDSNGDZ KCPM40	V143
5542024	SDPT433PDENHPZ KCPM40	V143
5542025	SDPT433PDSNHPZ KCPM40	V143
5542028	RNPJ10T3M0SGD KCPM40	V49
5542029	RNPJ10T3M0SHD KCPM40	V49
5542179	CNMA433 KCK15B	B47
5542190	RNPJ1204M0SGD KCPM40	V56
5542191	RNPJ1204M0SHD KCPM40	V56
5542192	RNPJ1605M0SGD KCPM40	V59
5542193	RNPJ1605M0SHD KCPM40	V59
5542210	CNMA543 KCK15B	B47
5542242	WOEJ090512SRHD KCPM40	V39
5542243	WOEJ090512SRGD KCPM40	V39
5542246	RPPT1204M0SGP KCPM40	V72
5542247	RPPT1204M0SGDX KCPM40	V72
5542248	RPPT1605M0SHP KCPM40	V79
5542249	RCGT86SHFJ KCPM40	V92
5542320	RCGT64SHFJ KCPM40	V89
5542322	RCGT64SGFJ KCPM40	V89
5542323	RCGT86SGFJ KCPM40	V92
5543553	KM4X63KGMEL65C	C71, C149
5543555	KM4X63KGMER65C	C71, C149
5543558	KM4X63KGMSL65C	C71, C148
5543560	KM4X63KGMSR65C	C71, C148
5544143	SS20RBHT24	K124
5544144	SS20FBHS24	K139
5544145	SS25RBHT30	K124
5544146	SS25FBHS31	K139

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5544148	ER25RBHT40	K123
5544149	ER25FBHS40	K138
5544190	ER32RBHT50	K123
5544191	ER32FBHS51	K138
5544192	ER40RBHT66	K123
5544193	ER40FBHS67	K138
5544366	M4D100L1502W100L175	T15
5544367	M4D125L1503W100L225	T15
5544368	M4D150L1504W125L225	T15
5544369	M4D100L1502C100L800	T16
5544400	M4D125L1503C125L800	T16
5544401	M4D150L1504C125L800	T16
5544402	M4D150L1505S050L157	T17
5544403	M4D200L1505S075L157	T17
5544404	M4D200L1506S075L157	T17
5544405	M4D250L1506S075L157	T17
5544406	M4D300L1507S100L175	T17
5544407	M4D300L1508S125L200	T17
5544408	M4D400L1511S150L200	T17
5544755	DNMG333FN KCP10B	B79
5545061	EP1408SGD2 KCPM40	T59, T70
5545066	EP1412SGD KCPM40	T58, T70
5545067	EC1408EGD KCPM40	T57, T68
5545068	EC1404EGD KCPM40	T57, T68
5545069	EP1412EHD KCPM40	T57, T68
5545160	EP1408EHD KCPM40	T57, T68
5545161	EP1408SGE KCPM40	T58, T69
5545162	SDET43PDSR8GB KCPM40	T116, T123, U39
5545163	SDCT43PDER8LD2 KCPM40	T115, T122, U38
5545164	SDET43PDER8GB2 KCPM40	T115, T122, U39
5545167	SPCT3125PPER8LD2 KCPM40	T111, U30
5545168	SPET3125PPER8GB2 KCPM40	T111, U31
5545169	EP0708SGE KCPM40	T25
5545214	EP1008EHD KCPM40	T36
5545215	EP1004EHD KCPM40	T36
5545216	EP1008SGD KCPM40	T37
5545217	EC1008ELD KCPM40	T36
5545398	EP1816E KCPM40	T83
5545399	EP1808E KCPM40	T83
5545400	EP1812E KCPM40	T83
5545401	EP1812S KCPM40	T85
5545402	EP1808S KCPM40	T85
5545403	EP1816S KCPM40	T85
5545562	EP1408EHD2 KCPM40	T58, T69
5546298	VNMG333MN KCP25B	B146
5547848	LNPU542SRGE KC520M	T19
5547849	LNPU542SRGE KC522M	T19
5548040	LNPU542SRGE KC725M	T19
5548041	LNPU542SRGE KCK15	T19
5548042	LNPU542SRGE KCPK30	T19
5548378	B967A09300 KC7315	G131
5550701	HNGJ43ANENLD KCPM40	S6, S12, S15
5550702	HNPJ43ANSNHD KCPM40	S7, S13, S16
5550703	HNPJ43ANSNGD KCPM40	S7, S13, S16
5550793	HNGJ535ANSNGD KCPM40	S18, S22
5550794	HNGJ535ANSNHD KCPM40	S19, S22
5550795	HNPJ535ANSNGD KCPM40	S19, S22
5550796	HNPJ535ANSNHD KCPM40	S19, S23
5550797	HNPJ53511ANSNHD KCPM40	S19, S23
5550815	HNPJ75ANSNHD KCPM40	S26
5550816	HNPJ755ANSNHD KCPM40	S26
5550817	HNGJ75ANENGD KCPM40	S25
5550819	OFPT64AFEN6GB KCPM40	S52
5550901	OFPT53AFEN4GB KCPM40	S48
5551030	T340NC#6-32R3BX KCK17	M108
5551031	T340NC#8-32R3BX KCK17	M108
5551032	T340NC#10-24R3BX KCK17	M108
5551033	T340NF#10-32R3BX KCK17	M108
5551034	T340NC02500-20R3BX KCK17	M108
5551035	T340NC03125-18R3BX KCK17	M108
5551036	T340NC03750-16R3BX KCK17	M108
5551037	T340NF03750-24R3BX KCK17	M108
5551038	T340NC05000-13R3BX KCK17	M108
5551039	T340NF05000-20R3BX KCK17	M108
5551040	T340NF05625-18R3BX KCK17	M108
5551041	T340M040X070R6HX KCK17	M109
5551042	T340M050X080R6HX KCK17	M109
5551043	T340M060X100R6HX KCK17	M109
5551044	T340M080X125R6HX KCK17	M109
5551045	T340MF100X100R6HX KCK17	M109
5551046	T340M100X150R6HX KCK17	M109
5551047	T340MF120X150R6HX KCK17	M109
5551048	T340M120X175R6HX KCK17	M109
5551049	T340MF140X150R6HX KCK17	M109
5551050	T340M140X200R6HX KCK17	M109
5551051	T340M160X200R6HX KCK17	M109
5551052	T340M200X250R6HX KCK17	M109
5551053	T351NC#6-32R3BX KCK17	M110
5551054	T351NC#8-32R3BX KCK17	M110
5551055	T351NF#10-32R3BX KCK17	M110
5551056	T351NC02500-20R3BX KCK17	M110
5551057	T351NC03125-18R3BX KCK17	M110
5551058	T351NC03750-16R3BX KCK17	M110
5551059	T351NC04375-14R3BX KCK17	M110
5551060	T351NC05000-13R3BX KCK17	M110
5551061	T351NC06250-11R3BX KCK17	M110
5551062	T351NC07500-10R3BX KCK17	M110
5551063	T351M040X070R6HX KCK17	M111
5551064	T351M050X080R6HX KCK17	M111
5551065	T351M060X100R6HX KCK17	M111
5551066	T351M080X125R6HX KCK17	M111
5551067	T351MF100X100R6HX KCK17	M111
5551068	T351M100X150R6HX KCK17	M111
5551069	T351MF120X150R6HX KCK17	M111
5551070	T351M120X175R6HX KCK17	M111
5551071	T351MF140X150R6HX KCK17	M111
5551072	T351M140X200R6HX KCK17	M111
5551073	T351M160X200R6HX KCK17	M111
5551077	T471M060X100R6HX KCN14	M114
5551078	T471M080X125R6HX KCN14	M114
5551079	T471M100X150R6HX KCN14	M114
5551080	T471M120X175R6HX KCN14	M114
5551081	T471M140X200R6HX KCN14	M114
5551082	T491M050X080R6HX KCN14	M138
5551083	T491M060X100R6HX KCN14	M138
5551084	T491M080X125R6HX KCN14	M138
5551085	T491M100X150R6HX KCN14	M138
5551086	T491M120X175R6HX KCN14	M138
5551479	RIQ09EGR06 KD1415	K59
5555716	B224A04100HP KCPK15	G44
5556965	SDET4316SNGB KCSM30	T116, T123, U39
5558957	S2165C	S10, S14, S58, T17, T53, T78
5565491	T660NC#02-56RH2-A KSS20	M18
5565492	T660NC#02-56RH2-A KSSM24	M18
5565493	T660NC#04-40RH2-A KSS20	M18
5565494	T660NC#04-40RH2-A KSSM24	M18
5565495	T660NC#06-32RH2-A KSS20	M18
5565496	T660NC#06-32RH2-A KSSM24	M18
5565497	T660NC#06-32RH3-A KSS20	M18
5565498	T660NC#06-32RH3-A KSSM24	M18
5565499	T660NF#06-40RH2-A KSS20	M18
5565510	T660NF#06-40RH2-A KSSM24	M18
5565511	T660NC#08-32RH2-A KSS20	M18
5565512	T660NC#08-32RH2-A KSSM24	M18
5565513	T660NC#08-32RH3-A KSS20	M18
5565514	T660NC#08-32RH3-A KSSM24	M18
5565515	T660NF#08-36RH2-A KSS20	M18
5565516	T660NF#08-36RH2-A KSSM24	M18
5565517	T660NC#10-24RH3-A KSS20	M18
5565518	T660NC#10-24RH3-A KSSM24	M18
5565519	T660NF#10-32RH2-A KSS20	M18
5565520	T660NF#10-32RH2-A KSSM24	M18
5565523	T660NF#10-32RH3-A KSS20	M18
5565524	T660NF#10-32RH3-A KSSM24	M18
5565525	T660NC02500-20RH3-A KSS20	M18
5565526	T660NC02500-20RH3-A KSSM24	M18
5565527	T660NC02500-20RH5-A KSS20	M18
5565528	T660NC02500-20RH5-A KSSM24	M18
5565529	T660NF02500-28RH3-A KSS20	M18
5565550	T660NF02500-28RH3-A KSSM24	M18
5565551	T660NF02500-28RH4-A KSS20	M18
5565552	T660NF02500-28RH4-A KSSM24	M18
5565553	T660NC03125-18RH3-A KSS20	M18
5565554	T660NC03125-18RH3-A KSSM24	M18
5565555	T660NC03125-18RH5-A KSS20	M18
5565556	T660NC03125-18RH5-A KSSM24	M18
5565557	T660NF03125-24RH3-A KSS20	M18
5565558	T660NF03125-24RH3-A KSSM24	M18
5565559	T660NF03125-24RH4-A KSS20	M18
5565560	T660NF03125-24RH4-A KSSM24	M18
5565561	T660NC03750-16RH3-A KSS20	M18
5565562	T660NC03750-16RH3-A KSSM24	M18
5565563	T660NC03750-16RH5-A KSS20	M18
5565564	T660NC03750-16RH5-A KSSM24	M18
5565565	T660NF03750-24RH3-A KSS20	M18
5565566	T660NF03750-24RH3-A KSSM24	M18
5565567	T660NF03750-24RH4-A KSS20	M18
5565568	T660NF03750-24RH4-A KSSM24	M18
5565569	T660NC04375-14RH3-A KSS20	M18
5565570	T660NC04375-14RH3-A KSSM24	M18
5565571	T660NF04375-20RH3-A KSS20	M18
5565572	T660NF04375-20RH3-A KSSM24	M18
5565573	T660NC05000-13RH3-A KSS20	M18
5565575	T660NC05000-13RH3-A KSSM24	M18
5565576	T660NF05000-20RH3-A KSS20	M18
5565577	T660NF05000-20RH3-A KSSM24	M18
5565578	T660NF05625-18RH3-A KSSM24	M18
5565579	T660NF05625-18RH5-A KSSM24	M18
5565580	T660NC06250-11RH3-A KSSM24	M18
5565581	T660NF06250-18RH3-A KSSM24	M18
5565582	T660NF06250-18RH5-A KSSM24	M18
5565583	T660NC07500-10RH5-A KSSM24	M18
5565584	T660NF07500-16RH3-A KSSM24	M18
5565585	T660NF07500-16RH5-A KSSM24	M18
5565586	T660NC10000-08RH5-A KSSM24	M18
5565587	T660M025X045RD3-A KSS20	M19
5565588	T660M025X045RD3-A KSSM24	M19
5565589	T660M030X050RD3-A KSS20	M19
5565590	T660M030X050RD3-A KSSM24	M19
5565591	T660M040X070RD4-A KSS20	M19
5565592	T660M040X070RD4-A KSSM24	M19
5565593	T660M050X080RD4-A KSS20	M19
5565594	T660M050X080RD4-A KSSM24	M19
5565595	T660M060X100RD5-A KSS20	M19
5565596	T660M060X100RD5-A KSSM24	M19
5565597	T660M070X100RD5-A KSS20	M19
5565598	T660M070X100RD5-A KSSM24	M19
5565599	T660M080X125RD5-A KSS20	M19
5565610	T660M080X125RD5-A KSSM24	M19
5565611	T660MF100X125RD5-A KSS20	M19
5565612	T660MF100X125RD5-A KSSM24	M19
5565613	T660M100X150RD6-A KSS20	M19
5565614	T660M100X150RD6-A KSSM24	M19
5565615	T660M120X175RD6-A KSS20	M19
5565616	T660M120X175RD6-A KSSM24	M19
5565954	T662NC#02-56RH2-A KSS20	M66
5565955	T662NC#02-56RH2-A KSSM24	M66
5565956	T662NC#04-40RH2-A KSS20	M66
5565957	T662NC#04-40RH2-A KSSM24	M66
5565958	T662NC#06-32RH2-A KSS20	M66
5565959	T662NC#06-32RH2-A KSSM24	M66
5566060	T662NC#06-32RH3-A KSS20	M66
5566061	T662NC#06-32RH3-A KSSM24	M66
5566062	T662NF#06-40RH2-A KSS20	M66
5566063	T662NF#06-40RH2-A KSSM24	M66
5566064	T662NC#08-32RH2-A KSS20	M66
5566065	T662NC#08-32RH2-A KSSM24	M66
5566066	T662NC#08-32RH3-A KSS20	M66
5566067	T662NC#08-32RH3-A KSSM24	M66
5566068	T662NF#08-36RH2-A KSS20	M66
5566069	T662NF#08-36RH2-A KSSM24	M66
5566070	T662NC#10-24RH3-A KSS20	M66
5566071	T662NC#10-24RH3-A KSSM24	M66
5566072	T662NF#10-32RH2-A KSS20	M66
5566073	T662NF#10-32RH2-A KSSM24	M66
5566074	T662NF#10-32RH3-A KSS20	M66
5566075	T662NF#10-32RH3-A KSSM24	M66
5566076	T662NC02500-20RH3-A KSS20	M66
5566077	T662NC02500-20RH3-A KSSM24	M66
5566078	T662NC02500-20RH5-A KSS20	M66
5566079	T662NC02500-20RH5-A KSSM24	M66
5566090	T662NF02500-28RH3-A KSS20	M66
5566091	T662NF02500-28RH3-A KSSM24	M66
5566092	T662NF02500-28RH4-A KSS20	M66
5566093	T662NF02500-28RH4-A KSSM24	M66
5566094	T662NF02500-28RH5-A KSS20	M66
5566095	T662NF02500-28RH5-A KSSM24	M66
5566096	T662NC03125-18RH3-A KSS20	M66
5566097	T662NC03125-18RH3-A KSSM24	M66
5566098	T662NC03125-18RH5-A KSS20	M66
5566099	T662NC03125-18RH5-A KSSM24	M66
5566100	T662NF03125-24RH3-A KSS20	M66
5566101	T662NF03125-24RH3-A KSSM24	M66
5566102	T662NF03125-24RH4-A KSS20	M66
5566103	T662NF03125-24RH4-A KSSM24	M66
5566104	T662NC03750-16RH3-A KSS20	M66
5566105	T662NC03750-16RH3-A KSSM24	M66
5566106	T662NC03750-16RH5-A KSS20	M66
5566107	T662NC03750-16RH5-A KSSM24	M66
5566108	T662NF03750-24RH3-A KSS20	M66
5566109	T662NF03750-24RH3-A KSSM24	M66
5566110	T662NF03750-24RH4-A KSS20	M66
5566111	T662NF03750-24RH4-A KSSM24	M66
5566112	T662NC04375-14RH3-A KSS20	M66
5566113	T662NC04375-14RH3-A KSSM24	M66
5566114	T662NC04375-14RH5-A KSS20	M66
5566115	T662NC04375-14RH5-A KSSM24	M66
5566116	T662NF04375-20RH3-A KSS20	M66
5566117	T662NF04375-20RH3-A KSSM24	M66
5566118	T662NF04375-20RH5-A KSS20	M66
5566130	T662NF04375-20RH5-A KSSM24	M66
5566131	T662NC05000-13RH3-A KSS20	M67
5566132	T662NC05000-13RH3-A KSSM24	M67
5566133	T662NC05000-13RH5-A KSS20	M67
5566134	T662NC05000-13RH5-A KSSM24	M67
5566135	T662NF05000-20RH3-A KSS20	M67
5566136	T662NF05000-20RH3-A KSSM24	M67
5566137	T662NF05000-20RH5-A KSS20	M67
5566138	T662NF05000-20RH5-A KSSM24	M67
5566139	T662NF05625-18RH3-A KSSM24	M67
5566140	T662NF05625-18RH5-A KSSM24	M67
5566141	T662NC06250-11RH3-A KSSM24	M67
5566142	T662NF06250-18RH3-A KSSM24	M67
5566143	T662NF06250-18RH5-A KSSM24	M67
5566144	T662NC07500-10RH5-A KSSM24	M67
5566145	T662NF07500-16RH3-A KSSM24	M67
5566146	T662NF07500-16RH5-A KSSM24	M67
5566147	T662NC10000-08RH5-A KSSM24	M67
5566148	T662M025X045RD3-A KSS20	M68
5566149	T662M025X045RD3-A KSSM24	M68
5566150	T662M030X050RD3-A KSS20	M68
5566151	T662M030X050RD3-A KSSM24	M68
5566152	T662M040X070RD4-A KSS20	M68
5566153	T662M040X070RD4-A KSSM24	M68
5566154	T662M050X080RD4-A KSS20	M68
5566155	T662M050X080RD4-A KSSM24	M68
5566156	T662M060X100RD5-A KSS20	M68
5566157	T662M060X100RD5-A KSSM24	M68
5566158	T662M070X100RD5-A KSS20	M68
5566159	T662M070X100RD5-A KSSM24	M68
5566160	T662M080X125RD5-A KSS20	M68
5566161	T662M080X125RD5-A KSSM24	M68
5566162	T662MF100X125RD5-A KSS20	M68
5566163	T662MF100X125RD5-A KSSM24	M68
5566164	T662M100X150RD6-A KSS20	M68
5566165	T662M100X150RD6-A KSSM24	M68
5566166	T662M120X175RD6-A KSS20	M68
5566167	T662M120X175RD6-A KSSM24	M68
5566274	RCMT1204M0RP KCP25B	B242
5568064	M4D100L1502M12L125	T14
5568065	M4D125L1503M16L175	T14
5568066	M4D150L1504M16L175	T14
5568067	M4D100L1502W075L175	T15
5568068	M4D125L1503W125L225	T15
5568069	M4D150L1503W125L225	T15
5568080	M4D100L1502C100L1000	T16
5568081	M4D125L1503C125L1000	T16
5568082	M4D150L1504C125L1000	T16
5568083	M4D250L1505S075L157	T17
5568084	M4D250L1507S100L175	T17
5568085	M4D300L1509S100L175	T17
5568086	M4D400L1508S150L200	T17
5572826	SDPT43PDER8GB2 KCPM40	T116, T123, U39
5572827	SDPT43PDSR8GB2 KCPM40	T116, T123, U39
5573990	DCMT432LF KCP10B	B225
5575827	LNGU542SRGEM KC520M	T19
5575828	LNGU542SRGEM KCK15	T19
5575829	LNGU542SRGEM KCPK30	T19

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5576320	VNMG332FF KCP25B	B146
5577076	LNEU1245R08 KCPM40	U19
5577077	LNEU1255R08 KCPM40	U19
5577078	LNEU1245R04 KCPM40	U19
5577079	LNEU1255R04 KCPM40	U19
5577120	LNEU1245R08SGP KCPM40	U20
5577121	LNEU1240R08 4 KCPM40	U19
5577122	LNEU1240R03 4 KCPM40	U19
5577123	LNEQ1260R04 KCPM40	U20
5577124	LNEU1260R04 KCPM40	U19
5580585	WNMG433MP KCP25B	B159
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5590777	EP1808EHD KCPM40	T84
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5591157	CPMT3251LF KCM25B	B207
5591158	SCMT431LF KCM25B	B246
5591159	TCMT3252LF KCM25B	B257
5591160	TCMT2152LF KCM25B	B257
5591161	TPMT3251LF KCM25B	B268
5591162	TPMT2151LF KCM25B	B268
5591164	TPMT3252MF KCM25B	B268
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5591167	TCMT3252MF KCM25B	B258
5591168	SPMT3252MF KCM25B	B253
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5591170	TCMT3253MF KCM25B	B258
5591172	CCMT3251MF KCM25B	B191
5591173	DCMT3251MF KCM25B	B226
5591174	CCMT2151MF KCM25B	B191
5591175	SCMT3252MF KCM25B	B247
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5591611	SNMG432FP KCM25B	B101
5591612	SNMM856RH KCP40B	B106
5591613	SNMM866RH KCP40B	B106
5591615	CNMM644RH KCP40B	B55
5591616	SNMM646RH KCP40B	B106
5591617	SNMM646RM KCP40B	B107
5591633	CNMM646RP KCM25B	B56
5591634	SNMM866RP KCM25B	B107
5591711	CPMT2152MF KCM25B	B207
5591712	CPMT3253MF KCM25B	B207
5591713	TCMT2152MF KCM25B	B258
5591714	SNMG432MN KCP40B	B102
5591716	CNMG433MN KCP40B	B50
5591718	WNMG433MN KCP40B	B159
5591720	TNMG433MN KCP40B	B124
5591721	DNMG433MN KCP40B	B81
5591727	DNMG443MN KCP40B	B81
5591773	CNMG431MN KCP40B	B50
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5591780	CNMG543MP KCM25B	B51
5591781	VNMG332MP KCM25B	B147
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5592005	WNMG432UP KCM25B	B162
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5592124	SNMG432MR KCP25B	B103
5592128	CNMG644MR KCP25B	B51
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5592142	DNMG332MR KCP10B	B82
5592146	TNMG543MR KCP25B	B125
5592160	VNMG333MR KCM15	B147
5592162	WNMG434MR KCP10B	B159
5592163	WNMG434MR KCP25B	B159
5593105	KTMDUWD058L157Z1	W29
5593106	KTMDUWD081L236Z2	W29
5593107	KTMDUWD091L276Z2	W29
5593108	KTMDUWD102L315Z3	W29
5593109	KTMDUWD144L374Z3	W34
5593120	KTMDUWD122L374Z4	W29
5593121	KTMDUWD165L472Z4	W34
5593125	KTMDUCD058L236Z1	W30
5593126	KTMDUCD068L256Z2	W30
5593127	KTMDUCD081L315Z2	W30
5593132	KTMDUED091L300Z2	W31
5593133	KTMDUED102L415Z3	W31
5593134	KTMDUED144L512Z3	W34
5593135	KTMDUED122L452Z4	W31
5593139	KTMDUSD169L158Z4	W35
5593140	KTMDUSD209L158Z5	W35
5593141	TMS25D52L40Z8	W10
5593142	TMS25D36L34Z5	W10
5593143	TMS25D44L38Z6	W10
5593145	TMS25D232L158Z9	W12
5593146	TMS25D193L138Z7	W12
5593147	TMS25D154L126Z5	W12
5593148	TMST25D154L126Z5	W13
5593154	TM24D053L102Z1	W4
5593155	TM24D059L118Z1	W4
5593156	TM24D063L110Z2	W4
5593157	TM24D063L142Z1	W4
5593158	TMT24D055L102Z1	W5
5593177	TM41D083L177Z1	W24
5593178	TM41D097L169Z2	W24
5593179	TM41D118L256Z3	W24
5593180	TM41D142L169Z5	W24
5593181	TM41D142L256Z4	W24
5593182	TMS41D210L200Z5	W25
5593183	TMS41D250L200Z6	W25
5593191	TM40D087L169Z3	W17
5593192	TM40D087L256Z3	W17
5593193	TM40D118L215Z4	W17
5593194	TM40D118L315Z3	W17
5593195	TMS40D193L197Z7	W18
5593196	TMS40D232L200Z9	W18
5593197	TMST40D193L197Z7	W19
5593383	KTMDU11L0515N60 KC635M	W32
5593385	KTMDU11L1520N60 KC635M	W32
5593386	KTMDU11L2025N60 KC635M	W32
5593387	KTMDU11L2525N60 KC635M	W32
5593388	KTMDU11L2540N60 KC635M	W32
5593389	KTMDU16L1520N60 KC635M	W36
5593680	KTMDU16L2535N60 KC635M	W36
5593681	KTMDU16L4060N60 KC635M	W36
5593682	KTMDU11L4816N55 KC635M	W32
5593683	KTMDU11L1612N55 KC635M	W32
5593684	KTMDU11L1107N55 KC635M	W32
5593686	KTMDU16L1107N55 KC635M	W36
5593687	KTMDU16L0604N55 KC635M	W36
5593688	KTMDU11L0515N60 KC610M	W32
5593689	KTMDU11L1520N60 KC610M	W32
5593690	KTMDU11L2025N60 KC610M	W32
5593691	KTMDU11L2525N60 KC610M	W32
5593692	KTMDU11L2540N60 KC610M	W32
5593693	KTMDU16L1520N60 KC610M	W36
5593694	KTMDU16L2535N60 KC610M	W36
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5593698	KTMDU11L1107N55 KC610M	W32
5593699	KTMDU16L1612N55 KC610M	W36
5593710	KTMDU16L1107N55 KC610M	W36
5593711	KTMDU16L0604N55 KC610M	W36
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5593713	TM24N28UN KC635M	W6
5593714	TM24N24UN KC635M	W6
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5593716	TM24N18UN KC635M	W6
5593717	TM24N16UN KC635M	W6
5593718	TM24N14UN KC635M	W6
5593719	TM24N12UN KC635M	W6
5593720	TM24N10UN KC635M	W6
5593721	TM24N050ISO KC635M	W6
5593722	TM24N075ISO KC635M	W6
5593723	TM24N100ISO KC635M	W6
5593724	TM24N125ISO KC635M	W6
5593725	TM24N150ISO KC635M	W6
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5593728	TM24N250ISO KC635M	W6
5593729	TM24EN18NPT KC635M	W6
5593740	TM24EN18NPTF KC635M	W7
5593741	TM24EN19BSF KC635M	W6
5593742	TM24EN14BSF KC635M	W6
5593743	TM24EN19BSPT KC635M	W7
5593744	TM24ENBLANK	W7
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5593759	TM41ENBLANK	W26
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5593764	TM40N12UN KC635M	W20
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5593782	TM40N300ISO KC635M	W20
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5593790	TM40EN008NPTF KC635M	W21
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5593792	TM40ENBLANK	W21
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5593799	TM24N16UN KC610M	W6
5593800	TM24N14UN KC610M	W6
5593801	TM24N12UN KC610M	W6
5593802	TM24N10UN KC610M	W6
5593803	TM24N050ISO KC610M	W6
5593804	TM24N075ISO KC610M	W6
5593805	TM24N100ISO KC610M	W6
5593806	TM24N125ISO KC610M	W6

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5593807	TM24N150ISO KC610M	W6
5593808	TM24N175ISO KC610M	W6
5593809	TM24N200ISO KC610M	W6
5593830	TM24N250ISO KC610M	W6
5593831	TM24EN18NPT KC610M	W6
5593832	TM24EN18NPTF KC610M	W7
5593833	TM24EN19BSF KC610M	W6
5593834	TM24EN14BSF KC610M	W6
5593835	TM24EN19BSPT KC610M	W7
5593837	TM41N8UN KC610M	W26
5593838	TM41N7UN KC610M	W26
5593839	TM41N6UN KC610M	W26
5593840	TM41N5UN KC610M	W26
5593841	TM41N45UN KC610M	W26
5593842	TM41N4UN KC610M	W26
5593843	TM41N300ISO KC610M	W26
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5593850	TM41N600ISO KC610M	W26
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5593872	TM40N150ISO KC610M	W20
5593873	TM40N200ISO KC610M	W20
5593874	TM40N250ISO KC610M	W20
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5593876	TM40EN16BSF KC610M	W20
5593877	TM40EN14BSF KC610M	W20
5593878	TM40EN12BSF KC610M	W20
5593879	TM40EN11BSF KC610M	W20
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5593881	TM40EN008NPT KC610M	W20
5593882	TM40EN115NPTF KC610M	W21
5593883	TM40EN008NPTF KC610M	W21
5593884	TM40EN011BSPT KC610M	W21
5593886	CNMG432MR KCU10	B51
5593887	DNMG432MR KCU10	B82
5593888	CNMG433MR KCU10	B51
5593931	WNMG432MR KCU10	B159
5593933	SNMG432MR KCU10	B103
5593934	SNMG433MR KCU10	B103
5593937	DNMG442MR KCU10	B82
5595038	VNMG332FF KCP10B	B146
5596414	CCMT432LF KCM25B	B191
5596415	CCMT3252LF KCM25B	B191
5596416	VBMT332LF KCM25B	B281
5596417	DCMT3252LF KCM25B	B225
5596418	VBMT331LF KCM25B	B281
5596419	DCMT3251LF KCM25B	B225
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5596451	CCMT2151LF KCM25B	B191
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5596456	CCMT432MF KCM25B	B191
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5596460	CNMG432MP KCM25B	B51
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5596462	CNMM646RH KCP40B	B55
5596463	SNMM644RM KCP40B	B107
5596465	CNMG433RN KCP40B	B53
5596466	CNMG434RN KCP40B	B53
5596468	CNMG432RP KCM25B	B53
5596469	CNMG433RP KCM25B	B53
5596480	TNMM433RP KCM25B	B129
5596481	CNMM432RP KCM25B	B56
5596483	SNMM644RP KCM25B	B107
5596485	CNMM644RP KCM25B	B56
5596488	CNMM543RP KCM25B	B56
5596489	CNMM643RP KCM25B	B56
5596859	KTIP1328HPM KCP15	H33
5596899	LNUX301940RRP KCP25	E58
5602422	KSEM3234HPGM KC7315	H55
5604719	B269A13800HP KCPK15	G64
5607204	UJBE0375J6B KCSM15	P52
5607205	UJBE0500J6B KCSM15	P52
5607206	UJBE0500J6C KCSM15	P52
5607207	UJBE0625J6B KCSM15	P52
5607208	UJBE0750J6B KCSM15	P52
5607209	UJBE1000J6B KCSM15	P52
5607300	UJBE0375J6AL KCSM15	P53
5607301	UJBE0500J6AL KCSM15	P53
5607302	UJBE0625J6AL KCSM15	P53
5607304	UJBE0750J6AL KCSM15	P53
5607305	UJBE1000J6AL KCSM15	P53
5607996	LNPU543SRGE KC520M	T19
5607997	LNPU543SRGE KC522M	T19
5607998	LNPU543SRGE KC725M	T19
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5608037	LNPU541SRGE KCK15	T19
5608038	LNPU541SRGE KCPK30	T19
5608090	CNMM644RP KCP25B	B56
5608588	T830NC#04-40RH2-XL6 KSP39	M100
5608589	T830NC#06-32RH3-XL6 KSP39	M100
5608630	T830NC#08-32RH3-XL6 KSP39	M100
5608631	T830NC#10-24RH3-XL6 KSP39	M100
5608632	T830NF#10-32RH3-XL6 KSP39	M100
5608633	T830NC02500-20RH3-XL6 KSP39	M100
5608634	T860NF02500-28RH3-XL6 KSP39	M100
5608635	T830NC03125-18RH3-XL6 KSP39	M100
5608636	T830NF03125-24RH3-XL6 KSP39	M100
5608637	T830NC03750-16RH3-XL6 KSP39	M100
5608638	T830NF03750-24RH3-XL6 KSP39	M100
5608639	T830NC04375-14RH3-XL6 KSP39	M100
5608640	T830NF04375-20RH3-XL6 KSP39	M100
5608642	T830NC05000-13RH3-XL6 KSP39	M100
5608644	T830NF05000-20RH3-XL6 KSP39	M100
5608645	T830NC06250-11RH3-XL6 KSP39	M100
5608646	T830NC#04-40RH2-XL4 KSP39	M99
5608647	T830NC#06-32RH3-XL4 KSP39	M99
5608648	T830NC#08-32RH3-XL4 KSP39	M99
5608661	T830NF#10-32RH3-XL4 KSP39	M99
5608662	T830NC02500-20RH3-XL4 KSP39	M99
5608663	T832NC#04-40RH2-XL6 KSP39	M101
5608664	T832NC#06-32RH3-XL6 KSP39	M101
5608665	T832NC#08-32RH3-XL6 KSP39	M101
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5608667	T832NC02500-20RH3-XL6 KSP39	M101
5608668	T832NF02500-28RH3-XL6 KSP39	M101
5608669	T832NC03125-18RH3-XL6 KSP39	M101
5608680	T832NC03750-16RH3-XL6 KSP39	M101
5608681	T832NF03750-24RH3-XL6 KSP39	M101
5608682	T832NC04375-14RH3-XL6 KSP39	M101
5608745	T820NC#04-40RH2-XL6 KSP39	M35
5608746	T820NC#06-32RH3-XL6 KSP39	M35
5608747	T820NC#08-32RH3-XL6 KSP39	M35
5608748	T820NC#10-24RH3-XL6 KSP39	M35
5608749	T820NF#10-32RH3-XL6 KSP39	M35
5608750	T820NC02500-20RH3-XL6 KSP39	M35
5608751	T820NF02500-28RH3-XL6 KSP39	M35
5608752	T820NC03125-18RH3-XL6 KSP39	M35
5608753	T820NF03125-24RH3-XL6 KSP39	M35
5608754	T820NC03750-16RH3-XL6 KSP39	M35
5608755	T820NF03750-24RH3-XL6 KSP39	M35
5608756	T820NC04375-14RH3-XL6 KSP39	M35
5608757	T820NF04375-20RH3-XL6 KSP39	M35
5608758	T820NC05000-13RH3-XL6 KSP39	M35
5608759	T820NF05000-20RH3-XL6 KSP39	M35
5608760	T820NC06250-11RH3-XL6 KSP39	M35
5608761	T820NC#04-40RH2-XL4 KSP39	M34
5608762	T820NC#06-32RH3-XL4 KSP39	M34
5608764	T820NC#08-32RH3-XL4 KSP39	M34
5608765	T820NC#10-24RH4-XL4 KSP39	M34
5608766	T820NF#10-32RH3-XL4 KSP39	M34
5608767	T820NC02500-20RH3-XL4 KSP39	M34
5613026	M4D500L1509S150L238	T17
5613027	M4D500L1512S150L238	T17
5613028	M4D600L1510S200L238	T17
5615509	HNHX5354ENLE KCK15	S78
5615514	HNPX5358SNGE KCK15	S80
5615518	HNHX5354SNGE KCK15	S79
5615519	HNHX5354SNGE KC514M	S79
5615534	VNMP332K KCP10B	B149
5615608	VNMG332FP KCP25B	B146
5615609	VNMG332FN KCP10B	B146
5615610	HNHX5354ENLE KC514M	S78
5615650	VNMG332FN KCP25B	B146
5615680	HNPX5355SNGE KCK15	S80
5615682	HNHX5355SNGE KCK15	S79
5615683	HNHX5355SNGE KC514M	S79
5615684	HNPX5354SNGE KCK15	S80
5615687	HNHX5358SNGE KCK15	S79
5616165	HNHX5355ENLE KCK15	S78
5616166	HNHX5355ENLE KC514M	S78
5616167	HNHX53ANSNGE KCK15	S78
5616168	HNHX53ANSNGE KC514M	S78
5618002	SNMM543RM KCP25B	B107
5619961	SDET4316ENGB KC725M	T116, T123, U39
5619962	SDET4312SNGB KC725M	T116, T123, U39
5619963	SDET4312ENGB KC725M	T116, T123, U39
5619964	SDET438ENGB KC725M	T116, T123, U39
5620156	LNPU763PNSLHD2 KC520M	S99, S101
5620157	LNPU763PNSLHD2 KCPK30	S99, S101
5620158	LNPU763PNSRHD2 KCPM40	S99, S101
5620360	LNPU763PNSRHD2 KCPK30	S99, S101
5620745	LNPU863ANSRHD2 KCPM40	S95
5620747	LNPU863ANSRHD2 KCPK30	S95
5620748	SM-906LH KC720	S94, S98, S100
5626642	KSEM1250HPGM KCPM45	H57
5626643	KSEM1280HPGM KCPM45	H57
5626644	KSEM1300HPGM KCPM45	H57
5626645	KSEM1350HPGM KCPM45	H57
5626647	KSEM1360HPGM KCPM45	H57
5626648	KSEM1380HPGM KCPM45	H57
5626649	KSEM0547HPG KCPM45	H57
5626700	KSEM1410HPGM KCPM45	H57
5626701	KSEM1450HPGM KCPM45	H57
5626702	KSEM0578HPG KCPM45	H57
5626703	KSEM1500HPGM KCPM45	H57
5626704	KSEM0594HPG KCPM45	H57
5626705	KSEM1550HPGM KCPM45	H57
5626706	KSEM1580HPGM KCPM45	H57
5626707	KSEM0625HPG KCPM45	H57
5626708	KSEM1600HPGM KCPM45	H57
5626709	KSEM0641HPG KCPM45	H57
5626710	KSEM1650HPGM KCPM45	H57
5626711	KSEM1700HPGM KCPM45	H57
5626712	KSEM0672HPG KCPM45	H57
5626713	KSEM1750HPGM KCPM45	H57
5626714	KSEM0703HPG KCPM45	H57
5626715	KSEM1850HPGM KCPM45	H57
5626716	KSEM0734HPG KCPM45	H57
5626717	KSEM0757HPG KCPM45	H57
5626718	KSEM0766HPG KCPM45	H57
5626719	KSEM0797HPG KCPM45	H57
5626720	KSEM2050HPGM KCPM45	H57
5626721	KSEM0844HPG KCPM45	H57
5626722	KSEM2150HPGM KCPM45	H57
5626723	KSEM0859HPG KCPM45	H57
5626724	KSEM0884HPG KCPM45	H57
5626725	KSEM2250HPGM KCPM45	H57
5626726	KSEM0922HPG KCPM45	H57
5626727	KSEM2350HPGM KCPM45	H57
5626728	KSEM2450HPGM KCPM45	H57
5626729	KSEM0969HPG KCPM45	H58
5626730	KSEM2550HPGM KCPM45	H58
5626731	KSEM2650HPGM KCPM45	H58
5626732	KSEM1047HPG KCPM45	H58
5626733	KSEM2750HPGM KCPM45	H58
5626734	KSEM1094HPG KCPM45	H58
5626735	KSEM1109HPG KCPM45	H58
5626736	KSEM2850HPGM KCPM45	H58
5626737	KSEM1156HPG KCPM45	H58
5626738	KSEM2950HPGM KCPM45	H58
5626739	KSEM1172HPG KCPM45	H58
5626740	KSEM3050HPGM KCPM45	H58
5626741	KSEM1219HPG KCPM45	H58
5626742	KSEM3100HPGM KCPM45	H58
5626743	KSEM3150HPGM KCPM45	H58
5626746	KSEM3250HPGM KCPM45	H58
5626747	KSEM1281HPG KCPM45	H58
5626748	KSEM3350HPGM KCPM45	H58
5626749	KSEM3400HPGM KCPM45	H58
5626760	KSEM3450HPGM KCPM45	H58
5626761	KSEM1375HPG KCPM45	H58
5626762	KSEM3500HPGM KCPM45	H58
5626763	KSEM1438HPG KCPM45	H58
5626764	KSEM3700HPGM KCPM45	H58
5626765	KSEM1469HPG KCPM45	H58
5626766	KSEM3750HPGM KCPM45	H58
5626767	KSEM3800HPGM KCPM45	H58
5626768	KSEM1514HPG KCPM45	H58
5626769	KSEM3900HPGM KCPM45	H58
5627784	LNGU544SRGE KC520M	T19
5627785	LNGU544SRGE KC522M	T19
5627786	LNGU544SRGE KC725M	T19
5627787	LNGU544SRGE KCK15	T19
5627788	LNGU544SRGE KCPK30	T19
5627789	LNGU544ERGE KC725M	T18
5627870	LNGU544ERGE KCSM30	T18
5627871	LNGU544ERGE KCPM40	T18
5628796	CNMG432MR KCPK05	B51
5628797	CNMG433MR KCPK05	B51
5628831	CNMG544RN KCPK05	B53
5628832	CNMG544RP KCPK05	B53
5628833	DNMG432MR KCPK05	B82
5628835	DNMG433RN KCPK05	B83
5628837	DNMG433MR KCPK05	B82
5628838	DNMG442MW KCPK05	B82
5628839	DNMG443RN KCPK05	B83
5628841	SNMG544RN KCPK05	B105
5628844	WNMG432RP KCPK05	B161
5628845	WNMG432MR KCPK05	B159
5628847	WNMG433RN KCPK05	B161
5628849	WNMG433RP KCPK05	B161
5628850	WNMG433MR KCPK05	B159
5629530	CNMG433RN KCPK05	B53
5629532	CNMG644RN KCPK05	B53
5629534	CNMM544RP KCPK05	B56
5629536	DNMG432MN KCPK05	B81
5629538	WNMG432MW KCPK05	B160
5629698	T846NPT01250-27R-AS KSU30	M153
5629699	T846NPT02500-18R-A KSU30	M153
5629710	T846NPT03750-18R-A KSU30	M153
5629711	T846NPT05000-14R-A KSU30	M153
5629791	T854NPT00625-27R-A KSP39	M152
5629792	T854NPT00625-27R-A KSU31	M152
5629793	T854NPT01250-27R-AS KSP39	M152
5629794	T854NPT01250-27R-AS KSU31	M152
5629795	T854NPT01250-27R-A KSP39	M152
5629796	T854NPT01250-27R-A KSU31	M152
5629798	T854NPT02500-18R-A KSP39	M152
5629799	T854NPT02500-18R-A KSU31	M152
5629800	T854NPT03750-18R-A KSP39	M152
5629801	T854NPT03750-18R-A KSU31	M152
5629802	T854NPT05000-14R-A KSP39	M152
5629803	T854NPT05000-14R-A KSU31	M152
5629804	T854NPTF00625-27R-A KSP39	M152
5629805	T854NPTF01250-27R-AS KSP39	M152
5629807	T854NPTF01250-27R-AS KSU31	M152
5629808	T854NPTF01250-27R-A KSP39	M152
5629809	T854NPTF01250-27R-A KSU31	M152
5629810	T854NPTF02500-18R-A KSP39	M152
5629811	T854NPTF02500-18R-A KSU31	M152
5629812	T854NPTF03750-18R-A KSP39	M152
5629813	T854NPTF03750-18R-A KSU31	M152
5629814	T854NPTF05000-14R-A KSP39	M152
5629815	T854NPTF05000-14R-A KSU31	M152
5629905	T854NPT07500-14R-A KSP39	M152
5629906	T854NPT07500-14R-A KSU31	M152
5629907	T854NPT10000-11.5R-A KSP39	M152
5629908	T854NPT10000-11.5R-A KSU31	M152
5629909	T854NPTF07500-14R-A KSP39	M152
5629930	T854NPTF10000-11.5R-A KSP39	M152
5629931	T846NPT07500-14R-A KSU30	M153
5630018	LNGU544SRGEM KC520M	T19
5630019	LNGU544SRGEM KCK15	T19
5630070	LNGU544SRGEM KCPK30	T19
5630740	SNPJ31252SNGD KC520M	S57
5630741	SNPJ31252SNGD KCPM40	S57
5630742	SNPJ31252SNGD KCK15	S57
5630743	SNPJ31252SNGD KCPK30	S57

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5630744	SNPJ31253SNGD KCPM40	S57
5630745	SNPJ31253SNGD KCK15	S57
5630746	SNPJ442SNGD KC520M	S60
5630747	SNPJ442SNGD KCPM40	S60
5630748	SNPJ442SNGD KCK15	S60
5630749	SNPJ442SNGD KCPK30	S60
5630751	SNPJ444SNGD KCPM40	S60
5630752	SNPJ444SNGD KCK15	S60
5630753	SNPJ444SNGD KCPK30	S60
5631151	SNMG432RP KCP25B	B105
5631155	SNMG432RN KCP25B	B105
5633113	T822NC#05-40RH2-A KSP39	M28
5633114	T822NC#06-32RH2-A KSP39	M28
5633115	T822NC#06-32RH3-A KSP32	M28
5633116	T822NC#06-32RH3-A KSMN34	M28
5633117	T822NC#06-32RH3-A KSP39	M28
5633118	T822NC#06-32RH4-A KSP39	M28
5633119	T822NC#06-32RH5-A KSP39	M28
5633200	T822NC#06-32RH6-A KSP39	M28
5633201	T822NC#06-32RH7-A KSP39	M28
5633202	T822NF#06-40RH2-A KSP39	M28
5633203	T822NF#06-40RH3-A KSP39	M28
5633204	T822NC#08-32RH2-A KSP39	M28
5633205	T822NC#08-32RH3-A KSP32	M28
5633206	T822NC#08-32RH3-A KSMN34	M28
5633207	T822NC#08-32RH3-A KSP39	M28
5633208	T822NC#08-32RH4-A KSP32	M28
5633209	T822NC#08-32RH5-A KSP39	M28
5633210	T822NC#08-32RH6-A KSP39	M28
5633211	T822NC#08-32RH7-A KSP39	M28
5633212	T822NF#08-36RH2-A KSP39	M28
5633213	T822NC#10-24RH3-A KSP32	M28
5633214	T822NC#10-24RH3-A KSMN34	M28
5633215	T822NC#10-24RH3-A KSP39	M28
5633217	T822NF#10-32RH3-A KSP32	M28
5633218	T822NF#10-32RH3-A KSMN34	M28
5633219	T822NF#10-32RH3-A KSP39	M28
5633220	T822NF#10-32RH4-A KSP39	M28
5633221	T822NC#10-24RH5-A KSP39	M28
5633222	T822NF#10-32RH5-A KSP39	M28
5633223	T822NF#10-32RH6-A KSP39	M28
5633224	T822NC#10-24RH7-A KSP39	M28
5633225	T822NF#10-32RH7-A KSP39	M28
5633227	T822NF#12-28RH3-A KSP39	M28
5633228	T822M030X050RD3-A KSP32	M30
5633229	T822M030X050RD3-A KSMN34	M30
5633230	T822M030X050RD3-A KSP39	M30
5633231	T822M035X060RD4-A KSP39	M30
5633232	T822M040X070RD4-A KSP32	M30
5633233	T822M040X070RD4-A KSMN34	M30
5633234	T822M040X070RD4-A KSP39	M30
5633235	T822M050X080RD4-A KSP32	M30
5633236	T822M050X080RD4-A KSMN34	M30
5633237	T822M050X080RD4-A KSP39	M30
5633262	T834NC#05-40RH2-A KSP39	M74
5633263	T834NC#06-32RH2-A KSP39	M74
5633264	T834NC#06-32RH3-A KSP32	M74
5633265	T834NC#06-32RH3-A KSMN34	M74
5633266	T834NC#06-32RH3-A KSP39	M74
5633267	T834NC#06-32RH4-A KSP39	M74
5633268	T834NC#06-32RH5-A KSP39	M74
5633269	T834NC#06-32RH7-A KSP39	M74
5633370	T834NF#06-40RH2-A KSP39	M74
5633371	T834NF#06-40RH3-A KSP39	M74
5633376	T834M030X050RD3-A KSP32	M88
5633377	T834M030X050RD3-A KSP39	M88
5633378	T834M035X060RD4-A KSP39	M88
5635433	ND3040L KCU25	D12
5639385	DCMT3252FP KCK20B	B225
5639388	DCMT3252MP KCK20B	B226
5639660	DCMT3253MF KCK20B	B226
5639663	DNMA432 KCK20B	B78
5639666	DNMA443 KCK20B	B78
5639667	DNMG332RP KCK20B	B84
5639668	DNMG432RP KCK20B	B84
5639681	DNMG443RP KCK20B	B84
5639683	DPMT2152FW KCK20B	B232
5639689	RCMT0803M0 KCK20B	B240
5639690	RCMT10T3M0 KCK20B	B240
5639691	RCMT1204M0 KCK20B	B240
5639693	RCMT2006M0 KCK20B	B240
5639699	SCMT3252MF KCK20B	B247
5639700	SCMT3252MP KCK20B	B247
5639701	SCMT432LF KCK20B	B246
5639702	SCMT432MF KCK20B	B247
5639703	SCMT432MP KCK20B	B247
5639705	SCMT433MF KCK20B	B247
5639707	SCMW3252 KCK20B	B248
5639708	SCMW432 KCK20B	B248
5639709	SCMW433 KCK20B	B248
5639710	SNMA432 KCK20B	B100
5639761	SNMG432RP KCK20B	B105
5639767	SPMT3252LF KCK20B	B252
5639781	TCMT2151FP KCK20B	B257
5639782	TCMT2151LF KCK20B	B257
5639784	TCMT2152LF KCK20B	B257
5639785	TCMT2152MF KCK20B	B258
5639786	TCMT2152MP KCK20B	B258
5639787	TCMT3251LF KCK20B	B257
5639788	TCMT3251MP KCK20B	B258
5639790	TCMT3252LF KCK20B	B257
5639791	TCMT3252MF KCK20B	B258
5639792	TCMT3252MP KCK20B	B258
5639793	TCMT3253LF KCK20B	B257
5639794	TCMT3253MF KCK20B	B258
5639795	TCMT432LF KCK20B	B257
5639796	TCMW3251 KCK20B	B258
5639797	TCMW3252 KCK20B	B258
5639799	TNMA332 KCK20B	B122
5639822	TNMA432 KCK20B	B122
5639823	TNMA433 KCK20B	B122
5639826	TNMG432RP KCK20B	B127
5639834	TPMT3252LF KCK20B	B268
5639837	TPMT3252MP KCK20B	B269
5639838	TPMT3253MF KCK20B	B268
5639840	VBMT222LF KCK20B	B281
5639845	CCMT2151FW KCK20B	B190
5639849	CCMT2152LF KCK20B	B191
5640382	CCMT3251MF KCK20B	B191
5640383	CCMT3251MP KCK20B	B191
5640386	CCMT3252MP KCK20B	B191
5640387	CCMT3252MW KCK20B	B192
5640388	CCMT3253MF KCK20B	B191
5640391	CCMT432MF KCK20B	B191
5640392	CCMT432MP KCK20B	B191
5640393	CCMT432MW KCK20B	B192
5640394	CCMT433LF KCK20B	B191
5640397	CCMW2151 KCK20B	B192
5640399	CCMW3252 KCK20B	B192
5640400	CCMW432 KCK20B	B192
5640401	CCMW433 KCK20B	B192
5640402	CNMA431 KCK20B	B47
5640403	CNMA544 KCK20B	B47
5640406	CNMA644 KCK20B	B47
5640408	CNMG434RP KCK20B	B53
5640409	CNMG543RP KCK20B	B53
5640416	CPMT2152MF KCK20B	B207
5640418	CPMT3251FW KCK20B	B206
5640419	CPMT3251LF KCK20B	B207
5640421	CPMT3252LF KCK20B	B207
5640422	CPMT3252MF KCK20B	B207
5640424	CPMT3252MW KCK20B	B208
5640425	VBMT331FP KCK20B	B281
5640427	VBMT332FP KCK20B	B281
5640428	VBMT332MP KCK20B	B281
5640429	VBMT333LF KCK20B	B281
5640431	VNMG332RP KCK20B	B148
5640436	WNMG432RP KCK20B	B161
5640437	WNMG433RP KCK20B	B161
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5640443	CCMT3251LF KCM15B	B191
5640444	CCMT3252LF KCM15B	B191
5640445	CCMT3252MF KCM15B	B191
5640448	CCMT432MF KCM15B	B191
5640449	CNMG432FP KCM15B	B49
5640480	CNMG432MP KCM15B	B51
5640482	CNMG432RP KCM15B	B53
5640483	CNMG433RP KCM15B	B53
5640484	DCMT3251LF KCM15B	B225
5640485	DCMT3252LF KCM15B	B225
5640486	DNMG331FP KCM15B	B80
5640487	DNMG443FP KCM15B	B80
5640490	TNMG332MP KCM15B	B124
5640491	TPMT18151LF KCM15B	B268
5640492	VBMT331LF KCM15B	B281
5640493	VBMT332LF KCM15B	B281
5640494	WNMG432FP KCM15B	B158
5640496	WNMG433MW KCM15B	B160
5640904	CCMT2151FP KCM15B	B190
5640905	CCMT2151MF KCM15B	B191
5640906	CCMT2151MP KCM15B	B191
5640907	CCMT2152LF KCM15B	B191
5640908	CCMT3251FP KCM15B	B190
5640909	CCMT3251MF KCM15B	B191
5640960	CCMT3251MP KCM15B	B191
5640961	CCMT3251MW KCM15B	B192
5640962	CCMT3252FP KCM15B	B190
5640963	CCMT3252FW KCM15B	B190
5640964	CCMT3252MP KCM15B	B191
5640965	CCMT3252MW KCM15B	B192
5640969	CNMG322MP KCM15B	B51
5640970	CNMG431FF KCM15B	B48
5640971	CNMG431MP KCM15B	B51
5640973	CNMG431UP KCM15B	B54
5640974	CNMG432FF KCM15B	B48
5640975	CNMG432FW KCM15B	B49
5640976	CNMG432MR KCM15B	B51
5640977	CNMG432P KCM15B	B52
5640978	CNMG432UP KCM15B	B54
5640979	CNMG433MP KCM15B	B51
5640980	CNMG433MR KCM15B	B51
5640981	CNMG434MP KCM15B	B51
5640982	CNMG542MP KCM15B	B51
5640985	CNMG543MP KCM15B	B51
5640986	CNMG543RP KCM15B	B53
5640988	CNMG642MP KCM15B	B51
5640997	WNGA432S0415FWHBMT KBH20	B343
5641044	SNMG543MR KCM15B	B103
5641046	WNMG432MR KCM15B	B159
5641047	WNMG433MR KCM15B	B159
5641048	CNMG431MR KCM15B	B51
5641055	DNMG442MR KCM15B	B82
5641062	VNMG332MR KCM15B	B147
5641064	WNMG332MR KCM15B	B159
5641067	CPGM3251 KCM15B	B205
5641069	CPMT2152MF KCM15B	B207
5641090	CPMT3251LF KCM15B	B207
5641091	CPMT3252MF KCM15B	B207
5641093	DCMT2151LF KCM15B	B225
5641094	DCMT3252MF KCM15B	B226
5641095	DNMG332FW KCM15B	B80
5641096	DNMG431FF KCM15B	B79
5641098	DNMG431MP KCM15B	B81
5641099	DNMG432MP KCM15B	B81
5641101	DNMG441MP KCM15B	B81
5641102	DNMG442MP KCM15B	B81
5641105	SNMG432MP KCM15B	B102
5641107	SNMG544RP KCM15B	B105
5641108	TCMT2151LF KCM15B	B257
5641109	TNMG331FF KCM15B	B123
5641110	TNMG331MP KCM15B	B124
5641111	TNMG333MP KCM15B	B124
5641113	TNMG432MP KCM15B	B124
5641114	VNMG331FF KCM15B	B146
5641115	VNMG331MP KCM15B	B147
5641116	VNMG332MP KCM15B	B147
5641117	VNMG333MP KCM15B	B147
5641118	WNMG431FW KCM15B	B158
5641119	WNMG431P KCM15B	B160
5641120	WNMG432MP KCM15B	B159
5641121	WNMG432P KCM15B	B160
5641122	WNMG432RP KCM15B	B161
5641123	WPMT3251LF KCM15B	B288
5641236	CCMT2151LF KCK20B	B191
5641237	CCMT3252LF KCK20B	B191
5641238	CCMT3252MF KCK20B	B191
5641239	CCMT432LF KCK20B	B191
5641360	CNMA432 KCK20B	B47
5641361	CNMA433 KCK20B	B47
5641363	CNMA543 KCK20B	B47
5641364	CNMG431UN KCK20B	B54
5641365	CNMG432RP KCK20B	B53
5641366	CNMG432UN KCK20B	B54
5641367	CNMG433RP KCK20B	B53
5641369	DCMT3251LF KCK20B	B225
5641370	DCMT3252LF KCK20B	B225
5641371	SCMT3252LF KCK20B	B246
5641372	SNMA433 KCK20B	B100
5641373	SNMG433UN KCK20B	B106
5641375	VBMT331LF KCK20B	B281
5641377	WNMA432 KCK20B	B157
5641379	WNMG332UN KCK20B	B162
5642146	CNMG433UN KCK20B	B54
5642147	CNMG434UN KCK20B	B54
5642148	CNMG542UN KCK20B	B54
5642149	CNMG543UN KCK20B	B54
5642150	CNMG544UN KCK20B	B54
5642154	DNMA332 KCK20B	B78
5642155	DNMA434 KCK20B	B78
5642158	DNMG432UN KCK20B	B84
5642159	DNMG433UN KCK20B	B84
5642160	DNMG434UN KCK20B	B84
5642161	DNMG442UN KCK20B	B84
5642162	DNMG443UN KCK20B	B84
5642165	RCMT2006M0RP KCK20B	B242
5642167	SNMG432UN KCK20B	B106
5642168	SNMG434UN KCK20B	B106
5642173	TNMG332UN KCK20B	B127
5642174	TNMG333UN KCK20B	B127
5642182	WNMA333 KCK20B	B157
5642185	WNMG432UN KCK20B	B162
5642186	WNMG433UN KCK20B	B162
5650846	TPU221 KCK15B	B178
5650847	TPU321 KCK15B	B178
5650848	TPU322 KCK15B	B178
5651220	RPHT1204M0TX4 X700	V105
5651222	XDLW090408SRD X500	V16
5651223	XDLW120508SRD X400	V23
5651479	RPHT1204M0E421X4 X500	V104
5651903	CXE0750MN4-C SP4060	P84
5652140	SDHT120412EN422 SP6519	T132
5652239	XDLW090408SRD X400	V16
5652248	XDLT120512ERD411 X500	V22
5652249	XDLT090412ERD411 SP6519	V15
5652466	CXER0125NTN4-F SP4060	P85
5652468	CXER0250NN4-C SP4060	P85
5652476	CXER0500NN4-K SP4060	P85
5652477	CXER0625NN4-C SP4060	P85
5652478	CXER0625NN4-J SP4060	P85
5652479	CXER0750NN4-F SP4060	P85
5652480	CXER0750NN4-K SP4060	P85
5652489	RPHT1204M0TX4 SP6519	V105
5652490	XDLT090408ERD41 SP6519	V14
5652729	XDLT120508ERD41 SC6525	V21
5652800	RPEX10T3M0F701X4 SP4019	V99
5652874	XPNT101043RF SP6519	V115
5652899	XDLT120512ERD411 SP6519	V22
5653062	XPNT050522RF SP6519	V115
5653063	XPNT121254RF SP6519	V115
5653064	XPNT161654RF SP6519	V115
5653106	XDLT090408ERD41 SC6525	V14
5653137	SDHT120412EN423 X500	T132
5653138	SDHT09T308EN422 X500	T129
5653139	XELT160512ERD41 X500	V28
5653140	XELT160512ERD41 SP6519	V28
5653360	CXER0500NN4-J SP4060	P85
5653362	CXER0750NN4-C SP4060	P85
5653364	CXER1000NN4-L SP4060	P85
5653576	SDHT09T308EN422 SP6519	T129
5653639	CXER0469NTN4-E SP4060	P85
5653642	CXER1000NN4-F SP4060	P85
5653777	CXER0125NTN4-C SP4060	P85
5653779	CXER0375NN4-C SP4060	P85
5653885	SDHT120412EN422 X500	T132
5653890	SDHT09T3AEEN422 SP6519	T129
5653930	XDLT120508ERD41 X500	V21
5653967	XELW160512SRD X400	V28
5653971	CXE0125MTN4-C SP4060	P84
5653973	CXE0500MN4-C SP4060	P84
5654214	XPNT080832RF SP6519	V115
5654218	CXE0375MN4-C SP4060	P84
5654220	XDLT120508ERD41 SP6519	V21
5654267	XPLT060308ERD41 SP6519	V7
5654371	RPHT1204M0TX4 X500	V105
5654377	XPLT060308ERD41 X400	V7
5654397	XPLT060308ERD41 X500	V7
5654405	SDHT09T308EN423 X500	T129
5654496	CXER0750NN4-L SP4060	P85

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5654552	CXE0250MN4-C SP4060	P84
5654558	CXER0500NN4-C SP4060	P85
5654563	CXER0375NN4-E SP4060	P85
5654578	CXE0187MTN4-C SP4060	P84
5654744	RPMT1204M0E41X4 SP6519	V104
5654896	XDLT090408ERD41 X500	V14
5655031	SDHT120412EN423 SP6519	T132
5655035	RPHT10T3M0TX4 SP6519	V100
5655041	CXER0250NN4-E SP4060	P85
5655043	CXER0500NN4-L SP4060	P85
5655044	CXER1000NN4-C SP4060	P85
5655104	XELT160512ERD41 SC6525	V28
5655105	SDHT09T308EN423 SP6519	T129
5655109	XDLW120508SRD X500	V23
5655128	RPHT10T3M0TX4 X500	V100
5655171	XPNT06062515RF SP6519	V115
5655172	XDLT090412ERD411 X500	V15
5655210	CXER0500NN4-F SP4060	P85
5655255	XDLW090408SRD SC6525	V16
5655265	XPLT060308ERD41 SC6525	V7
5655472	XDLT090408ERD721 GH2	V14
5655817	XELW160512SRD SC3025	V28
5656081	XDLW090408SRD SC3025	V16
5656214	XDLW120508SRD SC3025	V23
5656242	RPEX10T3M0F701X4 GH1	V99
5656252	XDLT120508ERD721 GH2	V21
5656378	C7792VXD12-A4.00Z9R	V19–20
5656381	RPMT10T3M0E41X4 X500	V100
5656382	C7792VXD12-A2.00Z5R	V19–20
5656533	SDMT120412EN41 MP91M	T133
5656731	C7792VXD09-A1.50Z4R	V12–13
5656732	C7792VXD12-A2.50Z5R	V19–20
5656765	SDMT09T308EN41 X500	T130
5656911	RPHT10T3M0E421X4 X700	V99
5656915	C7792VXD12-6.00Z12R	V19–20
5656917	RPMW10T3M0TX4 X500	V100
5656919	C7792VXD12-A3.00Z8R	V19–20
5657226	RPMT1204M0E41X4 X500	V104
5657237	C7792VXD12-A2.00Z3R	V19–20
5657271	SDMT120412EN41 X500	T133
5657681	RPHT1204M0E442X5 X500	V104
5657863	F3510T S	V9–12
5657877	D6018S S	V112
5658075	C7792VXD09WA1.00Z2R	V10, V13
5658170	C7792VXD09-A1.50Z5R	V12–13
5658171	C7792VXD12-A5.00Z11R	V19–20
5658324	RPHT1204M0E442X5 SP6519	V104
5658507	C7792VXP06CA.75Z3R6.1	V5–6
5658650	ZDET16M540ER721 GH1	T100
5659264	RPHT1204M0E442X4 SP6519	V105
5659355	SDMW120412TN SP6519	T133
5659561	RPHT1204M0E442X5 X700	V104
5659562	RPHT10T3M0E422X8 X700	V99
5659564	C7792VXE16CA1.50Z2R4	V25
5659603	ZDET16M525ER721 GH1	T100
5659736	C7792VXD12-6.30Z8R	V19–20
5659840	A7792VXD09SA1.0Z2R1.4 S	V9, V13
5659867	RPHT10T3M0E422X4 SP6519	V99
5659912	ZDET16M520FR721 GH1	T100
5659913	ZDET16M532FR721 GH1	T100
5659914	ZDET16M560FR721 GH1	T100
5659929	A7792VXD12SA1.25Z2R2 S	V17, V20
5659948	C7792VXD09CA1.25Z3R3	V11, V13
5660042	RPMW1204M0TX4 SP6519	V105
5660060	A7792VXP06SA.75Z2R1.4 S	V4, V6
5660351	RPHT1204M0E442X4 X500	V105
5660449	A7792VXD09SA1.25Z3R2 S	V9, V13
5660462	RPHT10T3M0E422X4 X500	V99
5660778	RPHT10T3M0E422X8 SP6519	V99
5661029	C7792VXE16-A3.00Z6R	V26–27
5661030	C7792VXE16-A5.00Z10R	V26–27
5661037	ZDET16M512FR721 GH1	T100
5661186	SDMT09T308EN41 SP6519	T130
5661212	C7792VXP06CA1.0Z4R6.1	V5–6
5661213	A7792VXP06SA.625Z2R1 S	V4, V6
5661214	A7792VXP06SA.75Z3R1.4	V4, V6
5661215	A7792VXP06SA1.0Z4R1.4 S	V4, V6
5665491	RPHT10T3M0E422X4 X700	V99
5665708	C7792VXD12-A3.00Z5R	V19–20
5665740	SDMT120412EN41 SP6519	T133
5665786	RPMW1204M0TX4 X500	V105
5665795	C7792VXD09-A2.00Z6R	V12–13
5665804	ZDET16M5PDFR721 GH1	T100
5665812	C7792VXE16-A2.50Z5R	V26–27
5665832	C7792VXD12CA1.2/1.5Z3	V18, V20
5665928	RPEX1204M0E701X4 X500	V104
5665949	ZDET16M508FR721 GH1	T100
5665950	ZDET16M540FR721 GH1	T100
5666016	RPHT10T3M0E421X4 X500	V99
5666067	C7792VXD09WA1.25Z3R	V10, V13
5666264	SDMT09T308EN41 MP91M	T130
5666376	ZDET16M516FR721 GH1	T100
5666394	RPMT10T3M0E41X4 MP91M	V100
5666415	C7792VXE16CA2.00Z3R4	V25, V27
5666519	RPHT10T3M0E422X8 X500	V99
5666596	C7792VXD12CA1.25Z2R3	V18, V20
5667132	RPMT10T3M0E41X4 SP6519	V100
5667399	RPMT1204M0E41X4 MP91M	V104
5667400	RPMW1204M0TX4 MP91M	V105
5667404	C7792VXD12-A2.00Z4R	V19–20
5667476	C7792VXD12-A5.00Z8R	V19–20
5667487	A7792VXD12SA1.5Z3R1.7 S	V17, V20
5667498	ZDET16M530FR721 GH1	T100
5667564	C7792VXD09CA1.00Z2R2	V11, V13
5667570	C7792VXE16-6.00Z12R	V26–27
5667588	C7792VXP06CA.62Z2R5.5	V5–6
5667809	C7792VXD12-A2.50Z4R	V19–20
5667832	C7792VXD09-A2.00Z5R	V12–13
5667833	C7792VXD12-A4.00Z6R S	V19–20
5667922	ZDET16M525FR721 GH1	T100
5667941	C7792VXE16-A4.00Z8R	V26–27
5667946	ZDET16M504FR721 GH1	T100
5667958	A7792VXP06SA1.0Z3R1.4 S	V4, V6
5668072	RPHT1204M0E442X4 X700	V105
5671362	#1/4-28X3/4SHCSA S	T98, V12, V98, V103
5671373	#3/4-16X1-3/4SHCSA S	V19, V26
5671374	#3/8-24X1SHCSA S	T98, V12, V19, V98, V103
5671375	#5/8-18X1-1/2SHCSA S	T131, V19, V26
5671599	#1/2-20X1-1/4SHCSA S	T98, T128, T131, V19, V26, V103
5671642	TB15	V12, V19, V97–98, V102–103
5671687	#1/2-20X1-1/4 LHCSA S	V19, V26
5672329	D6014T S	V112
5672332	FP2506T	V4–5
5672365	SB3230	T131
5672367	SB3413	T128
5672374	D4008T S	V97–98, V102–103
5672375	D4010T S	V17–19, V103, V111–112, V114
5672376	D5013T S	V111–112, V114
5672378	F4011T S	T131
5672381	T9 S	T127–128, T131
5672387	D4012T S	V19
5672404	FP3007T S	V111, V114
5672405	TP20	T96–99, V25–26
5672409	D4007T S	V97
5672410	NLW12SP	T131
5672412	SB3232	T131
5672414	FP3006T	V111, V114
5672415	TP7	V4–5
5672416	SB3621	T128
5672469	M-13-M8-CA.625-5.118 S	V32
5672470	M-18-M10-CA.750-4.331 S	V32
5672471	M-21-M12-CA1-9.094 S	V32
5672481	C5230VS12-A2.5Z4R3.70	T131
5672512	A5720VZ16SA1.00Z2R2	T96
5672521	A5720VZ16SA1.25Z3R2	T96
5672623	C7713VR12CA1.00Z2R2.0	V102–103
5672624	A7713VR12SA1.00Z2R1.4	V102–103
5672718	C5720VZ16CA1.0Z02R2.7	T97
5672719	A5720VZ16SA1.25Z02R2	T96
5672766	5720VZ16HA032Z3R75	T99
5672803	C7713VR10CA1.00Z3R2.0	V97–98
5672804	C7713VR10CA1.25Z4R2.7	V97–98
5672805	C7713VR10-A2.00Z7R	V98
5672808	C7713VR12-A2.00Z5R	V103
5672809	C7713VR12-A3.00Z8R	V103
5672810	A7713VR12SA1.25Z3R1.7	V102–103
5672833	M-13-M8-CA.625-6.693 S	V32
5672834	M-18-M10-CA.750-5.118 S	V32
5672835	M-21-M12-CA1-5.157 S	V32
5672836	M-29-M16-CA1.25-8.27 S	V32
5672838	C5505VX10WA1.25R3.00	V112
5672839	C5505VX12WA1.50R4.00	V112
5672840	C5505VX16WA2.00R4.00	V112
5672841	A5505VX10SA1.25R1.968	V111
5672846	C5505VX05CA.75/.62R1	V114
5672847	C5505VX06CA.75R1.7	V114
5672848	C5505VX08CA1.00R2.2	V114
5672871	C5720VZ16-A2.00Z04R	T98
5672872	C5720VZ16-A2.50Z05R	T98
5672885	C5720VZ16CA1.25Z3R3.0	T97
5672990	M-18-M10-CA.750-6.693 S	V32
5672991	M-21-M12-CA1-6.142 S	V32
5672992	M-29-M16-CA1.25-6.3 S	V32
5672993	M-29-M16-CA1.25-10.2 S	V32
5673041	C5230VS09CA2.0Z04R4.0	T127
5673042	C7713VR10-A2.50Z8R	V98
5673043	A7713VR10SA1.25Z4R1.7	V97–98
5673044	C7713VR12-A2.00Z4R	V103
5673045	C7713VR12-A2.00Z6R	V103
5673046	C7713VR12-A2.50Z7R	V103
5673110	C5505VX12WA1.50R6.00	V112
5673111	C5505VX16WA2.00R6.00 S	V112
5673142	C5505VX10CA1.25R2.2	V114
5673175	C5720VZ16-A2.50Z04R	T98
5673176	C5230VS09-A2.0Z4R2.0	T128
5673296	C5505VX06WA.750R2.00	V113
5673338	C5720VZ16-A3.00Z04R	T98
5673343	FP2507T	V4–5
5673344	TP15	V114
5673353	M-21-M12-CA1-7.126 S	V32
5673499	C7713VR12CA1.25Z3R2.7	V102–103
5673530	C5230VS09-A2.0Z04R3.1	T128
5673542	TP8	V111, V113–114
5673544	T20 S	T131, V111–112
5673546	T15 S	T127–128, V9–12, V17–19, V102–103, V111–112
5673548	DP5009A S	T96–99
5673549	C5720VZ16CA1.25Z2R3.0	T97
5673588	M-21-M12-CA1-8.110 S	V32
5673595	C5505VX08WA1.00R2.37	V112
5673597	C7713VR10-A1.50Z05R	V98
5673598	A7713VR12SA1.50Z5R1.7	V102–103
5673603	A5505VX06SA.750R1.377	V111
5673617	C5230VS12-A3.0Z5R4.33	T131
5673624	A5505VX08SA1.00R1.575	V111
5673629	5720VZ16HA040Z4R75	T99
5673633	C5505VX05CA.62R1.6	V114
5673704	M-13-M8-CA.625-3.543 S	V32
5673705	M-13-M8-CA.625-4.331 S	V32
5673706	M-29-M16-CA1.25-12.2 S	V32
5673709	C5505VX10WA1.25R4.00	V112
5673710	A5505VX05SA.625R1.00	V111
5673745	C5720VZ16-A3.00Z05R	T98
5673747	C5230VS12-A3.0Z5R2.56	T131
5673766	C7713VR12-A1.50Z5R	V103
5673767	A7713VR12SA1.50Z4R1.7	V102
5673786	C5505VX06CA1/.75R1.5	V114
5673796	DP5013T S	V25–26
5673797	C5230VS12-A2.5Z4R2.24	T131
5673799	C5720VZ16-A2.00Z03R	T98
5673826	C7713VR12-A1.50Z4R	V103
5673827	C7713VR12-A2.50Z6R	V103
5673899	F3508T S	T127–128, V9–11
5674437	RPHT1204M0E442X5 SC6525	V104
5674698	RPPT1204M0E432X5 SC6525	V106
5674780	RPHT1204M0E442X8 SC6525	V105
5674803	RPPT1204M0E432X5 X700	V106
5674959	RPPT1204M0E432X8 X500	V106
5675037	RPPT1204M0E432X5 SP6519	V106
5675038	RPPT1204M0E432X5 X500	V106
5675140	RPPT1204M0E432X8 SP6519	V106
5675237	ZDET16M530ER721 GH1	T100
5676726	RIR01E1306 KC6105	K56
5676727	RIR04E1312 KC6105	K56
5676728	RIQ06E1306 KC6105	K58
5676729	RIQ06R0400FB KT6225	K58
5676760	RIQ06E1300 KC6005	K58
5676761	RIQ06E1300 KC6105	K58
5676762	RIQ06E1312 KC6005	K58
5676763	RIQ06E1312 KC6105	K58
5676764	RIQ09E1300 KC6105	K58
5676765	RIQ09E1306 KC6105	K58
5676766	RIQ09E1312 KC6005	K58
5676767	RIQ09E1312 KC6105	K58
5676768	RIQ06EGR00 KC6105	K59
5676769	RIQ06EGR00 KC6305	K59
5676770	RIQ06EGR00 KC6005	K59
5676771	RIQ06EGR06 KC6005	K59
5676772	RIQ06EGR06 KC6105	K59
5676773	RIQ06EGR12 KC6005	K59
5676774	RIQ06EGR12 KC6105	K59
5676775	RIQ06EGR12 KC6305	K59
5676776	RIQ09EGR00 KC6105	K59
5676777	RIQ09EGR00 KC6305	K59
5676778	RIQ09EGR00 KC6005	K59
5676779	RIQ09EGR06 KC6005	K59
5676780	RIQ09EGR06 KC6105	K59
5676781	RIQ09EGR06 KC6305	K59
5676782	RIQ09EGR12 KC6005	K59
5676783	RIQ09EGR12 KC6105	K59
5676784	RIQ09EGR12 KC6305	K59
5676785	RIQ06EDR00 KC6105	K59
5676786	RIQ06EDR00 KC6305	K59
5676787	RIQ06EDR00 KC6005	K59
5676788	RIQ06EDR06 KC6005	K59
5676790	RIQ06EDR06 KC6105	K59
5676791	RIQ06EDR06 KC6305	K59
5676792	RIQ06EDR12 KC6005	K59
5676794	RIQ06EDR12 KC6105	K59
5676795	RIQ06EDR12 KC6305	K59
5676796	RIQ09EDR06 KC6005	K59
5676797	RIQ09EDR06 KC6105	K59
5676798	RIQ09EDR06 KC6305	K59
5676799	RIQ09EDR12 KC6005	K59
5676800	RIQ09EDR12 KC6105	K59
5676801	RIQ09EDR12 KC6305	K59
5681114	A7792VXP06SA1.25Z5R2 S	V4, V6
5681117	C7792VXP06CA1.25Z5R8	V5–6
5681118	C5720VZ16-A1.50Z03R	T98
5682154	ZDET16M550FR721 GH1	T100
5682563	RPEX1204M0F701X4 GH1	V104
5682757	TB20	V26
5682897	NLW-0.375 S	T128, T131
5684657	LNPU542SRGE KCPM40	T19
5684744	RNGN43TGN KYSP30	V150
5684745	RNGN43EGN KYSP30	V150
5684746	RNGN43TGN KYS30	V150
5684747	RNGN43EGN KYS30	V150
5685937	CNMG432MN KCPK05	B50
5687543	KSEM1938HPLM KC7320	H62
5689447	DFSP240R5WD32M	J30
5689448	DFSP250R5WD32M	J30–31
5689449	DFSP260R5WD32M	J30
5689500	DFSP265R5WD32M	J30
5689501	DFSP270R5WD32M	J30
5689502	DFSP280R5WD32M	J30
5689503	DFSP290R5WD32M	J30
5689504	DFSP300R5WD32M	J30
5689505	DFSP310R5WD32M	J30
5689506	DFSP320R5WD32M	J30–31
5689507	DFSP330R5WD32M	J30
5689508	DFSP340R5WD32M	J30
5689509	DFSP350R5WD32M	J30
5689510	DFSP360R5WD32M	J30
5689511	DFSP370R5WD32M	J30
5689512	DFSP375R5WD32M	J30
5689513	DFSP380R5WD32M	J30
5689514	DFSP390R5WD32M	J30
5689515	DFSP400R5WD32M	J30–31
5689516	DFSP410R5WD32M	J30
5689517	DFSP420R5WD32M	J30
5689518	DFSP430R5WD32M	J30–31
5689519	DFSP440R5WD32M	J30
5689530	DFSP450R5WD40M	J30
5689531	DFSP460R5WD40M	J30
5689532	DFSP470R5WD40M	J30
5689533	DFSP480R5WD40M	J30–31
5689534	DFSP490R5WD40M	J30

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5689535	DFSP500R5WD40M	J30
5689536	DFSP510R5WD40M	J30
5689537	DFSP140R2WD20M	J24
5689538	DFSP520R5WD40M	J30
5689539	DFSP145R2WD20M	J24
5689540	DFSP530R5WD40M	J30
5689541	DFSP150R2WD20M	J24
5689542	DFSP540R5WD40M	J30
5689543	DFSP155R2WD20M	J24
5689544	DFSP550R5WD50M	J30–31
5689545	DFSP160R2WD20M	J24
5689546	DFSP165R2WD32M	J24
5689548	DFSP170R2WD32M	J24–25
5689549	DFSP175R2WD32M	J24
5689550	DFSP180R2WD32M	J24
5689551	DFSP185R2WD32M	J24
5689552	DFSP190R2WD32M	J24
5689553	DFSP195R2WD32M	J24
5689554	DFSP200R2WD32M	J24
5689555	DFSP210R2WD32M	J24–25
5689556	DFSP220R2WD32M	J24
5689557	DFSP230R2WD32M	J24
5689602	DFSP0563R2SSF075	J32
5689603	DFSP0594R2SSF075	J32
5689604	DFSP0625R2SSF075	J32
5689605	DFSP0656R2SSF075	J32
5689606	DFSP0688R2SSF075	J32–33
5689607	DFSP0703R2SSF075	J32
5689608	DFSP0734R2SSF075	J32
5689609	DFSP0750R2SSF100	J32
5689620	DFSP0781R2SSF100	J32
5689621	DFSP0813R2SSF100	J32
5689622	DFSP0844R2SSF100	J32–33
5689623	DFSP0875R2SSF100	J32
5689624	DFSP0906R2SSF100	J32
5689625	DFSP0938R2SSF100	J32
5689626	DFSP0969R2SSF100	J32
5689627	DFSP0984R2SSF100	J32
5689630	DFSP140R3WD20M	J26
5689631	DFSP145R3WD20M	J26
5689632	DFSP150R3WD20M	J26
5689633	DFSP155R3WD20M	J26
5689634	DFSP160R3WD20M	J26
5689635	DFSP165R3WD32M	J26
5689636	DFSP170R3WD32M	J26–27
5689637	DFSP175R3WD32M	J26
5689638	DFSP180R3WD32M	J26
5689639	DFSP185R3WD32M	J26
5689640	DFSP190R3WD32M	J26
5689641	DFSP195R3WD32M	J26
5689642	DFSP200R3WD32M	J26
5689643	DFSP210R3WD32M	J26–27
5689644	DFSP220R3WD32M	J26
5689645	DFSP230R3WD32M	J26
5689646	DFSP0563R3SSF075	J34
5689647	DFSP0594R3SSF075	J34
5689648	DFSP0625R3SSF075	J34
5689649	DFSP0656R3SSF075	J34
5689670	DFSP0688R3SSF075	J34–35
5689671	DFSP0703R3SSF075	J34
5689672	DFSP0734R3SSF075	J34
5689673	DFSP0750R3SSF100	J34
5689674	DFSP0781R3SSF100	J34
5689675	DFSP0813R3SSF100	J34
5689676	DFSP0844R3SSF100	J34–35
5689677	DFSP0875R3SSF100	J34
5689678	DFSP0906R3SSF100	J34
5689679	DFSP0938R3SSF100	J34
5689680	DFSP0969R3SSF100	J34
5689681	DFSP0984R3SSF100	J34
5689684	DFSP175R4WD32M	J28
5689685	DFSP180R4WD32M	J28
5689686	DFSP185R4WD32M	J28
5689687	DFSP190R4WD32M	J28
5689688	DFSP195R4WD32M	J28
5689689	DFSP200R4WD32M	J28
5689690	DFSP210R4WD32M	J28–29
5689691	DFSP220R4WD32M	J28
5689692	DFSP230R4WD32M	J28
5689810	T672NC#02-56R2B-DA KSMN34	M20
5689811	T672NC#04-40R3B-DA KSMN34	M20
5689812	T672NC#05-40R3B-DA KSMN34	M20
5689813	T672NC#06-32R2B-DA KSMN34	M20
5689814	T672NC#08-32R2B-DA KSMN34	M20
5689815	T672NC#10-24R2B-DA KSMN34	M20
5689816	T672NF#10-32R2B-DA KSMN34	M20
5689817	T672NC02500-20R3B-DA KSMN34	M20
5689818	T672NC02500-20R2B-DA KSMN34	M20
5689819	T672NF02500-28R3B-DA KSMN34	M20
5689820	T672NF02500-28R2B-DA KSMN34	M20
5689821	T672NC03125-18R3B-DA KSMN34	M20
5689822	DFSP0750R4SSF100	J36
5689823	T672NC03125-18R2B-DA KSMN34	M20
5689824	T672NF03125-24R3B-DA KSMN34	M20
5689825	DFSP0781R4SSF100	J36
5689826	T672NF03125-24R2B-DA KSMN34	M20
5689827	DFSP0813R4SSF100	J36
5689828	T672NC03750-16R3B-DA KSMN34	M20
5689829	DFSP0844R4SSF100	J36–37
5689830	T672NC03750-16R2B-DA KSMN34	M20
5689831	DFSP0875R4SSF100	J36
5689832	T672NF03750-24R3B-DA KSMN34	M20
5689833	DFSP0906R4SSF100	J36
5689834	T672NF03750-24R2B-DA KSMN34	M20
5689835	DFSP0938R4SSF100	J36
5689836	T672NC04375-14R3B-DA KSMN34	M20
5689837	DFSP0969R4SSF100	J36
5689838	DFSP0984R4SSF100	J36
5689839	T672NC04375-14R2B-DA KSMN34	M20
5689840	T672NF04375-20R3B-DA KSMN34	M20
5689841	T672NF04375-20R2B-DA KSMN34	M20
5689842	T672NC05000-13R3B-DA KSMN34	M20
5689843	T672NC05000-13R2B-DA KSMN34	M20
5689844	T672NF05000-20R3B-DA KSMN34	M20
5689845	T672NF05000-20R2B-DA KSMN34	M20
5689846	T672M030X050R6H-DA KSMN34	M21
5689847	T672M035X060R6H-DA KSMN34	M21
5689848	T672M040X070R6H-DA KSMN34	M21
5689849	T672M050X080R6H-DA KSMN34	M21
5689850	T672M060X100R6H-DA KSMN34	M21
5689851	T672M070X100R6H-DA KSMN34	M21
5689854	T672MF080X100R6H-DA KSMN34	M21
5689855	T672M080X125R6H-DA KSMN34	M21
5689856	T672MF100X125R6H-DA KSMN34	M21
5689857	T672M100X150R6H-DA KSMN34	M21
5689858	T672MF120X125R6H-DA KSMN34	M21
5689859	T672MF120X150R6H-DA KSMN34	M21
5689860	T672M120X175R6H-DA KSMN34	M21
5689863	T682NC#02-56R2B-DA KSMN34	M69
5689864	T682NC#04-40R3B-DA KSMN34	M69
5689865	T682NC#05-40R3B-DA KSMN34	M69
5689866	T682NC#06-32R2B-DA KSMN34	M69
5689867	T682NC#08-32R2B-DA KSMN34	M69
5689869	T682NC#10-24R2B-DA KSMN34	M69
5689870	T682NF#10-32R2B-DA KSMN34	M69
5689871	T682NC02500-20R3B-DA KSMN34	M69
5689872	T682NC02500-20R2B-DA KSMN34	M69
5689873	T682NF02500-28R3B-DA KSMN34	M69
5689874	T682NF02500-28R2B-DA KSMN34	M69
5689876	T682NC03125-18R3B-DA KSMN34	M69
5689877	T682NC03125-18R2B-DA KSMN34	M69
5689878	T682NF03125-24R3B-DA KSMN34	M69
5689879	T682NF03125-24R2B-DA KSMN34	M69
5689880	T682NC03750-16R3B-DA KSMN34	M69
5689881	T682NC03750-16R2B-DA KSMN34	M69
5689882	T682NF03750-24R3B-DA KSMN34	M69
5689883	T682NF03750-24R2B-DA KSMN34	M69
5689884	T682NC04375-14R3B-DA KSMN34	M69
5689885	T682NC04375-14R2B-DA KSMN34	M69
5689886	T682NF04375-20R3B-DA KSMN34	M69
5689887	T682NF04375-20R2B-DA KSMN34	M69
5689888	T682NC05000-13R3B-DA KSMN34	M69
5689889	T682NC05000-13R2B-DA KSMN34	M69
5689890	T682NF05000-20R3B-DA KSMN34	M69
5689891	T682NF05000-20R2B-DA KSMN34	M69
5689892	T682M030X050R6H-DA KSMN34	M70
5689893	T682M035X060R6H-DA KSMN34	M70
5689894	T682M040X070R6H-DA KSMN34	M70
5689895	T682M050X080R6H-DA KSMN34	M70
5689896	T682M060X100R6H-DA KSMN34	M70
5689897	T682M070X100R6H-DA KSMN34	M70
5689898	T682MF080X100R6H-DA KSMN34	M70
5689899	T682M080X125R6H-DA KSMN34	M70
5689900	T682MF100X125R6H-DA KSMN34	M70
5689901	T682M100X150R6H-DA KSMN34	M70
5689902	T682MF120X125R6H-DA KSMN34	M70
5689903	T682MF120X150R6H-DA KSMN34	M70
5689904	T682M120X175R6H-DA KSMN34	M70
5689905	DFSP200R5WD32M	J30
5689906	DFSP210R5WD32M	J30–31
5689907	DFSP220R5WD32M	J30
5689908	DFSP230R5WD32M	J30
5689909	DFSP0813R5SSF100	J38
5689970	DFSP0844R5SSF100	J38–39
5689971	DFSP0875R5SSF100	J38
5689972	DFSP0906R5SSF100	J38
5689973	DFSP0938R5SSF100	J38
5689974	DFSP0969R5SSF100	J38
5689975	DFSP0984R5SSF100	J38
5689976	T686NC#02-56R2B-DA KSMN34	M71
5689977	T686NC#04-40R3B-DA KSMN34	M71
5689978	T686NC#06-32R2B-DA KSMN34	M71
5689979	T686NC#08-32R2B-DA KSMN34	M71
5689980	T686NC#10-24R2B-DA KSMN34	M71
5689981	T686NF#10-32R2B-DA KSMN34	M71
5689982	T686NC02500-20R3B-DA KSMN34	M71
5689983	T686NF02500-28R3B-DA KSMN34	M71
5689984	T686NC03125-18R3B-DA KSMN34	M71
5689985	T686NF03125-24R3B-DA KSMN34	M71
5689986	T686NC03750-16R3B-DA KSMN34	M71
5689987	T686NF03750-24R3B-DA KSMN34	M71
5689988	T686NC04375-14R3B-DA KSMN34	M71
5689989	T686NF04375-20R3B-DA KSMN34	M71
5689990	T686NC05000-13R3B-DA KSMN34	M71
5689991	T686NF05000-20R3B-DA KSMN34	M71
5689992	T686M030X050R6H-DA KSMN34	M72
5689993	T686M040X070R6H-DA KSMN34	M72
5689994	T686M050X080R6H-DA KSMN34	M72
5689995	T686M060X100R6H-DA KSMN34	M72
5689996	T686M080X125R6H-DA KSMN34	M72
5689997	T686M100X150R6H-DA KSMN34	M72
5689998	T686MF120X150R6H-DA KSMN34	M72
5691735	DFSP1000R3SSF100	J34
5691736	DFSP1000R3SSF125	J34
5691737	DFSP1000R3SSF150	J34–35
5691738	DFSP1031R3SSF125	J34
5691739	DFSP1063R3SSF125	J34
5691790	DFSP1094R3SSF125	J34
5691791	DFSP1125R3SSF125	J34
5691792	DFSP1156R3SSF125	J34
5691793	DFSP1188R3SSF125	J34
5691794	DFSP1219R3SSF125	J34
5691795	DFSP1250R3SSF125	J34
5691796	DFSP1281R3SSF125	J34–35
5691797	DFSP1313R3SSF125	J34
5691798	DFSP1313R3SSF150	J34
5691799	DFSP1375R3SSF125	J34
5691800	DFSP1375R3SSF150	J34
5691801	DFSP1438R3SSF125	J34
5691802	DFSP1469R3SSF125	J34
5691803	DFSP1500R3SSF125	J34
5691804	DFSP1500R3SSF150	J34
5691805	DFSP1563R3SSF150	J34–35
5691806	DFSP1625R3SSF125	J34
5691807	DFSP1625R3SSF150	J34
5691808	DFSP1656R3SSF150	J34
5691809	DFSP1688R3SSF150	J34–35
5691810	DFSP1750R3SSF150	J34
5691811	DFSP1813R3SSF150	J34
5691812	DFSP1875R3SSF150	J34–35
5691813	DFSP1938R3SSF150	J34
5691814	DFSP2000R3SSF150	J34
5691815	DFSP2000R3SSF200	J34
5691816	DFSP2125R3SSF150	J34
5691817	DFSP2125R3SSF200	J34–35
5691818	DFSP1000R2SSF100	J32
5691819	DFSP1000R2SSF125	J32
5691830	DFSP1000R2SSF150	J32–33
5691831	DFSP1031R2SSF125	J32
5691832	DFSP1063R2SSF125	J32
5691833	DFSP1094R2SSF125	J32
5691834	DFSP1125R2SSF125	J32
5691835	DFSP1156R2SSF125	J32
5691836	DFSP1188R2SSF125	J32
5691837	DFSP1219R2SSF125	J32
5691838	DFSP1250R2SSF125	J32–33
5691839	DFSP1313R2SSF125	J32
5691840	DFSP1313R2SSF150	J32
5691841	DFSP1375R2SSF125	J32
5691842	DFSP1375R2SSF150	J32
5691843	DFSP1438R2SSF125	J32
5691844	DFSP1469R2SSF125	J32
5691845	DFSP1500R2SSF125	J32
5691846	DFSP1500R2SSF150	J32
5691847	DFSP1563R2SSF125	J32
5691848	DFSP1563R2SSF150	J32–33
5691849	DFSP1625R2SSF125	J32
5691850	DFSP1625R2SSF150	J32
5691851	DFSP1656R2SSF150	J32
5691852	DFSP1688R2SSF150	J32–33
5691853	DFSP1750R2SSF150	J32
5691854	DFSP1813R2SSF150	J32
5691855	DFSP1875R2SSF150	J32–33
5691856	DFSP1938R2SSF150	J32
5691857	DFSP2000R2SSF150	J32
5691858	DFSP2000R2SSF200	J32
5691859	DFSP2125R2SSF150	J32
5691860	DFSP2125R2SSF200	J32–33
5691861	DFSP240R3WD32M	J26
5691862	DFSP250R3WD32M	J26–27
5691863	DFSP260R3WD32M	J26
5691864	DFSP265R3WD32M	J26
5691865	DFSP270R3WD32M	J26
5691866	DFSP280R3WD32M	J26
5691867	DFSP290R3WD32M	J26
5691868	DFSP300R3WD32M	J26
5691869	DFSP310R3WD32M	J26
5691870	DFSP320R3WD32M	J26–27
5691871	DFSP330R3WD32M	J26
5691872	DFSP340R3WD32M	J26
5691873	DFSP350R3WD32M	J26
5691874	DFSP360R3WD32M	J26
5691875	DFSP370R3WD32M	J26
5691876	DFSP375R3WD32M	J26
5691877	DFSP380R3WD32M	J26
5691878	DFSP390R3WD32M	J26
5691879	DFSP400R3WD32M	J26–27
5691880	DFSP410R3WD32M	J26
5691881	DFSP420R3WD32M	J27
5691882	DFSP430R3WD32M	J27
5691883	DFSP440R3WD32M	J27
5691884	DFSP450R3WD40M	J27
5691885	DFSP460R3WD40M	J27
5691886	DFSP470R3WD40M	J27
5691887	DFSP480R3WD40M	J27
5691888	DFSP490R3WD40M	J27
5691889	DFSP500R3WD40M	J27
5691897	DFSP1000R4SSF100	J36
5691898	DFSP1000R4SSF125	J36
5691899	DFSP1000R4SSF150	J36–37
5691900	DFSP505R3WD40M	J27
5691901	DFSP510R3WD40M	J27
5691902	DFSP520R3WD40M	J27
5691903	DFSP530R3WD40M	J27
5691904	DFSP540R3WD40M	J27
5691905	DFSP550R3WD50M	J27
5692150	DFSP1031R4SSF125	J36
5692151	DFSP1063R4SSF125	J36
5692152	DFSP1094R4SSF125	J36
5692153	DFSP1125R4SSF125	J36
5692154	DFSP1156R4SSF125	J36
5692156	DFSP1188R4SSF125	J36
5692157	DFSP1219R4SSF125	J36
5692158	DFSP1250R4SSF125	J36
5692159	DFSP1250R4SSF150	J36–37
5692200	DFSP1313R4SSF125	J36
5692201	DFSP1375R4SSF125	J36
5692202	DFSP1375R4SSF150	J36
5692203	DFSP1406R4SSF150	J36
5692204	DFSP1438R4SSF125	J36
5692205	DFSP1500R4SSF125	J36
5692206	DFSP1500R4SSF150	J36
5692208	DFSP1563R4SSF150	J36
5692209	DFSP1625R4SSF150	J36–37
5692210	DFSP1656R4SSF150	J36–37
5692211	DFSP1750R4SSF150	J36
5692212	DFSP1813R4SSF150	J36
5692213	DFSP1875R4SSF150	J36–37

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5692214	DFSP1938R4SSF150	J36
5692215	DFSP2000R4SSF150	J36
5692216	DFSP2000R4SSF200	J36
5692217	DFSP2125R4SSF150	J36
5692218	DFSP2125R4SSF200	J36–37
5692238	DFSP240R4WD32M	J28
5692239	DFSP250R4WD32M	J28–29
5692271	DFSP260R4WD32M	J28
5692272	DFSP265R4WD32M	J28
5692273	DFSP270R4WD32M	J28
5692274	DFSP280R4WD32M	J28
5692275	DFSP290R4WD32M	J28
5692277	DFSP300R4WD32M	J28
5692278	DFSP310R4WD32M	J28
5692279	DFSP320R4WD32M	J28–29
5692291	DFSP330R4WD32M	J28
5692292	DFSP340R4WD32M	J28
5692294	DFSP350R4WD32M	J28
5692295	DFSP360R4WD32M	J28
5692296	DFSP370R4WD32M	J28
5692298	DFSP375R4WD32M	J28
5692299	DFSP380R4WD32M	J28
5692300	DFSP390R4WD32M	J28
5692302	DFSP400R4WD32M	J28–29
5692303	DFSP410R4WD32M	J28
5692304	DFSP420R4WD32M	J29
5692305	DFSP430R4WD32M	J29
5692306	DFSP440R4WD32M	J29
5692307	DFSP450R4WD40M	J29
5692308	DFSP460R4WD40M	J29
5692309	DFSP470R4WD40M	J29
5692310	DFSP480R4WD40M	J29
5692311	DFSP490R4WD40M	J29
5692312	DFSP500R4WD40M	J29
5692313	DFSP510R4WD40M	J29
5692314	DFSP520R4WD40M	J29
5692315	DFSP530R4WD40M	J29
5692316	DFSP540R4WD40M	J29
5692317	DFSP550R4WD50M	J29
5692319	DFSP240R2WD32M	J24
5692320	DFSP250R2WD32M	J24–25
5692321	DFSP260R2WD32M	J24
5692322	DFSP265R2WD32M	J24
5692323	DFSP270R2WD32M	J24
5692324	DFSP280R2WD32M	J24
5692325	DFSP290R2WD32M	J24
5692326	DFSP300R2WD32M	J24
5692327	DFSP310R2WD32M	J24
5692329	DFSP320R2WD32M	J24–25
5692330	DFSP330R2WD32M	J24
5692331	DFSP340R2WD32M	J24
5692332	DFSP350R2WD32M	J24
5692333	DFSP360R2WD32M	J24
5692334	DFSP370R2WD32M	J24
5692335	DFSP375R2WD32M	J24
5692336	DFSP380R2WD32M	J24
5692337	DFSP390R2WD32M	J24
5692338	DFSP400R2WD32M	J24–25
5692339	DFSP410R2WD32M	J24
5692340	DFSP420R2WD32M	J25
5692341	DFSP430R2WD32M	J25
5692342	DFSP440R2WD32M	J25
5692343	DFSP450R2WD40M	J25
5692344	DFSP460R2WD40M	J25
5692345	DFSP470R2WD40M	J25
5692346	DFSP480R2WD40M	J25
5692347	DFSP490R2WD40M	J25
5692348	DFSP500R2WD40M	J25
5692349	DFSP505R2WD40M	J25
5692350	DFSP510R2WD40M	J25
5692351	DFSP520R2WD40M	J25
5692352	DFSP530R2WD40M	J25
5692353	DFSP540R2WD40M	J25
5692354	DFSP550R2WD50M	J25
5692355	DFSP1000R5SSF100	J38
5692356	DFSP1000R5SSF125	J38
5692357	DFSP1000R5SSF150	J38–39
5692358	DFSP1031R5SSF125	J38
5692390	DFSP1063R5SSF125	J38
5692391	DFSP1094R5SSF125	J38
5692392	DFSP1125R5SSF125	J38
5692393	DFSP1156R5SSF125	J38
5692394	DFSP1188R5SSF125	J38
5692395	DFSP1219R5SSF125	J38
5692396	DFSP1250R5SSF125	J38
5692397	DFSP1250R5SSF150	J38–39
5692398	DFSP1313R5SSF125	J38
5692399	DFSP1375R5SSF125	J38
5692400	DFSP1375R5SSF150	J38
5692401	DFSP1438R5SSF125	J38
5692402	DFSP1500R5SSF125	J38
5692403	DFSP1500R5SSF150	J38
5692404	DFSP1563R5SSF150	J38–39
5692405	DFSP1625R5SSF150	J38
5692406	DFSP1656R5SSF150	J38–39
5692407	DFSP1750R5SSF150	J38
5692408	DFSP1813R5SSF150	J38
5692409	DFSP1875R5SSF150	J38–39
5692420	DFSP1938R5SSF150	J38
5692421	DFSP2000R5SSF150	J38
5692422	DFSP2000R5SSF200	J38
5692423	DFSP2125R5SSF150	J38
5692424	DFSP2125R5SSF200	J38–39
5692727	SPGX050204HP KCU25	J103
5692728	SPGX050204MD KCU25	J103
5692729	SPGX050204HP KCU40	J103
5692800	SPGX050204MD KCU40	J103
5692801	SPGX050204HP KC7140	J103
5692802	SPGX050204MD KC7140	J103
5692803	DFTX20204HP KCU25	J101
5692804	DFTX20204MD KCU25	J101
5692805	DFTX20204HP KCU40	J101
5692806	DFTX20204MD KCU40	J101
5692807	DFTX20204HP KC7140	J101
5692808	DFTX20204MD KC7140	J101
5692809	SPHX060204R21 KCU25	J116
5692810	SPHX070304R21 KCU25	J116
5692811	SPHX090304R21 KCU25	J116
5692812	SPHX090308R21 KCU25	J116
5692813	SPHX120404R21 KCU25	J116
5694055	CCMT2151MF KCP25B	B191
5694056	CCMT2151UF KCP25B	B192
5694057	CCMT2152LF KCP25B	B191
5694058	CCMT3251MF KCP25B	B191
5694059	CCMT433MF KCP25B	B191
5694080	CNMG321MN KCP25B	B50
5694081	CNMG322MN KCP25B	B50
5694082	CNMG431MN KCP25B	B50
5694083	CNMG431RP KCP25B	B53
5694084	CNMG433MW KCP25B	B52
5694085	CNMG434MN KCP25B	B50
5694086	CNMG542MN KCP25B	B50
5694087	CNMG542RN KCP25B	B53
5694088	CNMG542RP KCP25B	B53
5694090	CNMG642MN KCP25B	B50
5694091	CNMG642RN KCP25B	B53
5694092	CNMG643RP KCP25B	B53
5694093	CNMG644RP KCP25B	B53
5694094	CNMG646RN KCP25B	B53
5694095	CNMP431K KCP25B	B57
5694096	CNMP432K KCP25B	B57
5694097	CPGM3252 KCP25B	B205
5694098	CPMT2152LF KCP25B	B207
5694100	CPMT2152MF KCP25B	B207
5694101	CPMT3251LF KCP25B	B207
5694102	DCMT2151LF KCP25B	B225
5694103	DCMT3251MF KCP25B	B226
5694104	DCMT431LF KCP25B	B225
5694105	DCMT432LF KCP25B	B225
5694106	DNMG331MN KCP25B	B81
5694107	DNMG332MN KCP25B	B81
5694108	DNMG332RP KCP25B	B84
5694109	DNMG333RP KCP25B	B84
5694120	DNMG431MN KCP25B	B81
5694121	DNMG432RP KCP25B	B84
5694122	DNMG441MN KCP25B	B81
5694123	DNMG442RN KCP25B	B83
5694125	DNMP431K KCP25B	B86
5694126	DNMP432K KCP25B	B86
5694127	DPMT2151LF KCP25B	B232
5694128	DPMT3251LF KCP25B	B232
5694157	RCGT0602M0RP KCP25B	B239
5694158	RCGT0803M0RP KCP25B	B239
5694170	RCMT1606M0RP KCP25B	B242
5694171	RCMX1003M0RP KCP25B	B242
5694172	SNMM856RW KCP25B	B107
5694175	CNMM866RW KCP25B	B56
5694176	TNMM666MR KCP25B	B128
5694202	170.370	J25, J27, J33, J35
5694627	RCMT1204M0RP KCP10B	B242
5694628	RCMX1003M0RP KCP10B	B242
5694629	SNMM856RH KCP10B	B106
5694740	SNMM866RH KCP10B	B106
5694866	CNMG431UN KCK15B	B54
5694867	CNMG542UN KCK15B	B54
5694868	CNMG543UN KCK15B	B54
5694871	CNMG643UN KCK15B	B54
5694872	DNMG333UN KCK15B	B84
5694873	DNMG432UN KCK15B	B84
5694874	DNMG442UN KCK15B	B84
5694875	DNMG443UN KCK15B	B84
5694876	SNMG432UN KCK15B	B106
5694877	SNMG543UN KCK15B	B106
5694882	VNMG332UN KCK15B	B148
5694883	WNMG433UN KCK15B	B162
5696853	TNMP331K KCP25B	B129
5696854	TNMP332K KCP25B	B129
5696855	TNMP432K KCP25B	B129
5696856	TPMT2151LF KCP25B	B268
5696857	TPMT3251LF KCP25B	B268
5696859	VBMT222LF KCP25B	B281
5696930	VNMG331MN KCP25B	B146
5696931	VNMG332RN KCP25B	B148
5696932	VNMG333RN KCP25B	B148
5696933	VNMG432RN KCP25B	B148
5696935	WNMG332MN KCP25B	B159
5696936	WNMG432MP KCP25B	B159
5696937	WPMT3252LF KCP25B	B288
5696938	CNMG646MN KCP25B	B50
5696939	SNMG642RN KCP25B	B105
5696940	CNMP432 KCP25B	B56
5696941	VNMG432LF KCP25B	B145
5696942	VNMG431LF KCP25B	B145
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5697011	CCMT432LF KCP10B	B191
5697012	CNMM543RP KCP10B	B56
5697013	CNMM544RM KCP10B	B55
5697014	CNMM644RH KCP10B	B55
5697015	CNMM644RP KCP10B	B56
5697016	CNMM646RH KCP10B	B55
5697017	CNMM646RW KCP10B	B56
5697018	CPMT2151LF KCP10B	B207
5697019	DCMT3251LF KCP10B	B225
5697020	DNMG332FN KCP10B	B79
5697021	DNMG431FN KCP10B	B79
5697022	DNMG432FF KCP10B	B79
5697023	DNMG433FN KCP10B	B79
5697027	SNMG432FN KCP10B	B101
5697029	TNMG331FN KCP10B	B123
5697030	TNMG332RP KCP10B	B127
5697031	TNMG433FN KCP10B	B123
5697032	TNMM432RP KCP10B	B129
5697034	TPMT18151LF KCP10B	B268
5697035	VNMG331FN KCP10B	B146
5697036	WNMG431FN KCP10B	B157
5697037	WNMG432FN KCP10B	B157
5697119	RCMT43 KCP10B	B240
5697160	SCMT432LF KCP10B	B246
5697161	SNMG432MN KCP10B	B102
5697163	SNMG544RP KCP10B	B105
5697164	SNMG643RN KCP10B	B105
5697165	SPMT3251UF KCP10B	B253
5697166	TCMT2151LF KCP10B	B257
5697167	TCMT3251LF KCP10B	B257
5697168	TCMT3252LF KCP10B	B257
5697169	TCMT432LF KCP10B	B257
5697170	TNMG331MN KCP10B	B124
5697171	TNMG332FF KCP10B	B123
5697172	TNMG332FW KCP10B	B124
5697173	TNMG332RN KCP10B	B126
5697174	TNMG333FW KCP10B	B124
5697175	TNMG333MW KCP10B	B126
5697176	TNMG432MN KCP10B	B124
5697177	TNMG432RN KCP10B	B126
5697178	TNMG432RP KCP10B	B127
5697179	TNMG433RN KCP10B	B126
5697180	TNMG543RN KCP10B	B126
5697181	TNMG666RN KCP10B	B126
5697183	TPMT2151LF KCP10B	B268
5697184	TPMT3251LF KCP10B	B268
5697185	VNMG331FF KCP10B	B146
5697186	VNMG331MN KCP10B	B146
5697187	VNMG332RN KCP10B	B148
5697188	VNMG432RN KCP10B	B148
5697189	VNMP331K KCP10B	B149
5697202	WNMG332MN KCP10B	B159
5697203	WNMG332RP KCP10B	B161
5697204	WNMG433FW KCP10B	B158
5697910	CCMT2151MF KCP10B	B191
5697912	CCMT3251MF KCP10B	B191
5697914	CCMT3252UF KCP10B	B192
5697917	CNMG322MN KCP10B	B50
5697919	CNMG431FW KCP10B	B49
5697921	CNMG431MN KCP10B	B50
5697923	CNMG432FW KCP10B	B49
5697925	CNMG433FW KCP10B	B49
5697927	CNMG433MW KCP10B	B52
5697929	CNMG434MN KCP10B	B50
5697931	CNMG542MN KCP10B	B50
5697933	CNMG542RN KCP10B	B53
5697935	CNMG544MN KCP10B	B50
5697937	CNMG642RN KCP10B	B53
5697939	CNMG643RP KCP10B	B53
5697941	CNMP431K KCP10B	B57
5697943	CNMP432K KCP10B	B57
5697945	CPGM3251 KCP10B	B205
5697947	CPGM3252 KCP10B	B205
5697949	CPMT3251LF KCP10B	B207
5697953	DCMT2151LF KCP10B	B225
5697956	DCMT3251MF KCP10B	B226
5697958	DCMT3252UF KCP10B	B226
5697960	DCMT3253LF KCP10B	B225
5697962	DNMG331MN KCP10B	B81
5697964	DNMG332FW KCP10B	B80
5697965	DNMG332MN KCP10B	B81
5697967	DNMG432MW KCP10B	B82
5697968	DNMG432RP KCP10B	B84
5697969	DNMG433CT KCP10B	B79
5697970	DNMG441MN KCP10B	B81
5697971	DNMG442MW KCP10B	B82
5697972	DNMG442RN KCP10B	B83
5697973	DNMG443MW KCP10B	B82
5697974	DNMG542RN KCP10B	B83
5697976	DNMG543RN KCP10B	B83
5697978	DNMP432K KCP10B	B86
5697979	DNMP433K KCP10B	B86
5697980	DNMP442K KCP10B	B86
5697981	DPMT2151LF KCP10B	B232
5697982	DPMT3251LF KCP10B	B232
5698082	RNMG54RN KCP25B	B97
5698083	RNMG64RN KCP25B	B97
5698084	SCMT432LF KCP25B	B246
5698085	SNMG431MN KCP25B	B102
5698086	SNMG432MN KCP25B	B102
5698088	SNMG434MN KCP25B	B102
5698089	SNMG544MN KCP25B	B102
5698110	SNMG544RN KCP25B	B105
5698111	SNMG643MN KCP25B	B102
5698112	SNMG643RN KCP25B	B105
5698113	SNMG643RP KCP25B	B105
5698116	SPMT3252MF KCP25B	B253
5698117	TCMT2151LF KCP25B	B257
5698118	TCMT2152LF KCP25B	B257
5698119	TCMT2152MF KCP25B	B258
5698120	TCMT3251LF KCP25B	B257
5698121	TCMT3252LF KCP25B	B257
5698122	TCMT3252MF KCP25B	B258
5698123	TCMT3253MF KCP25B	B258
5698124	TCMT432LF KCP25B	B257
5698125	TNMG331MN KCP25B	B124
5698126	TNMG332MW KCP25B	B126
5698127	TNMG332RN KCP25B	B126
5698128	TNMG431MN KCP25B	B124
5698129	TNMG432MN KCP25B	B124
5698130	TNMG432RN KCP25B	B126
5698131	TNMG432RP KCP25B	B127
5698133	TNMG433MN KCP25B	B124

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5698134	TNMG433RN KCP25B	B126
5698135	TNMG433RP KCP25B	B127
5698136	TNMG438RP KCP25B	B127
5698137	TNMG542RN KCP25B	B126
5698139	TNMG544RN KCP25B	B126
5698140	TNMG544RP KCP25B	B127
5698141	TNMG666RN KCP25B	B126
5698146	CCMT2151LF KCP25B	B191
5698147	CCMT431LF KCP25B	B191
5698148	CCMT432LF KCP25B	B191
5698149	CCMT433LF KCP25B	B191
5698160	CNMG432MP KCP25B	B51
5698161	CNMM432RM KCP25B	B55
5698162	CNMM432RP KCP25B	B56
5698163	CNMM544RM KCP25B	B55
5698164	CNMM546RM KCP25B	B55
5698165	CNMM643RM KCP25B	B55
5698166	CNMM643RP KCP25B	B56
5698167	CNMM644RH KCP25B	B55
5698168	CNMM646RW KCP25B	B56
5698169	CPMT2151LF KCP25B	B207
5698170	DCMT3251LF KCP25B	B225
5698171	DNMG331FN KCP25B	B79
5698172	DNMG432FN KCP25B	B79
5698173	DNMM433RM KCP25B	B85
5698174	DNMM442RM KCP25B	B85
5698175	DNMM443RM KCP25B	B85
5698176	DNMM443RP KCP25B	B85
5698178	SNMG644RN KCP25B	B105
5698180	SNMM544RM KCP25B	B107
5698181	SNMM643RH KCP25B	B106
5698182	SNMM643RM KCP25B	B107
5698183	SNMM644RH KCP25B	B106
5698185	SNMM646RH KCP25B	B106
5698186	SNMM646RP KCP25B	B107
5698187	TNMG331FN KCP25B	B123
5698188	TNMG332FN KCP25B	B123
5698189	TNMG332RP KCP25B	B127
5698193	TNMM332RM KCP25B	B128
5698194	TNMM433RM KCP25B	B128
5698195	TNMM434RM KCP25B	B128
5698196	TPMT18151LF KCP25B	B268
5698197	VNMG331FN KCP25B	B146
5698198	WNMG431FN KCP25B	B157
5698199	WNMG432FN KCP25B	B157
5698210	TNMM432RM KCP25B	B128
5698211	SNMM646RM KCP25B	B107
5698212	CNMM542RP KCP25B	B56
5698214	CCMT2151LF KCK15B	B191
5698215	CCMT3251LF KCK15B	B191
5698216	CCMT3252LF KCK15B	B191
5698217	CCMT3252MF KCK15B	B191
5698218	CCMT431LF KCK15B	B191
5698260	CCMT432MF KCK15B	B191
5698261	CNMA431 KCK15B	B47
5698262	CNMA432 KCK15B	B47
5698263	CNMA434 KCK15B	B47
5698265	CNMA643 KCK15B	B47
5698266	CNMA644 KCK15B	B47
5698268	CNMG432RP KCK15B	B53
5698269	CNMG433RP KCK15B	B53
5698270	CPMT2151LF KCK15B	B207
5698272	DCMT3252LF KCK15B	B225
5698277	RCMT1204M0 KCK15B	B240
5698278	SCMT3252LF KCK15B	B246
5698279	SNMA432 KCK15B	B100
5698280	SNMA433 KCK15B	B100
5698281	SNMA543 KCK15B	B100
5698284	TNMA332 KCK15B	B122
5698287	TNMA433 KCK15B	B122
5698288	TNMG331FN KCK15B	B123
5698289	TNMG332FN KCK15B	B123
5698300	VBMT331LF KCK15B	B281
5698301	VBMT332LF KCK15B	B281
5698302	VNMG331FN KCK15B	B146
5698305	WNMG332FN KCK15B	B157
5698306	WNMG432FN KCK15B	B157
5698307	WNMG432MW KCK15B	B160
5698743	CCMT2152LF KCK15B	B191
5698744	CCMT3251MF KCK15B	B191
5698747	CNMG432FW KCK15B	B49
5698770	CPMT3251LF KCK15B	B207
5698772	CPMT3252LF KCK15B	B207
5698773	CPMT3252MF KCK15B	B207
5698775	DCMT2151LF KCK15B	B225
5698777	DNMG432FW KCK15B	B80
5698778	DNMG442RP KCK15B	B84
5698781	SCMT3251LF KCK15B	B246
5698782	SCMT432LF KCK15B	B246
5698783	SCMT432MF KCK15B	B247
5698785	SCMT433MF KCK15B	B247
5698787	SPMT3251LF KCK15B	B252
5698788	SPMT3252LF KCK15B	B252
5698789	SPMT3252MF KCK15B	B253
5698791	TCMT2151LF KCK15B	B257
5698792	TCMT2152LF KCK15B	B257
5698793	TCMT3252LF KCK15B	B257
5698794	TCMT3252MF KCK15B	B258
5698796	TCMT432LF KCK15B	B257
5698799	TPMR221 KCK15B	B177
5698800	TPMR321 KCK15B	B177
5698801	TPMR322 KCK15B	B177
5698802	TPMT2151LF KCK15B	B268
5698804	TPMT3252LF KCK15B	B268
5698806	TPU222 KCK15B	B178
5698807	TPU432 KCK15B	B178
5698808	WNMG432RP KCK15B	B161
5699571	CNMG432MR KCM25B	B51
5699572	CNMG433MR KCM25B	B51
5699574	CNMG544MR KCM25B	B51
5699575	CNMG543MR KCM25B	B51
5699576	CNMG643MR KCM25B	B51
5699578	DNMG432MR KCM25B	B82
5699580	DNMG442MR KCM25B	B82
5699582	SNMG432MR KCM25B	B103
5699584	TNMG332MR KCM25B	B125
5699586	TNMG433MR KCM25B	B125
5699590	WNMG432MR KCM25B	B159
5699591	WNMG433MR KCM25B	B159
5700484	SCMT3252MF KCK15B	B247
5700485	WNMA433 KCK15B	B157
5700487	VNMA332 KCK15B	B145
5701293	MS2263	T4–7
5702495	M4D300L1505S100L175	T17
5702496	M4D400L1506S150L200	T17
5702497	M4D600L1508S200L238	T17
5702498	M4D600L1512S200L238	T17
5702499	M4D200L1504S075L175	T17
5702500	M4D500L1507S150L238	T17
5703876	T694NC#04-40RH2-A KSS29	M65
5703877	T694NC#08-32RH3-A KSS29	M65
5703878	T694NF#10-32RH3-A KSS29	M65
5703879	T694NC02500-20RH3-A KSS29	M65
5703930	T694NC#06-32RH3-A KSS29	M65
5703931	T694NF02500-28RH3-A KSS29	M65
5703932	T694NF04375-20RH3-A KSS29	M65
5703935	KCRA150RN4303C125L400	V148
5703936	KCRA200RN4304S075L175	V149
5703937	KCRA200RN4306S075L175	V149
5703938	KCRA250RN4306S075L175	V149
5703939	KCRA250RN4309S075L175	V149
5704050	KCRA300RN4308S100L200	V149
5704051	KCRA300RN4311S100L200	V149
5704848	T694NC#10-24RH3-A KSS29	M65
5704849	T694NC#10-24RH3-A KSP27	M65
5705100	T694NF#10-32RH3-A KSP27	M65
5705101	T694NC#04-40RH2-A KSP27	M65
5705102	T694NC#04-40RH3-A KSS29	M65
5705103	T694NC#05-40RH2-A KSS29	M65
5705104	T694NC#06-32RH3-A KSP27	M65
5705105	T694NC#06-32RH5-A KSS29	M65
5705106	T694NF#06-40RH2-A KSS29	M65
5705107	T694NC#08-32RH3-A KSP27	M65
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5705113	T694NF02500-28RH4-A KSS29	M65
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5705115	T694NC03750-16RH3-A KSP27	M65
5705116	T694NC03750-16RH5-A KSS29	M65
5705117	T694NF03750-24RH3-A KSS29	M65
5705118	T694NF03750-24RH3-A KSP27	M65
5705119	T694NF03750-24RH4-A KSS29	M65
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5705122	T694NF03125-24RH3-A KSS29	M65
5705123	T694NF03125-24RH3-A KSP27	M65
5705124	T694NF03125-24RH4-A KSS29	M65
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5705127	T694NF06250-18RH3-A KSS29	M65
5705128	T694NF06250-18RH3-A KSP27	M65
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5705130	T694NF04375-20RH3-A KSP27	M65
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5705389	T690NC#04-40RH2-A KSS29	M15
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5705413	T690NC05000-13RH3-A KSP27	M16
5705414	T690NF05000-20RH3-A KSS29	M16
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5705422	T690NF03750-24RH3-A KSP27	M16
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5705424	T690NC03125-18RH3-A KSP27	M15
5705425	T690NF03125-24RH3-A KSS29	M15
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5705428	T690NF04375-20RH3-A KSP27	M16
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5705434	T690M060X100RD5-A KSS29	M17
5705435	T690M080X125RD5-A KSP27	M17
5705436	T690M080X125RD5-A KSS29	M17
5705437	T692NC#10-24RH3-A KSS29	M62
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5705439	T692NC#04-40RH3-A KSS29	M62
5705470	T692NC#06-32RH2-A KSS29	M62
5705471	T692NC#06-32RH3-A KSS29	M62
5705472	T692NC#08-32RH3-A KSS29	M62
5705473	T692NC05000-13RH3-A KSS29	M63
5705474	T692NF05000-20RH3-A KSS29	M63
5705475	T692NF05000-20RH7-A KSS29	M63
5705476	T692NC02500-20RH3-A KSP27	M62
5705477	T692NF02500-28RH3-A KSP27	M62
5705478	T692NC03125-18RH3-A KSS29	M62
5705479	T692NC06250-11RH3-A KSS29	M63
5705480	T692NF04375-20RH3-A KSS29	M63
5705481	T692M100X150RD6-A KSP27	M64
5705482	T692M100X150RD6-A KSS29	M64
5705483	T692M120X175RD6-A KSS29	M64
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5705486	T692M050X080RD4-A KSP27	M64
5705487	T692M050X080RD4-A KSS29	M64
5705488	T692M060X100RD5-A KSS29	M64
5705489	T692M080X125RD5-A KSS29	M64
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5705675	T690NC#10-24RH3-A KSP27	M15
5705676	T690NC#10-24RH5-A KSS29	M15
5705677	T690NF#10-32RH2-A KSS29	M15
5705678	T690NF#10-32RH2-A KSP27	M15
5705679	T690NF#10-32RH3-A KSS29	M15
5705850	T690NF#10-32RH4-A KSP27	M15
5705851	T690NF#10-32RH5-A KSP27	M15
5705852	T690NF#10-32RH6-A KSS29	M15
5705853	T690NF#10-32RH6-A KSP27	M15
5705854	T690NC#02-56RH2-A KSP27	M15
5705855	T690NC#04-40RH2-A KSP27	M15
5705856	T690NC#04-40RH3-A KSS29	M15
5705857	T690NC#04-40RH3-A KSP27	M15
5705858	T690NC#04-40RH4-A KSS29	M15
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5705860	T690NF#04-48RH2-A KSP27	M15
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5705865	T690NC#06-32RH5-A KSP27	M15
5705866	T690NF#06-40RH2-A KSS29	M15
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5705868	T690NC#08-32RH4-A KSP27	M15
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5705873	T690NC05000-13RH7-A KSS29	M16
5705874	T690NF05000-20RH3-A KSP27	M16
5705875	T690NF05000-20RH5-A KSS29	M16
5705876	T690NF05000-20RH7-A KSS29	M16
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5705878	T690NC02500-20RH5-A KSS29	M15
5705879	T690NC02500-20RH5-A KSP27	M15
5705880	T690NF02500-28RH3-A KSS29	M15
5705881	T690NF02500-28RH4-A KSP27	M15
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5705883	T690NF02500-28RH5-A KSP27	M15
5705884	T690NF02500-28RH6-A KSS29	M15
5705885	T690NF02500-28RH6-A KSP27	M15
5705886	T690NF02500-28RH7-A KSS29	M15
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5705888	T690NC03750-16RH5-A KSS29	M16
5705889	T690NC03750-16RH5-A KSP27	M16
5705890	T690NC03750-16RH7-A KSS29	M16
5705891	T690NF03750-24RH4-A KSS29	M16
5705892	T690NF03750-24RH5-A KSS29	M16
5705893	T690NF03750-24RH6-A KSS29	M16
5705894	T690NF03750-24RH7-A KSS29	M16
5705895	T690NC03125-18RH5-A KSS29	M15
5705896	T690NC03125-18RH5-A KSP27	M15
5705897	T690NC03125-18RH7-A KSS29	M15
5705898	T690NF03125-24RH3-A KSP27	M15
5705899	T690NF03125-24RH4-A KSS29	M15
5705900	T690NF03125-24RH5-A KSS29	M16
5705901	T690NF03125-24RH6-A KSS29	M16
5705902	T690NF03125-24RH7-A KSS29	M16
5705903	T690NC06250-11RH3-A KSS29	M16
5705904	T690NC06250-11RH3-A KSP27	M16
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5705906	T690NC04375-14RH3-A KSP27	M16
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5705908	T690NF04375-20RH5-A KSS29	M16
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5705921	T690M100X150RD6-A KSS29	M17
5705922	T690M120X175RD6-A KSP27	M17
5705923	T690M025X045RD3-A KSP27	M17
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5705925	T690M035X060RD4-A KSP27	M17
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5705927	T690M040X070RD4-A KSP27	M17
5705928	T690M050X080RD4-A KSP27	M17
5705929	T690M050X080RD4-A KSS29	M17
5705930	T690MF080X100RD5-A KSS29	M17
5705931	T690MF080X100RD5-A KSP27	M17
5707893	TNMG332MP KCP25B	B124
5708200	T692NC#10-24RH5-A KSS29	M62
5708202	T692NC#10-24RH5-A KSP27	M62
5708204	T692NF#10-32RH2-A KSP27	M62
5708206	T692NF#10-32RH3-A KSS29	M62
5708208	T692NF#10-32RH3-A KSP27	M62
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5708212	T692NF#10-32RH7-A KSS29	M62
5708214	T692NC#02-56RH2-A KSS29	M62
5708216	T692NC#02-56RH2-A KSP27	M62
5708218	T692NC#03-48RH2-A KSS29	M62
5708220	T692NC#04-40RH2-A KSS29	M62
5708222	T692NC#04-40RH2-A KSP27	M62
5708224	T692NC#04-40RH3-A KSP27	M62
5708226	T692NF#04-40RH5-A KSS29	M62
5708228	T692NC#05-40RH2-A KSS29	M62
5708240	T692NC#06-32RH3-A KSP27	M62
5708242	T692NC#06-32RH5-A KSS29	M62

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5708244	T692NC#06-32RH7-A KSS29	M62
5708246	T692NC#06-32RH7-A KSP27	M62
5708248	T692NF#06-40RH2-A KSS29	M62
5708250	T692NC#08-32RH2-A KSS29	M62
5708252	T692NC#08-32RH3-A KSP27	M62
5708254	T692NC#08-32RH4-A KSS29	M62
5708256	T692NC#08-32RH4-A KSP27	M62
5708258	T692NC#08-32RH5-A KSS29	M62
5708260	T692NC#08-32RH5-A KSP27	M62
5708262	T692NC#08-32RH6-A KSS29	M62
5708264	T692NC05000-13RH3-A KSP27	M63
5708266	T692NC05000-13RH5-A KSS29	M63
5708268	T692NC05000-13RH5-A KSP27	M63
5708270	T692NF05000-20RH3-A KSP27	M63
5708272	T692NF05000-20RH5-A KSS29	M63
5708274	T692NF05000-20RH5-A KSP27	M63
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5708278	T692NC02500-20RH5-A KSS29	M62
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5708282	T692NF02500-28RH5-A KSS29	M62
5708284	T692NF02500-28RH6-A KSS29	M62
5708286	T692NF02500-28RH7-A KSS29	M62
5708288	T692NC07500-10RH3-A KSS29	M63
5708300	T692NC07500-10RH5-A KSS29	M63
5708302	T692NF07500-16RH3-A KSS29	M63
5708304	T692NF07500-16RH5-A KSS29	M63
5708306	T692NC03750-16RH3-A KSS29	M63
5708308	T692NC03750-16RH3-A KSP27	M63
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5708312	T692NC03750-16RH5-A KSP27	M63
5708314	T692NF03750-24RH3-A KSS29	M63
5708316	T692NF03750-24RH3-A KSP27	M63
5708318	T692NF03750-24RH4-A KSS29	M63
5708320	T692NF03750-24RH4-A KSP27	M63
5708322	T692NF03750-24RH5-A KSS29	M63
5708324	T692NF03750-24RH5-A KSP27	M63
5708326	T692NF03750-24RH6-A KSS29	M63
5708328	T692NC03125-18RH3-A KSP27	M62
5708330	T692NC03125-18RH5-A KSS29	M62
5708332	T692NC03125-18RH5-A KSP27	M62
5708334	T692NC03125-18RH7-A KSS29	M62
5708336	T692NF03125-24RH3-A KSS29	M62
5708338	T692NF03125-24RH3-A KSP27	M62
5708340	T692NF03125-24RH4-A KSS29	M63
5708342	T692NF03125-24RH5-A KSS29	M63
5708344	T692NF03125-24RH6-A KSS29	M63
5708346	T692NF03125-24RH7-A KSS29	M63
5708348	T692NC06250-11RH3-A KSP27	M63
5708360	T692NC06250-11RH5-A KSS29	M63
5708362	T692NC06250-11RH7-A KSS29	M63
5708363	T692NF06250-18RH3-A KSS29	M63
5708364	T692NC04375-14RH3-A KSS29	M63
5708365	T692NC04375-14RH5-A KSS29	M63
5708366	T692NF04375-20RH3-A KSP27	M63
5708367	T692NF04375-20RH5-A KSS29	M63
5708368	T692MF100X125RD5-A KSS29	M64
5708369	T692MF100X125RD5-A KSP27	M64
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5708381	T692M025X045RD3-A KSP27	M64
5708382	T692M030X050RD3-A KSP27	M64
5708383	T692M030X050RD3-A KSS29	M64
5708384	T692M040X070RD4-A KSP27	M64
5708385	T692M060X100RD5-A KSP27	M64
5708386	T692MF080X100RD5-A KSS29	M64
5708387	T692MF080X100RD5-A KSP27	M64
5708388	T692M080X125RD5-A KSP27	M64
5709281	DNMG432FN KCPK05	B79
5712913	KW1008	V148–149
5720114	B285D08000HPS KN15	G83
5824029	4BN0031IR008A KC633M	Q26
5824030	4BN0047IR012A KC633M	Q26
5824333	4CH0125IS025A KC633M	Q22
5824334	4CH0125IR050A KC633M	Q22
5824335	4CH0125IL075A KC633M	Q22
5824336	4CH0125IX100A KC633M	Q22
5824337	4CH0140IR056A KC633M	Q22
5824338	4CH0156IR056A KC633M	Q22
5824339	4CH0187IR062A KC633M	Q22
5824340	4CH0187IS075A KC633M	Q22
5824341	4CH0187IL075A KC633M	Q22
5824342	4CH0187IX112A KC633M	Q22
5824343	4CH0203IR062A KC633M	Q22
5824344	4CH0218IR043A KC633M	Q22
5824345	4CH0218IL062A KC633M	Q22
5824346	4CH0234IR075A KC633M	Q23
5824347	4CH0250IS050A KC633M	Q23
5824348	4CH0250IR075A KC633M	Q23
5824349	4CH0250IL112A KC633M	Q23
5824350	4CH0250IX150A KC633M	Q23
5824352	4CH0265IR075A KC633M	Q23
5824353	4CH0281IR075A KC633M	Q23
5824354	4CH0296IR081A KC633M	Q23
5824355	4CH0312IS050A KC633M	Q23
5824356	4CH0312IR081A KC633M	Q23
5824357	4CH0312IL112A KC633M	Q23
5824358	4CH0312IX162A KC633M	Q23
5824359	4CH0328IR100A KC633M	Q23
5824360	4CH0343IR100A KC633M	Q23
5824371	4CH0359IR100A KC633M	Q23
5824372	4CH0375IS062A KC633M	Q23
5824373	4CH0375IR100A KC633M	Q23
5824374	4CH0375IL112A KC633M	Q23
5824375	4CH0375IX175A KC633M	Q23
5824376	4CH0390IR100A KC633M	Q23
5824377	4CH0406IR100A KC633M	Q23
5824378	4CH0421IR100A KC633M	Q23
5824379	4CH0437IS100A KC633M	Q23
5824380	4CH0437IR100A KC633M	Q23
5824381	4CH0437IL200A KC633M	Q23
5824382	4CH0437IX300A KC633M	Q23
5824383	4CH0453IR100A KC633M	Q24
5824384	4CH0468IR100A KC633M	Q24
5824385	4CH0484IR100A KC633M	Q24
5824386	4CH0500IS062A KC633M	Q24
5824387	4CH0500IR100A KC633M	Q24
5824388	4CH0500IL200A KC633M	Q24
5824389	4CH0500IX300A KC633M	Q24
5824390	4CH0562IR075A KC633M	Q24
5824401	4CH0562IL125A KC633M	Q24
5824402	4CH0562IX225A KC633M	Q24
5824403	4CH0625IS075A KC633M	Q24
5824404	4CH0625IR125A KC633M	Q24
5824405	4CH0625IL225A KC633M	Q24
5824406	4CH0625IX400A KC633M	Q24
5824407	4CH0687IR137A KC633M	Q24
5824409	4CH0750IR150A KC633M	Q24
5824410	4CH0750IR225A KC633M	Q24
5824411	4CH0750IL300A KC633M	Q24
5824412	4CH0750IX400A KC633M	Q24
5824413	4CH0875IR150A KC633M	Q25
5824414	4CH0875IL225A KC633M	Q25
5824415	4CH1000IS150A KC633M	Q25
5824416	4CH1000IR225A KC633M	Q25
5824417	4CH1000IL300A KC633M	Q25
5824418	4CH1000IX400A KC633M	Q25
5824420	4CH0500IR100B KC633M	Q24
5824421	4CH0500IL200B KC633M	Q24
5824422	4CH0562IL125B KC633M	Q24
5824423	4CH0625IR125B KC633M	Q24
5824424	4CH0625IL225B KC633M	Q24
5824425	4CH0750IR150B KC633M	Q24
5824426	4CH0750IR225B KC633M	Q24
5824427	4CH0750IL300B KC633M	Q24
5824428	4CH0875IR150B KC633M	Q25
5824429	4CH0875IL225B KC633M	Q25
5824430	4CH1000IR225B KC633M	Q25
5824431	4CH1000IL300B KC633M	Q25
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5824503	4BN0094IR019A KC633M	Q26
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5824514	4BN0187IL062A KC633M	Q26
5824515	4BN0187IX100A KC633M	Q26
5824516	4BN0203IR062A KC633M	Q26
5824517	4BN0219IR062A KC633M	Q26
5824518	4BN0234IR075A KC633M	Q26
5824519	4BN0250IS050A KC633M	Q26
5824520	4BN0250IR075A KC633M	Q26
5824521	4BN0250IR112A KC633M	Q26
5824522	4BN0250IL150A KC633M	Q26
5824523	4BN0250IX150A KC633M	Q26
5824524	4BN0281IR075A KC633M	Q26
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5824526	4BN0312IR081A KC633M	Q26
5824527	4BN0312IL112A KC633M	Q26
5824528	4BN0312IX162A KC633M	Q26
5824529	4BN0344IR100A KC633M	Q26
5824530	4BN0375IS100A KC633M	Q26
5824531	4BN0375IR100A KC633M	Q27
5824532	4BN0375IL112A KC633M	Q27
5824533	4BN0375IX150A KC633M	Q27
5824534	4BN0437IR100A KC633M	Q27
5824535	4BN0500IS100A KC633M	Q27
5824536	4BN0500IR100A KC633M	Q27
5824537	4BN0500IX150A KC633M	Q27
5824538	4BN0500IR200A KC633M	Q27
5824539	4BN0500IL200A KC633M	Q27
5824540	4BN0500IX300A KC633M	Q27
5824551	4BN0562IR125A KC633M	Q27
5824552	4BN0625IR125A KC633M	Q27
5824553	4BN0625IL225A KC633M	Q27
5824554	4BN0750IR150A KC633M	Q27
5824555	4BN0750IL300A KC633M	Q27
5824556	4BN0875IR150A KC633M	Q27
5824557	4BN1000IR150A KC633M	Q27
5824558	4BN1000IL225A KC633M	Q27
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5826309	RIQ09EDR00 KC6305	K59
5826310	RIQ09R0506FT KT6315	K58
5874646	CNMM546RP KCP10B	B56
5876721	2BN0031IR007A KC633M	Q9
5876722	2BN0063IR018A KC633M	Q9
5876723	2BN0047IR018A KC633M	Q9
5876724	2BN0094IR018A KC633M	Q9
5876725	2BN0094IL037A KC633M	Q9
5876726	2BN0109IR037A KC633M	Q9
5876727	2BN0125IS025A KC633M	Q9
5876728	2BN0125IR050A KC633M	Q9
5876729	2BN0125IL075A KC633M	Q9
5876730	2BN0125IX075A KC633M	Q9
5876741	2BN0156IR031A KC633M	Q9
5876742	2BN0156IL056A KC633M	Q9
5876743	2BN0187IS031A KC633M	Q9
5876744	2BN0187IR062A KC633M	Q9
5876745	2BN0187IL075A KC633M	Q9
5876746	2BN0187IX100A KC633M	Q9
5876747	2BN0219IR062A KC633M	Q9
5876748	2BN0250IS050A KC633M	Q9
5876749	2BN0250IR075A KC633M	Q9
5876750	2BN0250IR112A KC633M	Q9
5876751	2BN0250IL150A KC633M	Q9
5876752	2BN0250IX150A KC633M	Q9
5876753	2BN0312IR081A KC633M	Q9
5876754	2BN0312IL112A KC633M	Q9
5876755	2BN0312IX150A KC633M	Q9
5876756	2BN0375IS062A KC633M	Q9
5876757	2BN0375IR087A KC633M	Q9
5876758	2BN0375IL112A KC633M	Q9
5876759	2BN0375IX300A KC633M	Q9
5876760	2BN0406IR100A KC633M	Q9
5876761	2BN0437IR100A KC633M	Q9
5876762	2BN0500IS062A KC633M	Q9
5876763	2BN0500IR100A KC633M	Q10
5876764	2BN0500IX150A KC633M	Q10
5876765	2BN0500IL200A KC633M	Q10
5876766	2BN0500IX300A KC633M	Q10
5876767	2BN0625IR125A KC633M	Q10
5876768	2BN0625IL225A KC633M	Q10
5876769	2BN0625IX300A KC633M	Q10
5876770	2BN0750IS100A KC633M	Q10
5876771	2BN0750IR150A KC633M	Q10
5876772	2BN0750IL200A KC633M	Q10
5876773	2BN0750IX300A KC633M	Q10
5876774	2BN0875IR150A KC633M	Q10
5876775	2BN1000IR150A KC633M	Q10
5876776	2BN1000IL300A KC633M	Q10
5876860	2CH0125IR025A KC633M	Q6
5876861	2CH0125IL050A KC633M	Q6
5876862	2CH0125IX075A KC633M	Q6
5876863	2CH0140IR056A KC633M	Q6
5876864	2CH0156IR031A KC633M	Q6
5876865	2CH0156IL056A KC633M	Q6
5876866	2CH0171IR062A KC633M	Q6
5876867	2CH0187IR062A KC633M	Q6
5876868	2CH0187IL075A KC633M	Q6
5876869	2CH0187IX112A KC633M	Q6
5876870	2CH0218IR043A KC633M	Q6
5876871	2CH0218IL062A KC633M	Q7
5876872	2CH0250IS050A KC633M	Q7
5876873	2CH0250IR075A KC633M	Q7
5876874	2CH0250IL112A KC633M	Q7
5876875	2CH0250IX150A KC633M	Q7
5876876	2CH0281IR075A KC633M	Q7
5876877	2CH0312IS050A KC633M	Q7
5876878	2CH0312IR081A KC633M	Q7
5876879	2CH0312IL112A KC633M	Q7
5876880	2CH0312IX162A KC633M	Q7
5876881	2CH0343IR100A KC633M	Q7
5876882	2CH0375IS062A KC633M	Q7
5876883	2CH0375IR100A KC633M	Q7
5876884	2CH0375IL112A KC633M	Q7
5876885	2CH0375IX175A KC633M	Q7
5876886	2CH0406IR100A KC633M	Q7
5876887	2CH0437IR062A KC633M	Q7
5876888	2CH0437IL100A KC633M	Q7
5876889	2CH0437IX200A KC633M	Q7
5876890	2CH0468IR100A KC633M	Q7
5876891	2CH0500IS062A KC633M	Q7
5876892	2CH0500IR100A KC633M	Q7
5876893	2CH0500IL200A KC633M	Q7
5876894	2CH0500IX300A KC633M	Q7
5876895	2CH0562IR075A KC633M	Q8
5876896	2CH0562IL125A KC633M	Q8
5876897	2CH0562IX225A KC633M	Q8
5876898	2CH0625IR075A KC633M	Q8
5876899	2CH0625IL125A KC633M	Q8
5876900	2CH0625IX225A KC633M	Q8
5876901	2CH0687IR137A KC633M	Q8
5876902	2CH0750IS100A KC633M	Q8
5876903	2CH0750IR150A KC633M	Q8
5876904	2CH0750IR225A KC633M	Q8
5876905	2CH0750IL300A KC633M	Q8
5876906	2CH0750IX400A KC633M	Q8
5876907	2CH0875IR150A KC633M	Q8
5876908	2CH0875IL225A KC633M	Q8
5876909	2CH1000IS150A KC633M	Q8
5876910	2CH1000IR225A KC633M	Q8
5876911	2CH1000IL300A KC633M	Q8
5876912	2CH1000IX400A KC633M	Q8
5876913	2CH0500IR100B KC633M	Q7
5876914	2CH0500IL200B KC633M	Q7
5876915	2CH0500IX300B KC633M	Q7
5876916	2CH0562IL125B KC633M	Q8
5876917	2CH0562IX225B KC633M	Q8
5876918	2CH0625IL125B KC633M	Q8
5876919	2CH0625IX225B KC633M	Q8
5876920	2CH0687IR137B KC633M	Q8
5876921	2CH0750IR225B KC633M	Q8
5876922	2CH0750IL300B KC633M	Q8
5876923	2CH0750IX400B KC633M	Q8
5876924	2CH0875IR150B KC633M	Q8
5876925	2CH0875IL225B KC633M	Q8
5876926	2CH1000IR225B KC633M	Q8
5876927	2CH1000IL300B KC633M	Q8
5876928	2CH1000IX400B KC633M	Q8
5878707	SPGX070304MD KCPK10	J103
5879813	XNGJ43ANENLD3W KCPM40	S12
5879814	LNPU863ANSLHD2 KCPM40	S95
5879816	LNPU863ANSLHD2 KCPK30	S95
5882266	CNMM866RH KCP30B	B55
5882267	CNMG433RN KCP30B	B53
5882268	CNMG432MN KCP30B	B50
5882269	CNMG432RN KCP30B	B53
5882270	WNMG432MN KCP30B	B159
5882322	CNMG432RP KCP30B	B53
5882323	TNMG332MN KCP30B	B124
5882324	DNMG432MN KCP30B	B81
5882580	DT3IP	W34–35
5882752	MS9000	W17–19, W24–25

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5882759	MS5006	W12, W19
5882760	MS5007	W12–13
5882761	MS5009	W18, W25
5882762	MS5008	W12, W18, W25
5882863	CNMG432MP KCM35B	B51
5882865	CNMG433RP KCM35B	B53
5882866	CNMG432RP KCM35B	B53
5882870	CNMG432UP KCM35B	B54
5882881	TNMG331MP KCM35B	B124
5882884	TNMG332MP KCM35B	B124
5882886	WNMG432RP KCM35B	B161
5882890	WNMG332MP KCM35B	B159
5882891	WNMG432MP KCM35B	B159
5882892	CNMG543RP KCM35B	B53
5882893	CNMG431MP KCM35B	B51
5882899	DNMG443RP KCM35B	B84
5882905	SNMG432MP KCM35B	B102
5882906	WNMG433RP KCM35B	B161
5882924	TCMT3252LF KCK05B	B257
5882925	WNMG432RP KCK05B	B161
5882934	CCMT2152LF KCK05B	B191
5882966	WNMG432UN KCK05B	B162
5882972	CNMG433UN KCK05B	B54
5882973	CNMA434 KCK05B	B47
5882976	TNMG333UN KCK05B	B127
5883000	CNMA431 KCK05B	B47
5883011	CNMG433FN KCK05B	B49
5883013	VNMG332UN KCK05B	B148
5883017	SCMT3252LF KCK05B	B246
5883018	SNMG433UN KCK05B	B106
5883022	CNMG434UN KCK05B	B54
5883025	WNMG431FN KCK05B	B157
5883443	RPPT1204M0SGDX5 KCM40	V106
5883444	RPPT1204M0SGDX8 KCM40	V106
5883445	RPHT1204M0SGDX5 KCM40	V105
5883446	RPHT1204M0SGDX8 KCM40	V105
5883520	CNMG432RP KCP05B	B53
5883573	DNMG442MN KCP05B	B81
5883576	CNMG432MN KCP05B	B50
5883577	DNMG432MN KCP05B	B81
5883581	TNMG332FN KCP05B	B123
5886541	CNMG433RP KCP40B	B53
5886542	CNMG543RP KCP40B	B53
5886544	SNMG643RP KCP40B	B105
5886545	TNMG432RP KCP40B	B127
5887614	SNMG644RP KCPK05	B105
5892306	CNMG432MR KCP30B	B51
5892307	DNMG432RN KCP30B	B83
5892308	SNMG432MN KCP30B	B102
5892411	CNMG433MN KCP30B	B50
5892412	WNMG432RN KCP30B	B161
5892413	CNMG543RN KCP30B	B53
5892414	TNMG543RN KCP30B	B126
5892415	SNMG433RN KCP30B	B105
5892416	TNMG432RN KCP30B	B126
5892417	CNMG643RN KCP30B	B53
5892418	CNMG644RN KCP30B	B53
5892419	TNMG666RN KCP30B	B126
5892420	WNMG433RN KCP30B	B161
5892432	CNMM432MR KCP30B	B54
5892433	CNMG433P KCP30B	B52
5892434	CNMG432P KCP30B	B52
5892435	SNMG644RN KCP30B	B105
5892436	DNMG432MR KCP30B	B82
5892437	WNMG432RP KCP30B	B161
5892438	TNMG544RN KCP30B	B126
5892441	CNMM543MR KCP30B	B54
5892442	SNMG432RN KCP30B	B105
5892443	TNMG433RN KCP30B	B126
5892445	SNMG643RN KCP30B	B105
5892446	WNMG333MN KCP30B	B159
5892447	DNMG433MN KCP30B	B81
5892450	SNMG544RN KCP30B	B105
5892453	CNMG433RP KCP30B	B53
5892558	DNMG443CT KCP05B	B79
5892560	VNMG332MN KCP05B	B146
5892655	CNMG432FW KCP05B	B49
5892659	DNMG332FF KCP05B	B79
5894139	RPPT10T3M0E432X5 X500	V100
5894140	RPPT10T3M0E432X5 SC6525	V100
5894201	RPPT10T3M0E432X5 SP6519	V100
5894202	RPPT10T3M0E432X5 X700	V100
5894258	SDET433PDSR8GB KC725M	T116, T123, U39
5894812	SDET436ENGB KC725M	T116, T123, U39
5894813	SDET436SNGB KC725M	T116, T123, U39
5894815	SDET434SNGB KC725M	T116, T123, U39
5897007	B967A16500 KC7315	G132
5898597	M1D300E1404S100L175	T53
5898598	M1D200E1403S075L157	T53
5903140	M1D150E1403C125L1000	T52
5903579	SNMG543MR KCPK05	B103
5904367	CNMG544MG KCP10B	B57
5904368	DNMG444MG KCP10B	B83
5904369	DNMG443MG KCP10B	B83
5910213	CPMT2152MF KCP10B	B207
5914006	SCW5E	C58
5914007	SCW8E	C58
5914680	NG3094RK KCP10B	C162
5914889	NGD4M400LK KCU25	C165
5939432	EVSML3232P0432C	C37
5939433	EVSML3232P0426C	C37
5939435	EVSML2525M0426C	C37
5939436	EVSML2525M0416C	C37
5939437	EVSML2525M0326C	C37
5939438	EVSML2525M0316C	C37
5939439	EVSML2020K0422C	C37
5939440	EVSML2020K0416C	C37
5939441	EVSML2020K0322C	C37
5939442	EVSML2020K0316C	C37
5939443	EVSMR3232P0432C	C36
5939444	EVSMR3232P0426C	C36
5939445	EVSMR2525M0426C	C36
5939446	EVSMR2525M0416C	C36
5939447	EVSMR2525M0326C	C36
5939448	EVSMR2525M0316C	C36
5939449	EVSMR2020K0422C	C36
5939450	EVSMR2020K0416C	C36
5939451	EVSMR2020K0322C	C36
5939452	EVSMR2020K0316C	C36
5939453	EVSML200432C	C35
5939454	EVSMR200426C	C34
5939455	EVSMR160426C	C34
5939456	EVSMR160416C	C34
5939457	EVSMR160326C	C34
5939458	EVSMR160316C	C34
5939459	EVSMR120422C	C34
5939460	EVSMR120416C	C34
5939461	EVSMR120322C	C34
5939462	EVSMR120316C	C34
5939463	EVSMR200432C	C34
5939464	EVSML120316C	C35
5939465	EVSML120322C	C35
5939466	EVSML160316C	C35
5939467	EVSML160326C	C35
5939468	EVSML120416C	C35
5939469	EVSML120422C	C35
5939470	EVSML160416C	C35
5939471	EVSML160426C	C35
5939472	EVSML200426C	C35
5940092	TPMR321 KCP25B	B177
5940093	TPMR221 KCP25B	B177
5941012	LNUX301940RRSM KCP10B	E58
5941056	EG0312M03U02GUP KCU25	C17
5941057	EG0312M03U04GUP KCU25	C17
5941058	EG0312M03U02GUN KCU25	C20
5941059	EG0312M03U04GUN KCU25	C20
5941071	EG0412M04U04GUP KCU25	C17
5941072	EG0412M04U04GUN KCU25	C20
5941073	EC030M03N00CF02 KCU25	C22
5941074	EC030M03L06CF02 KCU25	C22
5941075	EC030M03R06CF02 KCU25	C22
5941076	EC040M04N00CF02 KCU25	C22
5941077	EC040M04L06CF02 KCU25	C22
5941078	EC040M04R06CF02 KCU25	C22
5941079	EC030M03N00CM02 KCU25	C24
5941080	EC040M04N00CM02 KCU25	C24
5941081	EC030M03N00CR02 KCU25	C25
5941082	EC040M04N00CR02 KCU25	C25
5941083	EG0412M04U08GUP KCU25	C17
5941084	EG0412M04U08GUN KCU25	C20
5941085	EC030M03L06CM02 KCU25	C24
5941086	EC030M03R06CM02 KCU25	C24
5941087	EC040M04L06CM02 KCU25	C24
5941088	EC040M04R06CM02 KCU25	C24
5941089	EC030M03L06CR02 KCU25	C25
5941090	EC030M03R06CR02 KCU25	C25
5941091	EC040M04L06CR02 KCU25	C25
5941092	EC040M04R06CR02 KCU25	C25
5941093	EG130I03U05GUP KCU25	C18
5941094	EG130I03U1GUP KCU25	C18
5941095	EG130I03U05GUN KCU25	C21
5941096	EG130I03U1GUN KCU25	C21
5941097	EG192I04U1GUP KCU25	C18
5941098	EG192I04U1GUN KCU25	C21
5941099	EG192I04U2GUP KCU25	C18
5941100	EG192I04U2GUN KCU25	C21
5941101	EG0300M03P02GUP KCU25	C17
5941102	EG0300M03P04GUP KCU25	C17
5941103	EG0400M04P04GUP KCU25	C17
5941104	EG0400M04P08GUP KCU25	C17
5941105	EG0300M03P02GUP K313	C17
5941107	EG0300M03P04GUP K313	C17
5941108	EG0400M04P04GUP K313	C17
5941109	EG0400M04P08GUP K313	C17
5941110	EG125I03P05GUP KCU25	C18
5941111	EG125I03P1GUP KCU25	C18
5941112	EG187I04P1GUP KCU25	C18
5941113	EG187I04P2GUP KCU25	C18
5941114	EG125I03P05GUP K313	C18
5941115	EG125I03P1GUP K313	C18
5941116	EG187I04P1GUP K313	C18
5941117	EG187I04P2GUP K313	C18
5941706	EVBSN19G1B14	C58
5941707	EVBSN19G0220	C58
5941708	EVBSN26J1B15	C58
5941709	EVBSN26J0230	C58
5941710	EVBSN26M0230	C58
5941721	EVBSN26J0340	C58
5941722	EVBSN26M0340	C58
5941723	EVBSN26J0440	C58
5941724	EVBSN32M0250	C58
5941725	EVBSN32M0350	C58
5941726	EVBSN32M0450	C58
5945156	T624NC#06-32RH3-DA KSP27	M141
5945157	T624NC#06-32RH5-DA KSP27	M141
5945158	T624NC#08-32RH3-DA KSP27	M141
5945159	T624NC#08-32RH5-DA KSP27	M141
5945160	T624NC#10-24RH4-DA KSP27	M141
5945323	T625NC02500-20RH4-DA KSP27	M142
5945324	T625NC02500-20RH6-DA KSP27	M142
5945325	T625NF02500-28RH4-DA KSP27	M142
5945326	T625NF02500-28RH6-DA KSP27	M142
5945327	T625NC03125-18RH5-DA KSP27	M142
5945328	T625NC03125-18RH7-DA KSP27	M142
5945329	T625NF03125-24RH5-DA KSP27	M142
5945330	T625NF03125-24RH7-DA KSP27	M142
5945351	T624NC#10-24RH6-DA KSP27	M141
5945352	T624NF#10-32RH4-DA KSP27	M141
5945353	T624NF#10-32RH6-DA KSP27	M141
5945354	T624NC02500-20RH4-DA KSP27	M141
5945355	T624NC02500-20RH6-DA KSP27	M141
5945356	T624NF02500-28RH4-DA KSP27	M141
5945357	T624NF02500-28RH6-DA KSP27	M141
5945358	T624NC03125-18RH5-DA KSP27	M141
5945359	T624NC03125-18RH7-DA KSP27	M141
5945360	T624NF03125-24RH5-DA KSP27	M141
5945361	T624NF03125-24RH7-DA KSP27	M141
5945362	T624NC03750-16RH5-DA KSP27	M141
5945363	T624NC03750-16RH7-DA KSP27	M141
5945364	T624NF03750-24RH5-DA KSP27	M141
5945365	T624NF03750-24RH7-DA KSP27	M141
5945366	T624NC05000-13RH5-DA KSP27	M141
5945367	T624NC05000-13RH7-DA KSP27	M141
5945368	T624NF05000-20RH5-DA KSP27	M141
5945369	T624NF05000-20RH7-DA KSP27	M141
5945370	T624NC06250-11RH7-DA KSP27	M141
5945381	T624NC06250-11RH10-DA KSP27	M141
5945382	T624NF06250-18RH7-DA KSP27	M141
5945383	T624NF06250-18RH10-DA KSP27	M141
5945384	T624NC07500-10RH7-DA KSP27	M141
5945385	T624NC07500-10RH10-DA KSP27	M141
5945386	T624NF07500-16RH7-DA KSP27	M141
5945387	T624NF07500-16RH10-DA KSP27	M141
5945388	T624M030X050RD5-DA KSP27	M145
5945389	T624M040X070RD6-DA KSP27	M145
5945390	T624M060X100RD8-DA KSP27	M145
5945401	T624M080X125RD9-DA KSP27	M145
5945402	T624MF100X125RD9-DA KSP27	M145
5945403	T624M100X150RD10-DA KSP27	M145
5945404	T624MF120X125RD9-DA KSP27	M145
5945405	T624MF120X150RD9-DA KSP27	M145
5945406	T624M120X175RD11-DA KSP27	M145
5945407	T624MF140X150RD11-DA KSP27	M145
5945408	T624M140X200RD12-DA KSP27	M145
5945409	T624MF160X150RD11-DA KSP27	M145
5945410	T624M160X200RD12-DA KSP27	M145
5945451	T625NC03750-16RH5-DA KSP27	M142
5945452	T625NC03750-16RH7-DA KSP27	M142
5945453	T625NF03750-24RH5-DA KSP27	M142
5945454	T625NF03750-24RH7-DA KSP27	M142
5945455	T625NC05000-13RH5-DA KSP27	M142
5945456	T625NC05000-13RH7-DA KSP27	M142
5945457	T625NF05000-20RH5-DA KSP27	M142
5945458	T625NF05000-20RH7-DA KSP27	M142
5945459	T625NC06250-11RH7-DA KSP27	M142
5945460	T625NC06250-11RH10-DA KSP27	M142
5945461	T625NF06250-18RH7-DA KSP27	M142
5945462	T625NF06250-18RH10-DA KSP27	M142
5945463	T625NC07500-10RH7-DA KSP27	M142
5945464	T625NC07500-10RH10-DA KSP27	M142
5945465	T625NF07500-16RH7-DA KSP27	M142
5945466	T625NF07500-16RH10-DA KSP27	M142
5945467	T625M060X100RD8-DA KSP27	M146
5945468	T625M080X125RD9-DA KSP27	M146
5945469	T625MF100X125RD9-DA KSP27	M146
5945470	T625M100X150RD10-DA KSP27	M146
5945471	T625MF120X125RD9-DA KSP27	M146
5945472	T625MF120X150RD9-DA KSP27	M146
5945473	T625M120X175RD11-DA KSP27	M146
5945474	T625MF140X150RD11-DA KSP27	M146
5945475	T625M140X200RD12-DA KSP27	M146
5945476	T625MF160X150RD11-DA KSP27	M146
5945477	T625M160X200RD12-DA KSP27	M146
5945600	T627NC02500-20RH4-DA KSP27	M144
5945611	T627NC02500-20RH6-DA KSP27	M144
5945612	T627NF02500-28RH4-DA KSP27	M144
5945613	T627NF02500-28RH6-DA KSP27	M144
5945614	T627NC03125-18RH5-DA KSP27	M144
5945615	T627NC03125-18RH7-DA KSP27	M144
5945616	T627NF03125-24RH5-DA KSP27	M144
5945617	T627NF03125-24RH7-DA KSP27	M144
5945618	T627NC03750-16RH5-DA KSP27	M144
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5945633	T627NF07500-16RH10-DA KSP27	M144
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5945641	T627MF140X150RD11-DA KSP27	M148
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5946041	T626NC#03-48RH3-DA KSP27	M143
5946042	T626NC#04-40RH3-DA KSP27	M143
5946043	T626NC#04-40RH5-DA KSP27	M143
5946044	T626NC#06-32RH3-DA KSP27	M143
5946045	T626NC#06-32RH5-DA KSP27	M143

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5946046	T626NC#08-32RH3-DA KSP27	M143
5946047	T626NC#08-32RH5-DA KSP27	M143
5946048	T626NC#10-24RH4-DA KSP27	M143
5946050	T626NC#10-24RH6-DA KSP27	M143
5946051	T626NF#10-32RH4-DA KSP27	M143
5946052	T626NF#10-32RH6-DA KSP27	M143
5946053	T626NC02500-20RH4-DA KSP27	M143
5946054	T626NC02500-20RH6-DA KSP27	M143
5946055	T626NF02500-28RH4-DA KSP27	M143
5946056	T626NF02500-28RH6-DA KSP27	M143
5946057	T626NC03125-18RH5-DA KSP27	M143
5946058	T626NC03125-18RH7-DA KSP27	M143
5946059	T626NF03125-24RH5-DA KSP27	M143
5946060	T626NF03125-24RH7-DA KSP27	M143
5946061	T626NC03750-16RH5-DA KSP27	M143
5946062	T626NC03750-16RH7-DA KSP27	M143
5946063	T626NF03750-24RH5-DA KSP27	M143
5946064	T626NF03750-24RH7-DA KSP27	M143
5946065	T626NC05000-13RH5-DA KSP27	M143
5946066	T626NC05000-13RH7-DA KSP27	M143
5946067	T626NF05000-20RH5-DA KSP27	M143
5946068	T626NF05000-20RH7-DA KSP27	M143
5946069	T626NC06250-11RH7-DA KSP27	M143
5946070	T626NC06250-11RH10-DA KSP27	M143
5946071	T626NF06250-18RH7-DA KSP27	M143
5946072	T626NF06250-18RH10-DA KSP27	M143
5946073	T626NC07500-10RH7-DA KSP27	M143
5946074	T626NC07500-10RH10-DA KSP27	M143
5946075	T626NF07500-16RH7-DA KSP27	M143
5946076	T626NF07500-16RH10-DA KSP27	M143
5946077	T626M030X050RD5-DA KSP27	M147
5946078	T626M035X060RD6-DA KSP27	M147
5946079	T626M040X070RD6-DA KSP27	M147
5946080	T626M050X080RD7-DA KSP27	M147
5946081	T626M060X100RD8-DA KSP27	M147
5946082	T626M080X125RD9-DA KSP27	M147
5946083	T626MF100X125RD9-DA KSP27	M147
5946084	T626M100X150RD10-DA KSP27	M147
5946085	T626MF120X125RD9-DA KSP27	M147
5946086	T626MF120X150RD9-DA KSP27	M147
5946087	T626M120X175RD11-DA KSP27	M147
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5949384	KSEM4000FEGM KCPM45	H68
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5953956	EVSML2020K0216	C37
5953957	EVSMR2525M0226	C36
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5954219	EVSML3232P0532C	C37
5954220	EVSML3232P0526C	C37
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5954232	EVSML2525M0626C	C37
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5954245	EVSMR3232P0826C	C36
5954246	EVSMR3232P0632C	C36
5954247	EVSMR3232P0626C	C36
5954248	EVSMR3232P0532C	C36
5954249	EVSMR3232P0526C	C36
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5954258	EVSMR2020K0516C	C36
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5954284	A32SEVEMR0412M	C54
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5954286	A20QEVEML0307M	C55
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5954289	A32SEVEML0312M	C55
5954290	A32SEVEML0412M	C55
5954291	A10MEVEMR0307I	C52
5954292	A12QEVEMR0307I	C52
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5954294	A16REVEMR0410I	C52
5954295	A20SEVEMR0312I	C52
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5954300	A16REVEML0410I	C53
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5954302	A20SEVEML0412I	C53
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5955392	EVBSN26J1F17	C58
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5955416	EVM50R0532MC	C59
5955417	EVM65R0626MC	C59
5955418	EVM65R0826MC	C59
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5955424	EVM50L0216M	C60
5955426	EVSML200526C	C35
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5955447	EVSMR200532C	C34
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5955449	EVSMR200632C	C34
5955450	EVSMR240640C	C34
5955451	EVSMR200826C	C34
5955452	EVSMR200832C	C34
5955453	EVSMR240840C	C34
5955454	EVSMR201032C	C34
5955455	EVSMR241040C	C34
5955456	EVSML120516C	C35
5955457	EVSML120522C	C35
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5955460	EVSML160526C	C35
5955461	EVSML200532C	C35
5955462	EVSML120616C	C35
5955463	EVSML120622C	C35
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5955473	EVSML201032C	C35
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5955480	NG2M050RK KCU10	C162
5955491	NG2M275LK KCU10	C163
5955492	NGD2M150LK KCU10	C165
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5955496	NGD2M250RK KCU10	C165
5955498	NGD3M300LK KCU10	C165
5955499	NGD3M300RK KCU10	C165
5955500	NGD3M400LK KCU10	C165
5955502	NGD3M400RK KCU10	C165
5955505	NG2M050LK KCU25	C163
5955506	NG4M450LK KCU25	C164
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5955623	NGD3M200LK KCU25	C165
5955624	NGD3M200RK KCU25	C165
5955625	NGD3M250LK KCU25	C165
5955626	NGD3M250RK KCU25	C165
5955627	NGD3M300LK KCU25	C165
5955628	NGD3M300RK KCU25	C165
5955629	NGD3M400LK KCU25	C165
5955630	NGD3M400RK KCU25	C165
5955631	NGD4M500LK KCU25	C165
5955632	NGD4M550RK KCU25	C165
5956449	EVSMR160226	C34
5956450	EVSMR160216	C34
5956541	EVSMR120222	C34
5956542	EVSMR120216	C34
5956543	EVSML120216	C35
5956544	EVSML120222	C35
5956545	EVSML160216	C35
5956546	EVSML160226	C35
5964045	KSEM1250SPLM KCMS35	H64
5964046	KSEM0500SPL KCMS35	H64
5964047	KSEM1300SPLM KCMS35	H64
5964048	KSEM1350SPLM KCMS35	H64
5964049	KSEM1400SPLM KCMS35	H64
5964050	KSEM0563SPL KCMS35	H64
5964101	KSEM1450SPLM KCMS35	H64
5964102	KSEM1500SPLM KCMS35	H64
5964103	KSEM1550SPLM KCMS35	H64
5964104	KSEM0625SPL KCMS35	H64
5964105	KSEM1600SPLM KCMS35	H64
5964106	KSEM0634SPL KCMS35	H64
5964107	KSEM1615SPLM KCMS35	H64
5964108	KSEM0641SPL KCMS35	H64
5964109	KSEM1650SPLM KCMS35	H64
5964110	KSEM0656SPL KCMS35	H64
5964111	KSEM1700SPLM KCMS35	H64
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5964123	KSEM1920SPLM KCMS35	H64
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5964153	KSEM0813SPL KCMS35	H64
5964154	FSDE0750NFDYA KC643M	P100
5964155	KSEM2100SPLM KCMS35	H64
5964157	KSEM2150SPLM KCMS35	H64
5964158	FSDE0750NFDYB KC643M	P100
5964159	KSEM2200SPLM KCMS35	H64
5964161	KSEM0875SPL KCMS35	H64
5964162	FSDE0750NFDYC KC643M	P100
5964163	KSEM2300SPLM KCMS35	H64
5964165	KSEM0938SPL KCMS35	H64
5964166	FSDE0750NFDYE KC643M	P100
5964167	KSEM2400SPLM KCMS35	H64
5964169	KSEM2500SPLM KCMS35	H64
5964170	FSDE1000NJDYA KC643M	P100
5964171	KSEM1000SPL KCMS35	H64
5964173	KSEM1008SPL KCMS35	H64
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5964177	KSEM1011SPL KCMS35	H64
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5964179	KSEM1016SPL KCMS35	H64
5964181	KSEM2600SPLM KCMS35	H64
5964182	FSDE1000NJDYE KC643M	P100
5964183	KSEM1031SPL KCMS35	H64
5964184	KSEM2700SPLM KCMS35	H64
5964185	KSEM1125SPL KCMS35	H65
5964186	KSEM3000SPLM KCMS35	H65
5964187	KSEM1250SPL KCMS35	H65
5964188	KSEM3200SPLM KCMS35	H65
5964189	KSEM1514SPL KCMS35	H65
5964190	KSEM4000SPLM KCMS35	H65
5964865	RPPT1204M0E432X8 X700	V106
5967744	NG2031LK KCP10B	C163
5967745	NG2031RK KCP10B	C162
5967747	NG2047LK KCP10B	C163
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5967749	NG2062LK KCP10B	C163
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5967839	NG3062RK KCP10B	C162
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5967845	NG3125LK KCP10B	C164
5967846	NG3125RK KCP10B	C162
5967847	NG3156LK KCP10B	C164
5967848	NG3156RK KCP10B	C162
5967849	NG3189LK KCP10B	C164
5967850	NG3189RK KCP10B	C163
5967872	NG3M120LK KCP10B	C163

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5967873	NG3M120RK KCP10B	C162
5967874	NG3M225LK KCP10B	C164
5967875	NG3M225RK KCP10B	C162
5967876	NG3M275LK KCP10B	C164
5967877	NG3M275RK KCP10B	C162
5967878	NG3M300LK KCP10B	C164
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5968022	NG2M300RK KCP25B	C162
5968023	NG2M320RK KCP25B	C162
5968024	NG2M325LK KCP25B	C163
5968025	NG2M325RK KCP25B	C162
5968026	NG3047LK KCP25B	C163
5968027	NG3047RK KCP25B	C162
5968028	NG3062RK KCP25B	C162
5968029	NG3072LK KCP25B	C163
5968030	NG3072RK KCP25B	C162
5968031	NG3078LK KCP25B	C163
5968032	NG3078RK KCP25B	C162
5968034	NG3094LK KCP25B	C164
5968035	NG3125LK KCP25B	C164
5968036	NG3125RK KCP25B	C162
5968037	NG3156LK KCP25B	C164
5968038	NG3156RK KCP25B	C162
5968039	NG3189LK KCP25B	C164
5968040	NG3189RK KCP25B	C163
5968041	NG3M100LK KCP25B	C163
5968042	NG3M100RK KCP25B	C162
5968043	NG3M120LK KCP25B	C163
5968044	NG3M120RK KCP25B	C162
5968045	NG3M150LK KCP25B	C163
5968047	NG3M150RK KCP25B	C162
5968048	NG3M175LK KCP25B	C163
5968049	NG3M175RK KCP25B	C162
5968050	NG3M200LK KCP25B	C163
5968051	NG3M200RK KCP25B	C162
5968052	NG3M220LK KCP25B	C164
5968053	NG3M220RK KCP25B	C162
5968054	NG3M225LK KCP25B	C164
5968055	NG3M225RK KCP25B	C162
5968056	NG3M250LK KCP25B	C164
5968057	NG3M250RK KCP25B	C162
5968058	NG3M275LK KCP25B	C164
5968059	NG3M275RK KCP25B	C162
5968060	NG3M300LK KCP25B	C164
5968061	NG3M300RK KCP25B	C162
5968062	NG3M320LK KCP25B	C164
5968063	NG3M320RK KCP25B	C162
5968064	NG3M325LK KCP25B	C164
5968065	NG3M325RK KCP25B	C162
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5968069	NG3M400RK KCP25B	C162
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5968075	NG4125LK KCP25B	C164
5968076	NG4125RK KCP25B	C163
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5968086	NG4M400LK KCP25B	C164
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5968090	NG4M500LK KCP25B	C164
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5968103	NG4M550RK KCP25B	C163
5968104	NG4M600LK KCP25B	C164
5968105	NG4M600RK KCP25B	C163
5968391	KTIP0800FEGM KCPM45	H36
5968392	KTIP0850FEGM KCPM45	H36
5968393	KTIP0900FEGM KCPM45	H36
5968394	KTIP0950FEGM KCPM45	H36
5968395	KTIP1000FEGM KCPM45	H36
5968396	KTIP1050FEGM KCPM45	H36
5968397	KTIP1100FEGM KCPM45	H36
5968398	KTIP1150FEGM KCPM45	H36
5968399	KTIP1200FEGM KCPM45	H36
5968400	KTIP1250FEGM KCPM45	H36
5968401	KTIP05000FEG KCPM45	H36
5968402	KTIP1300FEGM KCPM45	H36
5968403	KTIP1350FEGM KCPM45	H36
5968404	KTIP1400FEGM KCPM45	H36
5968405	KTIP1450FEGM KCPM45	H36
5968406	KTIP1500FEGM KCPM45	H36
5968407	KTIP1550FEGM KCPM45	H36
5968408	KTIP1600FEGM KCPM45	H36
5968409	KTIP1650FEGM KCPM45	H36
5968410	KTIP1700FEGM KCPM45	H36
5968411	KTIP1750FEGM KCPM45	H36
5968412	KTIP1800FEGM KCPM45	H36
5968413	KTIP1850FEGM KCPM45	H36
5968414	KTIP1900FEGM KCPM45	H36
5968416	KTIP07500FEG KCPM45	H36
5968417	KTIP1950FEGM KCPM45	H36
5970222	UJBE0125J6CP KCSM15	P74
5970223	UJBE0125J6BP KCSM15	P74
5970224	UJBE0188J6BP KCSM15	P74
5970225	UJBE0188J6CP KCSM15	P74
5970226	UJBE0250J6CP KCSM15	P74
5970227	UJBE0250J6BP KCSM15	P74
5970228	UJBE0312J6CP KCSM15	P74
5970229	UJBE0312J6BP KCSM15	P74
5970230	UJBE0375J6CP KCSM15	P74
5970231	UJBE0375J6BP KCSM15	P74
5970232	UJBE0438J6CP KCSM15	P74
5970233	UJBE0438J6BP KCSM15	P74
5970234	RPPT1204M0E432X4 X700	V106
5970235	RPPT1204M0E432X4 X500	V106
5970237	RPPT1204M0E432X4 SC6525	V106
5971566	BMD800R6409S250L250HP	V88
5971567	BMD800R8608S250L250HP	V91
5972039	KTIP1394HPM KCP15	H33
5972205	M4KITD100Z02W100SGEKCPM40	T21
5972206	M4KITD125Z03W100SGEKCPM40	T21
5972207	M4KITD150Z04W125SGEKCPM40	T21
5972208	M4KITD150Z05S050SGEKCPM40	T21
5972209	M4KITD200Z05S075SGEKCPM40	T21
5972210	M4KITD200Z06S075SGEKCPM40	T21
5972351	M4KITD250Z06S075SGEKCPM40	T21
5972352	M4KITD300Z07S100SGEKCPM40	T21
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5972354	M4KITD100Z02C100EGEKC725M	T21
5972355	M4KITD125Z03C125EGEKC725M	T21
5972356	M4KITD150Z05S050EGEKC725M	T21
5972357	M4KITD200Z05S075EGEKC725M	T21
5972358	M4KITD200Z06S075EGEKC725M	T21
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5972372	M4KITD125Z03W100SGEMKC520M	T21
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5972375	M4KITD250Z07S075SGEMKC520M	T21
5972376	M4KITD300Z09S100SGEMKC520M	T21
5972377	M4KITD400Z11S150SGEMKC520M	T21
5975092	LNEU1235R03 4 KCPM40	U19
5975093	LNEU1250R04 KCPM40	U19
5975094	LNEU1250R08 KCPM40	U19
5976169	LNPU543SRGE KCPM40	T19
5976170	LNGU542SRGEM KCPM40	T19
5976671	LNGU543SRGEM KCPM40	T19
5976672	LNGU544SRGEM KCPM40	T19
5976676	MCC0800HP	V88, V91
5976678	SDSW66	V91
5977291	LNUX301960RRP KCP10B	E54
5977292	LNUX301960RRP KCP25B	E54
5977635	EVBSN26J0540	C58
5977636	EVBSN26J0640	C58
5977637	EVBSN32M0560	C58
5977638	EVBSN32M0660	C58
5977639	EVBSN32M0860	C58
5977640	EVBSN52X06120	C58
5977721	EVBSN52X08120	C58
5979010	EVM50R0316MC	C59
5979181	EVM50R0322MC	C59
5979182	EVM50R0416MC	C59
5979183	EVM50R0422MC	C59
5979184	EVM50R0432MC	C59
5979185	EVM50L0316MC	C60
5979186	EVM50L0322MC	C60
5979187	EVM50L0416MC	C60
5979188	EVM50L0422MC	C60
5979189	EVM50L0432MC	C60
5979190	KGMSR2525M50C	C66
5979191	KGMSL2525M50C	C66
5979192	KGMER2525M50C	C68
5979193	KGMEL2525M50C	C68
5979194	KGMSR1650C	C65
5979195	KGMSL1650C	C65
5979196	KGMER1650C	C67
5979197	KGMEL1650C	C67
5979198	EVM50R0426MC	C59
5979199	EVM50L0426MC	C60
5979200	EVM50R0312MC	C59
5979201	EVM50R0412MC	C59
5979202	EVM50L0312MC	C60
5979203	EVM50L0412MC	C60
5979745	KGMSR2525M65C	C66
5979746	KGMSR3232P50C	C66
5979747	KGMSR3232P65C	C66
5979748	KGMSL2525M65C	C66
5979749	KGMSL3232P50C	C66
5979750	KGMSL3232P65C	C66
5979765	KGMER2525M65C	C68
5979766	KGMER3232P50C	C68
5979767	KGMER3232P65C	C68
5979768	KGMEL2525M65C	C68
5979769	KGMEL3232P50C	C68
5979770	KGMEL3232P65C	C68
5979801	KGMSR1665C	C65
5979802	KGMSR2050C	C65
5979803	KGMSR2065C	C65
5979804	KGMSR2450C	C65
5979805	KGMSR2465C	C65
5979806	KGMSL1665C	C65
5979807	KGMSL2050C	C65
5979808	KGMSL2065C	C65
5979809	KGMSL2450C	C65
5979810	KGMSL2465C	C65
5979814	KGMER1665C	C67
5979815	KGMER2050C	C67
5979816	KGMER2065C	C67
5979817	KGMER2450C	C67
5979818	KGMER2465C	C67
5979819	KGMEL1665C	C67
5979820	KGMEL2050C	C67
5979852	WNMG432MG KCP10B	B158
5979853	WNMG432MG KCP25B	B158
5979881	KGMEL2065C	C67
5979882	KGMEL2450C	C67
5979883	KGMEL2465C	C67
5980138	EVSCTR2525M0316C	C40
5980139	EVSCTR1616K0216	C40
5980140	EVSCTR1616K0316C	C40
5980518	A12KEVEMR1F05M	C54
5980519	A12KEVEMR0205M	C54
5980520	A16MEVEMR1F07M	C54
5980621	A16MEVEMR0207M	C54
5980622	A20QEVEMR1F07M	C54
5980623	A20QEVEMR0207M	C54
5980624	A25REVEMR0210M	C54
5980625	A12KEVEML1F05M	C55
5980626	A12KEVEML0205M	C55
5980627	A16MEVEML1F07M	C55
5980628	A16MEVEML0207M	C55
5980629	A20QEVEML1F07M	C55
5980630	A20QEVEML0207M	C55
5980631	A25REVEML0210M	C55
5980635	A08KEVEMR1F05I	C52
5980636	A08KEVEMR0205I	C52
5980637	A10MEVEMR1F07I	C52
5980638	A10MEVEMR0207I	C52
5980639	A12QEVEMR1F07I	C52
5980640	A12QEVEMR0207I	C52
5980671	A16REVEMR0210I	C52
5980672	A08KEVEML1F05I	C53
5980673	A08KEVEML0205I	C53
5980674	A10MEVEML1F07I	C53
5980675	A10MEVEML0207I	C53
5980676	A12QEVEML1F07I	C53
5980677	A12QEVEML0207I	C53
5980678	A16REVEML0210I	C53
5980761	EVSCTR1616K0416C	C40
5980762	EVSCTR2020K0216	C40
5980763	EVSCTR2020K0316C	C40
5980764	EVSCTR2020K0326C	C40
5980765	EVSCTR2020K0416C	C40
5980766	EVSCTR2020K0426C	C40
5980767	EVSCTR2525M0216	C40
5980768	EVSCTR2525M0226	C40
5980769	EVSCTR2525M0326C	C40
5980770	EVSCTR2525M0426C	C40
5980771	EVSCTR2525M0432C	C40
5980772	EVSCTR2525M0526C	C40
5980773	EVSCTR2525M0532C	C40
5980774	EVSCTR3232P0432C	C40
5980775	EVSCTR3232P0540C	C40
5980776	EVSCTL2525M0316C	C41
5980777	EVSCTL1616K0216	C41
5980778	EVSCTL1616K0316C	C41
5980779	EVSCTL1616K0416C	C41
5980780	EVSCTL2020K0216	C41
5980801	EVSCTL2020K0316C	C41
5980802	EVSCTL2020K0326C	C41
5980803	EVSCTL2020K0416C	C41

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5980804	EVSCTL2020K0426C	C41
5980805	EVSCTL2525M0216	C41
5980806	EVSCTL2525M0226	C41
5980807	EVSCTL2525M0326C	C41
5980808	EVSCTL2525M0426C	C41
5980809	EVSCTL2525M0432C	C41
5980810	EVSCTL2525M0526C	C41
5980811	EVSCTL2525M0532C	C41
5980812	EVSCTL3232P0432C	C41
5980813	EVSCTL3232P0540C	C41
5980815	EVSCTR100216	C38
5980816	EVSCTR100316C	C38
5980817	EVSCTR100416C	C38
5980818	EVSCTR120216	C38
5980819	EVSCTR120316C	C38
5980820	EVSCTR120326C	C38
5980911	EVSCTR120416C	C38
5980912	EVSCTR120426C	C38
5980913	EVSCTR160216	C38
5980914	EVSCTR160226	C38
5980915	EVSCTR160316C	C38
5980916	EVSCTR160326C	C38
5980917	EVSCTR160426C	C38
5980918	EVSCTR160432C	C38
5980919	EVSCTR160526C	C38
5980920	EVSCTR160532C	C38
5980932	EVSCTR200432C	C38
5980933	EVSCTR200540C	C38
5980938	EVSCTL100216	C38
5980939	EVSCTL100316C	C39
5980940	EVSCTL100416C	C39
5981011	EVSCTL120216	C39
5981012	EVSCTL120316C	C39
5981013	EVSCTL120326C	C39
5981014	EVSCTL120416C	C39
5981015	EVSCTL120426C	C39
5981016	EVSCTL160216	C39
5981017	EVSCTL160226	C39
5981018	EVSCTL160316C	C39
5981019	EVSCTL160326C	C39
5981020	EVSCTL160426C	C39
5981021	EVSCTL160432C	C39
5981022	EVSCTL160526C	C39
5981023	EVSCTL160532C	C39
5981024	EVSCTL200432C	C39
5981025	EVSCTL200540C	C39
5981500	KSEM1650FEGM KCPM45	H67
5981571	KSEM1700FEGM KCPM45	H67
5981572	KSEM1750FEGM KCPM45	H67
5981573	KSEM1800FEGM KCPM45	H67
5981574	KSEM1850FEGM KCPM45	H67
5981575	KSEM1900FEGM KCPM45	H67
5981576	KSEM0750FEG KCPM45	H67
5981577	KSEM1950FEGM KCPM45	H67
5981578	KSEM2000FEGM KCPM45	H67
5981579	KSEM2050FEGM KCPM45	H67
5981580	KSEM2100FEGM KCPM45	H67
5981581	KSEM2150FEGM KCPM45	H67
5981582	KSEM2200FEGM KCPM45	H67
5981583	KSEM2250FEGM KCPM45	H67
5981584	KSEM2300FEGM KCPM45	H67
5981585	KSEM2350FEGM KCPM45	H67
5981586	KSEM2400FEGM KCPM45	H67
5981587	KSEM2450FEGM KCPM45	H67
5981588	KSEM2500FEGM KCPM45	H67
5981589	KSEM1000FEG KCPM45	H67
5981591	KSEM2550FEGM KCPM45	H67
5981592	KSEM2600FEGM KCPM45	H67
5981593	KSEM2650FEGM KCPM45	H67
5981594	KSEM2700FEGM KCPM45	H67
5981595	KSEM2750FEGM KCPM45	H67
5981596	KSEM2850FEGM KCPM45	H67
5981597	KSEM2900FEGM KCPM45	H67
5981598	KSEM2950FEGM KCPM45	H67
5981599	KSEM3000FEGM KCPM45	H67
5981600	KSEM3100FEGM KCPM45	H67
5981601	KSEM1250FEG KCPM45	H67
5981602	KSEM3200FEGM KCPM45	H67
5981603	KSEM3300FEGM KCPM45	H67
5981604	KSEM3400FEGM KCPM45	H67
5981605	KSEM3500FEGM KCPM45	H67
5981606	KSEM3600FEGM KCPM45	H68
5981607	KSEM3700FEGM KCPM45	H68
5981608	KSEM3800FEGM KCPM45	H68
5981609	KSEM1500FEG KCPM45	H68
5981610	KSEM3900FEGM KCPM45	H68
5982089	VBMT331MP KCP25B	B281
5984676	KSEM2670FEGM KCPM45	H67
5986819	KGIP0300N0189GD KCU45	H101
5987474	B286D03000HPS KN15	G82
5987475	B286D03100HPS KN15	G82
5987476	B286D03175HPS KN15	G82
5987477	B286D03200HPS KN15	G82
5987478	B286D03264HPS KN15	G82
5987479	B286D03300HPS KN15	G82
5987480	B286D03455HPS KN15	G82
5987531	B286D03500HPS KN15	G82
5987532	B286D03571HPS KN15	G82
5987533	B286D03700HPS KN15	G82
5987534	B286D03734HPS KN15	G82
5987535	B286D03900HPS KN15	G82
5987536	B286D03970HPS KN15	G82
5987537	B286D04000HPS KN15	G82
5987538	B286D04039HPS KN15	G82
5987539	B286D04100HPS KN15	G82
5987540	B286D04200HPS KN15	G82
5987551	B286D04400HPS KN15	G82
5987552	B286D04305HPS KN15	G82
5987553	B286D04500HPS KN15	G82
5987554	B286D04600HPS KN15	G82
5987555	B286D04700HPS KN15	G82
5987556	B286D04763HPS KN15	G82
5987557	B286D04800HPS KN15	G82
5987558	B286D04900HPS KN15	G82
5987559	B286D05000HPS KN15	G82
5987560	B286D05100HPS KN15	G82
5987561	B286D05106HPS KN15	G82
5987562	B286D05159HPS KN15	G82
5987563	B286D05200HPS KN15	G82
5987564	B286D05300HPS KN15	G82
5987565	B286D05400HPS KN15	G82
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5987571	B286D05791HPS KN15	G83
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5987573	B286D06200HPS KN15	G83
5987574	B286D06300HPS KN15	G83
5987575	B286D06350HPS KN15	G83
5987576	B286D06400HPS KN15	G83
5987577	B286D06500HPS KN15	G83
5987578	B286D06528HPS KN15	G83
5987579	B286D06600HPS KN15	G83
5987580	B286D06630HPS KN15	G83
5987581	B286D06700HPS KN15	G83
5987582	B286D06746HPS KN15	G83
5987583	B286D06800HPS KN15	G83
5987584	B286D06900HPS KN15	G83
5987585	B286D07000HPS KN15	G83
5987587	B286D07145HPS KN15	G83
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5987591	B286D07600HPS KN15	G83
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5987595	B286D08000HPS KN15	G83
5987596	B286D08334HPS KN15	G83
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5987608	B286D09400HPS KN15	G83
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5987613	B286D10000HPS KN15	G83
5987614	B286D10100HPS KN15	G83
5987615	B286D10200HPS KN15	G83
5987616	B286D10300HPS KN15	G83
5987617	B286D10320HPS KN15	G83
5987618	B286D10500HPS KN15	G83
5987619	B286D10600HPS KN15	G83
5987620	B286D10716HPS KN15	G84
5987631	B286D10800HPS KN15	G84
5987632	B286D11000HPS KN15	G84
5987633	B286D11100HPS KN15	G84
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5987637	B286D11400HPS KN15	G84
5987638	B286D11500HPS KN15	G84
5987639	B286D11509HPS KN15	G84
5987640	B286D11800HPS KN15	G84
5987641	B286D11908HPS KN15	G84
5987642	B286D12000HPS KN15	G84
5987643	B286D12304HPS KN15	G84
5987644	B286D12500HPS KN15	G84
5987645	B286D12600HPS KN15	G84
5987646	B286D12700HPS KN15	G84
5987647	B286D13000HPS KN15	G84
5987648	B286D13096HPS KN15	G84
5987649	B286D13100HPS KN15	G84
5987650	B286D13300HPS KN15	G84
5987651	B286D13400HPS KN15	G84
5987652	B286D13500HPS KN15	G84
5987653	B286D14000HPS KN15	G84
5987654	B286D14200HPS KN15	G84
5987655	B286D14288HPS KN15	G84
5987656	B286D14500HPS KN15	G84
5987657	B286D14684HPS KN15	G84
5987658	B286D15000HPS KN15	G84
5987659	B286D15083HPS KN15	G84
5987660	B286D15100HPS KN15	G84
5987661	B286D15300HPS KN15	G84
5987662	B286D15400HPS KN15	G84
5987663	B286D15875HPS KN15	G84
5987664	B286D16000HPS KN15	G84
5987665	B286D16500HPS KN15	G84
5987666	B286D16670HPS KN15	G84
5987667	B286D16800HPS KN15	G84
5987668	B286D16900HPS KN15	G84
5987669	B286D17000HPS KN15	G84
5987670	B286D17300HPS KN15	G84
5987671	B286D17463HPS KN15	G84
5987672	B286D17500HPS KN15	G84
5987673	B286D17859HPS KN15	G84
5987674	B286D18000HPS KN15	G84
5987675	B286D19000HPS KN15	G84
5987676	B286D19050HPS KN15	G84
5987677	B286D20000HPS KN15	G84
5987680	B284D03100HPS KN15	G82
5987751	B284D03264HPS KN15	G82
5987752	B284D03455HPS KN15	G82
5987753	B284D03700HPS KN15	G82
5987754	B284D03734HPS KN15	G82
5987755	B284D03900HPS KN15	G82
5987756	B284D04039HPS KN15	G82
5987757	B284D04100HPS KN15	G82
5987758	B284D04305HPS KN15	G82
5987759	B284D04400HPS KN15	G82
5987760	B284D04600HPS KN15	G82
5987761	B284D04700HPS KN15	G82
5987762	B284D04900HPS KN15	G82
5987763	B284D05106HPS KN15	G82
5987764	B284D05200HPS KN15	G82
5987765	B284D05300HPS KN15	G82
5987766	B284D05400HPS KN15	G82
5987767	B284D05410HPS KN15	G82
5987768	B284D05500HPS KN15	G82
5987769	B284D05791HPS KN15	G83
5987770	B284D06200HPS KN15	G83
5987771	B284D06300HPS KN15	G83
5987772	B284D06350HPS KN15	G83
5987773	B284D06528HPS KN15	G83
5987774	B284D06600HPS KN15	G83
5987775	B284D06630HPS KN15	G83
5987776	B284D06700HPS KN15	G83
5987777	B284D06900HPS KN15	G83
5987778	B284D07300HPS KN15	G83
5987779	B284D07600HPS KN15	G83
5987780	B284D07700HPS KN15	G83
5987781	B284D08400HPS KN15	G83
5987782	B284D08433HPS KN15	G83
5987783	B284D08700HPS KN15	G83
5987784	B284D08800HPS KN15	G83
5987785	B284D08900HPS KN15	G83
5987786	B284D09100HPS KN15	G83
5987787	B284D09300HPS KN15	G83
5987788	B284D09400HPS KN15	G83
5987789	B284D09900HPS KN15	G83
5987790	B284D10100HPS KN15	G83
5987791	B284D10300HPS KN15	G83
5987792	B284D10600HPS KN15	G83
5987793	B284D10800HPS KN15	G84
5987794	B284D11100HPS KN15	G84
5987795	B284D11200HPS KN15	G84
5987796	B284D11300HPS KN15	G84
5987797	B284D11400HPS KN15	G84
5987798	B284D11500HPS KN15	G84
5987799	B284D11509HPS KN15	G84
5987800	B284D11800HPS KN15	G84
5987801	B284D12304HPS KN15	G84
5987802	B284D12600HPS KN15	G84
5987803	B284D13000HPS KN15	G84
5987804	B284D13096HPS KN15	G84
5987805	B284D13100HPS KN15	G84
5987806	B284D13300HPS KN15	G84
5987807	B284D13400HPS KN15	G84
5987808	B284D13500HPS KN15	G84
5987809	B284D14200HPS KN15	G84
5987810	B284D14500HPS KN15	G84
5987821	B284D14684HPS KN15	G84
5987822	B284D15000HPS KN15	G84
5987823	B284D15083HPS KN15	G84
5987824	B284D15100HPS KN15	G84
5987825	B284D15300HPS KN15	G84
5987826	B284D15400HPS KN15	G84
5987827	B284D16000HPS KN15	G84
5987828	B284D16500HPS KN15	G84
5987829	B284D16670HPS KN15	G84
5987830	B284D16800HPS KN15	G84
5987831	B284D16900HPS KN15	G84
5987832	B284D17000HPS KN15	G84
5987833	B284D17300HPS KN15	G84
5987834	B284D17463HPS KN15	G84
5987835	B284D17859HPS KN15	G84
5987836	B284D17500HPS KN15	G84
5987837	B284D18000HPS KN15	G84
5987838	B284D19000HPS KN15	G84
5988771	EG0200M02P02GUP KCU25	C17
5988772	EG0600M06P04GUP KCU25	C17
5988773	EG0600M06P08GUP KCU25	C17
5988774	EG0500M05P04GUP KCU25	C17
5988775	EG0500M05P08GUP KCU25	C17
5988776	EG0700M06P08GUP KCU25	C17
5988777	EG0800M08P08GUP KCU25	C17
5988778	EG0800M08P12GUP KCU25	C17
5988779	EG1000M10P12GUP KCU25	C17
5988780	ER0300M03P00GUP KCU25	C19
5988781	ER0400M04P00GUP KCU25	C19
5988782	ER0500M05P00GUP KCU25	C19
5988783	ER0600M06P00GUP KCU25	C19
5988785	ER0800M08P00GUP KCU25	C19
5988787	EG094I02P05GUP KCU25	C18
5988788	EG250I06P1GUP KCU25	C18
5988789	EG250I06P2GUP KCU25	C18
5988790	EG312I08P3GUP KCU25	C18
5988811	EG063I1FP05GUP KCU25	C18
5988812	EG375I10P3GUP KCU25	C18
5988813	ER125I03P00GUP KCU25	C20
5988814	ER187I04P00GUP KCU25	C20
5988815	ER250I06P00GUP KCU25	C20
5988816	ER312I08P00GUP KCU25	C20
5988818	EG0200M02P02GUP K313	C17
5988833	ER0300M03P00GUP K313	C19
5988834	EG0600M06P04GUP K313	C17
5988835	EG0600M06P08GUP K313	C17
5988836	EG0500M05P04GUP K313	C17

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
5988837	EG0500M05P08GUP K313	C17
5988838	EG0700M06P08GUP K313	C17
5988839	EG0800M08P08GUP K313	C17
5988840	EG0800M08P12GUP K313	C17
5988851	EG1000M10P12GUP K313	C17
5988858	ER0400M04P00GUP K313	C19
5988859	ER0500M05P00GUP K313	C19
5988860	ER0600M06P00GUP K313	C19
5988861	ER0800M08P00GUP K313	C19
5988903	EG094I02P05GUP K313	C18
5988904	EG063I1FP05GUP K313	C18
5988905	ER125I03P00GUP K313	C20
5988961	EG250I06P1GUP K313	C18
5988962	EG250I06P2GUP K313	C18
5988963	EG312I08P3GUP K313	C18
5988964	EG375I10P3GUP K313	C18
5988965	ER187I04P00GUP K313	C20
5988966	ER250I06P00GUP K313	C20
5988967	ER312I08P00GUP K313	C20
5989962	CNMG432MG KCP25B	B57
5989963	CNMG433MG KCP25B	B57
5989965	CNMG432MG KCP10B	B57
5989966	CNMG433MG KCP10B	B57
5989967	CNMG434MG KCP10B	B57
5990785	B285D03100HPS KN15	G82
5990786	B285D03264HPS KN15	G82
5990787	B285D03455HPS KN15	G82
5990788	B285D03500HPS KN15	G82
5990789	B285D03571HPS KN15	G82
5990790	B285D03700HPS KN15	G82
5990911	B285D03734HPS KN15	G82
5990912	B285D03900HPS KN15	G82
5990913	B285D04039HPS KN15	G82
5990914	B285D04100HPS KN15	G82
5990915	B285D04305HPS KN15	G82
5990916	B285D04400HPS KN15	G82
5990917	B285D04600HPS KN15	G82
5990918	B285D04700HPS KN15	G82
5990919	B285D05106HPS KN15	G82
5990920	B285D05159HPS KN15	G82
5990931	B285D05300HPS KN15	G82
5990932	B285D05400HPS KN15	G82
5990933	B285D05410HPS KN15	G82
5990934	B285D05791HPS KN15	G83
5990935	B285D06200HPS KN15	G83
5990936	B285D06350HPS KN15	G83
5990937	B285D06528HPS KN15	G83
5990938	B285D06630HPS KN15	G83
5990939	B285D06746HPS KN15	G83
5990940	B285D06800HPS KN15	G83
5990941	B285D06900HPS KN15	G83
5990942	B285D07300HPS KN15	G83
5990943	B285D07400HPS KN15	G83
5990944	B285D07541HPS KN15	G83
5990945	B285D07600HPS KN15	G83
5990946	B285D08433HPS KN15	G83
5990947	B285D08700HPS KN15	G83
5990948	B285D08800HPS KN15	G83
5990949	B285D08900HPS KN15	G83
5990950	B285D09100HPS KN15	G83
5990951	B285D09129HPS KN15	G83
5990952	B285D09400HPS KN15	G83
5990953	B285D09900HPS KN15	G83
5990954	B285D09921HPS KN15	G83
5990955	B285D10100HPS KN15	G83
5990956	B285D10200HPS KN15	G83
5990957	B285D10300HPS KN15	G83
5990958	B285D10320HPS KN15	G83
5990959	B285D10600HPS KN15	G83
5990960	B285D10716HPS KN15	G84
5990971	B285D10800HPS KN15	G84
5990972	B285D11100HPS KN15	G84
5990973	B285D11200HPS KN15	G84
5990974	B285D11300HPS KN15	G84
5990975	B285D11400HPS KN15	G84
5990976	B285D11509HPS KN15	G84
5990977	B285D11800HPS KN15	G84
5990978	B285D11908HPS KN15	G84
5990979	B285D12304HPS KN15	G84
5990980	B285D12500HPS KN15	G84
5990981	B285D12600HPS KN15	G84
5990982	B285D12700HPS KN15	G84
5990983	B285D13000HPS KN15	G84
5990984	B285D13096HPS KN15	G84
5990985	B285D13100HPS KN15	G84
5990986	B285D13300HPS KN15	G84
5990987	B285D13400HPS KN15	G84
5990988	B285D13500HPS KN15	G84
5990989	B285D14200HPS KN15	G84
5990990	B285D14288HPS KN15	G84
5990991	B285D14684HPS KN15	G84
5990992	B285D15000HPS KN15	G84
5990993	B285D15083HPS KN15	G84
5990994	B285D15100HPS KN15	G84
5990995	B285D15300HPS KN15	G84
5990996	B285D15400HPS KN15	G84
5990997	B285D15875HPS KN15	G84
5990998	B285D16000HPS KN15	G84
5990999	B285D16500HPS KN15	G84
5991000	B285D16670HPS KN15	G84
5991001	B285D16800HPS KN15	G84
5991002	B285D16900HPS KN15	G84
5991003	B285D17000HPS KN15	G84
5991004	B285D17300HPS KN15	G84
5991005	B285D17463HPS KN15	G84
5991006	B285D17500HPS KN15	G84
5991007	B285D17859HPS KN15	G84
5991008	B285D19000HPS KN15	G84
5991009	B285D19050HPS KN15	G84
5991010	B285D20000HPS KN15	G84
5991410	KSEM2370HPGM KCPM45	H57
5999788	KM40TSKGMER50C	C70, C147
5999789	KM40TSKGMEL50C	C70, C147
5999790	KM40TSKGMSR50C	C69, C146
5999861	KM40TSKGMSL50C	C69, C146
5999862	KM50TSKGMER50C	C70, C147
5999863	KM50TSKGMEL50C	C70, C147
5999864	KM50TSKGMSR50C	C69, C146
5999865	KM50TSKGMSL50C	C69, C146
5999946	KM63TSKGMER50C	C70, C147
5999947	KM63TSKGMEL50C	C70, C147
5999948	KM63TSKGMSR50C	C69, C146
5999949	KM63TSKGMSL50C	C69, C146
5999950	KM63XMZKGMER50CY	C70, C147
5999971	KM63XMZKGMELF50CY	C70, C147
5999972	KM63XMZKGMSR50CY	C69, C146
5999973	KM63XMZKGMSLF50CY	C69, C146
6000012	KM80TSKGMER50C	C70, C147
6000013	KM80TSKGMEL50C	C70, C147
6000014	KM80TSKGMSR50C	C69, C146
6000015	KM80TSKGMSL50C	C69, C146
6000016	KM80ATCKGMER50C	C70, C147
6000017	KM80ATCKGMEL50C	C70, C147
6000018	KM80ATCKGMSR50C	C69, C146
6000019	KM80ATCKGMSL50C	C69, C146
6000026	PSC40KGMER50C	C73, C151
6000027	PSC40KGMEL50C	C73, C151
6000028	PSC40KGMSR50C	C72, C150
6000029	PSC40KGMSL50C	C72, C150
6000030	PSC50KGMER50C	C73, C151
6000151	PSC50KGMEL50C	C73, C151
6000152	PSC50KGMSR50C	C72, C150
6000153	PSC50KGMSL50C	C72, C150
6000159	PSC63KGMER50C	C73, C151
6000160	PSC63KGMEL50C	C73, C151
6000199	CNMU443MN KCP05B	B51
6000211	PSC63KGMSR50C	C72, C150
6000213	PSC63KGMSL50C	C72, C150
6000214	PSC80KGMER50C	C73, C151
6000215	PSC80KGMEL50C	C73, C151
6000216	PSC80KGMSR50C	C72, C150
6000217	PSC80KGMSL50C	C72, C150
6000404	KM4X63KGMER50C	C71, C149
6000405	KM4X63KGMEL50C	C71, C149
6000407	KM4X63KGMSR50C	C71, C148–149
6000408	KM4X63KGMSL50C	C71, C148–149
6000410	KM50TSKGMER65C	C70, C147
6000421	KM50TSKGMEL65C	C70, C147
6000422	KM50TSKGMSR65C	C69, C146
6000424	KM50TSKGMSL65C	C69, C146
6000425	KM63TSKGMER65C	C70, C147
6000430	KM63TSKGMEL65C	C70, C147
6000431	KM63TSKGMSR65C	C69, C146
6000433	KM63TSKGMSL65C	C69, C146
6000434	KM63XMZKGMER65CY	C70, C147
6000436	KM63XMZKGMELF65CY	C70, C147
6000462	PSC63KGMER65C	C73, C151
6000463	PSC63KGMEL65C	C73, C151
6000464	PSC63KGMSR65C	C72, C150
6000465	PSC63KGMSL65C	C72, C150
6000466	PSC80KGMER65C	C73, C151
6000467	PSC80KGMEL65C	C73, C151
6000468	PSC80KGMSR65C	C72, C150
6000469	PSC80KGMSL65C	C72, C150
6001036	ONGX645SNHB KCK15	S34
6001106	ONGX645ENLE KC514M	S33
6001107	ONGX645SNGP KC514M	S33
6001108	ONGX645SNGP KCK15	S33
6001231	LNGU541ERGEJ KC422M	T18
6001232	LNGU542ERGEJ KC422M	T18
6001233	LNPU545SRGE KC725M	T19
6001234	LNPU545SRGE KCPK30	T19
6001235	LNPU545SRGE KCK15	T19
6001236	LNPU545SRGE KCPM40	T19
6001237	LNPU545SRGE KC522M	T19
6001244	ONGX645SNHB KC514M	S34
6001245	ONGX645SNHB KCPK30	S34
6001247	ONGX645SNHB KCK20	S34
6001258	ONGX648SNHB KC514M	S34
6001259	ONGX648SNHB KCK15	S34
6001260	ONGX648SNHB KCK20	S34
6001316	ONGX64ANSNGP KC514M	S33
6001317	ONGX64ANSNGP KCK15	S33
6001321	ONPX642SNGP KCK15	S34
6001322	ONPX645SNHB KCK15	S34
6001323	ONGX642SNHB KC514M	S34
6001324	ONGX642SNHB KCK15	S34
6001979	MILL16E200Z050NO8W	S30
6001980	MILL16E250Z060NO8W	S30
6002121	MILL16E300Z100NO8W	S30
6002122	MILL16E400Z140NO8W	S30
6002123	MILL16E500Z180NO8W	S30
6002124	MILL16E600Z220NO8W	S30
6002125	MILL16E800Z280NO8W	S30
6003372	B269A14600HP KCP15	G64
6003373	B269A15200HP KCPK15	G64
6003401	B269A17600HP KCPK15	G64
6003402	B269A18600HP KCPK15	G64
6010729	XDPT090408ERD41 X500	V15
6010730	XDPT090408ERD41 SP6519	V15
6010771	XDPT090408ERD41 SC6525	V15
6010772	XDPT120508ERD41 X500	V22
6010773	XDPT120508ERD41 SP6519	V22
6010774	XDPT120508ERD41 SC6525	V22
6012527	EG0212M02U02GUN KCU10	C20
6012528	EG0251M02U02GUN KCU10	C20
6012529	EG0312M03U02GUN KCU10	C20
6012530	EG0312M03U04GUN KCU10	C20
6012651	EG063I1FU05GUN KCU10	C21
6012652	EG130I03U05GUN KCU10	C21
6012653	EG130I03U1GUN KCU10	C21
6012654	ER0312M03U00GUN KCU10	C21
6012655	ER130I03U00GUN KCU10	C22
6012656	EG0412M04U04GUN KCP10B	C20
6012657	EG0412M04U08GUN KCP10B	C20
6012658	EG192I04U1GUN KCP10B	C21
6012659	EG192I04U2GUN KCP10B	C21
6012660	EG255I06U1GUN KCP10B	C21
6012671	EG255I06U2GUN KCP10B	C21
6012672	EG0812M08U08GUN KCP10B	C20
6012673	EG0812M08U12GUN KCP10B	C20
6012674	EG0612M06U04GUN KCP10B	C20
6012675	EG317I08U3GUN KCP10B	C21
6012676	EG0512M05U04GUN KCP10B	C20
6012677	EG0512M05U08GUN KCP10B	C20
6012678	EG380I10U3GUN KCP10B	C21
6012679	EG1012M10U12GUN KCP10B	C20
6012680	ER0412M04U00GUN KCP10B	C21
6012681	ER192I04U00GUN KCP10B	C22
6012682	ER0512M05U00GUN KCP10B	C21
6012683	ER0612M06U00GUN KCP10B	C21
6012684	ER255I06U00GUN KCP10B	C22
6012685	ER317I08U00GUN KCP10B	C22
6012686	ER0812M08U00GUN KCP10B	C21
6012687	EG0200M02P02GUP KCU10	C17
6012688	EG0300M03P02GUP KCU10	C17
6012689	EG0300M03P04GUP KCU10	C17
6012690	EG0400M04P04GUP KCU10	C17
6012701	EG0400M04P08GUP KCU10	C17
6012702	EG0500M05P04GUP KCU10	C17
6012703	EG0500M05P08GUP KCU10	C17
6012704	EG0600M06P04GUP KCU10	C17
6012705	EG0600M06P08GUP KCU10	C17
6012706	EG063I1FP05GUP KCU10	C18
6012707	EG0700M06P08GUP KCU10	C17
6012708	EG0800M08P08GUP KCU10	C17
6012709	EG0800M08P12GUP KCU10	C17
6012710	EG094I02P05GUP KCU10	C18
6012711	EG1000M10P12GUP KCU10	C17
6012712	EG125I03P05GUP KCU10	C18
6012713	EG125I03P1GUP KCU10	C18
6012714	EG187I04P1GUP KCU10	C18
6012715	EG187I04P2GUP KCU10	C18
6012716	EG250I06P1GUP KCU10	C18
6012717	EG250I06P2GUP KCU10	C18
6012718	EG312I08P3GUP KCU10	C18
6012719	EG375I10P3GUP KCU10	C18
6012720	ER0300M03P00GUP KCU10	C19
6012721	ER0400M04P00GUP KCU10	C19
6012722	ER0500M05P00GUP KCU10	C19
6012723	ER0600M06P00GUP KCU10	C19
6012724	ER0800M08P00GUP KCU10	C19
6012725	ER125I03P00GUP KCU10	C20
6012726	ER187I04P00GUP KCU10	C20
6012727	ER250I06P00GUP KCU10	C20
6012728	ER312I08P00GUP KCU10	C20
6012729	EG0412M04U04GUP KCP10B	C17
6012730	EG0412M04U08GUP KCP10B	C17
6012741	EG192I04U1GUP KCP10B	C18
6012742	EG192I04U2GUP KCP10B	C18
6012743	EG255I06U1GUP KCP10B	C18
6012744	EG255I06U2GUP KCP10B	C18
6012745	EG0812M08U08GUP KCP10B	C17
6012746	EG0812M08U12GUP KCP10B	C17
6012747	EG0612M06U04GUP KCP10B	C17
6012748	EG0612M06U08GUP KCP10B	C17
6012749	EG317I08U3GUP KCP10B	C18
6012750	EG0512M05U04GUP KCP10B	C17
6012751	EG0512M05U08GUP KCP10B	C17
6012752	EG0712M06U08GUP KCP10B	C17
6012753	EG380I10U3GUP KCP10B	C18
6012754	EG1012M10U12GUP KCP10B	C17
6012755	ER0412M04U00GUP KCP10B	C19
6012756	ER192I04U00GUP KCP10B	C19
6012757	ER0512M05U00GUP KCP10B	C19
6012758	ER0612M06U00GUP KCP10B	C19
6012759	ER255I06U00GUP KCP10B	C19
6012760	ER317I08U00GUP KCP10B	C19
6012761	ER0812M08U00GUP KCP10B	C19
6012762	EG0312M03U04GUP KCP25B	C17
6012763	EG130I03U05GUP KCP25B	C18
6012764	EG130I03U1GUP KCP25B	C18
6012765	EG0212M02U02GUP KCP25B	C17
6012766	EG0251M02U02GUP KCP25B	C17
6012767	ER0312M03U00GUP KCP25B	C19
6012768	ER130I03U00GUP KCP25B	C19
6012898	EG0412M04U04GUN KCU10	C20
6012899	EG0412M04U08GUN KCU10	C20
6012900	EG0512M05U04GUN KCU10	C20
6012901	EG0512M05U08GUN KCU10	C20
6012902	EG0612M06U04GUN KCU10	C20
6012903	EG0612M06U08GUN KCU10	C20
6012904	EG0812M08U08GUN KCU10	C20
6012905	EG0812M08U12GUN KCU10	C20
6012906	EG1012M10U12GUN KCU10	C20
6012907	EG192I04U1GUN KCU10	C21
6012908	EG192I04U2GUN KCU10	C21
6012909	EG255I06U1GUN KCU10	C21
6012910	EG255I06U2GUN KCU10	C21
6012911	EG317I08U3GUN KCU10	C21
6012913	EG380I10U3GUN KCU10	C21
6012914	ER0412M04U00GUN KCU10	C21
6012915	ER0512M05U00GUN KCU10	C21
6012916	ER0612M06U00GUN KCU10	C21
6012917	ER0812M08U00GUN KCU10	C21
6012918	ER192I04U00GUN KCU10	C22
6012919	ER255I06U00GUN KCU10	C22
6012920	ER317I08U00GUN KCU10	C22

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6012944	EG0412M04U04GUP KCU10	C17
6012945	EG0412M04U08GUP KCU10	C17
6012946	EG0512M05U04GUP KCU10	C17
6012947	EG0512M05U08GUP KCU10	C17
6012948	EG0612M06U04GUP KCU10	C17
6012949	EG0612M06U08GUP KCU10	C17
6012950	EG0712M06U08GUP KCU10	C17
6012961	EG0812M08U08GUP KCU10	C17
6012962	EG0812M08U12GUP KCU10	C17
6012963	EG1012M10U12GUP KCU10	C17
6012964	EG192I04U1GUP KCU10	C18
6012965	EG192I04U2GUP KCU10	C18
6012966	EG255I06U1GUP KCU10	C18
6012967	EG255I06U2GUP KCU10	C18
6012968	EG317I08U3GUP KCU10	C18
6012969	EG380I10U3GUP KCU10	C18
6012970	ER0412M04U00GUP KCU10	C19
6012971	ER0512M05U00GUP KCU10	C19
6012972	ER0612M06U00GUP KCU10	C19
6012973	ER0812M08U00GUP KCU10	C19
6012974	ER192I04U00GUP KCU10	C19
6012975	ER255I06U00GUP KCU10	C19
6012976	ER317I08U00GUP KCU10	C19
6013031	EG0212M02U02GUP KCU10	C17
6013032	EG0251M02U02GUP KCU10	C17
6013033	EG0312M03U02GUP KCU10	C17
6013034	EG0312M03U04GUP KCU10	C17
6013035	EG130I03U05GUP KCU10	C18
6013036	EG130I03U1GUP KCU10	C18
6013037	ER0312M03U00GUP KCU10	C19
6013038	ER130I03U00GUP KCU10	C19
6013040	EG0312M03U02GUN KCP10B	C20
6013061	EG0312M03U04GUN KCP10B	C20
6013062	EG130I03U05GUN KCP10B	C21
6013063	EG130I03U1GUN KCP10B	C21
6013064	EG0212M02U02GUN KCP10B	C20
6013065	EG0251M02U02GUN KCP10B	C20
6013066	EG063I1FU05GUN KCP10B	C21
6013067	ER0312M03U00GUN KCP10B	C21
6013068	ER130I03U00GUN KCP10B	C22
6013069	EG0312M03U02GUP KCP10B	C17
6013070	EG0312M03U04GUP KCP10B	C17
6013091	EG130I03U05GUP KCP10B	C18
6013092	EG130I03U1GUP KCP10B	C18
6013093	EG0212M02U02GUP KCP10B	C17
6013095	EG0251M02U02GUP KCP10B	C17
6013096	ER0312M03U00GUP KCP10B	C19
6013097	ER130I03U00GUP KCP10B	C19
6013099	EG0312M03U02GUN KCP25B	C20
6013100	EG0312M03U04GUN KCP25B	C20
6013131	EG130I03U05GUN KCP25B	C21
6013132	EG130I03U1GUN KCP25B	C21
6013133	EG0212M02U02GUN KCP25B	C20
6013134	EG0251M02U02GUN KCP25B	C20
6013135	EG063I1FU05GUN KCP25B	C21
6013136	ER0312M03U00GUN KCP25B	C21
6013137	ER130I03U00GUN KCP25B	C22
6017353	EG0312M03U02GUN KCK20B	C20
6017354	EG0312M03U04GUN KCK20B	C20
6017356	EG130I03U05GUN KCK20B	C21
6017357	EG130I03U1GUN KCK20B	C21
6017358	EG0212M02U02GUN KCK20B	C20
6017359	EG0251M02U02GUN KCK20B	C20
6017360	EG063I1FU05GUN KCK20B	C21
6017391	ER0312M03U00GUN KCK20B	C21
6017392	ER130I03U00GUN KCK20B	C22
6017393	EG0412M04U04GUN KCK20B	C20
6017394	EG0412M04U08GUN KCK20B	C20
6017395	EG192I04U1GUN KCK20B	C21
6017396	EG192I04U2GUN KCK20B	C21
6017397	EG255I06U1GUN KCK20B	C21
6017398	EG255I06U2GUN KCK20B	C21
6017399	EG0812M08U08GUN KCK20B	C20
6017400	EG0812M08U12GUN KCK20B	C20
6017481	EG0612M06U04GUN KCK20B	C20
6017482	EG0612M06U08GUN KCK20B	C20
6017483	EG317I08U3GUN KCK20B	C21
6017484	EG0512M05U04GUN KCK20B	C20
6017485	EG0512M05U08GUN KCK20B	C20
6017486	EG380I10U3GUN KCK20B	C21
6017487	EG1012M10U12GUN KCK20B	C20
6017488	ER0412M04U00GUN KCK20B	C21
6017489	ER192I04U00GUN KCK20B	C22
6017490	ER0512M05U00GUN KCK20B	C21
6017491	ER0612M06U00GUN KCK20B	C21
6017492	ER255I06U00GUN KCK20B	C22
6017493	ER317I08U00GUN KCK20B	C22
6017494	ER0812M08U00GUN KCK20B	C21
6017497	EC030M03L06CF02 KCM35B	C22
6017498	EC030M03R06CF02 KCM35B	C22
6017499	EC014M1BN00CF01 KCM35B	C22
6017500	EC020M02N00CF02 KCM35B	C22
6017511	EC014M1BN00CL01 KCM35B	C23
6017512	EC020M02N00CL02 KCM35B	C23
6017513	EC020M02L06CF02 KCM35B	C22
6017514	EC020M02R06CF02 KCM35B	C22
6017515	EC014M1BL06CL01 KCM35B	C23
6017516	EC014M1BR06CL01 KCM35B	C23
6017517	EC020M02L06CL02 KCM35B	C23
6017518	EC020M02R06CL02 KCM35B	C23
6017519	EC030M03L06CL02 KCM35B	C23
6017520	EC030M03R06CL02 KCM35B	C23
6017521	EC014M1BL06CF01 KCM35B	C22
6017522	EC014M1BR06CF01 KCM35B	C22
6017525	EG0412M04U04GUP KCP25B	C17
6017526	EG0412M04U08GUP KCP25B	C17
6017527	EG192I04U1GUP KCP25B	C18
6017528	EG192I04U2GUP KCP25B	C18
6017529	EG255I06U1GUP KCP25B	C18
6017530	EG255I06U2GUP KCP25B	C18
6017541	EG0812M08U08GUP KCP25B	C17
6017542	EG0812M08U12GUP KCP25B	C17
6017543	EG0612M06U04GUP KCP25B	C17
6017544	EG0612M06U08GUP KCP25B	C17
6017545	EG317I08U3GUP KCP25B	C18
6017546	EG0512M05U04GUP KCP25B	C17
6017547	EG0512M05U08GUP KCP25B	C17
6017548	EG0712M06U08GUP KCP25B	C17
6017549	EG380I10U3GUP KCP25B	C18
6017550	EG1012M10U12GUP KCP25B	C17
6017551	ER0412M04U00GUP KCP25B	C19
6017552	ER192I04U00GUP KCP25B	C19
6017553	ER0512M05U00GUP KCP25B	C19
6017555	ER0612M06U00GUP KCP25B	C19
6017556	ER255I06U00GUP KCP25B	C19
6017557	ER317I08U00GUP KCP25B	C19
6017558	ER0812M08U00GUP KCP25B	C19
6017560	EG0412M04U04GUN KCP25B	C20
6017581	EG0412M04U08GUN KCP25B	C20
6017582	EG192I04U1GUN KCP25B	C21
6017583	EG192I04U2GUN KCP25B	C21
6017584	EG255I06U1GUN KCP25B	C21
6017585	EG255I06U2GUN KCP25B	C21
6017587	EG0812M08U08GUN KCP25B	C20
6017588	EG0812M08U12GUN KCP25B	C20
6017589	EG0612M06U08GUN KCP25B	C20
6017590	EG317I08U3GUN KCP25B	C21
6017601	EG0512M05U04GUN KCP25B	C20
6017603	EG0512M05U08GUN KCP25B	C20
6017604	EG380I10U3GUN KCP25B	C21
6017605	EG1012M10U12GUN KCP25B	C20
6017606	ER0412M04U00GUN KCP25B	C21
6017607	ER192I04U00GUN KCP25B	C22
6017608	ER0512M05U00GUN KCP25B	C21
6017609	ER0612M06U00GUN KCP25B	C21
6017610	ER255I06U00GUN KCP25B	C22
6017611	ER317I08U00GUN KCP25B	C22
6017612	ER0812M08U00GUN KCP25B	C21
6017693	KM80TSKGMER65C	C70, C147
6017694	KM80TSKGMEL65C	C70, C147
6017695	KM80TSKGMSR65C	C69, C146
6017696	KM80TSKGMSL65C	C69, C146
6017697	KM80ATCKGMER65C	C70, C147
6017698	KM80ATCKGMEL65C	C70, C147
6017868	WNMG331FW KCP05B	B158
6017935	EC040M04N00CF02 KCM35B	C22
6017936	EC040M04L06CF02 KCM35B	C22
6017937	EC040M04R06CF02 KCM35B	C22
6017938	EC040M04N00CL02 KCM35B	C23
6017939	EC030M03N00CF02 KCM35B	C22
6017940	EC030M03N00CL02 KCM35B	C23
6018001	EC050M05N00CF03 KCM35B	C22
6019339	MILL16E1000Z340N08W	S30
6019340	ONGX64ANENLE KC514M	S33
6019501	LNPU544SRGE KC520M	T19
6019502	LNPU544SRGE KC522M	T19
6019503	LNPU544SRGE KC725M	T19
6019504	LNPU544SRGE KCK15	T19
6019505	LNPU544SRGE KCPK30	T19
6019506	LNPU544SRGE KCPM40	T19
6019507	LNGU545SRGEM KC520M	T19
6019508	LNGU545SRGEM KCK15	T19
6019509	LNGU545SRGEM KCPK30	T19
6019510	LNGU545SRGEM KCPM40	T19
6020741	SDET43PDSR8GB KCSM40	T116, T123, U39
6023085	B053A01000CPG KC7325	G14
6023086	B053A01016CPG KC7325	G14
6023087	B053A01067CPG KC7325	G14
6023088	B053A01100CPG KC7325	G14
6023089	B053A01181CPG KC7325	G14
6023090	B053A01191CPG KC7325	G14
6023121	B053A01200CPG KC7325	G14
6023122	B053A01300CPG KC7325	G14
6023123	B053A01321CPG KC7325	G14
6023124	B053A01397CPG KC7325	G14
6023125	B053A01400CPG KC7325	G14
6025564	C7792VXE16-A2.00Z4R	V26–27
6025565	C7792VXE16-A2.50Z6R	V26–27
6025566	C7792VXE16-A3.00Z7R	V26–27
6025567	C7792VXE16-A4.00Z9R	V26–27
6025568	C7792VXE16-A5.00Z11R	V26–27
6025569	C7792VXE16-6.00Z13R	V26–27
6025581	C7792VXD12-A1.50Z4R	V19–20
6025582	C7792VXD12-A2.00Z6R	V19–20
6025583	C7792VXD12-A2.50Z7R	V19–20
6025584	C7792VXD12-A3.00Z9R	V19–20
6025585	C7792VXD12-A4.00Z11R	V19–20
6025586	C7792VXD12-A5.00Z13R	V19–20
6025587	C7792VXD12-6.00Z15R	V19–20
6025588	C7792VXD12CA1.25Z3R3	V18, V20
6025589	C7792VXD12CA1.50Z4R3	V18, V20
6025590	C7792VXD09CA1.00Z3R2	V11, V13
6025611	C7792VXD09CA1.25Z4R3	V11, V13
6025612	C7792VXD09-A2.00Z7R	V12–13
6025665	DFT070408DS KCU40	J102
6025666	SPPX120408LP KCU40	J104
6025669	DFT030304DS KCU40	J102
6025670	SPPX070304LP KCU40	J104
6025821	DFTX20204DS KCU40	J102
6025822	SPGX050204LP KCU40	J104
6025823	DFT05T308DS KCU40	J102
6025824	SPPX09T308LP KCU40	J104
6025825	DFT05T308D32DS KCU40	H112
6025826	DFT05T308D33DS KCU40	H112
6025827	DFT06T308D36DS KCU40	H112
6025828	DFT06T308D39DS KCU40	H112
6025829	DFT06T308D44DS KCU40	H112
6025830	DFT070408D45DS KCU40	H112
6025891	DFT070408D50DS KCU40	H112
6025892	DFT090508D56DS KCU40	H112
6025893	DFT090508D63DS KCU40	H112
6025894	DFT090508DS KCU40	J102
6025895	DFC040310D28DS KCU40	H114
6025896	DFC05T312D32DS KCU40	H114
6025897	DFC06T312D36DS KCU40	H114
6025898	DFC070416D45DS KCU40	H114
6025899	DFC090520D56DS KCU40	H114
6026363	DFT06T308DS KCU40	J102
6026364	SPGX060304LP KCU40	J104
6026365	TPG432 KCP25B	B177
6026366	SPGF422 KCP25B	B171
6026367	TPGF322 KCP25B	B177
6027457	TPMR322 KCP25B	B177
6030969	EVM50R0212M	C59
6030970	EVM50L0212M	C60
6031031	EVM50R0512MC	C59
6031032	EVM50L0512MC	C60
6031033	EVM50R0516MC	C59
6031034	EVM50L0516MC	C60
6031035	EVM65R0616MC	C59
6031036	EVM65L0616MC	C60
6031037	EVM65R0632MC	C59
6031038	EVM65L0632MC	C60
6031039	EVM65R0816MC	C59
6031040	EVM65L0816MC	C60
6031041	EVM50R1F12M	C59
6031042	EVM50L1F12M	C60
6031130	KTIP0852FEGM KCPM45	H36
6033254	XDPW120515SRD KCPM40	V23
6033255	XDPW120515SRD KCPK30	V23
6033256	XDPW120515SRD KC522M	V23
6033257	XDPW120515SRD KCK15	V23
6033258	XDPW120515SRD KC510M	V23
6034358	LNUX191950RRF KCP10B	E54
6034359	LNUX191950RRF KCP25B	E54
6034360	LNUX191950RRP KCP10B	E54
6034411	LNUX191950RRP KCP25B	E54
6035046	KLSS0714C	S30, S32, V19, V26
6039659	HNGJ43ANSNHD KCPM40	S7, S12, S16
6039660	HNGJ43ANSNHD KCK15	S7, S16
6039811	HNGJ43ANSNHD KC522M	S7, S12, S16
6039812	HNGJ43ANSNHD KCPK30	S7, S16
6039814	SNHJ442SNGD KCPM40	S59
6039815	SNHJ442SNGD KCPK30	S59
6039816	SNHJ442SNGD KCK15	S59
6039817	SNHJ442SNGD KC520M	S59
6039818	SNHJ442SNGD KC522M	S59
6041797	KSEMP7200FDS71B1M	H110, H119
6041798	KSEMP7400FDS71B1M	H110, H119
6041799	KSEMP7600FDS71B1M	H110, H119
6041800	KSEMP7800FDS71B1M	H110, H119
6041881	KSEMP8000FDS80B1M	H110, H120
6041882	KSEMP8200FDS80B1M	H110, H120
6041883	KSEMP8400FDS80B1M	H110, H120
6041884	KSEMP8600FDS80B1M	H110, H120
6041885	KSEMP8800FDS80B1M	H110, H120
6041886	KSEMP9000FDS90B1M	H110, H120
6041887	KSEMP9200FDS90B1M	H110, H120
6041888	KSEMP9400FDS90B1M	H110, H120
6041889	KSEMP9600FDS90B1M	H110, H120
6041890	KSEMP9800FDS90B1M	H110, H120
6041901	KSEMP10000FDS90B1M	H110, H120
6041904	KSEMP7100FDS71A1M	H106, H116, H123
6041906	KSEMP7300FDS71A1M	H106, H116, H123
6041907	KSEMP7500FDS71A1M	H106, H116, H123
6041908	KSEMP7700FDS71A1M	H106, H117, H123
6041909	KSEMP7900FDS71A1M	H106, H117, H123
6041910	KSEMP8100FDS80A1M	H106, H117, H123
6041921	KSEMP8300FDS80A1M	H106, H117, H123
6041922	KSEMP8500FDS80A1M	H106, H117, H123
6041923	KSEMP8700FDS80A1M	H106, H117, H123
6041924	KSEMP8900FDS80A1M	H106, H117, H123
6041925	KSEMP9100FDS90A1M	H106, H117, H123
6041926	KSEMP9300FDS90A1M	H106, H117, H123
6041927	KSEMP9500FDS90A1M	H106, H117, H123
6041928	KSEMP9700FDS90A1M	H106, H117, H123
6041929	KSEMP9900FDS90A1M	H106, H117, H123
6041930	KSEMP10000FDS90A1M	H106, H117, H123
6041931	KSEMP2875FDS71A1	H106, H116, H123
6041932	KSEMP3125FDS80A1	H106, H117, H123
6041933	KSEMP3375FDS80A1	H106, H117, H123
6041934	KSEMP3625FDS90A1	H106, H117, H123
6041935	KSEMP3875FDS90A1	H106, H117, H123
6041937	KSEMP7100FDS71B1M	H110, H119
6041938	KSEMP7300FDS71B1M	H110, H119

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6041939	KSEMP7500FDS71B1M	H110, H119
6041940	KSEMP7700FDS71B1M	H110, H119
6041991	KSEMP7900FDS71B1M	H110, H120
6041992	KSEMP8100FDS80B1M	H110, H120
6041993	KSEMP8300FDS80B1M	H110, H120
6041994	KSEMP8500FDS80B1M	H110, H120
6041995	KSEMP8700FDS80B1M	H110, H120
6041996	KSEMP8900FDS80B1M	H110, H120
6041997	KSEMP9100FDS90B1M	H110, H120
6041998	KSEMP9300FDS90B1M	H110, H120
6041999	KSEMP9500FDS90B1M	H110, H120
6042000	KSEMP9700FDS90B1M	H110, H120
6042001	KSEMP9900FDS90B1M	H110, H120
6042002	KSEMP2875FDS71B1	H110, H119
6042003	KSEMP3125FDS80B1	H110, H120
6042004	KSEMP3375FDS80B1	H110, H120
6042005	KSEMP3625FDS90B1	H110, H120
6042006	KSEMP3875FDS90B1	H110, H120
6042982	KSDR100031E0W4S KD1400	S105
6042983	KSDR100031E0W4S KD1425	S105
6042984	KSDR100031E1W4S KD1400	S105
6042985	KSDR100031E1W4S KD1425	S105
6042986	KSDR100031E3W4S KD1400	S106
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6042990	KSDR102S KD1400	S106
6043031	KSDR102S KD1425	S106
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6044580	KBDM300SD08	S104
6044711	KBDM400SD12	S104
6044712	KBDM500SD16	S104
6044713	KBDM600SD18	S104
6044714	KBDM800SD24	S104
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6049016	WLJNL32CA19S	E55
6049017	WLJNR32CA30S	E55
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6054195	KSCMA90QFBF KD1420	S110
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6055140	RMR17000H7SF KCU05	K15
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6055330	RHR42000KST350H7HF KCU05	K30
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6056569	B256A11900YPC KCK10	G54
6056600	HDWM5EUS	S104
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6059087	T877G01250-28R-D56 KSU31	M154
6059088	T877G02500-19R-D56 KSP39	M154
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6059090	T877G03750-19R-D56 KSP39	M154
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6059103	T877G05000-14R-D56 KSU31	M154
6059104	T877G06250-14R-D56 KSP39	M154
6059105	T877G06250-14R-D56 KSU31	M154
6059106	T877G07500-14R-D56 KSP39	M154
6059107	T877G07500-14R-D56 KSU31	M154
6059108	T877G08750-14R-D56 KSP39	M154
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6059111	T877G10000-11R-D56 KSU31	M154
6059167	T857G01250-28R-D56 KSP39	M155
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6059169	T857G02500-19R-D56 KSP39	M155
6059170	T857G02500-19R-D56 KSU31	M155
6059171	T857G03750-19R-D56 KSP39	M155
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6059173	T857G05000-14R-D56 KSP39	M155
6059174	T857G05000-14R-D56 KSU31	M155
6059175	T857G06250-14R-D56 KSP39	M155
6059176	T857G06250-14R-D56 KSU31	M155
6059177	T857G07500-14R-D56 KSP39	M155
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6059179	T857G08750-14R-D56 KSP39	M155
6059180	T857G08750-14R-D56 KSU31	M155
6059181	T857G10000-11R-D56 KSP39	M155
6059182	T857G10000-11R-D56 KSU31	M155
6059288	T848NPT00625-27R-D55 KSU30	M156
6059289	T848NPT01250-27R-D55 KSU30	M156
6059290	T848NPT02500-18R-D55 KSU30	M156
6059321	T848NPT03750-18R-D55 KSU30	M156
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6059328	T848NPTF01250-27R-D55 KSU30	M156
6059329	T848NPTF02500-18R-D55 KSU30	M156
6059341	T848NPTF03750-18R-D55 KSU30	M156
6059342	T848NPTF05000-14R-D55 KSU30	M156
6059343	T848NPTF07500-14R-D55 KSU30	M156
6059344	T848NPTF10000-11,5R-D55 KSU30	M156
6064367	KTIP1080FEGM KCPM45	H36
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6068043	HNGJ53511ANSNHD KCPM40	S19, S22
6068798	HNPJ438ANSNHD KCPM40	S7, S13, S16
6069649	KTIP1490FEGM KCPM45	H36
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6072381	ULDV1250Y4CQF KCSM15	09
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6074028	XDPT120515SRGP KCPK30	V23
6074029	XDPT120515SRGP KC725M	V23
6074030	XDPT120515SRGP KC522M	V23
6075752	DFSP140R4WD20M	J28
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6075755	DFSP155R4WD20M	J28
6075756	DFSP160R4WD20M	J28
6075757	DFSP165R4WD20M	J28
6075758	DFSP170R4WD20M	J28–29
6076012	SDET43PDER8GB KCSM40	T116, T123, U39
6079180	EVSBR1606160600075C	C47
6079223	EVM65R0620A0600075C	C62
6079224	EVM65R0620A0750100C	C62
6079225	EVM65R0620A1001800C	C62
6079226	EVM65R0620A1802500C	C62
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6079272	EVM65L0820B0801800C	C64
6079273	EVM65L0820B1809990C	C64
6079340	EVM50R0312B0350400C	C63

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6079351	EVSBL1606160600750	C48
6079352	EVSBR1606260600750	C47
6079353	EVSBL1606260600750	C48
6079354	EVSBR1606160751000	C47
6079355	EVSBL1606160751000	C48
6079356	EVSBR1606260751000	C47
6079357	EVSBL1606260751000	C48
6079358	EVSBR1606161001800	C47
6079359	EVSBL1606161001800	C48
6079362	EVSBR1606161802500	C47
6079363	EVSBL1606161802500	C48
6079366	EVSBR1606162503500	C47
6079367	EVSBL1606162503500	C48
6079370	EVSBR1606163509990	C47
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6079374	EVSBR2006321001800	C47
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6079412	EVM50R0312B0500600	C63
6079413	EVM50R0312B0600750	C63
6079414	EVM50R0320B0751000	C63
6079415	EVM50R0320B1001800	C63
6079416	EVM50R0320B1802500	C63
6079417	EVM50R0320B2503500	C63
6079418	EVM50R0320B3509990	C63
6079420	EVM50L0312B0350400	C64
6079421	EVM50L0312B0400500	C64
6079422	EVM50L0312B0500600	C64
6079423	EVM50L0312B0600750	C64
6079424	EVM50L0320B0751000	C64
6079425	EVM50L0320B1001800	C64
6079426	EVM50L0320B1802500	C64
6079427	EVM50L0320B2503500	C64
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6079454	EVM50R0426B1802500	C63
6079455	EVM50R0426B2503500	C63
6079456	EVM50R0426B3509990	C63
6079457	EVM50R0520B0500600	C63
6079458	EVM50R0520B0600750	C64
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6079461	EVM50R0520B1802500	C64
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6079476	EVM50L0520B1802500	C64
6079477	EVM50L0520B2503500	C64
6079478	EVM50L0520B3509990	C64
6079480	EVM50R0416A0400500	C61
6079481	EVM50R0416A0500600	C61
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6079485	EVM50R0426A1802500	C61
6079486	EVM50R0426A2503500	C61
6079487	EVM50R0426A3509990	C61
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6079509	EVM50L0520A3509990	C62
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6080035	EVSBR2525M0516050060C	C49
6080037	EVSBL2020K0312035040C	C50
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6080040	EVSBR2020K0416050060C	C49
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6080418	EVSBR1203120350400C	C46
6080419	EVSBR1204160400500C	C46
6080420	EVSBR1605160500600C	C46
6080472	EVSBL1203120350400C	C47
6080473	EVSBL1204160400500C	C47
6080474	EVSBL1605160500600C	C47–48
6080475	EVSBR1204160500600C	C46
6080476	EVSBL1204160500600C	C47
6080477	EVSBR1603200600750C	C46
6080478	EVSBL1603200600750C	C47
6080479	EVSBR1603200751000C	C46
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6080481	EVSBR1603201001800C	C46
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6082135	CNGN332T0820 KBK45	B304
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6082233	RNGN33S0820 KBK45	B304
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6082235	RNGX43S0820 KBK45	B307
6082236	RCGN33T0415 KBK45	B308
6082237	DNGN120408S02020 KBK45	B304
6082238	DNGN120412S02020 KBK45	B304
6082239	SNGN332S0415WCB KBK45	B306
6082240	SNGN332S0415WCC KBK45	B306
6082241	SCGN332S0415WCB KBK45	B309
6082242	SCGN332S0415WCC KBK45	B309
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6082246	SNGX432T0820 KBK45	B308
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6082249	TNGN234S0820 KBK45	B306
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6084948	LNPU863ANSLHD KCPM40	S95
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6086586	4SE0312IX162A KC633M	Q23
6086587	4SE0328IR100A KC633M	Q23
6086588	4SE0343IR100A KC633M	Q23

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6086589	4SE0359IR100A KC633M	Q23
6086590	4SE0375IS062A KC633M	Q23
6086591	4SE0375IR100A KC633M	Q23
6086592	4SE0375IL112A KC633M	Q23
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6087904	5720VZ16HA025Z2R75	T99
6088510	TPU433 KCK15B	B178
6088651	NPGR52L KCM15B	E33
6088652	VCMR331 KCM15B	E37
6088653	VCMR332 KCM15B	E37
6097181	EVM50R0312A035040C	C61
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6097197	EVM50L0320A250350C	C62
6097198	EVM50L0320A350999C	C62
6102279	LNPU763PNSLHD2 KCPM40	S99, S101
6103457	TNMG332MG KCP10B	B125
6104860	KSEM2835HPGM KCPM45	H58
6105048	TNMG332CT KCPK05	B122
6105085	CPGM3251 KCP25B	B205
6105089	CNMP542 KCP25B	B56
6105091	CNMU433RN KCP10B	B53
6105093	SPU423 KCP25B	B171
6105094	SPU422 KCP25B	B171
6105095	SPU421 KCP25B	B171
6105099	TPU321 KCP25B	B178
6105100	TPU432 KCP25B	B178
6105101	TPMR432 KCP25B	B177
6105102	TPMR222 KCP25B	B177
6105103	TPU322 KCP25B	B178
6105104	TPU433 KCP25B	B178
6108706	SNMG434MG KCP25B	B103
6109122	SDCT4316ENLD2 KCSM40	T115, T122, U38
6109124	SDET4316SNGB KCSM40	T116, T123, U39
6109130	SDET436ENGB KCSM40	T116, T123, U39
6109210	KTIP1595FEGM KCPM45	H36
6109265	SDET436SNGB KCSM40	T116, T123, U39
6111468	OFKT53AFEN4GB KCPM40	S47
6111469	OFKT64AFEN6GB KCPM40	S52
6111470	OFKT64AFSN6HB KCPM40	S52
6111671	SDET433PDER8GB KCPM40	T116, T123, U39
6111672	SDET433PDER8GB2 KCPM40	T115, T122, U39
6111673	SDET435SNGB2 KCPM40	T115, T122, U39
6111674	SDET43PDSR8GB2 KCPM40	T115, T122, U39
6111676	SEKT443AEEN7GP2 KCPM40	S40
6111677	SEKT443AESN7GP2 KCPM40	S40
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6113140	UJDE0500J6DBH KCSM15	P60
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6113883	UJDE1000N6HBF KCSM15	P62
6113884	UJDE1000N6HBK KCSM15	P62
6113887	UJBE1000N6HB KCSM15	P66
6113888	UJDE1000N6EBB KCSM15	P62
6113889	UJDE1000N6EBC KCSM15	P62
6113890	UJDE1000N6EBD KCSM15	P62
6113921	UJDE1000N6EBE KCSM15	P62
6113922	UJDE1000N6EBH KCSM15	P62
6113923	UJDE1000N6EBF KCSM15	P62
6113924	UJDE1000N6EBK KCSM15	P62
6113925	UJBE1000N6EB KCSM15	P66
6113926	UJDE1250N6ABB KCSM15	P62
6113927	UJDE1250N6ABC KCSM15	P62
6113928	UJDE1250N6ABD KCSM15	P62
6113929	UJDE1250N6ABE KCSM15	P62
6113930	UJDE1250N6ABH KCSM15	P62
6113961	UJDE1250N6ABF KCSM15	P62
6113962	UJDE1250N6ABJ KCSM15	P62
6113963	UJDE1250N6ABK KCSM15	P62
6113964	UJBE1250N6AB KCSM15	P66
6113965	UJDE1250N6XBB KCSM15	P62
6113966	UJDE1250N6XBC KCSM15	P62
6113967	UJDE1250N6XBD KCSM15	P62
6113968	UJDE1250N6XBE KCSM15	P62
6113969	UJDE1250N6XBH KCSM15	P62
6113970	UJDE1250N6XBF KCSM15	P62
6113971	UJDE1250N6XBJ KCSM15	P62
6113972	UJDE1250N6XBK KCSM15	P62
6113973	UJBE1250N6XB KCSM15	P66
6113974	UJDE1250N6ZBB KCSM15	P62
6113975	UJDE1250N6ZBC KCSM15	P62
6113976	UJDE1250N6ZBD KCSM15	P62
6113977	UJDE1250N6ZBE KCSM15	P62
6113979	UJDE1250N6ZBH KCSM15	P62
6113980	UJDE1250N6ZBF KCSM15	P62
6114001	UJDE1250N6ZBJ KCSM15	P62
6114003	UJDE1250N6ZBK KCSM15	P62
6114004	UJBE1250N6ZB KCSM15	P66
6114006	UJDE1250N6CBB KCSM15	P62
6114007	UJDE1250N6CBC KCSM15	P62
6114008	UJDE1250N6CBD KCSM15	P62
6114009	UJDE1250N6CBE KCSM15	P62
6114010	UJDE1250N6CBH KCSM15	P62
6114021	UJDE1250N6CBF KCSM15	P63
6114022	UJDE1250N6CBJ KCSM15	P63
6114023	UJDE1250N6CBK KCSM15	P63
6114024	UJBE1250N6CB KCSM15	P66
6114025	UJDE1250N6FBB KCSM15	P63
6114026	UJDE1250N6FBC KCSM15	P63
6114027	UJDE1250N6FBD KCSM15	P63
6114028	UJDE1250N6FBE KCSM15	P63
6114029	UJDE1250N6FBH KCSM15	P63
6114030	UJDE1250N6FBF KCSM15	P63
6114033	UJDE1250N6GBB KCSM15	P63
6114034	UJDE1250N6GBC KCSM15	P63
6114035	UJDE1250N6GBD KCSM15	P63
6114041	UJDE1250N6FBJ KCSM15	P63
6114042	UJDE1250N6FBK KCSM15	P63
6114043	UJBE1250N6FB KCSM15	P66
6114053	UJDE1250N6HBK KCSM15	P63
6114054	UJBE1250N6HB KCSM15	P66
6114055	UJDE1250N6JBB KCSM15	P63
6114056	UJDE1250N6JBC KCSM15	P63
6114057	UJDE1250N6JBD KCSM15	P63
6114058	UJDE1250N6JBE KCSM15	P63
6114059	UJDE1250N6JBH KCSM15	P63
6114060	UJDE1250N6JBF KCSM15	P63
6114092	UJDE1250N6GBE KCSM15	P63
6114093	UJDE1250N6GBH KCSM15	P63
6114094	UJDE1250N6GBF KCSM15	P63
6114095	UJDE1250N6GBJ KCSM15	P63
6114096	UJDE1250N6GBK KCSM15	P63
6114097	UJBE1250N6GB KCSM15	P66
6114098	UJDE1250N6DBB KCSM15	P63
6114099	UJDE1250N6DBC KCSM15	P63
6114100	UJDE1250N6DBD KCSM15	P63
6114121	UJDE1250N6DBE KCSM15	P63
6114122	UJDE1250N6DBH KCSM15	P63
6114123	UJDE1250N6DBF KCSM15	P63
6114124	UJDE1250N6DBJ KCSM15	P63
6114125	UJDE1250N6DBK KCSM15	P63
6114126	UJBE1250N6DB KCSM15	P66
6114127	UJDE1250N6HBB KCSM15	P63
6114128	UJDE1250N6HBC KCSM15	P63
6114129	UJDE1250N6HBD KCSM15	P63
6114132	UJDE1250N6HBE KCSM15	P63
6114133	UJDE1250N6HBH KCSM15	P63
6114134	UJDE1250N6HBF KCSM15	P63
6114135	UJDE1250N6HBJ KCSM15	P63
6114181	UJDE1250N6JBJ KCSM15	P63
6114182	UJDE1250N6JBK KCSM15	P63
6114183	UJBE1250N6JB KCSM15	P66
6114184	UJDE1250N6EBB KCSM15	P63
6114185	UJDE1250N6EBC KCSM15	P63
6114186	UJDE1250N6EBD KCSM15	P63
6114187	UJDE1250N6EBE KCSM15	P63
6114188	UJDE1250N6EBH KCSM15	P63
6114189	UJDE1250N6EBF KCSM15	P63
6114190	UJDE1250N6EBJ KCSM15	P63
6114231	UJDE1250N6EBK KCSM15	P63
6114232	UJBE1250N6EB KCSM15	P66
6114532	UJDE1500N6XBB KCSM15	P63
6114533	UJDE1500N6XBC KCSM15	P64
6114534	UJDE1500N6XBD KCSM15	P64
6114535	UJDE1500N6XBE KCSM15	P64
6114536	UJDE1500N6XBH KCSM15	P64
6114537	UJDE1500N6XBF KCSM15	P64
6114538	UJDE1500N6XBJ KCSM15	P64
6114539	UJDE1500N6XBK KCSM15	P64
6114540	UJDE1500N6XBL KCSM15	P64
6114554	UJDE1500N6ABB KCSM15	P64
6114555	UJDE1500N6ABC KCSM15	P64
6114556	UJDE1500N6ABD KCSM15	P64
6114557	UJDE1500N6ABE KCSM15	P64
6114558	UJDE1500N6ABH KCSM15	P64
6114559	UJDE1500N6ABF KCSM15	P64
6114560	UJDE1500N6ABJ KCSM15	P64
6114571	UJDE1500N6ABK KCSM15	P64
6114572	UJDE1500N6ABL KCSM15	P64
6114573	UJBE1500N6AB KCSM15	P67
6114577	UJDE1500N6BBB KCSM15	P64
6114578	UJDE1500N6BBC KCSM15	P64
6114579	UJDE1500N6BBD KCSM15	P64
6114580	UJDE1500N6BBE KCSM15	P64
6114661	UJDE1500N6BBH KCSM15	P64
6114662	UJDE1500N6BBF KCSM15	P64
6114663	UJDE1500N6BBJ KCSM15	P64
6114664	UJDE1500N6BBK KCSM15	P64
6114665	UJDE1500N6BBL KCSM15	P64
6114666	UJBE1500N6BB KCSM15	P67
6114668	UJDE1500N6ZBB KCSM15	P64
6114669	UJDE1500N6ZBC KCSM15	P64
6114670	UJDE1500N6ZBD KCSM15	P64
6114671	UJDE1500N6ZBE KCSM15	P64
6114672	UJDE1500N6ZBH KCSM15	P64
6114673	UJDE1500N6ZBF KCSM15	P64
6114674	UJDE1500N6ZBJ KCSM15	P64
6114675	UJDE1500N6ZBK KCSM15	P64

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6114676	UJDE1500N6ZBL KCSM15	P64
6114677	UJBE1500N6ZB KCSM15	P67
6114678	UJDE1500N6CBB KCSM15	P64
6114679	UJDE1500N6CBC KCSM15	P64
6114680	UJDE1500N6CBD KCSM15	P64
6114721	UJDE1500N6CBE KCSM15	P64
6114722	UJDE1500N6CBH KCSM15	P64
6114723	UJDE1500N6CBF KCSM15	P64
6114724	UJDE1500N6CBJ KCSM15	P64
6114725	UJDE1500N6CBK KCSM15	P64
6114726	UJDE1500N6CBL KCSM15	P64
6114727	UJBE1500N6CB KCSM15	P67
6114729	UJDE1500N6FBB KCSM15	P64
6114730	UJDE1500N6FBC KCSM15	P64
6114751	UJDE1500N6FBD KCSM15	P64
6114752	UJDE1500N6FBE KCSM15	P64
6114753	UJDE1500N6FBH KCSM15	P64
6114754	UJDE1500N6FBF KCSM15	P64
6114755	UJDE1500N6FBJ KCSM15	P64
6114756	UJDE1500N6FBK KCSM15	P64
6114757	UJDE1500N6FBL KCSM15	P65
6114758	UJBE1500N6FB KCSM15	P67
6114760	UJDE1500N6GBB KCSM15	P65
6114771	UJDE1500N6GBC KCSM15	P65
6114772	UJDE1500N6GBD KCSM15	P65
6114773	UJDE1500N6GBE KCSM15	P65
6114774	UJDE1500N6GBH KCSM15	P65
6114775	UJDE1500N6GBF KCSM15	P65
6114776	UJDE1500N6GBJ KCSM15	P65
6114777	UJDE1500N6GBK KCSM15	P65
6114778	UJDE1500N6GBL KCSM15	P65
6114779	UJBE1500N6GB KCSM15	P67
6115641	UJDE1500N6DBB KCSM15	P65
6115642	UJDE1500N6DBC KCSM15	P65
6115643	UJDE1500N6DBD KCSM15	P65
6115644	UJDE1500N6DBE KCSM15	P65
6115645	UJDE1500N6DBH KCSM15	P65
6115646	UJDE1500N6DBF KCSM15	P65
6115647	UJDE1500N6DBJ KCSM15	P65
6115648	UJDE1500N6DBK KCSM15	P65
6115649	UJDE1500N6DBL KCSM15	P65
6115650	UJBE1500N6DB KCSM15	P67
6115651	UJDE1500N6HBB KCSM15	P65
6115652	UJDE1500N6HBC KCSM15	P65
6115653	UJDE1500N6HBD KCSM15	P65
6115654	UJDE1500N6HBE KCSM15	P65
6115655	UJDE1500N6HBH KCSM15	P65
6115656	UJDE1500N6HBF KCSM15	P65
6115657	UJDE1500N6HBJ KCSM15	P65
6115658	UJDE1500N6HBK KCSM15	P65
6115659	UJDE1500N6HBL KCSM15	P65
6115660	UJBE1500N6HB KCSM15	P67
6116297	A32SEVSAR0312M033042	C57
6116298	A32SEVSAL0312M033042	C57
6116299	A40TEVSAR0312M041050	C57
6116300	A40TEVSAL0312M041050	C57
6116521	A25REVSAR0212M026030	C57
6116522	A25REVSAR0312M030035	C57
6116527	A25REVSAL0212M026030	C57
6116528	A25REVSAL0312M030035	C57
6116529	A20SEVSAR0312I033042	C56
6116530	A20SEVSAL0312I033042	C56
6116531	A24TEVSAR0312I041050	C56
6116532	A24TEVSAL0312I041050	C56
6116533	A16REVSAR0212I026030	C56
6116534	A16REVSAR0312I030035	C56
6116539	A16REVSAL0212I026030	C56
6116540	A16REVSAL0312I030035	C56
6116561	EVSBR2020K0312040050C	C49
6116562	EVSBL2020K0312040050C	C50
6116563	EVSBR2020K0312050060C	C49
6116564	EVSBL2020K0312050060C	C50
6116567	EVSBR2020K0312060075C	C49
6116568	EVSBL2020K0312060075C	C50
6116569	EVSBR2020K0312075100C	C49
6116570	EVSBL2020K0312075100C	C50
6116571	EVSBR2020K0416060075C	C49
6116572	EVSBL2020K0416060075C	C50
6116573	EVSBR2020K0416075100C	C49
6116574	EVSBL2020K0416075100C	C50
6116575	EVSBR2525M0426060075C	C49
6116576	EVSBL2525M0426060075C	C50
6116577	EVSBR2525M0426075100C	C49
6116578	EVSBL2525M0426075100C	C50
6116579	EVSBR2525M0426100180C	C49
6116580	EVSBL2525M0426100180C	C50
6116581	EVSBR2525M0426180250C	C49
6116582	EVSBL2525M0426180250C	C50
6116587	EVSBR2525M0416100180C	C49
6116588	EVSBL2525M0416100180C	C50
6116589	EVSBR2525M0416180250C	C49
6116590	EVSBL2525M0416180250C	C50
6116789	EVM50R0312A0075100C	C61
6116790	EVM50L0312A0075100C	C62
6117023	KSEM3115HPGM KCPM45	H58
6117061	EVM50R0312B0075100C	C63
6117062	EVM50L0312B0075100C	C64
6117063	EVM50R0312A1001800C	C61
6117064	EVM50L0312A1001800C	C62
6117065	EVM50R0312B1001800C	C63
6117066	EVM50L0312B1001800C	C64
6117067	EVM50R0312A1802500C	C61
6117068	EVM50L0312A1802500C	C62
6117069	EVM50R0312B1802500C	C63
6117070	EVM50L0312B1802500C	C64
6117071	EVM50R0312A2503500C	C61
6117072	EVM50L0312A2503500C	C62
6117073	EVM50R0312B2503500C	C63
6117074	EVM50L0312B2503500C	C64
6117075	EVM50R0312A3509999C	C61
6117076	EVM50L0312A3509999C	C62
6117077	EVM50R0312B3509999C	C63
6117078	EVM50L0312B3509999C	C64
6117079	EVM50R0416A1001800C	C61
6117080	EVM50L0416A1001800C	C62
6117091	EVM50R0416B1001800C	C63
6117092	EVM50L0416B1001800C	C64
6117093	EVM50R0416A1802500C	C61
6117094	EVM50L0416A1802500C	C62
6117095	EVM50R0416B1802500C	C63
6117096	EVM50L0416B1802500C	C64
6117097	EVM50R0416A2503500C	C61
6117098	EVM50L0416A2503500C	C62
6117099	EVM50R0416B2503500C	C63
6117100	EVM50L0416B2503500C	C64
6117101	EVM50R0416A3509999C	C61
6117102	EVM50L0416A3509999C	C62
6117103	EVM50R0416B3509999C	C63
6117104	EVM50L0416B3509999C	C64
6117117	EVSBR1203120400500C	C46
6117118	EVSBL1203120400500C	C47
6117119	EVSBR1203120500600C	C46
6117120	EVSBL1203120500600C	C47
6117164	EVSBR1605260500600C	C47
6117165	EVSBL1605260500600C	C47–48
6117166	EVSBR1605160600750C	C46
6117167	EVSBL1605160600750C	C47–48
6117168	EVSBR1605260600750C	C47
6117169	EVSBL1605260600750C	C47–48
6117170	EVSBR1605160751000C	C46
6117261	EVSBL1605160751000C	C47–48
6117262	EVSBR1605260751000C	C47
6117263	EVSBL1605260751000C	C47–48
6117264	EVSBR1605161001800C	C46
6117265	EVSBL1605161001800C	C47–48
6117268	EVSBR1605161802500C	C46
6117269	EVSBL1605161802500C	C47–48
6117272	EVSBR1605162503500C	C46
6117273	EVSBL1605162503500C	C47–48
6117276	EVSBR1605163509999C	C47
6117277	EVSBL1605163509999C	C47–48
6117280	EVSBR2005321001800C	C47
6117281	EVSBL2005321001800C	C47–48
6117282	EVSBR2005321802500C	C47
6117283	EVSBL2005321802500C	C47–48
6117284	EVSBR2005322503500C	C47
6117285	EVSBL2005322503500C	C48
6117286	EVSBR2005323509999C	C47
6117287	EVSBL2005323509999C	C48
6117351	EVSBR1203120600750C	C46
6117352	EVSBL1203120600750C	C47
6117353	EVSBR1203120751000C	C46
6117354	EVSBL1203120751000C	C47
6117355	EVSBR1204160600750C	C46
6117356	EVSBL1204160600750C	C47
6117357	EVSBR1204160751000C	C46
6117358	EVSBL1204160751000C	C47
6117359	EVSBR1604260600750C	C46
6117360	EVSBL1604260600750C	C47
6117381	EVSBR1604260751000C	C46
6117382	EVSBL1604260751000C	C47
6117383	EVSBR1604261001800C	C46
6117384	EVSBL1604261001800C	C47–48
6117386	EVSBR1604261802500C	C46
6117387	EVSBL1604261802500C	C47–48
6117402	EVSBR1604161001800C	C46
6117403	EVSBL1604161001800C	C47
6117404	EVSBR1604161802500C	C46
6117405	EVSBL1604161802500C	C47
6117419	CNMU444MN KCP25B	B51
6117573	DNMM443RP KCP10B	B85
6123362	KSEM3450FEGM KCPM45	H67
6123525	KTIP080R12SS10M	H38
6123526	KTIP085R12SS10M	H38
6123527	KTIP090R12SS10M	H38
6123528	KTIP095R12SS10M	H38
6123529	KTIP100R12SS12M	H38
6123530	KTIP105R12SS12M	H38
6123570	WD32FDS28076M	H126
6123571	WD32FDS32082M	H126
6123572	WD32FDS36092M	H126
6123573	WD50FDS40100M	H126
6123575	WD50FDS45112M	H126
6123576	WD50FDS50122M	H126
6123577	WD50FDS56140M	H126
6123578	WD50FDS63154M	H126
6123579	WD50FDS71172M	H126
6123580	WD50FDS80192M	H126
6123581	WD50FDS90212M	H126
6123582	SSF150FDS280299	H128
6123583	SSF150FDS320323	H128
6123584	SSF150FDS360362	H128
6123585	SSF200FDS400394	H128
6123586	SSF200FDS450441	H128
6123587	SSF200FDS500480	H128
6123588	SSF200FDS560551	H128
6123589	SSF200FDS630606	H128
6123590	SSF200FDS710677	H128
6123591	SSF200FDS800756	H128
6123592	SSF200FDS900835	H128
6123601	KTIP110R12SS12M	H38
6123602	KTIP115R12SS12M	H38
6123603	KTIP120R12SS14M	H38
6123604	KTIP125R12SS14M	H38
6123605	KTIP130R12SS14M	H38
6123607	KTIP135R12SS14M	H38
6123608	KTIP140R12SS16M	H38
6123609	KTIP145R12SS16M	H38
6123610	KTIP150R12SS16M	H38
6123611	KTIP160R12SS18M	H38
6123612	KTIP170R12SS18M	H38
6123613	KTIP180R12SS20M	H38
6123614	KTIP190R12SS20M	H38
6123615	KTIP200R12SS25M	H38
6123616	KTIP210R12SS25M	H38
6123617	KTIP220R12SS25M	H38
6123618	KTIP230R12SS25M	H38
6123619	KTIP240R12SS25M	H38
6123620	KTIP250R12SS32M	H38
6123621	KTIP260R12SS32M	H38
6123622	KTIP270R12SS32M	H38
6123704	KSEM321R3WD40M	H74
6123705	KSEM330R3WD40M	H74
6123706	KSEM340R3WD40M	H74
6123707	KSEM350R3WD40M	H74
6123708	KSEM360R3WD40M	H74
6123709	KSEM361R3WD40M	H74
6123710	KSEM370R3WD40M	H74
6123741	KSEM380R3WD40M	H74
6123742	KSEM390R3WD40M	H74
6123743	KSEM400R3WD40M	H74
6123744	KSEM321R5WD40M	H74
6123745	KSEM330R5WD40M	H74
6123746	KSEM340R5WD40M	H74
6123747	KSEM350R5WD40M	H74
6123748	KSEM360R5WD40M	H74
6123749	KSEM361R5WD40M	H74
6123750	KSEM370R5WD40M	H74
6123751	KSEM380R5WD40M	H74
6123752	KSEM390R5WD40M	H74
6123753	KSEM400R5WD40M	H74
6123754	KSEM1281R5SSF150	H83
6123755	KSEM1297R5SSF150	H83
6123756	KSEM1313R5SSF150	H83
6123757	KSEM1328R5SSF150	H83
6123758	KSEM1344R5SSF150	H83
6123759	KSEM1375R5SSF150	H83
6123760	KSEM1406R5SSF150	H83
6123761	KSEM1422R5SSF150	H83
6123762	KSEM1438R5SSF150	H83
6123763	KSEM1469R5SSF150	H83
6123764	KSEM1500R5SSF150	H83
6123765	KSEM1514R5SSF150	H83
6123766	KTIP0313R12SS038	H39
6123767	KTIP0335R12SS038	H39
6123768	KTIP0354R12SS038	H39
6123769	KTIP0945R12SS100	H39
6123770	KTIP0984R12SS100	H39
6123791	KTIP0787R12SS081	H39
6123792	KTIP0394R12SS044	H39
6123793	KTIP0413R12SS044	H39
6123794	KTIP0433R12SS044	H39
6123795	KTIP0453R12SS050	H39
6123796	KTIP0472R12SS050	H39
6123797	KTIP0492R12SS056	H39
6123798	KTIP0512R12SS056	H39
6123799	KTIP0532R12SS056	H39
6123800	KTIP0551R12SS056	H39
6123801	KTIP0571R12SS063	H39
6123802	KTIP0374R12SS044	H39
6123803	KTIP0906R12SS094	H39
6123804	KTIP0591R12SS063	H39
6123805	KTIP0630R12SS069	H39
6123806	KTIP0669R12SS069	H39
6123807	KTIP0709R12SS075	H39
6123808	KTIP0748R12SS075	H39
6123809	KTIP1024R12SS125	H39
6123810	KTIP1063R12SS125	H39
6123811	KTIP0492R12SS050	H39
6123812	KTIP0374R12SS038	H39
6123813	KTIP0827R12SS088	H39
6123814	KTIP0866R12SS088	H39
6124198	EVSBR2525M0526050060C	C50
6124199	EVSBL2525M0526050060C	C50
6124200	EVSBR2525M0516060075C	C49
6124211	EVSBL2525M0516060075C	C50
6124212	EVSBR2525M0526060075C	C50
6124213	EVSBL2525M0526060075C	C50
6124214	EVSBR2525M0516075100C	C49
6124215	EVSBL2525M0516075100C	C50
6124216	EVSBR2525M0526075100C	C50
6124217	EVSBL2525M0526075100C	C50
6124218	EVSBR2525M0516100180C	C49
6124219	EVSBL2525M0516100180C	C50
6124222	EVSBR2525M0516180250C	C49
6124223	EVSBL2525M0516180250C	C50
6124226	EVSBR2525M0516250350C	C49
6124227	EVSBL2525M0516250350C	C50
6124230	EVSBR2525M0516350999C	C50
6124232	EVSBL2525M0516350999C	C50
6124235	EVSBR3232P0532100180C	C50
6124236	EVSBL3232P0532100180C	C51
6124237	EVSBR3232P0532180250C	C50
6124238	EVSBL3232P0532180250C	C51
6124239	EVSBR3232P0532250350C	C50
6124240	EVSBL3232P0532250350C	C51
6124241	EVSBR3232P0532350999C	C50
6124242	EVSBL3232P0532350999C	C51
6124605	EVSBR2525M0616060075C	C50
6124606	EVSBL2525M0616060075C	C51
6124607	EVSBR2525M0626060075C	C50
6124608	EVSBL2525M0626060075C	C51
6124609	EVSBR2525M0616075100C	C50
6124610	EVSBL2525M0616075100C	C51
6124671	EVSBR2525M0626075100C	C50
6124672	EVSBL2525M0626075100C	C51
6124673	EVSBR2525M0616100180C	C50
6124674	EVSBL2525M0616100180C	C51

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6124677	EVSBR2525M0616180250C	C50
6124678	EVSBL2525M0616180250C	C51
6124681	EVSBR2525M0616250350C	C50
6124682	EVSBL2525M0616250350C	C51
6124685	EVSBR2525M0616350999C	C50
6124686	EVSBL2525M0616350999C	C51
6124689	EVSBR3232P0632100180C	C50
6124690	EVSBL3232P0632100180C	C51
6124691	EVSBR3232P0632180250C	C50
6124692	EVSBL3232P0632180250C	C51
6124693	EVSBR3232P0632250350C	C50
6124694	EVSBL3232P0632250350C	C51
6124695	EVSBR3232P0632350999C	C50
6124696	EVSBL3232P0632350999C	C51
6125373	B271Z15300HPG KCPK20	G69
6126918	RKDF0375Y4CQA KCSM15	O35
6126919	RKDF0500Y4CQB KCSM15	O35
6126920	RKDF0625Y4CQB KCSM15	O35
6127051	RKDF0750Y6CQB KCSM15	O35
6127052	RKDF1000Y6CQB KCSM15	O35
6127058	FSDE0375Y9CQA KC643M	O43
6127059	FSDE0375Y9CQB KC643M	O43
6127060	FSDE0375Y9CQC KC643M	O43
6127162	RQBB0375Y4CN KCPM15	O36
6127163	RQBB0500Y4CN KCPM15	O36
6127165	RQBB0625Y4CN KCPM15	O36
6127166	RQBB0750Y4CN KCPM15	O36
6127168	RQBB1000Y4CN KCPM15	O36
6127211	FSDE0375Y9CQD KC643M	O43
6127212	FSDE0500Y9CQA KC643M	O43
6127213	FSDE0500Y9CQB KC643M	O43
6127214	FSDE0500Y9CQC KC643M	O43
6127215	FSDE0500Y9CQD KC643M	O43
6127216	FSDE0500Y9CQE KC643M	O43
6127217	FSDE0625Y11CQA KC643M	O43
6127218	FSDE0625Y11CQB KC643M	O43
6127219	FSDE0625Y11CQC KC643M	O43
6127220	FSDE0625Y11CQD KC643M	O43
6127231	FSDE0625Y11CQE KC643M	O43
6127232	FSDE0750Y15CQB KC643M	O43
6127233	FSDE0750Y15CQC KC643M	O43
6127234	FSDE0750Y15CQD KC643M	O43
6127235	FSDE0750Y15CQE KC643M	O43
6127236	FSDE1000Y19CQB KC643M	O43
6127237	FSDE1000Y19CQC KC643M	O43
6127238	FSDE1000Y19CQD KC643M	O43
6127239	FSDE1000Y19CQE KC643M	O43
6127240	FSDE1000Y19CQF KC643M	O43
6127351	XADA0375Y4CU45 KCPM15	O48
6127352	XADA0500Y5CU45 KCPM15	O48
6127353	XADA0625Y6CU45 KCPM15	O48
6127415	RQDB0375Y4CV KCPM15	O34
6127416	RQDB0500Y4CV KCPM15	O34
6127417	RQDB0625Y4CV KCPM15	O34
6127418	RQDB0750Y4CV KCPM15	O34
6127419	RQDB1000Y5CV KCPM15	O34
6127558	FMDF0375Y6CQA KCPM15	O42
6127559	FMDF0500Y6CQB KCPM15	O42
6127560	FMDF0625Y6CQB KCPM15	O42
6127581	FMDF0750Y6CQB KCPM15	O42
6127582	FMDF1000Y6CQB KCPM15	O42
6127709	XRDA0375Y4CUC KCPM15	O49
6127710	XRDA0375Y4CUE KCPM15	O49
6127711	XRDA0500Y5CUB KCPM15	O49
6127712	XRDA0500Y5CUC KCPM15	O49
6127713	XRDA0500Y5CUE KCPM15	O49
6127714	XRDA0625Y6CUC KCPM15	O49
6127715	XRDA0625Y6CUE KCPM15	O49
6127885	EP1004SGE KCPM40	T37
6127886	EP1008SGE KCPM40	T37
6127887	EP1012EHD KCPM40	T36
6127888	EP1016EHD KCPM40	T36
6127889	EP1020EHD KCPM40	T36
6128132	EP1404EHD KCPM40	T57, T68
6128133	EP1408SGD KCPM40	T58, T70
6128134	EP1416EHD KCPM40	T57, T68
6128135	EP1416SGD KCPM40	T58, T70
6128136	EP1424EHD KCPM40	T57, T68
6128137	EC1804E KCPM40	T83
6128138	EC1808E KCPM40	T83
6128139	EC1812E KCPM40	T83
6128780	KTIP1770FEGM KCPM45	H36
6131423	LNGU433SRGEM KCK15	T10
6131424	LNGU433SRGEM KCPK30	T10
6131425	LNGU433SRGEM KC520M	T10
6131426	LNGU433SRGEM KCPM40	T10
6131428	LNPU433SRGE KC522M	T10
6131429	LNPU433SRGE KCPM40	T10
6131430	LNPU433SRGE KC725M	T10
6131502	LNPU432SRGE KC522M	T10
6131503	LNPU432SRGE KCPM40	T10
6131504	LNPU432SRGE KC725M	T10
6131505	LNPU432SRGE KCPK30	T10
6131506	LNPU432SRGE KC520M	T10
6131507	LNPU432SRGE KCK15	T10
6131511	LNPU433SRGE KCPK30	T10
6131512	LNPU433SRGE KC520M	T10
6131513	LNPU433SRGE KCK15	T10
6131514	LNGU431ERGE KC725M	T9
6131515	LNGU431ERGE KC522M	T9
6131516	LNGU431ERGE KCPM40	T9
6131541	LNGU432ERGE KC725M	T9
6131542	LNGU432ERGE KC522M	T9
6131543	LNGU432ERGE KCPM40	T9
6131544	LNGU432ERGE KCSM30	T9
6131556	LNGU432ERLEJ KC422M	T8
6131557	LNPU434SRGE KC522M	T10
6131558	LNPU434SRGE KCPM40	T10
6131559	LNPU434SRGE KC725M	T10
6131560	LNPU434SRGE KCPK30	T10
6131601	LNPU434SRGE KC520M	T10
6131602	LNGU432SRGEM KCK15	T10
6131603	LNGU432SRGEM KCPK30	T10
6131604	LNGU432SRGEM KC520M	T10
6131605	LNGU432SRGEM KC522M	T10
6131606	LNGU432SRGEM KCPM40	T10
6132022	LNGU432SRGE KC522M	T9
6132023	LNGU432SRGE KCPM40	T9
6132024	LNGU432SRGE KC725M	T9
6132025	LNGU432SRGE KCPK30	T9
6132026	LNGU432SRGE KCK15	T9
6132452	KSEM3750SPLM KCMS35	H65
6133656	KSEM2950SPLM KCMS35	H65
6134103	MILL16E300Z080N08W	S30
6134104	MILL16E400Z100N08W	S30
6134105	MILL16E500Z140N08W	S30
6134106	MILL16E600Z160N08W	S30
6134107	MILL16E800Z200N08W	S30
6134108	MILL16E1000Z240N08W	S30
6135413	TWDLTM	O56
6135414	TWTMINSERTDL10	O56
6135415	TWTMINSERTDL12	O56
6135416	TWTMINSERTDL16	O56
6135417	TWTMINSERTDL20	O56
6135418	TWTMINSERTDL25	O56
6135419	TWTMINSERTDL32	O56
6135420	TWTMINSERTDL10W	O56
6135421	TWTMINSERTDL12W	O56
6135422	TWTMEXT	O56
6135423	TWTMBC	O56
6136780	TCMT3253LF KCP10B	B257
6136800	SS038SLDL100225	O54
6136861	SS038DL100375	O55
6136862	SS050SLDL100250	O54
6136863	SS050DL100500	O55
6136864	SS062SLDL100350	O54
6136865	SS062DL100625	O55
6136866	SS075SLDL100450	O54
6136867	SS075DL100750	O55
6136868	SS050SLDL120250	O54
6136869	SS050DL120500	O55
6136870	SS062SLDL120325	O54
6136871	SS062DL120625	O55
6136872	SS075SLDL120425	O54
6136873	SS075DL120750	O55
6136874	SS062SLDL160275	O54
6136875	SS062DL160625	O55
6136876	SS075SLDL160325	O54
6136877	SS075DL160750	O55
6136878	SS100SLDL160450	O54
6136879	SS100DL161000	O55
6136880	SS075SLDL200300	O54
6136881	SS075DL200750	O55
6136882	SS100SLDL200375	O54
6136883	SS100DL201000	O55
6136884	SS100SLDL250350	O54
6136885	SS100DL251000	O55
6136886	SS125SLDL250425	O54
6136887	SS125DL251000	O55
6136888	SS125SLDL320400	O54
6136889	SS125DL321000	O55
6136890	SS150SLDL320550	O54
6136891	SS150DL321000	O55
6136892	SS200SLDL320750	O54
6136893	SS200DL321000	O55
6136895	HSK63ADL10200	O52
6136896	HSK63ADL12225	O52
6136897	HSK63ADL16225	O52
6136898	HSK63ADL20225	O52
6136899	HSK63ADL25250	O52
6136900	HSK63ADL32288	O52
6136931	PSC63DL10200	O52
6136932	PSC63DL12200	O52
6136933	PSC63DL16225	O52
6136934	PSC63DL20225	O52
6136935	PSC63DL25238	O52
6136936	PSC63DL32275	O52
6136937	CV40BDL10162	O53
6136938	CV40BDL12162	O53
6136939	CV40BDL16200	O53
6136940	CV40BDL20200	O53
6136941	CV40BDL25225	O53
6136942	CV40BDL32250	O53
6136943	BT40BDL10200	O53
6136944	BT40BDL12200	O53
6136945	BT40BDL16225	O53
6136946	BT40BDL20225	O53
6136947	BT40BDL25238	O53
6136948	BT40BDL32275	O53
6137128	DNMG332FP KCPK05	B80
6137163	DNMG331FP KCPK05	B80
6139893	M4D075L1103M10L110	T4
6139894	M4D100L1104M12L125	T4
6139895	M4D125L1105M16L175	T4
6139896	M4D100L1103W075L175	T5
6139897	M4D150L1105W125L225	T5
6139898	M4D062L1102C062L600	T6
6139899	M4D075L1103C075L600	T6
6139900	M4D100L1104C100L700	T6
6139921	M4D125L1104C125L800	T6
6139922	M4D150L1106S050L157	T7
6139923	M4D250L1107S100L157	T7
6139924	M4D300L1108S125L175	T7
6139928	M4D062L1102W062L100	T5, T11
6139929	M4D075L1102W075L110	T5, T11
6139930	M4D075L1103W075L110	T5, T11
6140051	M4D100L1103W100L175	T5, T11
6140052	M4D125L1104W125L225	T5, T11
6140053	M4D062L1102C062L400	T6, T11
6140054	M4D075L1103C075L400	T6, T11
6140055	M4D075L1102C075L600	T6
6140056	M4D100L1104C100L450	T6, T11
6140057	M4D100L1103C100L700	T6
6140058	M4D125L1105C125L500	T6, T11
6140059	M4D150L1105S050L157	T7, T11
6140060	M4D200L1105S075L157	T7, T11
6140061	M4D200L1107S075L157	T7, T11
6140062	M4D250L1107S075L157	T7
6140063	M4D300L1108S100L175	T7
6140064	HNEC535ANSN KY3500	S23
6140065	T839M030X050RD3-A KSP39	M91
6140066	T839M035X060RD4-A KSP39	M91
6140067	T839M040X070RD4-A KSP39	M91
6140068	T839M050X080RD4-A KSP39	M91
6140069	T839M060X100RD5-A KSP39	M91
6140070	T839M070X100RD5-A KSP39	M91
6140131	T839MF080X100RD5-A KSP39	M91
6140132	T839M080X125RD5-A KSP39	M91
6140133	T839MF100X125RD5-A KSP39	M91
6140134	T839M100X150RD6-A KSP39	M91
6140135	T839MF120X125RD5-A KSP39	M91
6140136	T839MF120X150RD5-A KSP39	M91
6140137	T839M120X175RD6-A KSP39	M91
6140138	T839MF140X150RD6-A KSP39	M91
6140139	T839M140X200RD7-A KSP39	M91
6140140	T839MF160X150RD6-A KSP39	M91
6140141	T839M160X200RD7-A KSP39	M91
6140142	T839MF180X150RD6-A KSP39	M91
6140594	T838NC#02-56RH2-A KSP39	M79
6140596	T838NC#03-48RH2-A KSP39	M79
6140598	T838NC#04-40RH2-A KSP32	M79
6140600	T838NC#04-40RH2-A KSP39	M79
6140601	T838NC#04-40RH3-A KSP39	M79
6140602	T838NC#04-40RH4-A KSP39	M79
6140603	T838NC#04-40RH5-A KSP39	M79
6140604	T838NF#04-48RH2-A KSP39	M79
6140605	T838NC#05-40RH2-A KSP39	M79
6140606	T838NC#06-32RH2-A KSP39	M79
6140607	T838NC#06-32RH3-A KSP32	M79
6140608	T838NC#06-32RH3-A KSP39	M79
6140609	T838NC#06-32RH4-A KSP39	M79
6140610	T838NC#06-32RH5-A KSP39	M79
6140611	T838NC#06-32RH7-A KSP39	M79
6140612	T838NF#06-40RH2-A KSP39	M79
6140613	T838NF#06-40RH3-A KSP39	M79
6140614	T838NC#08-32RH2-A KSP39	M79
6140615	T838NC#08-32RH3-A KSP32	M79
6140616	T838NC#08-32RH3-A KSP39	M79
6140617	T838NC#08-32RH4-A KSP39	M79
6140618	T838NC#08-32RH5-A KSP39	M79
6140619	T838NC#08-32RH6-A KSP39	M79
6140620	T838NC#08-32RH7-A KSP39	M79
6140621	T838NC#10-24RH2-A KSP39	M79
6140622	T838NC#10-24RH3-A KSP32	M79
6140623	T838NC#10-24RH3-A KSP39	M79
6140624	T838NC#10-24RH4-A KSP39	M79
6140625	T838NC#10-24RH5-A KSP39	M79
6140626	T838NC#10-24RH7-A KSP39	M79
6140627	T838NF#10-32RH2-A KSP39	M79
6140628	T838NF#10-32RH3-A KSP32	M79
6140629	T838NF#10-32RH3-A KSP39	M79
6140630	T838NF#10-32RH4-A KSP39	M80
6140631	T838NF#10-32RH5-A KSP39	M80
6140632	T838NF#10-32RH6-A KSP39	M80
6140633	T838NF#10-32RH7-A KSP39	M80
6140634	T838NC#12-24RH3-A KSP39	M80
6140635	T838NF#12-28RH3-A KSP39	M80
6140636	T838NC02500-20RH2-A KSP39	M80
6140637	T838NC02500-20RH3-A KSP32	M80
6140638	T838NC02500-20RH3-A KSP39	M80
6140639	T838NC02500-20RH5-A KSP39	M80
6140640	T838NC02500-20RH7-A KSP39	M80
6140671	T838NF02500-28RH2-A KSP39	M80
6140672	T838NF02500-28RH3-A KSP32	M80
6140673	T838NF02500-28RH3-A KSP39	M80
6140674	T838NC05000-13RH3-A KSP32	M80
6140675	T838NF02500-28RH4-A KSP39	M80
6140676	T838NC05000-13RH3-A KSP39	M80
6140677	T838NF02500-28RH5-A KSP39	M80
6140678	T838NC05000-13RH5-A KSP39	M80
6140679	T838NF02500-28RH6-A KSP39	M80
6140680	T838NC05000-13RH7-A KSP39	M80
6140681	T838NF02500-28RH7-A KSP39	M80
6140682	T838NF05000-20RH3-A KSP32	M80
6140683	T838NC03125-18RH3-A KSP32	M80
6140684	T838NF05000-20RH3-A KSP39	M80
6140685	T838NC03125-18RH3-A KSP39	M80
6140686	T838NF05000-20RH5-A KSP39	M80
6140687	T838NC03125-18RH5-A KSP39	M80
6140688	T838NF05000-20RH6-A KSP39	M80
6140689	T838NC03125-18RH7-A KSP39	M80
6140690	T838NF05000-20RH7-A KSP39	M80
6140691	T838NF03125-24RH3-A KSP32	M80
6140692	T838NC05625-12RH3-A KSP39	M80
6140693	T838NC05625-12RH3-A KSP32	M80
6140694	T838NF03125-24RH3-A KSP39	M80
6140695	T838NC05625-12RH5-A KSP39	M80
6140696	T838NF03125-24RH5-A KSP39	M80
6140697	T838NF05625-18RH3-A KSP39	M80
6140698	T838NF03125-24RH7-A KSP39	M80
6140699	T838NF05625-18RH5-A KSP39	M80
6140700	T838NC03750-16RH3-A KSP32	M80
6140701	T838NC06250-11RH3-A KSP32	M80
6140702	T838NC03750-16RH3-A KSP39	M80
6140703	T838NC06250-11RH3-A KSP39	M80
6140704	T838NC03750-16RH5-A KSP39	M80
6140705	T838NC06250-11RH5-A KSP39	M80
6140706	T838NC03750-16RH7-A KSP39	M80

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6140707	T838NC06250-11RH7-A KSP39	M80
6140708	T838NF03750-24RH3-A KSP32	M80
6140709	T838NF06250-18RH3-A KSP32	M80
6140710	T838NF03750-24RH3-A KSP39	M80
6140711	T838NF06250-18RH3-A KSP39	M80
6140712	T838NF03750-24RH4-A KSP39	M80
6140713	T838NF06250-18RH5-A KSP39	M80
6140714	T838NF03750-24RH5-A KSP39	M80
6140715	T838NF06250-18RH6-A KSP39	M81
6140716	T838NF03750-24RH6-A KSP39	M80
6140717	T838NF06250-18RH7-A KSP39	M81
6140718	T838NC04375-14RH3-A KSP32	M80
6140719	T838NC07500-10RH3-A KSP32	M81
6140720	T838NC04375-14RH3-A KSP39	M80
6140721	T838NC07500-10RH3-A KSP39	M81
6140722	T838NC04375-14RH5-A KSP39	M80
6140723	T838NC07500-10RH5-A KSP39	M81
6140724	T838NC04375-14RH7-A KSP39	M80
6140725	T838NF07500-16RH3-A KSP32	M81
6140726	T838NF04375-20RH3-A KSP32	M80
6140727	T838NF07500-16RH3-A KSP39	M81
6140728	T838NF04375-20RH3-A KSP39	M80
6140729	T838NF07500-16RH5-A KSP39	M81
6140730	T838NF04375-20RH5-A KSP39	M80
6140731	T838NC08750-9RH4-A KSP39	M81
6140732	T838NF04375-20RH6-A KSP39	M80
6140733	T838NF08750-14RH4-A KSP39	M81
6140734	T838NF04375-20RH7-A KSP39	M80
6140735	T838NC10000-8RH5-A KSP39	M81
6140736	T838NC10000-8RH5-A KSP32	M81
6140737	T838NF1000-12RH4-A KSP39	M81
6140738	T838NC11250-7RH6-A KSP39	M81
6140739	T839NC#04-40RH2-A KSP39	M82
6140740	T839NC#04-40RH3-A KSP39	M82
6140781	T839NC#04-40RH5-A KSP39	M82
6140782	T839NC#05-40RH2-A KSP39	M82
6140783	T839NC#06-32RH2-A KSP39	M82
6140784	T839NC#06-32RH3-A KSP39	M82
6140785	T839NC#06-32RH5-A KSP39	M82
6140786	T839NF#06-40RH2-A KSP39	M82
6140787	T839NF#06-40RH3-A KSP39	M82
6140788	T839NC#08-32RH2-A KSP39	M82
6140789	T839NC#08-32RH3-A KSP39	M82
6140790	T839NC#08-32RH5-A KSP39	M82
6140791	T839NC#10-24RH3-A KSP39	M82
6140792	T839NC#10-24RH5-A KSP39	M82
6140793	T839NF#10-32RH3-A KSP39	M82
6140794	T839NF#10-32RH5-A KSP39	M82
6140795	T839NC02500-20RH3-A KSP39	M82
6140796	T839NC02500-20RH5-A KSP39	M82
6140797	T839NF02500-28RH3-A KSP39	M82
6140798	T839NF02500-28RH5-A KSP39	M82
6140799	T839NC03125-18RH3-A KSP39	M82
6140800	T839NC03125-18RH5-A KSP39	M82
6140801	T839NF03125-24RH3-A KSP39	M82
6140802	T839NF03125-24RH5-A KSP39	M82
6140803	T839NC03750-16RH3-A KSP39	M82
6140804	T839NC03750-16RH5-A KSP39	M82
6140805	T838M030X050RD3-A KSP32	M90
6140806	T839NF03750-24RH3-A KSP39	M82
6140807	T838M030X050RD3-A KSP39	M90
6140808	T839NF03750-24RH4-A KSP39	M82
6140809	T838M035X060RD4-A KSP39	M90
6140810	T839NF03750-24RH5-A KSP39	M83
6140811	T838M040X070RD4-A KSP32	M90
6140812	T839NC04375-14RH3-A KSP39	M83
6140813	T838M040X070RD4-A KSP39	M90
6140814	T839NC04375-14RH5-A KSP39	M83
6140815	T838M050X080RD4-A KSP32	M90
6140816	T839NF04375-20RH3-A KSP39	M83
6140817	T838M050X080RD4-A KSP39	M90
6140818	T839NF04375-20RH5-A KSP39	M83
6140819	T838M060X100RD5-A KSP32	M90
6140820	T839NC05000-13RH3-A KSP39	M83
6140821	T838M060X100RD5-A KSP39	M90
6140822	T839NC05000-13RH5-A KSP39	M83
6140823	T838M070X100RD5-A KSP39	M90
6140824	T839NF05000-20RH3-A KSP39	M83
6140825	T838MF080X100RD5-A KSP39	M90
6140826	T839NC05625-12RH3-A KSP39	M83
6140827	T838M080X125RD5-A KSP32	M90
6140828	T839NC05625-12RH5-A KSP39	M83
6140829	T838M080X125RD5-A KSP39	M90
6140830	T839NF05625-18RH3-A KSP39	M83
6140841	T838MF100X125RD5-A KSP39	M90
6140842	T839NC06250-11RH3-A KSP39	M83
6140843	T838M100X150RD6-A KSP39	M90
6140844	T839NC06250-11RH5-A KSP39	M83
6140845	T838M100X150RD6-A KSP32	M90
6140846	T839NF06250-18RH3-A KSP39	M83
6140847	T838MF120X125RD5-A KSP39	M90
6140848	T839NF06250-18RH5-A KSP39	M83
6140849	T838MF120X150RD5-A KSP39	M90
6140850	T839NC07500-10RH3-A KSP39	M83
6140851	T838M120X175RD6-A KSP32	M90
6140852	T839NF07500-16RH3-A KSP39	M83
6140853	T838M120X175RD6-A KSP39	M90
6140854	T838MF140X150RD6-A KSP39	M90
6140855	T838M140X200RD7-A KSP39	M90
6140856	T838MF160X150RD6-A KSP39	M90
6140857	T838M160X200RD7-A KSP39	M90
6140858	T838MF180X150RD6-A KSP39	M90
6140859	T838M180X250RD7-A KSP39	M90
6143903	3SE0031IR007A KC633M	Q16
6143904	3SE0047IR011A KC633M	Q16
6143905	3SE0062IR019A KC633M	Q16
6143906	3SE0078IR011A KC633M	Q16
6143907	3SE0094IR037A KC633M	Q16
6143908	3SE0109IR037A KC633M	Q16
6143909	3SE0125IR025A KC633M	Q16
6143910	3SE0125IL050A KC633M	Q16
6143941	3SE0125IX062A KC633M	Q16
6143943	3SE0156IR056A KC633M	Q16
6143944	3SE0188IS031A KC633M	Q16
6143945	3SE0188IR056A KC633M	Q16
6143946	3SE0188IL062A KC633M	Q16
6143947	3SE0188IX100A KC633M	Q16
6143949	3SE0219IR062A KC633M	Q16
6143950	3SE0219IL075A KC633M	Q16
6143951	3SE0250IS050A KC633M	Q16
6143952	3SE0250IR075A KC633M	Q16
6143953	3SE0250IL100A KC633M	Q16
6143954	3SE0250IX150A KC633M	Q16
6143955	3SE0281IR075A KC633M	Q16
6143956	3SE0281IL081A KC633M	Q16
6143957	3SE0312IR050A KC633M	Q16
6143958	3SE0312IL081A KC633M	Q16
6143962	3SE0375IS050A KC633M	Q16
6143963	3SE0375IR088A KC633M	Q16
6143964	3SE0375IL100A KC633M	Q16
6143965	3SE0375IX112A KC633M	Q16
6143967	3SE0437IR062A KC633M	Q16
6143968	3SE0437IL088A KC633M	Q16
6143969	3SE0437IX100A KC633M	Q16
6143970	3SE0500IR100A KC633M	Q16
6143971	3SE0500IL200A KC633M	Q17
6143973	3SE0563IR112A KC633M	Q17
6143974	3SE0625IR075A KC633M	Q17
6143975	3SE0625IL125A KC633M	Q17
6143976	3SE0750IR100A KC633M	Q17
6143977	3SE0750IL150A KC633M	Q17
6143978	3SE0750IX225A KC633M	Q17
6143979	3SE1000IR150A KC633M	Q17
6143980	3SE1000IX225A KC633M	Q17
6145034	3SE0563IR112B KC633M	Q17
6145035	3SE0625IR075B KC633M	Q17
6145036	3SE0625IL125B KC633M	Q17
6145038	3SE0750IL150B KC633M	Q17
6145039	3SE0750IX225B KC633M	Q17
6145041	3SE1000IX225B KC633M	Q17
6145374	1-16NPTF-JIC	C83
6145375	1-8NPTF-JIC	C83
6145376	G18-JIC	C83
6145377	M10-JIC	C83
6145378	M8-JIC	C83
6145379	JICM-JICF-ELB	C83
6145380	COOL-HOSE-200	C83
6145381	COOL-HOSE-300	C83
6145382	M6-JIC	C83
6145383	JICM-JICM-STR	C83
6145386	G14-G18-RED	C83
6151112	ABDF0375Y2CU K600	O28
6151113	ABDF0500Y2CU K600	O28
6151114	ABDF0625Y2CU K600	O28
6151115	ABDF0750Y2CU K600	O28
6151491	VDIB1M302040C	C75
6151492	VDIB1M402544C	C75
6151493	VDIB2M302040C	C75
6151494	VDIB2M402544C	C75
6151495	VDIB3M302040C	C76
6151497	VDIB3M402544C	C76
6151498	VDIB4M302040C	C76
6151499	VDIB4M402544C	C76
6151500	VDIB5M302040C	C77
6151511	VDIB5M402544C	C77
6151512	VDIB6M302040C	C77
6151513	VDIB6M402544C	C77
6151514	VDIC1M302070C	C78
6151515	VDIC1M402585C	C78
6151516	VDIC2M302070C	C78
6151517	VDIC2M402585C	C78
6151518	VDIC3M302070C	C79
6151519	VDIC3M402585C	C79
6151520	VDIC4M302070C	C79
6151521	VDIC4M402585C	C79
6151522	CNMG4305LF KCP25B	B50
6151523	CNMG431LF KCP25B	B50
6151524	CNMG432LF KCP25B	B50
6151527	CNMG643MG KCP25B	B57
6151528	CNMM432MR KCP25B	B54
6151529	CNMM543MR KCP25B	B54
6151530	CNMM544MR KCP25B	B54
6151562	DNMP332K KCP25B	B86
6151565	VNMG332LF KCP25B	B145
6151567	RCMH64K KCP10B	B239
6152251	D315CFA	S31
6152252	D355CFA	S31
6152253	D400CFA	S31
6152254	D500CFA	S31
6153948	ABDE0375Y3CQA K600	O29
6153949	ABDE0375Y3CQB K600	O29
6153950	ABDE0375Y3CQC K600	O29
6153951	ABDE0375Y3CQD K600	O29
6153952	ABDE0500Y3CQA K600	O29
6153953	ABDE0500Y3CQB K600	O29
6153954	ABDE0500Y3CQC K600	O29
6153955	ABDE0500Y3CQD K600	O29
6153956	ABDE0500Y3CQE K600	O29
6153957	ABDE0625Y3CQA K600	O29
6153958	ABDE0625Y3CQB K600	O29
6153959	ABDE0625Y3CQC K600	O29
6153960	ABDE0625Y3CQD K600	O29
6153961	ABDE0625Y3CQE K600	O29
6153963	ABDE0750Y3CQB K600	O29
6153964	ABDE0750Y3CQC K600	O29
6153965	ABDE0750Y3CQD K600	O29
6153966	ABDE0750Y3CQE K600	O29
6153967	ABDE1000Y3CQB K600	O29
6153968	ABDE1000Y3CQC K600	O29
6153969	ABDE1000Y3CQD K600	O29
6153970	ABDE1000Y3CQE K600	O29
6153971	ABDE1000Y3CQF K600	O29
6159069	MILL16E200Z040N08SC	S32
6159070	MILL16E250Z040N08SC	S32
6159072	MILL16E300Z050N08SC	S32
6159074	MILL16E400Z060N08SC	S32
6159076	MILL16E500Z080N08SC	S32
6159078	MILL16E600Z100N08SC	S32
6159080	MILL16E800Z100N08SC	S32
6159082	MILL16E1000Z120N08SC	S32
6160117	5720VZ16HA050Z4R75	T99
6160743	C7792VXE16-A1.5/4.00Z7R	V26
6160744	C7792VXE16-A1.5/4.00Z9R	V26
6162808	EP1816EHD KCPM40	T84
6162809	EP1832EHD KCPM40	T84
6162869	KSEM1830SPLM KCMS35	H64
6162870	KSEM0797SPL KCMS35	H64
6163121	KSEM2250SPLM KCMS35	H64
6163122	KSEM2350SPLM KCMS35	H64
6163123	KSEM2450SPLM KCMS35	H64
6163124	KSEM2525SPLM KCMS35	H64
6163125	KSEM2530SPLM KCMS35	H64
6163126	KSEM2550SPLM KCMS35	H64
6163127	KSEM2630SPLM KCMS35	H64
6163128	KSEM2650SPLM KCMS35	H64
6163129	KSEM1047SPL KCMS35	H64
6163130	KSEM2750SPLM KCMS35	H64
6163131	KSEM2800SPLM KCMS35	H64
6163132	KSEM2850SPLM KCMS35	H64
6163133	KSEM2900SPLM KCMS35	H65
6163134	KSEM3050SPLM KCMS35	H65
6163135	KSEM3100SPLM KCMS35	H65
6163136	KSEM3150SPLM KCMS35	H65
6163137	KSEM3250SPLM KCMS35	H65
6163138	KSEM3350SPLM KCMS35	H65
6163139	KSEM3400SPLM KCMS35	H65
6163141	KSEM3450SPLM KCMS35	H65
6163142	KSEM3500SPLM KCMS35	H65
6163143	KSEM3550SPLM KCMS35	H65
6163144	KSEM3600SPLM KCMS35	H65
6163145	KSEM3650SPLM KCMS35	H65
6163146	KSEM3700SPLM KCMS35	H65
6163147	KSEM3800SPLM KCMS35	H65
6163148	KSEM3850SPLM KCMS35	H65
6163149	KSEM3900SPLM KCMS35	H65
6163150	KSEM3950SPLM KCMS35	H65
6163300	KTIP03594FEG KCPM45	H36
6163381	KTIP1010FEGM KCPM45	H36
6163382	KTIP1170FEGM KCPM45	H36
6163383	KSEM0781FEG KCPM45	H67
6163384	KSEM2580FEGM KCPM45	H67
6163385	KSEM1016FEG KCPM45	H67
6163386	KSEM1031FEG KCPM45	H67
6163387	KSEM3050FEGM KCPM45	H67
6163388	KSEM3150FEGM KCPM45	H67
6163389	KSEM3250FEGM KCPM45	H67
6163390	KSEM3350FEGM KCPM45	H67
6163411	KSEM3550FEGM KCPM45	H67
6163412	KSEM3650FEGM KCPM45	H68
6163413	KSEM3750FEGM KCPM45	H68
6163414	KSEM3850FEGM KCPM45	H68
6163415	KSEM3950FEGM KCPM45	H68
6163504	KSEM0929HPG KCPM45	H57
6163505	KSEM1965HPGM KCPM45	H57
6165350	RNGJ10T3M0ELDJ KCSM40	V48
6165392	RNGJ1204M0SGDJ KCSM40	V55
6165393	RNPJ1605M0SGD KCSM40	V59
6165397	LNGU432SRGE KCSM40	T9
6165400	LNGU542SRGE KCSM40	T19
6165421	LNGU543SRGE KCSM40	T19
6165422	LNGU542ERGE KCSM40	T18
6165423	LNGU543ERGE KCSM40	T18
6165759	HNPJ43ANSNGD KCSM40	S7, S13
6165760	HNPJ43ANSNHD KCSM40	S7, S13, S16
6165861	HNPJ438ANSNHD KCSM40	S7, S13, S16
6165863	XNGJ43ANENLD3W KCSM40	S12
6165864	HNGJ43ANSNHD KCSM40	S7, S12, S16
6167534	FSDE0375J9BCA KC643M	P98
6167535	FSDE0375J9BCB KC643M	P98
6167536	FSDE0500J9BCA KC643M	P98
6167537	FSDE0500J9BCB KC643M	P98
6167538	FSDE0500J9BCC KC643M	P98
6167539	FSDE0625JBBCB KC643M	P98
6167540	FSDE0750JFBCA KC643M	P98
6167551	FSDE0750JFBCB KC643M	P98
6167552	FSDE0750JFBCC KC643M	P98
6167553	FSDE0750JFBCE KC643M	P98
6167554	FSDE1000JJBCA KC643M	P98
6167555	FSDE1000JJBCB KC643M	P98
6167556	FSDE1000JJBCC KC643M	P98
6167557	FSDE1000JJBCE KC643M	P98
6168013	SDCT43PDER8LD2 KCSM40	T115, T122, U38
6168014	SDCT433PDER8LD2 KCSM40	T115, T122
6168015	SDET433PDER8GB KCSM40	T116, T123, U39
6168016	SDCT434ENLD2 KCSM40	T115, T122, U38
6168017	SDCT438ENLD2 KCSM40	T115, T122
6168018	SDET43PDER8GB2 KCSM40	T115, T122, U39
6168019	SDET4316ENGB KCSM40	T116, T123, U39
6168020	SDET4312SNGB KCSM40	T116, T123, U39
6168101	SDET4312ENGB KCSM40	T116, T123, U39

Index

Order No.	Catalog No.	Page(s)
6168102	SDET438SNGB KCSM40	T116, T123, U39
6168103	SDET438ENGB KCSM40	T116, T123, U39
6168104	SDET434SNGB KCSM40	T116, T123, U39
6168105	SDET434ENGB KCSM40	T116, T123, U39
6168106	SDET433PDSR8GB KCSM40	T116, T123, U39
6171518	EC1408EGD KCSM40	T57, T68
6171519	EC1412EGD KCSM40	T57, T68
6171520	EC1416EGD KCSM40	T57, T68
6171591	EC1431EGD KCSM40	T57, T68
6172122	EP1408EHD KCSM40	T57, T68
6172123	EP1412EHD KCSM40	T57, T68
6172124	EP1416EHD KCSM40	T57, T68
6172125	EP1420EHD KCSM40	T57, T68
6172126	EP1424EHD KCSM40	T57, T68
6172127	EP1431EHD KCSM40	T57, T68
6172128	EP1440EHD KCSM40	T57, T68
6172129	EP1408SGD KCSM40	T58, T70
6172130	EP1412SGD KCSM40	T58, T70
6172191	EP1416SGD KCSM40	T58, T70
6172192	EP1408SGE KCSM40	T58, T69
6172193	EP1412SGE KCSM40	T58, T69
6172194	EP1416SGE KCSM40	T58, T69
6172195	EP1431SGE KCSM40	T58, T69
6172348	EP1808S KCSM40	T85
6172349	EP1812S KCSM40	T85
6172350	EP1816S KCSM40	T85
6172391	EP1832S KCSM40	T85
6172392	EP1848S KCSM40	T85
6172393	EP1864S KCSM40	T85
6172394	EP1808SGE KCSM40	T84
6172395	EP1812SGE KCSM40	T84
6172396	EP1816SGE KCSM40	T84
6172397	EP1832SGE KCSM40	T84
6172398	EP1808E KCSM40	T83
6172399	EP1816E KCSM40	T83
6172400	EP1832E KCSM40	T83
6172411	EP1848E KCSM40	T83
6172412	EP1864E KCSM40	T83
6172413	EP1808EHD KCSM40	T84
6172414	EP1812EHD KCSM40	T84
6172415	EP1816EHD KCSM40	T84
6172416	EP1832EHD KCSM40	T84
6172417	EP1840EHD KCSM40	T84
6172418	EP1848EHD KCSM40	T84
6172513	B967A03000 KC7315	G130
6172514	B967A03100 KC7315	G130
6172515	B967A03200 KC7315	G130
6172516	B967A03300 KC7315	G130
6172517	B967A03500 KC7315	G130
6172518	B967A03800 KC7315	G130
6172519	B967A04000 KC7315	G130
6172520	B967A04200 KC7315	G130
6172531	B967A04300 KC7315	G130
6172532	B967A04500 KC7315	G130
6172533	B967A04800 KC7315	G130
6172534	B967A05100 KC7315	G130
6172535	B967A05200 KC7315	G130
6172536	B967A05500 KC7315	G130
6172537	B967A05800 KC7315	G130
6172538	B967A06100 KC7315	G130
6172539	B967A06600 KC7315	G131
6172540	B967A06800 KC7315	G131
6172541	B967A07800 KC7315	G131
6172542	B967A08100 KC7315	G131
6172543	B967A08600 KC7315	G131
6172544	B967A08800 KC7315	G131
6172655	T839M030X050R6H-D1 KSP39	M97
6172656	T839M030X050R6H-D1 KSU31	M97
6172657	T839M040X070R6H-D1 KSP39	M97
6172658	T839M040X070R6H-D1 KSU31	M97
6172659	T839M050X080R6H-D1 KSP39	M97
6172660	T839M050X080R6H-D1 KSU31	M97
6172681	T839M060X100R6H-D1 KSP39	M97
6172682	T839M060X100R6H-D1 KSU31	M97
6172683	T839M080X125R6H-D1 KSP39	M97
6172684	T839M080X125R6H-D1 KSU31	M97
6172685	T839M100X150R6H-D1 KSP39	M97
6172686	T839M100X150R6H-D1 KSU31	M97
6172687	T839M120X175R6H-D6 KSP39	M97
6172688	T839M120X175R6H-D6 KSU31	M97
6172689	T839M140X200R6H-D6 KSP39	M97
6172690	T839M140X200R6H-D6 KSU31	M97
6172701	T839M160X200R6H-D6 KSP39	M97
6172702	T839M160X200R6H-D6 KSU31	M97
6172703	T839M180X250R6H-D6 KSP39	M97
6172704	T839M180X250R6H-D6 KSU31	M97
6172705	T839M200X250R6H-D6 KSP39	M97
6172706	T839M200X250R6H-D6 KSU31	M97
6172875	T838NC05625-12R2B-D6 KSP39	M85
6172876	T838NC05625-12R2B-D6 KSU31	M85
6172877	T838NF05625-18R2B-D4 KSP39	M85
6172878	T838NF05625-18R2B-D4 KSU31	M85
6172879	T838NC06250-11R2B-D6 KSP39	M85
6172880	T838NC06250-11R2B-D6 KSU31	M85
6172967	T838M020X040R6H-D1 KSP39	M95
6172968	T838M020X040R6H-D1 KSU31	M95
6172969	T838M030X050R6H-D1 KSP39	M95
6172970	T838M030X050R6H-D1 KSU31	M95
6173001	T838M040X070R6H-D1 KSP39	M95
6173002	T838M040X070R6H-D1 KSU31	M95
6173003	T838M050X080R6H-D1 KSP39	M95
6173004	T838M050X080R6H-D1 KSU31	M95
6173005	T838M050X080R6H-D6 KSP39	M95
6173006	T838M050X080R6H-D6 KSU31	M95
6173007	T838MF060X075R6H-D4 KSP39	M95
6173008	T838MF060X075R6H-D4 KSU31	M95
6173009	T838M060X100R6H-D1 KSP39	M95
6173010	T838M060X100R6H-D1 KSU31	M95
6173011	T838M060X100R6H-D6 KSP39	M95
6173012	T838M060X100R6H-D6 KSU31	M95
6173013	T838MF080X075R6H-D4 KSP39	M95
6173014	T838MF080X075R6H-D4 KSU31	M95
6173015	T838MF080X100R6H-D4 KSP39	M95
6173016	T838MF080X100R6H-D4 KSU31	M95
6173017	T838M080X125R6H-D1 KSP39	M95
6173018	T838M080X125R6H-D1 KSU31	M95
6173019	T838M080X125R6H-D6 KSP39	M95
6173020	T838M080X125R6H-D6 KSU31	M95
6173021	T838MF100X075R6H-D4 KSP39	M95
6173022	T838MF100X075R6H-D4 KSU31	M95
6173023	T838MF100X100R6H-D4 KSP39	M95
6173024	T838MF100X100R6H-D4 KSU31	M95
6173025	T838MF100X125R6H-D4 KSP39	M95
6173026	T838MF100X125R6H-D4 KSU31	M95
6173027	T838M100X150R6H-D1 KSP39	M95
6173028	T838M100X150R6H-D1 KSU31	M95
6173029	T838M100X150R6H-D6 KSP39	M95
6173030	T838M100X150R6H-D6 KSU31	M95
6173051	T838MF120X100R6H-D4 KSP39	M95
6173052	T838MF120X100R6H-D4 KSU31	M95
6173053	T838MF120X125R6H-D4 KSP39	M95
6173054	T838MF120X125R6H-D4 KSU31	M95
6173055	T838MF120X150R6H-D4 KSP39	M95
6173056	T838MF120X150R6H-D4 KSU31	M95
6173057	T838M120X175R6H-D6 KSP39	M95
6173058	T838M120X175R6H-D6 KSU31	M95
6173059	T838MF140X100R6H-D4 KSP39	M95
6173060	T838MF140X100R6H-D4 KSU31	M95
6173061	T838MF140X125R6H-D4 KSP39	M95
6173062	T838MF140X125R6H-D4 KSU31	M95
6173063	T838MF140X150R6H-D4 KSP39	M95
6173064	T838MF140X150R6H-D4 KSU31	M95
6173065	T838M140X200R6H-D6 KSP39	M95
6173066	T838M140X200R6H-D6 KSU31	M95
6173068	T838MF160X150R6H-D4 KSP39	M95
6173069	T838MF160X150R6H-D4 KSU31	M95
6173070	T838M160X200R6H-D6 KSP39	M95
6173071	T838NF06250-18R2B-D4 KSP39	M85
6173072	T838NF06250-18R2B-D4 KSU31	M85
6173073	T838NC07500-10R2B-D6 KSP39	M85
6173074	T838NC07500-10R2B-D6 KSU31	M85
6173075	T838NF07500-16R2B-D4 KSP39	M85
6173076	T838NF07500-16R2B-D4 KSU31	M85
6173077	T838NC08750-9R2B-D6 KSP39	M86
6173078	T838NC08750-9R2B-D6 KSU31	M86
6173079	T838NF08750-14R2B-D4 KSP39	M86
6173080	T838NF08750-14R2B-D4 KSU31	M86
6173081	T838NC10000-8R2B-D6 KSP39	M86
6173082	T838NC10000-8R2B-D6 KSU31	M86
6173083	T838NF10000-12R2B-D4 KSP39	M86
6173084	T838NF10000-12R2B-D4 KSU31	M86
6173085	T838NC11250-7R2B-D6 KSP39	M86
6173086	T838NC11250-7R2B-D6 KSU31	M86
6173087	T838NF11250-12R2B-D4 KSP39	M86
6173088	T838NF11250-12R2B-D4 KSU31	M86
6173089	T838NC12500-7R2B-D6 KSP39	M86
6173090	T838NC12500-7R2B-D6 KSU31	M86
6173091	T838NF12500-12R2B-D4 KSP39	M86
6173092	T838NF12500-12R2B-D4 KSU31	M86
6173093	T838NC13750-6R2B-D6 KSP39	M86
6173094	T838NC13750-6R2B-D6 KSU31	M86
6173095	T838NF13750-12R2B-D4 KSP39	M86
6173096	T838NF13750-12R2B-D4 KSU31	M86
6173097	T838NC15000-6R2B-D6 KSP39	M86
6173098	T838NC15000-6R2B-D6 KSU31	M86
6173099	T838NF15000-12R2B-D4 KSP39	M86
6173100	T838NF15000-12R2B-D4 KSU31	M86
6173101	T838NC17500-5R2B-D6 KSP39	M86
6173102	T838NC17500-5R2B-D6 KSU31	M86
6173103	T838NC20000-4,5R2B-D6 KSP39	M86
6173104	T838NC20000-4,5R2B-D6 KSU31	M86
6173111	T838M160X200R6H-D6 KSU31	M95
6173112	T838MF180X150R6H-D4 KSP39	M95
6173113	T838MF180X150R6H-D4 KSU31	M95
6173114	T838MF180X200R6H-D4 KSP39	M96
6173115	T838MF180X200R6H-D4 KSU31	M96
6173116	T838M180X250R6H-D6 KSP39	M96
6173117	T838M180X250R6H-D6 KSU31	M96
6173118	T838MF200X150R6H-D4 KSP39	M96
6173119	T838MF200X150R6H-D4 KSU31	M96
6173120	T838MF200X200R6H-D4 KSP39	M96
6173131	T838MF200X200R6H-D4 KSU31	M96
6173132	T838M200X250R6H-D6 KSP39	M96
6173133	T838M200X250R6H-D6 KSU31	M96
6173134	T838MF220X150R6H-D4 KSP39	M96
6173135	T838MF220X150R6H-D4 KSU31	M96
6173136	T838MF220X200R6H-D4 KSP39	M96
6173137	T838MF220X200R6H-D4 KSU31	M96
6173138	T838M220X250R6H-D6 KSP39	M96
6173139	T838M220X250R6H-D6 KSU31	M96
6173140	T838MF240X150R6H-D4 KSP39	M96
6173141	T838MF240X150R6H-D4 KSU31	M96
6173142	T838MF240X200R6H-D4 KSP39	M96
6173143	T838MF240X200R6H-D4 KSU31	M96
6173144	T838M240X300R6H-D6 KSP39	M96
6173145	T838M240X300R6H-D6 KSU31	M96
6173146	T838MF270X150R6H-D4 KSP39	M96
6173147	T838MF270X150R6H-D4 KSU31	M96
6173148	T838MF270X300R6H-D6 KSP39	M96
6173149	T838M270X300R6H-D6 KSU31	M96
6173150	T838MF300X150R6H-D4 KSP39	M96
6173151	T838MF300X150R6H-D4 KSU31	M96
6173152	T838MF300X200R6H-D4 KSP39	M96
6173153	T838MF300X200R6H-D4 KSU31	M96
6173154	T838M300X350R6H-D6 KSP39	M96
6173155	T838M300X350R6H-D6 KSU31	M96
6173156	T838M330X350R6H-D6 KSP39	M96
6173157	T838M330X350R6H-D6 KSU31	M96
6173158	T838M360X400R6H-D6 KSP39	M96
6173159	T838M360X400R6H-D6 KSU31	M96
6173160	T838M390X400R6H-D6 KSP39	M96
6173171	T838M390X400R6H-D6 KSU31	M96
6173172	T838M420X450R6H-D6 KSP39	M96
6173173	T838M420X450R6H-D6 KSU31	M96
6173174	T838M450X450R6H-D6 KSP39	M96
6173175	T838M450X450R6H-D6 KSU31	M96
6173176	T838M480X500R6H-D6 KSP39	M96
6173177	T838M480X500R6H-D6 KSU31	M96
6173178	T838M520X500R6H-D6 KSP39	M96
6173179	T838M520X500R6H-D6 KSU31	M96
6173240	T838NC#06-32R2B-D1 KSP39	M85
6173261	T838NC#06-32R2B-D1 KSU31	M85
6173262	T838NF#06-40R2B-D1 KSP39	M85
6173263	T838NF#06-40R2B-D1 KSU31	M85
6173264	T838NC#08-32R2B-D1 KSP39	M85
6173265	T838NC#08-32R2B-D1 KSU31	M85
6173266	T838NF#08-36R2B-D1 KSP39	M85
6173267	T838NF#08-36R2B-D1 KSU31	M85
6173268	T838NC#10-24R2B-D1 KSP39	M85
6173269	T838NC#10-24R2B-D1 KSU31	M85
6173270	T838NF#10-32R2B-D1 KSP39	M85
6173271	T838NF#10-32R2B-D1 KSU31	M85
6173272	T838NC#12-24R2B-D1 KSP39	M85
6173273	T838NC#12-24R2B-D1 KSU31	M85
6173274	T838NF#12-28R2B-D1 KSP39	M85
6173275	T838NF#12-28R2B-D1 KSU31	M85
6173276	T838NC02500-20R2B-D1 KSP39	M85
6173277	T838NC02500-20R2B-D1 KSU31	M85
6173278	T838NC02500-20R2B-D6 KSP39	M85
6173279	T838NC02500-20R2B-D6 KSU31	M85
6173280	T838NF02500-28R2B-D1 KSP39	M85
6173281	T838NF02500-28R2B-D1 KSU31	M85
6173282	T838NF02500-28R2B-D4 KSP39	M85
6173283	T838NF02500-28R2B-D4 KSU31	M85
6173284	T838NC03125-18R2B-D1 KSP39	M85
6173285	T838NC03125-18R2B-D1 KSU31	M85
6173286	T838NC03125-18R2B-D6 KSP39	M85
6173287	T838NC03125-18R2B-D6 KSU31	M85
6173288	T838NF03125-24R2B-D4 KSP39	M85
6173289	T838NF03125-24R2B-D4 KSU31	M85
6173290	T838NC03750-16R2B-D1 KSP39	M85
6173301	T838NC03750-16R2B-D1 KSU31	M85
6173302	T838NC03750-16R2B-D6 KSP39	M85
6173303	T838NC03750-16R2B-D6 KSU31	M85
6173304	T838NF03750-24R2B-D4 KSP39	M85
6173305	T838NF03750-24R2B-D4 KSU31	M85
6173306	T838NC04375-14R2B-D6 KSP39	M85
6173307	T838NC04375-14R2B-D6 KSU31	M85
6173308	T838NF04375-20R2B-D4 KSP39	M85
6173309	T838NF04375-20R2B-D4 KSU31	M85
6173310	T838NC05000-13R2B-D6 KSP39	M85
6173311	T838NC05000-13R2B-D6 KSU31	M85
6173312	T838NF05000-20R2B-D4 KSP39	M85
6173313	T838NF05000-20R2B-D4 KSU31	M85
6173786	LNPU763PNSRHD2 KCSM40	S99, S101
6175756	EP1008EHD KCSM40	T36
6175757	EP1012EHD KCSM40	T36
6175758	EP1016EHD KCSM40	T36
6175759	EP1020EHD KCSM40	T36
6175760	EP1024EHD KCSM40	T36
6176091	EP1031EHD KCSM40	T36
6176092	EP1008SGE KCSM40	T37
6176093	EP1012SGE KCSM40	T37
6176094	EP1016SGE KCSM40	T37
6176095	EP1031SGE KCSM40	T37
6176096	EC1008ELD KCSM40	T36
6176097	EC1012ELD KCSM40	T36
6176098	EC1016ELD KCSM40	T36
6176099	EC1024ELD KCSM40	T36
6176100	EC1031ELD KCSM40	T36
6177823	SNHJ442SNGD KCSM40	S59
6177924	OFKT53AFEN6LB KCSM40	S47
6177925	OFKT53AFEN4GB KCSM40	S47
6177926	OFKT53AFSN4HB KCSM40	S47
6177927	OFPT53AFSN4HB KCSM40	S48
6177928	OFKT64AFEN6LB KCSM40	S51
6177929	OFKT64AFEN6GB KCSM40	S52
6177930	OFKT64AFSN6HB KCSM40	S52
6178011	OFPT64AFSN6HB KCSM40	S52
6178103	HNGJ535ANENLD KCSM40	S18, S21
6178104	HNGJ535ANSNGD KCSM40	S18, S22
6178105	HNGJ535ANSNHD KCSM40	S19, S22
6178106	HNGJ53511ANSNHD KCSM40	S19, S22
6178107	XNGJ535ANSNGD3W KCSM40	S21
6178108	HNPJ535ANSNHD KCSM40	S19, S23
6178109	HNPJ53511ANSNHD KCSM40	S19, S23
6178110	HNPJ75ANSNHD KCSM40	S26
6178121	LNPU863ANSRHD2 KCSM40	S95
6178232	DFT030304GD KC7140	J101
6178233	DFT05T308GD KC7140	J101
6178234	DFT06T308GD KC7140	J101
6178235	DFT070408GD KC7140	J101
6178236	DFT090508GD KC7140	J101
6178237	SDHT120412EN422 KCSM40	T132
6178238	SDHT120412EN423 KCSM40	T132
6178239	SDMT120412EN41 KCSM40	T133
6178240	SDMW120412TN KCSM40	T133
6178251	SDHT09T308EN422 KCSM40	T129
6178252	SDHT09T308EN423 KCSM40	T129
6178253	SDMT09T308EN41 KCSM40	T130
6178254	SDMW09T308TN KCSM40	T130
6179398	EVSCTR081B16	C38
6179399	EVSCTR081F16	C38

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6179400	EVSCTR080216	C38
6179709	EVSCFL1010K1B10	C45
6179710	EVSCFL1010K1F10	C45
6179721	EVSCTR080316C	C38
6179722	EVSCTL081B16	C38
6179723	EVSCTL081F16	C38
6179724	EVSCTL080216	C38
6179725	EVSCTL080316C	C39
6179726	EVSCFL061B10	C43
6179727	EVSCFL061F10	C43
6179728	EVSCFL060210	C43
6179729	EVSCFL081B10	C43
6179730	EVSCFL081B13	C43
6179731	EVSCFL081F10	C43
6179732	EVSCFL081F13	C43
6179733	EVSCFL080210	C43
6179734	EVSCFL080216	C43
6179735	EVSCFL080310C	C43
6179736	EVSCFL080316C	C43
6179737	EVSCFL101B16	C43
6179738	EVSCFL101F16	C43
6179739	EVSCFL100216	C43
6179740	EVSCFL100316C	C43
6179751	EVSCFL121B16	C43
6179752	EVSCFL121F16	C43
6179753	EVSCFL120216	C43
6179754	EVSCFL120316C	C43
6179755	EVSCTR1212K0316C	C40
6179756	EVSCTL1212K0316C	C41
6179757	EVSCTR1212K1B16	C40
6179758	EVSCTR1212K1F16	C40
6179759	EVSCTR1212K0216	C40
6179760	EVSCTL1212K1B16	C41
6179761	EVSCTL1212K1F16	C41
6179762	EVSCTL1212K0216	C41
6179763	EVSCFR1010K1B10	C44
6179764	EVSCFR1010K1F10	C44
6179765	EVSCFR1010K0210	C44
6179766	EVSCFR1212K1B10	C44
6179767	EVSCFR1212K1B13	C44
6179768	EVSCFR1212K1F10	C44
6179769	EVSCFR1212K1F13	C44
6179770	EVSCFR1212K0210	C44
6179771	EVSCFR1212K0216	C44
6179772	EVSCFR1212K0310C	C44
6179773	EVSCFR1212K0316C	C44
6179774	EVSCFR1616K1B16	C44
6179775	EVSCFR1616K1F16	C44
6179776	EVSCFR1616K0216	C44
6179777	EVSCFR1616K0316C	C44
6179778	EVSCFR2020K1B16	C44
6179779	EVSCFR2020K1F16	C44
6179780	EVSCFR2020K0216	C44
6179781	EVSCFR2020K0316C	C44
6179921	EVSCFL1010K0210	C45
6179922	EVSCFL1212K1B10	C45
6179923	EVSCFL1212K1B13	C45
6179924	EVSCFL1212K1F10	C45
6179925	EVSCFL1212K1F13	C45
6179926	EVSCFL1212K0210	C45
6179927	EVSCFL1212K0216	C45
6179928	EVSCFL1212K0310C	C45
6179929	EVSCFL1212K0316C	C45
6179930	EVSCFL1616K1B16	C45
6179931	EVSCFL1616K1F16	C45
6179932	EVSCFL1616K0216	C45
6179933	EVSCFL1616K0316C	C45
6179934	EVSCFL2020K1B16	C45
6179935	EVSCFL2020K1F16	C45
6179936	EVSCFL2020K0216	C45
6179937	EVSCFL2020K0316C	C45
6180116	EVSCFR061B10	C42
6180117	EVSCFR061F10	C42
6180118	EVSCFR060210	C42
6180119	EVSCFR081B10	C42
6180120	EVSCFR081B13	C42
6180121	EVSCFR081F10	C42
6180124	EVSCFR081F13	C42
6180125	EVSCFR080210	C42
6180126	EVSCFR080216	C42
6180127	EVSCFR080310C	C42
6180128	EVSCFR080316C	C42
6180129	EVSCFR101B16	C42
6180130	EVSCFR101F16	C42
6180141	EVSCFR100216	C42
6180142	EVSCFR100316C	C42
6180143	EVSCFR121B16	C42
6180144	EVSCFR121F16	C42
6180146	EVSCFR120216	C42
6180147	EVSCFR120316C	C42
6180436	DNMG333CT KCP10B	B79
6181213	LNUX191940S-WT5 KCP25B	E59
6181214	NPR13M05F KCP25B	E36
6181215	SNMX190640S-WT5 KCP25B	E59
6181216	NPR5M05 KCP25B	E36
6181217	NPR13M05N KCP25B	E35
6181311	CNMM190740RRP KCP10B	E59
6181316	RCMX2507M076 KCP25B	E59
6183779	RIQB6C4500S KBHK10	K59
6183780	RIQB7C4500S KBHK10	K59
6183831	RIQ07C4500S KBHK10	K59
6183832	RIQ08C4500S KBHK10	K59
6183833	RIQ09C4500S KBHK10	K59
6183834	RIQB6C4500S KBHK15	K59
6183836	RIQB7C4500S KBHK15	K59
6183837	RIQ07C4500S KBHK15	K59
6183838	RIQ08C4500S KBHK15	K59
6183839	RIQ09C4500S KBHK15	K59
6185769	XPPT060308ERD41 KCSM40	V7
6185770	XEPT160512ERD41 KCSM40	V28
6185921	XDPT090408ERD41 KCSM40	V15
6185922	XDPT090412ERD411 KCSM40	V15
6187383	SDPT43PDER8GB2 KCSM40	T116, T123, U39
6187384	SDPT43PDSR8GB2 KCSM40	T116, T123, U39
6187511	XPPW060310SRD KCPM40	V7
6187512	XPPW060310SRD KCPK30	V7
6187513	XPPW060310SRD KC522M	V7
6187514	XPPW060310SRD KC510M	V7
6187535	XDPW090412SRD KCPM40	V15
6187536	XDPW090412SRD KCPK30	V15
6187537	XDPW090412SRD KCK15	V15
6187538	XDPW090412SRD KC522M	V15
6187539	XDPW090412SRD KC510M	V15
6187714	XEPW160520SRD KCPM40	V28
6187715	XEPW160520SRD KCPK30	V28
6187716	XEPW160520SRD KCK15	V28
6187717	XEPW160520SRD KC522M	V28
6187806	XDPT120508ERD41 KCSM40	V22
6187808	XDPT120512ERD411 KCSM40	V22
6191237	KSDR100031E0W0S KD1400	S105
6191238	KSDR100031E0W0S KD1425	S105
6191358	RCGT64ELF KCSM40	V89
6191359	RCGT64SHF KCSM40	V89
6191360	RCGT86ELF KCSM40	V92
6191511	RCGT86SHF KCSM40	V92
6191557	XEPT160516ERD41 KCPM40	V28
6191558	XEPT160516ERD41 KCPK30	V28
6191559	XEPT160516ERD41 KC522M	V28
6191642	XDPT090412SRGP KCPM40	V16
6191643	XDPT090412SRGP KCPK30	V16
6191644	XDPT090412SRGP KC725M	V16
6191645	XDPT090412SRGP KC522M	V16
6197561	DTQ50140	S30
6200729	LNGU434SRGEM KCK15	T10
6200730	LNGU434SRGEM KCPK30	T10
6201021	LNGU434SRGEM KC520M	T10
6201022	LNGU434SRGEM KCPM40	T10
6201279	LNGU431SRGE KC522M	T9
6201280	LNGU431SRGE KCPM40	T9
6201291	LNGU431SRGE KCSM40	T9
6201292	LNGU431ERLEJ KC422M	T8
6201351	LNGU433ERGE KCSM40	T9
6201352	LNGU433ERGE KC522M	T9
6201353	LNGU433ERGE KCPM40	T9
6201354	LNGU432ERGE KCSM40	T9
6201903	M4D100L1104C075L450	T6
6201904	M4D125L1105C100L500	T6
6202190	MILL16E1200Z42ON08WSC	S31
6202291	MILL16E1400Z48ON08WSC	S31
6202292	MILL16E1600Z56ON08WSC	S31
6202293	MILL16E2000Z70ON08WSC	S31
6202335	K1200Z328RF60HN09WSC	S82
6202340	ONPX642SNGP KCK20	S34
6202371	ONPX645SNHB KCK20	S34
6205876	BTQSW3L90	S30
6214774	M4-11KITD062Z2W062SGEKCPM40	T11
6214775	M4-11KITD062Z2C062SGEKCPM40	T11
6214776	M4-11KITD075Z2W075SGEKCPM40	T11
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6295950	DNGA433S0735MT KBH10	B334
6295951	DNGA441S0415MT KBH10	B334
6295952	DNGA442S0415MT KBH10	B334

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6295953	DNGA443S0415MT KBH10	B334
6295954	DNGA442S0525MT KBH10	B334
6295955	DNGA443S0525MT KBH10	B334
6295956	SNGA432S0415MT KBH10	B337
6295957	SNGA432S0525MT KBH10	B337
6295958	SNGA433S0525MT KBH10	B337
6295959	TNGA331S0415MT KBH10	B339
6295960	TNGA332S0415MT KBH10	B339
6295971	TNGA333S0415MT KBH10	B339
6295972	TNGA332S0525MT KBH10	B339
6295973	TNGA333S0525MT KBH10	B339
6295974	TNGA332S0735MT KBH10	B339
6295975	TNGA333S0735MT KBH10	B339
6295976	VNGA331S0415MT KBH10	B342
6295977	VNGA332S0415MT KBH10	B342
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6300608	KNUX160405L1 KCM25B	E35
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6300612	KNUX160405R1 KCM25B	E35
6300613	KNUX160405R2 KCM25B	E35
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6350573	B212A05500SGL KCMS15	G31
6350575	B212A05800SGL KCMS15	G31
6350576	B212A06000SGL KCMS15	G31
6350577	B212A06350SGL KCMS15	G31
6350578	B212A06500SGL KCMS15	G31
6350579	B212A06630SGL KCMS15	G31
6350580	B212A06800SGL KCMS15	G31
6350591	B212A07000SGL KCMS15	G31
6350592	B212A07500SGL KCMS15	G31
6350593	B212A07800SGL KCMS15	G31
6350594	B212A08000SGL KCMS15	G31

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6350595	B212A08400SGL KCMS15	G31
6350596	B212A08500SGL KCMS15	G31
6350597	B212A08800SGL KCMS15	G32
6350598	B212A09000SGL KCMS15	G32
6350599	B212A09500SGL KCMS15	G32
6350600	B212A10000SGL KCMS15	G32
6350601	B212A10200SGL KCMS15	G32
6350602	B212A10500SGL KCMS15	G32
6350603	B212A11000SGL KCMS15	G32
6350604	B212A11800SGL KCMS15	G32
6350605	B212A12000SGL KCMS15	G32
6350606	B212A12500SGL KCMS15	G32
6350607	B212A13000SGL KCMS15	G32
6350608	B212A13500SGL KCMS15	G32
6350609	B212A14000SGL KCMS15	G32
6351164	B271Z02500SGL KCMS20	G68
6351166	B271Z03000SGL KCMS20	G68
6351168	B271Z03175SGL KCMS20	G68
6351170	B271Z03500SGL KCMS20	G68
6351172	B271Z03970SGL KCMS20	G68
6351174	B271Z04000SGL KCMS20	G68
6351176	B271Z04500SGL KCMS20	G68
6351178	B271Z04763SGL KCMS20	G68
6351179	B273Z02500SGL KCMS20	G72
6351191	B271Z04800SGL KCMS20	G68
6351192	B273Z03000SGL KCMS20	G72
6351194	B271Z05000SGL KCMS20	G68
6351195	B273Z03175SGL KCMS20	G72
6351197	B271Z05500SGL KCMS20	G68
6351198	B273Z03500SGL KCMS20	G72
6351200	B271Z05558SGL KCMS20	G68
6351201	B273Z04000SGL KCMS20	G72
6351203	B271Z06000SGL KCMS20	G68
6351204	B273Z04500SGL KCMS20	G72
6351206	B271Z06350SGL KCMS20	G68
6351207	B273Z05000SGL KCMS20	G72
6351209	B271Z06500SGL KCMS20	G69
6351210	B273Z05500SGL KCMS20	G72
6351212	B271Z06746SGL KCMS20	G69
6351213	B273Z06000SGL KCMS20	G72
6351215	B271Z07000SGL KCMS20	G69
6351216	B273Z06500SGL KCMS20	G72
6351218	B271Z07145SGL KCMS20	G69
6351219	B273Z07000SGL KCMS20	G72
6351221	B271Z07500SGL KCMS20	G69
6351222	B273Z08000SGL KCMS20	G72
6351224	B271Z07938SGL KCMS20	G69
6351225	B273Z08500SGL KCMS20	G72
6351227	B271Z08000SGL KCMS20	G69
6351228	B273Z09000SGL KCMS20	G72
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6351236	B271Z09000SGL KCMS20	G69
6351237	B273Z12000SGL KCMS20	G72
6351239	B271Z09525SGL KCMS20	G69
6351240	B273Z13000SGL KCMS20	G72
6351242	B271Z10000SGL KCMS20	G69
6351243	B273Z13500SGL KCMS20	G72
6351245	B271Z10320SGL KCMS20	G69
6351246	B273Z14000SGL KCMS20	G72
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6351249	B273Z15000SGL KCMS20	G72
6351251	B271Z11000SGL KCMS20	G69
6351252	B273Z16000SGL KCMS20	G72
6351254	B271Z11113SGL KCMS20	G69
6351255	B274Z02500SGL KCMS20	G73
6351257	B271Z11500SGL KCMS20	G69
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6351263	B271Z12700SGL KCMS20	G69
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6351275	B271Z16000SGL KCMS20	G69
6351276	B274Z04763SGL KCMS20	G73
6351278	B272Z02500SGL KCMS20	G70
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6351284	B272Z03175SGL KCMS20	G70
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6351303	B272Z04000SGL KCMS20	G70
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6351306	B272Z04500SGL KCMS20	G70
6351307	B274Z06500SGL KCMS20	G73
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6351456	B275Z09525SGL KCMS20	G75
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6351464	B275Z11000SGL KCMS20	G75
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6358166	B210A06350SGL KCMS15	G31
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6358185	B210A08600SGL KCMS15	G31
6358186	B210A08700SGL KCMS15	G32
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6358193	B210A09921SGL KCMS15	G32
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6358198	B210A10716SGL KCMS15	G32
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6358207	B210A12500SGL KCMS15	G32
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6358210	B210A13000SGL KCMS15	G32
6358211	B210A13495SGL KCMS15	G32
6358212	B210A13500SGL KCMS15	G32
6358213	B210A14000SGL KCMS15	G32
6358214	B210A14100SGL KCMS15	G32
6358215	B210A14200SGL KCMS15	G33
6358216	B210A14500SGL KCMS15	G33
6358217	B210A15000SGL KCMS15	G33
6358218	B210A15500SGL KCMS15	G33
6358219	B210A15875SGL KCMS15	G33
6358220	B210A16000SGL KCMS15	G33
6358221	B210A16129SGL KCMS15	G33
6358222	B210A16500SGL KCMS15	G33
6358223	B210A16670SGL KCMS15	G33
6358224	B210A17000SGL KCMS15	G33
6358225	B210A17500SGL KCMS15	G33
6358226	B210A18000SGL KCMS15	G33
6358227	B210A18500SGL KCMS15	G33
6358228	B210A19050SGL KCMS15	G33
6358229	B210A19500SGL KCMS15	G33
6358230	B210A20000SGL KCMS15	G33
6358241	B210Z02500SGL KCMS15	G30
6358971	B941Z02500 KCH10	G124
6358972	B941A03000 KCH10	G124
6358973	B941A03300 KCH10	G124
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6358978	B941A04300 KCH10	G124
6358979	B941A04500 KCH10	G124
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6358994	B941A10200 KCH10	G124
6358995	B941A10400 KCH10	G124
6358996	B941A10500 KCH10	G124
6358997	B941A11100 KCH10	G124
6358998	B941A12000 KCH10	G124
6358999	B941A14000 KCH10	G124
6359000	B951A03000 KCH10	G125
6359011	B951A03175 KCH10	G125
6359012	B951A03454 KCH10	G125
6359013	B951A03500 KCH10	G125
6359014	B951A03800 KCH10	G125
6359015	B951A04000 KCH10	G125
6359016	B951A04100 KCH10	G125
6359017	B951A04200 KCH10	G125
6359018	B951A04300 KCH10	G125
6359019	B951A04500 KCH10	G125
6359020	B951A04800 KCH10	G125
6359021	B951A04900 KCH10	G125
6359022	B951A05000 KCH10	G125
6359023	B951A05500 KCH10	G125
6359024	B951A05800 KCH10	G125

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6359025	B951A06000 KCH10	G125
6359026	B951A06350 KCH10	G125
6359027	B951A06500 KCH10	G125
6359028	B951A06800 KCH10	G125
6359029	B951A07000 KCH10	G125
6359030	B951A08000 KCH10	G125
6359031	B951A08500 KCH10	G125
6359032	B951A09000 KCH10	G125
6359033	B951A09500 KCH10	G125
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6359044	B951A12700 KCH10	G125
6359045	B951A12800 KCH10	G125
6359046	B951A13000 KCH10	G126
6359047	B951A13500 KCH10	G126
6359048	B951A14000 KCH10	G126
6359049	B951A14500 KCH10	G126
6359050	B951A15500 KCH10	G126
6359051	B951A16000 KCH10	G126
6370147	KTFST16000HPCM KC7410	H13
6370148	KTFST06340HPC KC7410	H13
6370149	KTFST16100HPCM KC7410	H13
6370150	KTFST16200HPCM KC7410	H13
6370351	KTFST06406HPC KC7410	H13
6370352	KTFST16300HPCM KC7410	H13
6370353	KTFST16500HPCM KC7410	H13
6370354	KTFST16550HPCM KC7410	H13
6370355	KTFST16600HPCM KC7410	H13
6370356	KTFST06563HPC KC7410	H13
6370357	KTFST17000HPCM KC7410	H13
6370358	KTFST06719HPC KC7410	H13
6370359	KTFST17100HPCM KC7410	H13
6370360	KTFST17200HPCM KC7410	H13
6370361	KTFST17300HPCM KC7410	H13
6370362	KTFST06875HPC KC7410	H13
6370363	KTFST17500HPCM KC7410	H13
6370364	KTFST17550HPCM KC7410	H13
6370365	KTFST17600HPCM KC7410	H13
6370366	KTFST17700HPCM KC7410	H13
6370367	KTFST17800HPCM KC7410	H13
6370368	KTFST18000HPCM KC7410	H13
6370369	KTFST18100HPCM KC7410	H13
6370370	KTFST07188HPC KC7410	H13
6370381	KTFST18500HPCM KC7410	H13
6370382	KTFST18600HPCM KC7410	H13
6370383	KTFST18700HPCM KC7410	H13
6370384	KTFST19000HPCM KC7410	H13
6370385	KTFST07500HPC KC7410	H13
6370386	KTFST07590HPC KC7410	H13
6370387	KTFST07656HPC KC7410	H13
6370388	KTFST19500HPCM KC7410	H13
6370389	KTFST19800HPCM KC7410	H13
6370390	KTFST20000HPCM KC7410	H13
6370401	KTFST07969HPC KC7410	H13
6370402	KTFST20300HPCM KC7410	H13
6370403	KTFST20500HPCM KC7410	H13
6370404	KTFST08125HPC KC7410	H13
6370405	KTFST21000HPCM KC7410	H13
6370406	KTFST08438HPC KC7410	H13
6370407	KTFST21500HPCM KC7410	H13
6370408	KTFST22000HPCM KC7410	H13
6370409	KTFST08750HPC KC7410	H13
6370410	KTFST22440HPCM KC7410	H13
6370411	KTFST22500HPCM KC7410	H13
6370412	KTFST23000HPCM KC7410	H13
6370413	KTFST09219HPC KC7410	H13
6370414	KTFST23500HPCM KC7410	H13
6370415	KTFST09375HPC KC7410	H13
6370416	KTFST24000HPCM KC7410	H13
6370417	KTFST24500HPCM KC7410	H13
6370418	KTFST09688HPC KC7410	H13
6370419	KTFST25000HPCM KC7410	H13
6370420	KTFST25070HPCM KC7410	H13
6370421	KTFST10000HPC KC7410	H13
6370422	KTFST25500HPCM KC7410	H13
6370423	KTFST10110HPC KC7410	H13
6370424	KTFST10160HPC KC7410	H13
6370425	KTFST26000HPCM KC7410	H13
6370700	KTFST06000HPCM KC7410	H12
6370871	KTFST06200HPCM KC7410	H12
6370872	KTFST02500HPC KC7410	H12
6370873	KTFST06500HPCM KC7410	H12
6370874	KTFST06530HPCM KC7410	H12
6370875	KTFST02656HPC KC7410	H12
6370876	KTFST06700HPCM KC7410	H12
6370877	KTFST06800HPCM KC7410	H12
6370878	KTFST07000HPCM KC7410	H12
6370879	KTFST02813HPC KC7410	H12
6370880	KTFST07300HPCM KC7410	H12
6370881	KTFST07500HPCM KC7410	H12
6370882	KTFST07600HPCM KC7410	H12
6370883	KTFST07800HPCM KC7410	H12
6370884	KTFST03125HPC KC7410	H12
6370885	KTFST08000HPCM KC7410	H12
6370886	KTFST08100HPCM KC7410	H12
6370887	KTFST03230HPC KC7410	H12
6370888	KTFST08500HPCM KC7410	H12
6370889	KTFST08600HPCM KC7410	H12
6370890	KTFST08700HPCM KC7410	H12
6370891	KTFST03438HPC KC7410	H12
6370892	KTFST09000HPCM KC7410	H12
6370893	KTFST09100HPCM KC7410	H12
6370894	KTFST09500HPCM KC7410	H12
6370895	KTFST03750HPC KC7410	H12
6370896	KTFST09600HPCM KC7410	H12
6370897	KTFST09700HPCM KC7410	H12
6370898	KTFST09800HPCM KC7410	H12
6370899	KTFST03906HPC KC7410	H12
6370900	KTFST10000HPCM KC7410	H12
6370901	KTFST03946HPC KC7410	H12
6370902	KTFST10200HPCM KC7410	H12
6370903	KTFST10300HPCM KC7410	H12
6370904	KTFST04063HPC KC7410	H12
6370905	KTFST10500HPCM KC7410	H12
6370906	KTFST16000HPLM KCMS15	H16
6370907	KTFST06340HPL KCMS15	H16
6370908	KTFST10600HPCM KC7410	H12
6370909	KTFST16100HPLM KCMS15	H16
6370910	KTFST10700HPCM KC7410	H12
6370911	KTFST16150HPLM KCMS15	H16
6370912	KTFST04219HPC KC7410	H12
6370913	KTFST06406HPL KCMS15	H16
6370914	KTFST10800HPCM KC7410	H12
6370915	KTFST11000HPCM KC7410	H12
6370916	KTFST16500HPLM KCMS15	H16
6370917	KTFST11100HPCM KC7410	H12
6370918	KTFST06563HPL KCMS15	H16
6370919	KTFST04375HPC KC7410	H12
6370920	KTFST17000HPLM KCMS15	H16
6370921	KTFST11400HPCM KC7410	H12
6370922	KTFST06875HPL KCMS15	H16
6370923	KTFST11500HPCM KC7410	H12
6370924	KTFST17480HPLM KCMS15	H16
6370925	KTFST11800HPCM KC7410	H12
6370926	KTFST17500HPLM KCMS15	H16
6370927	KTFST17700HPLM KCMS15	H16
6370928	KTFST04688HPC KC7410	H12
6370929	KTFST18000HPLM KCMS15	H16
6370930	KTFST12000HPCM KC7410	H12
6370931	KTFST07188HPL KCMS15	H16
6370932	KTFST04844HPC KC7410	H12
6370933	KTFST18500HPLM KCMS15	H16
6370934	KTFST12500HPCM KC7410	H12
6370935	KTFST07344HPL KCMS15	H16
6370936	KTFST05000HPC KC7410	H12
6370937	KTFST19000HPLM KCMS15	H16
6370938	KTFST13000HPCM KC7410	H12
6370939	KTFST07500HPL KCMS15	H16
6370940	KTFST05156HPC KC7410	H12
6370941	KTFST19200HPLM KCMS15	H16
6370942	KTFST07570HPL KCMS15	H16
6370943	KTFST13200HPCM KC7410	H12
6370944	KTFST07580HPL KCMS15	H16
6370945	KTFST13300HPCM KC7410	H12
6370946	KTFST05312HPC KC7410	H12
6370947	KTFST07590HPL KCMS15	H16
6370948	KTFST13500HPCM KC7410	H12
6370949	KTFST07620HPL KCMS15	H16
6370950	KTFST13600HPCM KC7410	H12
6370951	KTFST07656HPL KCMS15	H16
6370952	KTFST13800HPCM KC7410	H12
6370953	KTFST19460HPLM KCMS15	H16
6370954	KTFST05469HPC KC7410	H12
6370955	KTFST19500HPLM KCMS15	H16
6370956	KTFST06000HPLM KCMS15	H15
6370957	KTFST07813HPL KCMS15	H16
6370958	KTFST14000HPCM KC7410	H12
6370959	KTFST19850HPLM KCMS15	H16
6370960	KTFST14100HPCM KC7410	H12
6370971	KTFST02500HPL KCMS15	H15
6370972	KTFST20000HPLM KCMS15	H16
6370973	KTFST05625HPC KC7410	H12
6370974	KTFST06500HPLM KCMS15	H15
6370975	KTFST20500HPLM KCMS15	H16
6370976	KTFST14500HPCM KC7410	H12
6370977	KTFST02610HPL KCMS15	H15
6370978	KTFST08125HPL KCMS15	H16
6370979	KTFST14600HPCM KC7410	H12
6370980	KTFST06800HPLM KCMS15	H15
6370981	KTFST21000HPLM KCMS15	H16
6370982	KTFST21150HPLM KCMS15	H16
6370983	KTFST07000HPLM KCMS15	H15
6370984	KTFST05781HPC KC7410	H12
6370985	KTFST21500HPLM KCMS15	H16
6370986	KTFST07500HPLM KCMS15	H15
6370987	KTFST07800HPLM KCMS15	H15
6370988	KTFST22000HPLM KCMS15	H16
6370989	KTFST14800HPCM KC7410	H12
6370990	KTFST03125HPL KCMS15	H15
6370991	KTFST08750HPL KCMS15	H16
6370992	KTFST08000HPLM KCMS15	H15
6370993	KTFST22500HPLM KCMS15	H16
6370994	KTFST08100HPLM KCMS15	H15
6370995	KTFST15000HPCM KC7410	H12
6370996	KTFST23000HPLM KCMS15	H16
6370997	KTFST03230HPL KCMS15	H15
6370998	KTFST05938HPC KC7410	H12
6370999	KTFST23500HPLM KCMS15	H16
6371000	KTFST03281HPL KCMS15	H15
6371001	KTFST15100HPCM KC7410	H12
6371002	KTFST09375HPL KCMS15	H16
6371003	KTFST08400HPLM KCMS15	H15
6371004	KTFST15200HPCM KC7410	H12
6371005	KTFST24000HPLM KCMS15	H16
6371006	KTFST08500HPLM KCMS15	H15
6371007	KTFST15300HPCM KC7410	H12
6371008	KTFST24500HPLM KCMS15	H16
6371009	KTFST08600HPLM KCMS15	H15
6371010	KTFST15500HPCM KC7410	H13
6371011	KTFST25000HPLM KCMS15	H16
6371012	KTFST08700HPLM KCMS15	H15
6371013	KTFST15600HPCM KC7410	H13
6371014	KTFST10000HPL KCMS15	H16
6371015	KTFST08800HPLM KCMS15	H15
6371016	KTFST15800HPCM KC7410	H13
6371017	KTFST25500HPLM KCMS15	H16
6371018	KTFST08900HPLM KCMS15	H15
6371019	KTFST06250HPC KC7410	H13
6371020	KTFST25600HPLM KCMS15	H16
6371031	KTFST09000HPLM KCMS15	H15
6371032	KTFST25650HPLM KCMS15	H16
6371033	KTFST09100HPLM KCMS15	H15
6371034	KTFST10110HPL KCMS15	H16
6371035	KTFST09200HPLM KCMS15	H15
6371036	KTFST10160HPL KCMS15	H16
6371037	KTFST09400HPLM KCMS15	H15
6371038	KTFST26000HPLM KCMS15	H16
6371039	KTFST09500HPLM KCMS15	H15
6371040	KTFST03763HPL KCMS15	H15
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6371054	KTFST10800HPLM KCMS15	H15
6371055	KTFST10900HPLM KCMS15	H15
6371056	KTFST11000HPLM KCMS15	H15
6371057	KTFST11100HPLM KCMS15	H15
6371058	KTFST04375HPL KCMS15	H15
6371059	KTFST11200HPLM KCMS15	H15
6371060	KTFST11400HPLM KCMS15	H15
6371061	KTFST11500HPLM KCMS15	H15
6371062	KTFST11600HPLM KCMS15	H15
6371063	KTFST11800HPLM KCMS15	H15
6371064	KTFST04688HPL KCMS15	H15
6371065	KTFST12000HPLM KCMS15	H15
6371066	KTFST12200HPLM KCMS15	H15
6371067	KTFST04844HPL KCMS15	H15
6371068	KTFST12500HPLM KCMS15	H15
6371069	KTFST05000HPL KCMS15	H15
6371070	KTFST12800HPLM KCMS15	H15
6371071	KTFST12900HPLM KCMS15	H15
6371072	KTFST13000HPLM KCMS15	H15
6371073	KTFST05156HPL KCMS15	H15
6371074	KTFST13200HPLM KCMS15	H15
6371075	KTFST05312HPL KCMS15	H15
6371076	KTFST13500HPLM KCMS15	H15
6371077	KTFST13800HPLM KCMS15	H15
6371078	KTFST05469HPL KCMS15	H15
6371079	KTFST05471HPL KCMS15	H15
6371080	KTFST14000HPLM KCMS15	H15
6371081	KTFST14100HPLM KCMS15	H15
6371082	KTFST14200HPLM KCMS15	H15
6371083	KTFST05625HPL KCMS15	H15
6371084	KTFST14300HPLM KCMS15	H15
6371085	KTFST14400HPLM KCMS15	H15
6371086	KTFST14500HPLM KCMS15	H15
6371087	KTFST05781HPL KCMS15	H15
6371088	KTFST14800HPLM KCMS15	H16
6371089	KTFST15000HPLM KCMS15	H16
6371090	KTFST15100HPLM KCMS15	H16
6371111	KTFST15200HPLM KCMS15	H16
6371112	KTFST15500HPLM KCMS15	H16
6371113	KTFST06250HPL KCMS15	H16
6371340	KTFS100R03SS12M	H18
6371961	KTFS105R03SS12M	H18
6371962	KTFS110R03SS12M	H18
6371963	KTFS115R03SS12M	H18
6371964	KTFS120R03SS14M	H18
6371965	KTFS125R03SS14M	H18
6371966	KTFS130R03SS14M	H18
6371967	KTFS135R03SS14M	H18
6371968	KTFS140R03SS16M	H18
6371969	KTFS145R03SS16M	H18
6371970	KTFS150R03SS16M	H18
6371971	KTFS160R03SS16M	H18
6371972	KTFS170R03SS20M	H18
6371973	KTFS100R05SS12M	H18
6371974	KTFS105R05SS12M	H18
6371975	KTFS110R05SS12M	H18
6371976	KTFS115R05SS12M	H18
6371977	KTFS120R05SS14M	H18
6371978	KTFS125R05SS14M	H18
6371979	KTFS130R05SS14M	H18
6371980	KTFS135R05SS14M	H18
6371981	KTFS140R05SS16M	H18
6371982	KTFS145R05SS16M	H18
6371983	KTFS150R05SS16M	H18
6371984	KTFS160R05SS16M	H18
6371985	KTFS170R05SS20M	H18
6371986	KTFS100R08SS12M	H18
6371987	KTFS105R08SS12M	H18
6371988	KTFS110R08SS12M	H18
6371989	KTFS115R08SS12M	H18
6371990	KTFS120R08SS14M	H18
6371991	KTFS125R08SS14M	H18
6371992	KTFS130R08SS14M	H18
6371993	KTFS135R08SS14M	H18
6371994	KTFS140R08SS16M	H18
6371995	KTFS145R08SS16M	H18
6371996	KTFS150R08SS16M	H18
6371997	KTFS160R08SS16M	H18

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6371999	KTFS170R08SS20M	H18
6372000	KTFS0394R03SS044	H20
6372011	KTFS0414R03SS044	H20
6372012	KTFS0434R03SS044	H20
6372013	KTFS0453R03SS050	H20
6372014	KTFS0473R03SS050	H20
6372015	KTFS0493R03SS050	H20
6372016	KTFS0512R03SS056	H20
6372017	KTFS0532R03SS056	H20
6372018	KTFS0552R03SS056	H20
6372019	KTFS0571R03SS063	H20
6372020	KTFS0591R03SS063	H20
6372021	KTFS0630R03SS063	H20
6372022	KTFS0670R03SS075	H20
6372023	KTFS0394R05SS044	H20
6372024	KTFS0414R05SS044	H20
6372025	KTFS0434R05SS044	H20
6372026	KTFS0453R05SS050	H20
6372027	KTFS0473R05SS050	H20
6372028	KTFS0493R05SS050	H20
6372029	KTFS0512R05SS056	H20
6372030	KTFS0532R05SS056	H20
6372051	KTFS0552R05SS056	H20
6372052	KTFS0571R05SS063	H20
6372053	KTFS0591R05SS063	H20
6372054	KTFS0630R05SS063	H20
6372055	KTFS0670R05SS075	H20
6372056	KTFS0394R08SS044	H20
6372057	KTFS0414R08SS044	H20
6372058	KTFS0434R08SS044	H20
6372059	KTFS0453R08SS050	H20
6372060	KTFS0473R08SS050	H20
6372062	KTFS0493R08SS050	H20
6372063	KTFS0512R08SS056	H20
6372064	KTFS0532R08SS056	H20
6372065	KTFS0552R08SS056	H20
6372066	KTFS0571R08SS063	H20
6372067	KTFS0591R08SS063	H20
6372068	KTFS0630R08SS063	H20
6372069	KTFS0670R08SS075	H20
6372514	KTFS100R03SCF16M	H19
6372515	KTFS105R03SCF16M	H19
6372516	KTFS110R03SCF16M	H19
6372517	KTFS115R03SCF16M	H19
6372518	KTFS120R03SCF16M	H19
6372519	KTFS125R03SCF16M	H19
6372520	KTFS130R03SCF16M	H19
6372591	KTFS135R03SCF16M	H19
6372592	KTFS140R03SCF16M	H19
6372593	KTFS145R03SCF16M	H19
6372594	KTFS150R03SCF20M	H19
6372595	KTFS160R03SCF20M	H19
6372596	KTFS170R03SCF20M	H19
6372597	KTFS100R05SCF16M	H19
6372598	KTFS105R05SCF16M	H19
6372599	KTFS110R05SCF16M	H19
6372600	KTFS115R05SCF16M	H19
6372601	KTFS120R05SCF16M	H19
6372602	KTFS125R05SCF16M	H19
6372603	KTFS130R05SCF16M	H19
6372604	KTFS135R05SCF16M	H19
6372605	KTFS140R05SCF16M	H19
6372606	KTFS145R05SCF16M	H19
6372607	KTFS150R05SCF20M	H19
6372608	KTFS160R05SCF20M	H19
6372609	KTFS170R05SCF20M	H19
6372610	KTFS100R08SCF16M	H19
6372611	KTFS105R08SCF16M	H19
6372612	KTFS110R08SCF16M	H19
6372613	KTFS115R08SCF16M	H19
6372614	KTFS120R08SCF16M	H19
6372615	KTFS125R08SCF16M	H19
6372616	KTFS130R08SCF16M	H19
6372617	KTFS135R08SCF16M	H19
6372618	KTFS140R08SCF16M	H19
6372619	KTFS145R08SCF16M	H19
6372620	KTFS150R08SCF20M	H19
6372621	KTFS160R08SCF20M	H19
6372622	KTFS170R08SCF20M	H19
6388420	KTFSS16000HPGM KCP15A	H9
6388531	KTFSS06310HPG KCP15A	H9
6388532	KTFSS16080HPGM KCP15A	H9
6388533	KTFSS06340HPG KCP15A	H9
6388534	KTFSS16100HPGM KCP15A	H9
6388535	KTFSS16200HPGM KCP15A	H9
6388536	KTFSS06406HPG KCP15A	H9
6388537	KTFSS16300HPGM KCP15A	H9
6388538	KTFSS16400HPGM KCP15A	H9
6388539	KTFSS06000HPGM KCP15A	H8
6388540	KTFSS16500HPGM KCP15A	H9
6388541	KTFSS06100HPGM KCP15A	H8
6388542	KTFSS16600HPGM KCP15A	H9
6388543	KTFSS06200HPGM KCP15A	H8
6388544	KTFSS06563HPG KCP15A	H9
6388545	KTFSS06300HPGM KCP15A	H8
6388546	KTFSS16700HPGM KCP15A	H9
6388547	KTFSS02500HPG KCP15A	H8
6388548	KTFSS16800HPGM KCP15A	H9
6388549	KTFSS06400HPGM KCP15A	H8
6388550	KTFSS16900HPGM KCP15A	H9
6388551	KTFSS06500HPGM KCP15A	H8
6388552	KTFSS17000HPGM KCP15A	H9
6388553	KTFSS06530HPGM KCP15A	H8
6388554	KTFSS06719HPG KCP15A	H9
6388555	KTFSS06600HPGM KCP15A	H8
6388556	KTFSS17100HPGM KCP15A	H9
6388557	KTFSS02610HPG KCP15A	H8
6388558	KTFSS17200HPGM KCP15A	H9
6388559	KTFSS06700HPGM KCP15A	H8
6388560	KTFSS17300HPGM KCP15A	H9
6388561	KTFSS02656HPG KCP15A	H8
6388562	KTFSS17400HPGM KCP15A	H9
6388563	KTFSS06800HPGM KCP15A	H8
6388564	KTFSS06875HPG KCP15A	H9
6388565	KTFSS06900HPGM KCP15A	H8
6388566	KTFSS17480HPGM KCP15A	H9
6388567	KTFSS02720HPG KCP15A	H8
6388568	KTFSS17500HPGM KCP15A	H9
6388569	KTFSS07000HPGM KCP15A	H8
6388570	KTFSS17600HPGM KCP15A	H9
6388571	KTFSS07100HPGM KCP15A	H8
6388572	KTFSS17700HPGM KCP15A	H9
6388573	KTFSS02813HPG KCP15A	H8
6388574	KTFSS17800HPGM KCP15A	H9
6388575	KTFSS07031HPG KCP15A	H9
6388576	KTFSS07200HPGM KCP15A	H8
6388577	KTFSS17900HPGM KCP15A	H9
6388578	KTFSS02900HPG KCP15A	H8
6388579	KTFSS18000HPGM KCP15A	H9
6388580	KTFSS07400HPGM KCP15A	H8
6388581	KTFSS18100HPGM KCP15A	H9
6388582	KTFSS07500HPGM KCP15A	H8
6388583	KTFSS18200HPGM KCP15A	H9
6388584	KTFSS02969HPG KCP15A	H8
6388585	KTFSS07188HPG KCP15A	H9
6388586	KTFSS07600HPGM KCP15A	H8
6388587	KTFSS18300HPGM KCP15A	H9
6388588	KTFSS07700HPGM KCP15A	H8
6388589	KTFSS18400HPGM KCP15A	H9
6388590	KTFSS07800HPGM KCP15A	H8
6388591	KTFSS18500HPGM KCP15A	H9
6388592	KTFSS07900HPGM KCP15A	H8
6388593	KTFSS18600HPGM KCP15A	H9
6388594	KTFSS03125HPG KCP15A	H8
6388595	KTFSS07344HPG KCP15A	H9
6388596	KTFSS08000HPGM KCP15A	H8
6388597	KTFSS18700HPGM KCP15A	H9
6388598	KTFSS08100HPGM KCP15A	H8
6388599	KTFSS03214HPG KCP15A	H8
6388600	KTFSS18800HPGM KCP15A	H9
6388601	KTFSS18900HPGM KCP15A	H9
6388602	KTFSS03230HPG KCP15A	H8
6388603	KTFSS19000HPGM KCP15A	H9
6388604	KTFSS08300HPGM KCP15A	H8
6388605	KTFSS07500HPG KCP15A	H9
6388606	KTFSS03281HPG KCP15A	H8
6388607	KTFSS19100HPGM KCP15A	H9
6388608	KTFSS08400HPGM KCP15A	H8
6388609	KTFSS19200HPGM KCP15A	H9
6388610	KTFSS03320HPG KCP15A	H8
6388611	KTFSS08500HPGM KCP15A	H8
6388612	KTFSS07570HPG KCP15A	H9
6388613	KTFSS08600HPGM KCP15A	H8
6388614	KTFSS07580HPG KCP15A	H9
6388615	KTFSS03390HPG KCP15A	H8
6388616	KTFSS07590HPG KCP15A	H9
6388617	KTFSS08700HPGM KCP15A	H8
6388618	KTFSS19300HPGM KCP15A	H9
6388619	KTFSS07620HPG KCP15A	H9
6388620	KTFSS03438HPG KCP15A	H8
6388621	KTFSS19400HPGM KCP15A	H10
6388622	KTFSS08800HPGM KCP15A	H8
6388623	KTFSS07656HPG KCP15A	H10
6388624	KTFSS03480HPG KCP15A	H8
6388625	KTFSS19460HPGM KCP15A	H10
6388626	KTFSS08900HPGM KCP15A	H8
6388627	KTFSS19500HPGM KCP15A	H10
6388628	KTFSS09000HPGM KCP15A	H8
6388629	KTFSS19600HPGM KCP15A	H10
6388630	KTFSS03580HPG KCP15A	H8
6388641	KTFSS19700HPGM KCP15A	H10
6388642	KTFSS09100HPGM KCP15A	H8
6388643	KTFSS19800HPGM KCP15A	H10
6388644	KTFSS03594HPG KCP15A	H8
6388645	KTFSS07813HPG KCP15A	H10
6388646	KTFSS09200HPGM KCP15A	H8
6388647	KTFSS19900HPGM KCP15A	H10
6388648	KTFSS09300HPGM KCP15A	H8
6388649	KTFSS20000HPGM KCP15A	H10
6388650	KTFSS03680HPG KCP15A	H8
6388651	KTFSS20100HPGM KCP15A	H10
6388652	KTFSS09400HPGM KCP15A	H8
6388653	KTFSS20200HPGM KCP15A	H10
6388654	KTFSS09500HPGM KCP15A	H8
6388655	KTFSS07969HPG KCP15A	H10
6388656	KTFSS03750HPG KCP15A	H8
6388657	KTFSS20300HPGM KCP15A	H10
6388658	KTFSS03763HPG KCP15A	H8
6388659	KTFSS20500HPGM KCP15A	H10
6388660	KTFSS09600HPGM KCP15A	H8
6388661	KTFSS20600HPGM KCP15A	H10
6388662	KTFSS09700HPGM KCP15A	H8
6388663	KTFSS08125HPG KCP15A	H10
6388664	KTFSS09800HPGM KCP15A	H8
6388665	KTFSS20700HPGM KCP15A	H10
6388666	KTFSS09900HPGM KCP15A	H8
6388667	KTFSS20800HPGM KCP15A	H10
6388668	KTFSS03906HPG KCP15A	H8
6388669	KTFSS20900HPGM KCP15A	H10
6388670	KTFSS10000HPGM KCP15A	H8
6388671	KTFSS20990HPGM KCP15A	H10
6388672	KTFSS03946HPG KCP15A	H8
6388673	KTFSS21000HPGM KCP15A	H10
6388674	KTFSS03970HPG KCP15A	H8
6388675	KTFSS21100HPGM KCP15A	H10
6388676	KTFSS10100HPGM KCP15A	H8
6388677	KTFSS21200HPGM KCP15A	H10
6388678	KTFSS10200HPGM KCP15A	H8
6388679	KTFSS21300HPGM KCP15A	H10
6388680	KTFSS04040HPG KCP15A	H8
6388681	KTFSS21400HPGM KCP15A	H10
6388682	KTFSS10300HPGM KCP15A	H8
6388683	KTFSS08438HPG KCP15A	H10
6388684	KTFSS04063HPG KCP15A	H8
6388685	KTFSS21500HPGM KCP15A	H10
6388686	KTFSS10400HPGM KCP15A	H8
6388687	KTFSS21700HPGM KCP15A	H10
6388688	KTFSS04130HPG KCP15A	H8
6388689	KTFSS21800HPGM KCP15A	H10
6388690	KTFSS10500HPGM KCP15A	H8
6388691	KTFSS08594HPG KCP15A	H10
6388692	KTFSS10600HPGM KCP15A	H8
6388693	KTFSS21900HPGM KCP15A	H10
6388694	KTFSS10700HPGM KCP15A	H8
6388695	KTFSS22000HPGM KCP15A	H10
6388696	KTFSS04219HPG KCP15A	H8
6388697	KTFSS22100HPGM KCP15A	H10
6388698	KTFSS10800HPGM KCP15A	H8
6388699	KTFSS22200HPGM KCP15A	H10
6388700	KTFSS10900HPGM KCP15A	H8
6388701	KTFSS08750HPG KCP15A	H10
6388702	KTFSS11000HPGM KCP15A	H8
6388703	KTFSS22400HPGM KCP15A	H10
6388704	KTFSS11100HPGM KCP15A	H8
6388705	KTFSS22500HPGM KCP15A	H10
6388706	KTFSS04375HPG KCP15A	H8
6388707	KTFSS22600HPGM KCP15A	H10
6388708	KTFSS11200HPGM KCP15A	H8
6388709	KTFSS22700HPGM KCP15A	H10
6388710	KTFSS11300HPGM KCP15A	H9
6388711	KTFSS22800HPGM KCP15A	H10
6388712	KTFSS11400HPGM KCP15A	H9
6388713	KTFSS22900HPGM KCP15A	H10
6388714	KTFSS11500HPGM KCP15A	H9
6388715	KTFSS23000HPGM KCP15A	H10
6388716	KTFSS04531HPG KCP15A	H9
6388717	KTFSS23100HPGM KCP15A	H10
6388718	KTFSS11600HPGM KCP15A	H9
6388719	KTFSS23200HPGM KCP15A	H10
6388720	KTFSS11700HPGM KCP15A	H9
6388721	KTFSS23300HPGM KCP15A	H10
6388722	KTFSS11800HPGM KCP15A	H9
6388723	KTFSS23400HPGM KCP15A	H10
6388724	KTFSS11900HPGM KCP15A	H9
6388725	KTFSS09219HPG KCP15A	H10
6388726	KTFSS04688HPG KCP15A	H9
6388727	KTFSS23500HPGM KCP15A	H10
6388728	KTFSS12000HPGM KCP15A	H9
6388729	KTFSS23600HPGM KCP15A	H10
6388730	KTFSS12100HPGM KCP15A	H9
6388731	KTFSS23700HPGM KCP15A	H10
6388732	KTFSS12200HPGM KCP15A	H9
6388733	KTFSS23800HPGM KCP15A	H10
6388734	KTFSS04844HPG KCP15A	H9
6388735	KTFSS09375HPG KCP15A	H10
6388736	KTFSS12400HPGM KCP15A	H9
6388737	KTFSS23900HPGM KCP15A	H10
6388738	KTFSS04911HPG KCP15A	H9
6388739	KTFSS24000HPGM KCP15A	H10
6388740	KTFSS12500HPGM KCP15A	H9
6388741	KTFSS24100HPGM KCP15A	H10
6388742	KTFSS12600HPGM KCP15A	H9
6388743	KTFSS24200HPGM KCP15A	H10
6388744	KTFSS05000HPG KCP15A	H9
6388745	KTFSS24300HPGM KCP15A	H10
6388746	KTFSS12800HPGM KCP15A	H9
6388747	KTFSS24400HPGM KCP15A	H10
6388749	KTFSS12900HPGM KCP15A	H9
6388750	KTFSS24500HPGM KCP15A	H10
6388751	KTFSS13000HPGM KCP15A	H9
6388752	KTFSS24600HPGM KCP15A	H10
6388753	KTFSS05156HPG KCP15A	H9
6388754	KTFSS09688HPG KCP15A	H10
6388755	KTFSS13200HPGM KCP15A	H9
6388756	KTFSS24700HPGM KCP15A	H10
6388757	KTFSS13280HPGM KCP15A	H9
6388758	KTFSS24800HPGM KCP15A	H10
6388759	KTFSS13300HPGM KCP15A	H9
6388760	KTFSS24900HPGM KCP15A	H10
6388761	KTFSS13380HPGM KCP15A	H9
6388762	KTFSS25000HPGM KCP15A	H10
6388763	KTFSS13400HPGM KCP15A	H9
6388764	KTFSS25100HPGM KCP15A	H10
6388765	KTFSS05312HPG KCP15A	H9
6388766	KTFSS25200HPGM KCP15A	H10
6388767	KTFSS13500HPGM KCP15A	H9
6388768	KTFSS25250HPGM KCP15A	H10
6388769	KTFSS13600HPGM KCP15A	H9
6388770	KTFSS25300HPGM KCP15A	H10
6388771	KTFSS13700HPGM KCP15A	H9
6388772	KTFSS10000HPG KCP15A	H10
6388773	KTFSS13800HPGM KCP15A	H9
6388774	KTFSS25500HPGM KCP15A	H10
6388775	KTFSS05469HPG KCP15A	H9
6388776	KTFSS25540HPGM KCP15A	H10
6388777	KTFSS05471HPG KCP15A	H9
6388778	KTFSS25600HPGM KCP15A	H10
6388779	KTFSS13940HPGM KCP15A	H9
6388780	KTFSS10110HPG KCP15A	H10
6388781	KTFSS14000HPGM KCP15A	H9
6388782	KTFSS25700HPGM KCP15A	H10
6388783	KTFSS25800HPGM KCP15A	H10
6388784	KTFSS14100HPGM KCP15A	H9
6388785	KTFSS10160HPG KCP15A	H10
6388786	KTFSS14200HPGM KCP15A	H9
6388787	KTFSS05625HPG KCP15A	H9
6388788	KTFSS25900HPGM KCP15A	H10
6388789	KTFSS14300HPGM KCP15A	H9

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Order No.	Catalog No.	Page(s)
6388790	KTFSS26000HPGM KCP15A	H10
6388791	KTFSS14400HPGM KCP15A	H9
6388792	KTFSS14500HPGM KCP15A	H9
6388793	KTFSS14600HPGM KCP15A	H9
6388794	KTFSS05774HPG KCP15A	H9
6388795	KTFSS05781HPG KCP15A	H9
6388796	KTFSS14700HPGM KCP15A	H9
6388798	KTFSS14800HPGM KCP15A	H9
6388799	KTFSS14900HPGM KCP15A	H9
6388800	KTFSS15000HPGM KCP15A	H9
6388821	KTFSS05938HPG KCP15A	H9
6388822	KTFSS15100HPGM KCP15A	H9
6388823	KTFSS15200HPGM KCP15A	H9
6388824	KTFSS15300HPGM KCP15A	H9
6388825	KTFSS15380HPGM KCP15A	H9
6388826	KTFSS15400HPGM KCP15A	H9
6388828	KTFSS06094HPG KCP15A	H9
6388829	KTFSS15500HPGM KCP15A	H9
6388830	KTFSS15600HPGM KCP15A	H9
6388831	KTFSS15700HPGM KCP15A	H9
6388832	KTFSS15800HPGM KCP15A	H9
6388833	KTFSS06250HPG KCP15A	H9
6388834	KTFSS15900HPGM KCP15A	H9
6389147	KTFS180R03SS20M	H18
6389148	KTFS190R03SS20M	H18
6389149	KTFS180R05SS20M	H18
6389150	KTFS190R05SS20M	H18
6389271	KTFS180R08SS20M	H18
6389272	KTFS190R08SS20M	H18
6389273	KTFS0709R03SS075	H20
6389274	KTFS0749R03SS075	H20
6389275	KTFS0709R05SS075	H20
6389276	KTFS0749R05SS075	H20
6389277	KTFS0709R08SS075	H20
6389278	KTFS0749R08SS075	H20
6389279	KTFS180R03SCF25M	H19
6389280	KTFS190R03SCF25M	H19
6389281	KTFS200R03SCF25M	H19
6389282	KTFS210R03SCF25M	H19
6389283	KTFS220R03SCF25M	H19
6389284	KTFS230R03SCF25M	H19
6389285	KTFS240R03SCF25M	H19
6389286	KTFS250R03SCF25M	H19
6389287	KTFS180R05SCF25M	H19
6389288	KTFS190R05SCF25M	H19
6389289	KTFS200R05SCF25M	H19
6389290	KTFS210R05SCF25M	H19
6389311	KTFS220R05SCF25M	H19
6389312	KTFS230R05SCF25M	H19
6389313	KTFS240R05SCF25M	H19
6389314	KTFS250R05SCF25M	H19
6389315	KTFS180R08SCF25M	H19
6389316	KTFS190R08SCF25M	H19
6389317	KTFS200R08SCF25M	H19
6389318	KTFS210R08SCF25M	H19
6389319	KTFS220R08SCF25M	H19
6389320	KTFS230R08SCF25M	H19
6389331	KTFS240R08SCF25M	H19
6389332	KTFS250R08SCF25M	H19
6389333	KTFS0788R03SCF100	H20
6389334	KTFS0827R03SCF100	H20
6389335	KTFS0867R03SCF100	H20
6389336	KTFS0906R03SCF100	H20
6389337	KTFS0945R03SCF100	H20
6389338	KTFS0985R03SCF100	H20
6389339	KTFS0788R05SCF100	H20
6389340	KTFS0827R05SCF100	H20
6389341	KTFS0867R05SCF100	H20
6389342	KTFS0906R05SCF100	H20
6389343	KTFS0945R05SCF100	H20
6389344	KTFS0985R05SCF100	H20
6389345	KTFS0788R08SCF100	H20
6389346	KTFS0827R08SCF100	H20
6389347	KTFS0867R08SCF100	H20
6389348	KTFS0906R08SCF100	H20
6389349	KTFS0945R08SCF100	H20
6389350	KTFS0985R08SCF100	H20
6389361	KTFS060R03SS08M	H18
6389362	KTFS063R03SS08M	H18
6389363	KTFS066R03SS08M	H18
6389364	KTFS070R03SS08M	H18
6389365	KTFS075R03SS08M	H18
6389366	KTFS080R03SS10M	H18
6389367	KTFS085R03SS10M	H18
6389368	KTFS090R03SS10M	H18
6389369	KTFS095R03SS10M	H18
6389370	KTFS060R05SS08M	H18
6389381	KTFS063R05SS08M	H18
6389382	KTFS066R05SS08M	H18
6389383	KTFS070R05SS08M	H18
6389384	KTFS075R05SS08M	H18
6389385	KTFS080R05SS10M	H18
6389386	KTFS085R05SS10M	H18
6389387	KTFS090R05SS10M	H18
6389388	KTFS095R05SS10M	H18
6389389	KTFS060R08SS08M	H18
6389390	KTFS063R08SS08M	H18
6389391	KTFS066R08SS08M	H18
6389392	KTFS070R08SS08M	H18
6389393	KTFS075R08SS08M	H18
6389394	KTFS080R08SS10M	H18
6389395	KTFS085R08SS10M	H18
6389396	KTFS090R08SS10M	H18
6389397	KTFS095R08SS10M	H18
6389398	KTFS0237R03SS031	H20
6389399	KTFS0249R03SS031	H20
6389400	KTFS0260R03SS031	H20
6389401	KTFS0276R03SS031	H20
6389402	KTFS0296R03SS031	H20
6389403	KTFS0315R03SS038	H20
6389404	KTFS0335R03SS038	H20
6389405	KTFS0355R03SS038	H20
6389406	KTFS0375R03SS038	H20
6389407	KTFS0237R05SS031	H20
6389408	KTFS0249R05SS031	H20
6389409	KTFS0260R05SS031	H20
6389410	KTFS0276R05SS031	H20
6389421	KTFS0296R05SS031	H20
6389422	KTFS0315R05SS038	H20
6389423	KTFS0335R05SS038	H20
6389424	KTFS0355R05SS038	H20
6389425	KTFS0375R05SS038	H20
6389426	KTFS0237R08SS031	H20
6389427	KTFS0249R08SS031	H20
6389428	KTFS0260R08SS031	H20
6389429	KTFS0276R08SS031	H20
6389430	KTFS0296R08SS031	H20
6389431	KTFS0315R08SS038	H20
6389432	KTFS0335R08SS038	H20
6389433	KTFS0355R08SS038	H20
6389434	KTFS0375R08SS038	H20
6389436	KTFS080R03SCF12M	H19
6389437	KTFS085R03SCF12M	H19
6389438	KTFS090R03SCF12M	H19
6389439	KTFS095R03SCF12M	H19
6389440	KTFS080R05SCF12M	H19
6389441	KTFS085R05SCF12M	H19
6389442	KTFS090R05SCF12M	H19
6389443	KTFS095R05SCF12M	H19
6389444	KTFS080R08SCF12M	H19
6389445	KTFS085R08SCF12M	H19
6389446	KTFS090R08SCF12M	H19
6389447	KTFS095R08SCF12M	H19
6389448	KTFS100R01SS12M	H18
6389449	KTFS105R01SS12M	H18
6389450	KTFS110R01SS12M	H18
6389471	KTFS115R01SS12M	H18
6389472	KTFS120R01SS14M	H18
6389473	KTFS125R01SS14M	H18
6389474	KTFS130R01SS14M	H18
6389475	KTFS135R01SS14M	H18
6389476	KTFS140R01SS16M	H18
6389477	KTFS145R01SS16M	H18
6389478	KTFS150R01SS16M	H18
6389479	KTFS160R01SS16M	H18
6389480	KTFS170R01SS20M	H18
6389481	KTFS100R12SF16M	H18
6389482	KTFS105R12SF16M	H18
6389483	KTFS110R12SF16M	H18
6389484	KTFS115R12SF16M	H18
6389485	KTFS120R12SF16M	H18
6389486	KTFS125R12SF16M	H18
6389487	KTFS130R12SF16M	H18
6389488	KTFS135R12SF16M	H18
6389489	KTFS140R12SF16M	H18
6389490	KTFS145R12SF16M	H18
6389501	KTFS150R12SF20M	H18
6389502	KTFS160R12SF20M	H18
6389503	KTFS170R12SF20M	H18
6389504	KTFS200R01SCF25M	H19
6389505	KTFS210R01SCF25M	H19
6389506	KTFS220R01SCF25M	H19
6389507	KTFS230R01SCF25M	H19
6389508	KTFS240R01SCF25M	H19
6389509	KTFS250R01SCF25M	H19
6389510	KTFS200R12SCF25M	H19
6389561	KTFS210R12SCF25M	H19
6389562	KTFS220R12SCF25M	H19
6389563	KTFS230R12SCF25M	H19
6389564	KTFS240R12SCF25M	H19
6389565	KTFS250R12SCF25M	H19
6389566	KTFS180R01SS20M	H18
6389567	KTFS190R01SS20M	H18
6389568	KTFS180R12SF25M	H18
6389569	KTFS190R12SF25M	H18
6389570	KTFS060R01SS08M	H18
6389571	KTFS063R01SS08M	H18
6389572	KTFS066R01SS08M	H18
6389573	KTFS070R01SS08M	H18
6389574	KTFS075R01SS08M	H18
6389575	KTFS080R01SS10M	H18
6389576	KTFS085R01SS10M	H18
6389577	KTFS090R01SS10M	H18
6389578	KTFS095R01SS10M	H18
6389579	KTFS060R12SF12M	H18
6389580	KTFS063R12SF12M	H18
6389581	KTFS066R12SF12M	H18
6389582	KTFS070R12SF12M	H18
6389583	KTFS075R12SF12M	H18
6389584	KTFS080R12SF12M	H18
6389585	KTFS085R12SF12M	H18
6389586	KTFS090R12SF12M	H18
6389587	KTFS095R12SF12M	H18
6397378	SNXF43ZNENLD KCPK30	S89
6397379	SNXF43ZNSNHE KCPK30	S89
6397380	SNXF433SNGP KCPK30	S89
6397611	SNXF433SNHE KCPK30	S89
6397612	SNXF433ENLD KCPK30	S89
6397613	SNXF43ZNSNGP KCPK30	S89
6397614	SNXF43ZNENLD KCK20	S89
6397615	SNXF43ZNSNHE KCK20	S89
6397616	SNXF433SNGP KCK20	S89
6397617	SNXF433SNHE KCK20	S89
6397618	SNXF433ENLD KCK20	S89
6397619	SNXF43ZNSNGP KCK20	S89
6401814	A4M50L0314MC	C137
6401815	A4M50R0314MC	C137
6401816	A4M50L0414MC	C137
6401817	A4M50R0414MC	C137
6401818	A4M50L0519MC	C137
6401819	A4M50R0519MC	C137
6401820	A4M65L0522MC	C137
6401831	A4M65R0522MC	C137
6401832	A4M65L0620MC	C137
6401833	A4M65L0626MC	C137
6401834	A4M65R0620MC	C137
6401835	A4M65R0626MC	C137
6401836	A4M65L0820MC	C137
6401837	A4M65L0826MC	C137
6401838	A4M65R0820MC	C137
6401839	A4M65R0826MC	C137
6401840	A4M65L1020MC	C137
6401851	A4M65L1026MC	C137
6401852	A4M65R1020MC	C137
6401853	A4M65R1026MC	C137
6401854	EVSMR2020K0216C	C36
6401855	EVSMR2525M0216C	C36
6401856	EVSMR2525M0226C	C36
6401857	EVSMR2020K0222C	C36
6401858	EVSMR160226C	C34
6401859	EVSMR160216C	C34
6401860	EVSMR120222C	C34
6401881	EVSML2525M0216C	C37
6406706	ONGX645ENLE KCK15	S33
6406707	ONGX645ENLE KCK20	S33
6406708	ONGX64ANENLE KCK15	S33
6406709	ONGX64ANENLE KCK20	S33
6406710	ONGX645SNGP KCK20	S33
6406851	ONGX645SNGP KCPK30	S33
6406852	ONGX64ANSNGP KCK20	S33
6406853	ONPX642SNGP KCPK30	S34
6406854	ONPX645SNHB KCPK30	S34
6408092	XADA0375Y4CU60 KCPM15	048
6408093	XADA0500Y5CU60 KCPM15	048
6408094	XADA0625Y6CU60 KCPM15	048
6432549	COOL-HOSE-200-FLEX	C83
6432550	COOL-HOSE-300-FLEX	C83

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
#1/2-20X1-1/4 LHCSA S	V19, V26
#1/2-20X1-1/4SHCSA S	T98, T128, T131, V19, V26, V103
#1/4-28X3/4SHCSA S	T98, V12, V98, V103
#3/4-16X1-3/4SHCSA S	V19, V26
#3/8-24X1SHCSA S	T98, V12, V19, V98, V103
#5/8-18X1-1/2SHCSA S	T131, V19, V26
1-16NPTF-JIC	C83
1-8NPTF-JIC	C83
1.10820R310	E15
1.10825L310	E15
1.10825R310	E15
1.10825R700	E15
1.17125L330	E16
1.18016L110	E16
1.18016R110	E16
1.18020L110	E16
1.18020R110	E16
1.18020R310	E16
1.18025L310	E16
1.18025L315	E16
1.18025L330	E17
1.18025R110	E16
1.18025R310	E16
1.18025R310Z	E20, E22
1.18025R315	E16
1.18032L315	E16
1.18032R315	E16
1.38020R021	E17
1.38025L021	E17
1.38025R021	E17
1.38025R021Z	E20, E22
1.77120L100	E18
1.77120R100	E18
1.77125R300	E18
1.77125R300Z	E21, E23
1.77132R400	E18
1.77225R301	E19
1.77725R301	E18
1.78012R103	E19
1.78016R100	E19
1.78020R100	E19
1.78025L100	E19
1.78025L300	E19
1.78025L300Z	E21, E23
1.78025R100	E19
1.78025R300	E19
1.78025R300Z	E21, E23
1.78032L400Z	E21, E23
1.78032R400	E19
100B04RP90BG15CUM	S121
100B06RP90BG15C2WUPM	S122
100B08RP70SP12C2WUFP	S64
100B08RP90BG15C2WUPM	S122
100B08RP90SP12C2WUFP	S67
100B12RP70SP12C3WUFP	S64
100B12RP90SP12C3WUFP	S67
100G10RP90SP10	U25
10X1R015B20STN11T	W42
112.244	E16
112.403	E15–16
112.404	E15–17, E20, E22
112.505	E16
114.111	E17
114.114	E17, E20, E22
114.305	E55, E61
118.204	E18–19
118.314	E18–19
11X1R012B12STN11N	W40
11X1R020B20STN11N	W40
121.612	E15–16, E18, S64, S67
121.616	E15–17, E19–20, E22, E55, E61, S70
121.808	K48–50
121.812	E17, K48–50
121.816	E17–23
121.825	E19, E21, E23
12147629800	K116–117
12148006000	T24
12148044900	S30–31, S77, S82, S88
12148068700	K116–117
125.625	K48–50
125.820	J84–85
125.830	J84–85
125B05RP90BG15CUM	S121
125B08RP70SP15C2WUFP	S70
125B08RP90BG15C2WUPM	S122
125B10RP70SP12C2WUFP	S64
125B10RP90SP12C2WUFP	S67
125B15RP90SP12C3WUFP	S67
125H11RP90SP10	U25
12748308500	S82
12748358200	S77, S82, S88
12748500200	S83
12748500400	S83
12748500500	S83
12748503400	S83
12748600900	S77, S82, S88
12748601000	S30–31
128.508	H87
128.510	H87
128.610	J75
129.612	J84–85
129.616	J84–85
12MHC030M	G79
12MHC040M	G79
12MHC050M	G79
12MHC060M	G79
12MHC070M	G79
12MHC080M	G79
12MHC090M	G79
12MHC100M	G79
132.151	E16
132.156	E16
15X1R020B16STN16C	W42
15X1R022B16STN16T	W42
160B06RP90BG15CUM	S121
160B10RP70SP15C2WUFP	S70
160B10RP90BG15C2WUPM	S122
160B12RP70SP12C3WUFP	S64
160B12RP90SP12C3WUFP	S67
160B18RP70SP12C3WUFP	S64
170.000	K76
170.002	K51
170.003	E15–20, E22, E55, E61, I14, K51, S64, S67, S70, S121–123
170.004	E17–23, J90, K48–51
170.005	I14, J91, K48–50
170.006	J90–91, K48–50
170.008	J90–92
170.023	J10–15, J25, J27, J29, J31, J33, J35, J37, J39
170.024	I25–27, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J114
170.025	I14–15, I25–27, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J114, S4–5, S8–10, S14, S17, S20, V44–47, V51–54, V62
170.026	J49, J52–53, V58
170.027	J10–15
170.028	I14–15, J10–15, J25, J27, J29, J31, J33, J35, J37, J39, J114
170.135	K51
170.136	K51
170.270	H72, H81, H85–86, H88
170.271	H84, H88
170.272	H72, H81, H85–86, H88
170.273	H88
170.274	H72, H81, H85–86, H88
170.275	H88
170.276	H72, H81, H85–86, H88
170.277	H88
170.281	H84, H88
170.282	H84, H88
170.283	H84, H88
170.284	H84, H88
170.285	H88
170.286	H88
170.287	H88
170.288	H88
170.289	H72, H81, H86, H88
170.290	H88
170.291	H88
170.294	H72, H81, H88
170.295	H88
170.296	H88
170.306	H38–41
170.307	H38–41
170.308	H38–41
170.309	H38–41
170.314	H38–41
170.345	H122
170.346	H122
170.347	H122–123
170.348	H123
170.350	H122
170.352	H122
170.353	H122
170.355	H122–123
170.356	H122–123
170.365	H123
170.370	J25, J27, J33, J35
17X1R022B16STN16N	W40
190.076	I27
190.116	J75
190.195	I27
190.371	I27
190.458	J75
191.282	K76
191.375	J49, J52
191.405	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
191.406	B72–74, B94, B115–119, B140–142, B174, B186–187, B198, B245, B249–251, B276–279, B394, B397–398, C196, D41
191.407	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
191.698	H122, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J84–85
191.725	I14–15, V155–156
191.726	H122–123, J49, J52–53
191.727	J87–90
191.728	J87, J89–92
191.729	J91–92
191.848	J49–50, J52–53, J84–85, V44–47
191.916	C42–45, H122–123, J25, J27, J29, J31, J33, J35, J37, J39, J85, J114
191.924	H122, J25, J27, J29, J31, J33, J35, J37, J39, J49–50, J52–53, J84–85, J114, V156
192.057	I27
192.111	J84–85
192.112	J84–85
192.126	J92
192.156	J87–90
192.157	J87–91
192.158	J92
192.416	J10–15, J75
192.419	J87–90
192.420	J87–90
192.421	J87–91
192.422	J87–90
192.423	J87–91
192.424	J87, J89–92
192.425	J87, J89–92
192.426	J91–92
192.432	H122, I14–15, J10–15, J25, J27, J29, J31, J33, J35, J37, J39, J75, J84–85, J114
192.433	J25, J27, J29, J31, J33, J35, J37, J39
192.530	U13
192.592	J75, J84
192.593	J84–85
192.718	I14–15
192.720	I14–15
192.730	J92
192.731	J92
192.759	J92
192.888	I14–15
192.889	I14–15
192.902	J75, J84–85
192.903	J84–85
192.932	V58
193.113	I27
193.114	I27
193.115	I27
193.116	I27
193.281	J10–15, J25, J27, J33, J35
193.297	C130–131
193.300	S64, S70
193.326	S123
193.371	J87–89
193.372	J87–89
193.389	V121–122
193.390	V121–123, V132
193.391	V121–123, V132–133
193.392	V121, V123, V132
193.393	V121–123, V132–133
193.394	V121–123
193.395	V122–123
193.397	J75
193.407	C130
193.409	S50, V155–156
193.433	S44–45
193.450	J85
193.451	J85
193.462	S109
193.465	S109
193.491	J25, J27, J29, J31, J33, J35, J37, J39
193.492	S4–5, S8–10, S14, S17, S20, S56, S58, V51–54, V62
193.523	H126–129
193.524	H126–129
193.525	H126–129
193.526	H126–129
193.531	S24
193.537	H126–129
193.545	H126–129
199.123	H87
19X1R023B20STN16T	W42
200C16RP70SP12C4WUFP	S64
20MHC030M	G79
20MHC040M	G79
20MHC050M	G79
20MHC060M	G79
20MHC070M	G79
20MHC080M	G79
20MHC090M	G79
20MHC100M	G79
20MHC110M	G79
20MHC120M	G79
20MHC130M	G79
20MHC140M	G79
20MHC150M	G79
20MHC160M	G79
20X1R043B20STN16N	W40
22X1R025B25STN16L	W41
250C20RP70SP12C4WUFP	S64
25MHC030M	G79
25MHC040M	G79
25MHC050M	G79
25MHC060M	G79
25MHC070M	G79
25MHC080M	G79
25MHC090M	G79
25MHC100M	G79
25MHC120M	G79
25MHC140M	G79
25MHC160M	G79
25X1R040B25STN27C	W42
26X2R043B25STN16D	W43
2BN0031IR007A KC633M	Q9
2BN0047IR018A KC633M	Q9
2BN0063IR018A KC633M	Q9
2BN0094IL037A KC633M	Q9
2BN0094IR018A KC633M	Q9
2BN0109IR037A KC633M	Q9
2BN0125IL075A KC633M	Q9
2BN0125IR050A KC633M	Q9
2BN0125IS025A KC633M	Q9
2BN0125IX075A KC633M	Q9
2BN0156IL056A KC633M	Q9
2BN0156IR031A KC633M	Q9
2BN0187IL075A KC633M	Q9
2BN0187IR062A KC633M	Q9

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
2BN0187IS031A KC633M	Q9
2BN0187IX100A KC633M	Q9
2BN0219IR062A KC633M	Q9
2BN0250IL150A KC633M	Q9
2BN0250IR075A KC633M	Q9
2BN0250IR112A KC633M	Q9
2BN0250IS050A KC633M	Q9
2BN0250IX150A KC633M	Q9
2BN0312IL112A KC633M	Q9
2BN0312IR081A KC633M	Q9
2BN0312IX150A KC633M	Q9
2BN0375IL112A KC633M	Q9
2BN0375IR087A KC633M	Q9
2BN0375IS062A KC633M	Q9
2BN0375IX300A KC633M	Q9
2BN0406IR100A KC633M	Q9
2BN0437IR100A KC633M	Q9
2BN0500IL200A KC633M	Q10
2BN0500IR100A KC633M	Q10
2BN0500IS062A KC633M	Q9
2BN0500IX150A KC633M	Q10
2BN0500IX300A KC633M	Q10
2BN0625IL225A KC633M	Q10
2BN0625IR125A KC633M	Q10
2BN0625IX300A KC633M	Q10
2BN0750IL200A KC633M	Q10
2BN0750IR150A KC633M	Q10
2BN0750IS100A KC633M	Q10
2BN0750IX300A KC633M	Q10
2BN0875IR150A KC633M	Q10
2BN1000IL300A KC633M	Q10
2BN1000IR150A KC633M	Q10
2CH0125IL050A KC633M	Q6
2CH0125IR025A KC633M	Q6
2CH0125IX075A KC633M	Q6
2CH0140IR056A KC633M	Q6
2CH0156IL056A KC633M	Q6
2CH0156IR031A KC633M	Q6
2CH0171IR062A KC633M	Q6
2CH0187IL075A KC633M	Q6
2CH0187IR062A KC633M	Q6
2CH0187IX112A KC633M	Q6
2CH0218IL062A KC633M	Q7
2CH0218IR043A KC633M	Q6
2CH0250IL112A KC633M	Q7
2CH0250IR075A KC633M	Q7
2CH0250IS050A KC633M	Q7
2CH0250IX150A KC633M	Q7
2CH0281IR075A KC633M	Q7
2CH0312IL112A KC633M	Q7
2CH0312IR081A KC633M	Q7
2CH0312IS050A KC633M	Q7
2CH0312IX162A KC633M	Q7
2CH0343IR100A KC633M	Q7
2CH0375IL112A KC633M	Q7
2CH0375IR100A KC633M	Q7
2CH0375IS062A KC633M	Q7
2CH0375IX175A KC633M	Q7
2CH0406IR100A KC633M	Q7
2CH0437IL100A KC633M	Q7
2CH0437IR062A KC633M	Q7
2CH0437IX200A KC633M	Q7
2CH0468IR100A KC633M	Q7
2CH0500IL200A KC633M	Q7
2CH0500IL200B KC633M	Q7
2CH0500IR100A KC633M	Q7
2CH0500IR100B KC633M	Q7
2CH0500IS062A KC633M	Q7
2CH0500IX300A KC633M	Q7
2CH0500IX300B KC633M	Q7
2CH0562IL125A KC633M	Q8
2CH0562IL125B KC633M	Q8
2CH0562IR075A KC633M	Q8
2CH0562IX225A KC633M	Q8
2CH0562IX225B KC633M	Q8
2CH0625IL125A KC633M	Q8
2CH0625IL125B KC633M	Q8
2CH0625IR075A KC633M	Q8
2CH0625IX225A KC633M	Q8
2CH0625IX225B KC633M	Q8
2CH0687IR137A KC633M	Q8
2CH0687IR137B KC633M	Q8
2CH0750IL300A KC633M	Q8
2CH0750IL300B KC633M	Q8
2CH0750IR150A KC633M	Q8
2CH0750IR225A KC633M	Q8
2CH0750IR225B KC633M	Q8
2CH0750IS100A KC633M	Q8
2CH0750IX400A KC633M	Q8
2CH0875IL225A KC633M	Q8
2CH0875IL225B KC633M	Q8
2CH0875IR150A KC633M	Q8
2CH0875IR150B KC633M	Q8
2CH1000IL300A KC633M	Q8
2CH1000IL300B KC633M	Q8
2CH1000IR225A KC633M	Q8
2CH1000IR225B KC633M	Q8
2CH1000IS150A KC633M	Q8
2CH1000IX400A KC633M	Q8
2CH1000IX400B KC633M	Q8
2SE0016IR003A KC633M	Q6
2SE0031IR007A KC633M	Q6
2SE0062IL018A KC633M	Q6
2SE0062IR012A KC633M	Q6
2SE0062IX050A KC633M	Q6
2SE0078IR018A KC633M	Q6
2SE0093IL037A KC633M	Q6
2SE0093IR018A KC633M	Q6
2SE0093IX062A KC633M	Q6
2SE0109IR037A KC633M	Q6
2SE0125IL050A KC633M	Q6
2SE0125IR025A KC633M	Q6
2SE0125IX075A KC633M	Q6
2SE0140IR056A KC633M	Q6
2SE0156IL056A KC633M	Q6
2SE0156IR031A KC633M	Q6
2SE0171IR062A KC633M	Q6
2SE0187IL075A KC633M	Q6
2SE0187IR062A KC633M	Q6
2SE0187IX112A KC633M	Q6
2SE0218IL062A KC633M	Q7
2SE0218IR043A KC633M	Q6
2SE0250IL112A KC633M	Q7
2SE0250IR075A KC633M	Q7
2SE0250IS050A KC633M	Q7
2SE0250IX150A KC633M	Q7
2SE0281IR075A KC633M	Q7
2SE0312IL112A KC633M	Q7
2SE0312IR081A KC633M	Q7
2SE0312IS050A KC633M	Q7
2SE0312IX162A KC633M	Q7
2SE0343IR100A KC633M	Q7
2SE0375IL112A KC633M	Q7
2SE0375IR100A KC633M	Q7
2SE0375IS062A KC633M	Q7
2SE0375IX175A KC633M	Q7
2SE0406IR100A KC633M	Q7
2SE0437IL100A KC633M	Q7
2SE0437IR062A KC633M	Q7
2SE0437IX200A KC633M	Q7
2SE0468IR100A KC633M	Q7
2SE0500IL200A KC633M	Q7
2SE0500IL200B KC633M	Q7
2SE0500IR100A KC633M	Q7
2SE0500IR100B KC633M	Q7
2SE0500IS062A KC633M	Q7
2SE0500IX300A KC633M	Q7
2SE0500IX300B KC633M	Q7
2SE0562IL125A KC633M	Q8
2SE0562IL125B KC633M	Q8
2SE0562IR075A KC633M	Q8
2SE0562IX225A KC633M	Q8
2SE0562IX225B KC633M	Q8
2SE0625IL125A KC633M	Q8
2SE0625IL125B KC633M	Q8
2SE0625IR075A KC633M	Q8
2SE0625IX225A KC633M	Q8
2SE0625IX225B KC633M	Q8
2SE0687IR137A KC633M	Q8
2SE0687IR137B KC633M	Q8
2SE0750IL300A KC633M	Q8
2SE0750IL300B KC633M	Q8
2SE0750IR150A KC633M	Q8
2SE0750IR225A KC633M	Q8
2SE0750IR225B KC633M	Q8
2SE0750IS100A KC633M	Q8
2SE0750IX400A KC633M	Q8
2SE0750IX400B KC633M	Q8
2SE0875IL225A KC633M	Q8
2SE0875IL225B KC633M	Q8
2SE0875IR150A KC633M	Q8
2SE0875IR150B KC633M	Q8
2SE1000IL300A KC633M	Q8
2SE1000IL300B KC633M	Q8
2SE1000IR225A KC633M	Q8
2SE1000IR225B KC633M	Q8
2SE1000IS150A KC633M	Q8
2SE1000IX400A KC633M	Q8
2SE1000IX400B KC633M	Q8
3.37042R320	I14
3.37042R820	I14
3.37051R320	I14
3.37051R820	I14
3.37052R320	I14
3.37052R820	I14
3.37060R720	I26
3.37061R320	I14
3.37061R820	I14
3.37062R320	I14
3.37062R820	I14
3.37071R320	I14
3.37071R820	I14
3.37080R720	I26
3.37081R320	I14
3.37081R820	I14
3.37091R320	I14
3.37091R820	I14
3.37092R320	I14
3.37092R820	I14
3.37100R720	I26
3.37101R332	I14
3.37101R832	I14
3.37111R332	I14
3.37111R832	I14
3.37120R732	I26
3.37121R332	I14
3.37121R832	I14
3.37131R332	I14
3.37131R832	I14
3.37140R732	I26
3.37141R332	I14
3.37141R832	I14
3.37151R332	I14
3.37151R832	I14
3.37160R732	I26
3.37161R332	I14
3.37161R832	I14
3.37171R332	I14
3.37171R832	I14
3.37180R732	I26
3.37181R332	I14
3.37181R832	I14
3.37526R006	I27
3.37528R008	I27
3.37530R010	I27
3.37532R012	I27
3.37534R014	I27
3.37538R016	I27
3.37540R018	I27
3.37542R020	I27
3.41020R900 KMF	I17
3.41020R900STF CS5	I17
3.41020R901 CS5	I16
3.41020R901 KC7315	I16
3.41020R902 CS5	I16
3.41020R902 KC7315	I16
3.41020R903 CS5	I16
3.41020R903 KC7315	I16
3.41020R904 KC7315	I17
3.41220R900 KMF	I17
3.41220R900SF KMF	I17
3.41220R900STF CS5	I17
3.41220R901 CS5	I16
3.41220R901 KC7315	I16
3.41220R902 CS5	I16
3.41220R902 KC7315	I16
3.41220R903 CS5	I16
3.41220R903 KC7315	I16
3.41220R904 KC7315	I17
3.42805R001 CS5	I30
3.42805R001 KC7215	I30
3.42805R001 KMF	I30
3.42805R021 KC7015	I30
3.42805R021 KC7315	I30
3.42805R081 KC7215	I30
3.42807R001 CS5	I30
3.42807R001 KC7215	I30
3.42807R001 KMF	I30
3.42807R021 KC7015	I30
3.42807R021 KC7315	I30
3.42807R081 KC7215	I30
3.76045R028V	J82–83
3.76050R028V	J82–83
3.76055R032V	J82–83
3.76058R032V	J82–83
3.76063R032V	J82–83
3.76063R040V	J82–83
3.76068R040V	J82–83
3.76073R040V	J82–83
3.76078R040V	J82–83
3.76078R048V	J82–83
3.76084R048V	J82–83
3.76090R048V	J82–83
3.76096R048V	J82–83
3.76096R058V	J82–83
3.76102R058V	J82–83
3.76108R058V	J82–83
3.76115R070V	J82–83
3.76122R070V	J82–83
3.76130R070V	J82–83
3.76140R080V	J82–83
3.76150R080V	J82–83
3.76158R080V	J82–83
3.76162R080V	J82–83
3.76180R110	J82–83
3.76195R110	J82–83
3.76213R125	J82–83
3.76230R160	J82–83
3.76260R160	J82–83
3.77000R023V	J84
3.77000R024V	J84
3.77000R025V	J84
3.77000R026V	J84
3.77000R027V	J84
3.77000R028V	J84
3.77000R029V	J84
3.77000R030V	J84
3.77000R031V	J84
3.77000R038V	J84
3.77000R039V	J84
3.77000R048V	J84
3.77000R049V	J84
3.77000R050V	J84
3.77000R051V	J84
3.77000R052V	J84
3.77000R053V	J84
3.77000R073V	J84
3.77000R074V	J84
3.77000R075V	J84
3.77000R076V	J84
3.77000R077V	J84
3.77000R078V	J84
3.77000R079V	J84
3.77000R080V	J84
3.77000R081V	J84
3.77000R082V	J84
3.77000R083V	J84
3.77000R084V	J84
3.77000R085V	J84
3.77000R086V	J84
3.77000R087V	J84
3.77000R088V	J84
3.77000R224V	J85
3.77000R227V	J85
3.77000R228V	J85
3.77000R229V	J85
3.77000R230V	J85

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
3.77000R231V	J85
3.77000R239V	J85
3.77000R248V	J85
3.77000R249V	J85
3.77000R250V	J85
3.77000R251V	J85
3.77000R252V	J85
3.77000R253V	J85
3.77000R274V	J85
3.77000R276V	J85
3.77000R278V	J85
3.77000R280V	J85
3.77000R282V	J85
3.77000R284V	J85
3.77000R286V	J85
3.77000R288V	J85
302.009	J90
302.010	J90
302.011	J90
302.014	J92
30X1R052B25STN27N	W40
30X1R092B25STN27L	W41
32MHC060M	G79
32MHC070M	G79
32MHC080M	G79
32MHC090M	G79
32MHC100M	G79
32MHC110M	G79
32MHC120M	G79
32MHC130M	G79
32MHC140M	G79
32MHC150M	G79
32MHC160M	G79
35X1R055B32STNB38N	W41
360.510	I25–26
360.511	I25–26
360.513	I25–26
360.516	I25
360.550	I25–27
360.551	H87, I25–27
360.630	I26, I29
360.631	I26, I29
360.632	I26, I29
360.633	I26, I29
360.634	I26
360.635	I26, I29
360.636	I26, I29
360.637	I26, I29
360.650	I25, I29
360.651	I25, I29
360.652	I25, I29
360.653	I25, I29
360.654	I25, I29
360.655	I25, I29
360.660	H87
360.661	H87
360.663	H87
360.664	H87
360.665	H87
360.666	H87
360.667	H87
360.668	H87
360.669	H87
360.670	H87
364.010	H72–73, H75, H77, H79, H81–82, H84–86, H122
364.011	H72–75, H77–79, H81–82, H84–86, H122
364.012	H72, H74–76, H78–86, H122–123
364.013	H72, H74, H76, H78, H80–81, H83–86, H123
364.015	H72, H74, H81, H83, H85–86, H123
364.016	H72–73, H75, H81–82, H85–86, H122
364.017	H72–73, H75, H81–82, H85–86
37X1R058B32STN27N	W40
37X1R098B32STN27L	W41
3SE0031IR007A KC633M	Q16
3SE0047IR011A KC633M	Q16
3SE0062IR019A KC633M	Q16
3SE0078IR011A KC633M	Q16
3SE0094IR037A KC633M	Q16
3SE0109IR037A KC633M	Q16
3SE0125IL050A KC633M	Q16
3SE0125IR025A KC633M	Q16
3SE0125IX062A KC633M	Q16
3SE0156IR056A KC633M	Q16
3SE0188IL062A KC633M	Q16
3SE0188IR056A KC633M	Q16
3SE0188IS031A KC633M	Q16
3SE0188IX100A KC633M	Q16
3SE0219IL075A KC633M	Q16
3SE0219IR062A KC633M	Q16
3SE0250IL100A KC633M	Q16
3SE0250IR075A KC633M	Q16
3SE0250IS050A KC633M	Q16
3SE0250IX150A KC633M	Q16
3SE0281IL081A KC633M	Q16
3SE0281IR075A KC633M	Q16
3SE0312IL081A KC633M	Q16
3SE0312IR050A KC633M	Q16
3SE0375IL100A KC633M	Q16
3SE0375IR088A KC633M	Q16
3SE0375IS050A KC633M	Q16
3SE0375IX112A KC633M	Q16
3SE0437IL088A KC633M	Q16
3SE0437IR062A KC633M	Q16
3SE0437IX100A KC633M	Q16
3SE0500IL200A KC633M	Q17
3SE0500IR100A KC633M	Q16
3SE0563IR112A KC633M	Q17
3SE0563IR112B KC633M	Q17
3SE0625IL125A KC633M	Q17
3SE0625IL125B KC633M	Q17
3SE0625IR075A KC633M	Q17
3SE0625IR075B KC633M	Q17
3SE0750IL150A KC633M	Q17
3SE0750IL150B KC633M	Q17
3SE0750IR100A KC633M	Q17
3SE0750IX225A KC633M	Q17
3SE0750IX225B KC633M	Q17
3SE1000IR150A KC633M	Q17
3SE1000IX225A KC633M	Q17
3SE1000IX225B KC633M	Q17
40A02RP90BG15CUPM	S122
410.081	E15, S64, S67
410.083	S121–123
410.084	E18–19, E21, E23, S70
410.091	E18–19, E21, E23
4111492VRS	B168, B386
4111573VRS	B168, B386
4111593VRS	B168, B386
4111603VRS	B168, B386
4111654VRS	B168, B386
4111664VRS	B168, B386
4111674VRS	B168, B386
420.060	S121–123
420.101 SCREW	S121–123
420.121	S121–123
420.161	S121–122
420.162	S32
420.201	S17, S20, S24, S32, S45, S50, S121–122, T17
420.241	S17, S20, S24, S32, S50, S121–122, T17
42X2R045B32STN27D	W43
460.716	J92
46X1R100B40STNB38L	W41
470.232	S32
470.240	S17, S20, S24, S45, S50, S121–122
470.241	S17, S20, S24, S32, S50, S121–122
470.242	S20, S24, S32
470.243	S20, S24, S32
479.100	S64, S67, S70
4BN0031IR008A KC633M	Q26
4BN0047IR012A KC633M	Q26
4BN0062IR019A KC633M	Q26
4BN0078IR019A KC633M	Q26
4BN0094IL037A KC633M	Q26
4BN0094IR019A KC633M	Q26
4BN0109IR037A KC633M	Q26
4BN0125IL075A KC633M	Q26
4BN0125IR050A KC633M	Q26
4BN0125IS025A KC633M	Q26
4BN0125IX075A KC633M	Q26
4BN0141IR056A KC633M	Q26
4BN0156IR056A KC633M	Q26
4BN0172IR062A KC633M	Q26
4BN0187IL062A KC633M	Q26
4BN0187IR031A KC633M	Q26
4BN0187IX100A KC633M	Q26
4BN0203IR062A KC633M	Q26
4BN0219IR062A KC633M	Q26
4BN0234IR075A KC633M	Q26
4BN0250IL150A KC633M	Q26
4BN0250IR075A KC633M	Q26
4BN0250IR112A KC633M	Q26
4BN0250IS050A KC633M	Q26
4BN0250IX150A KC633M	Q26
4BN0281IR075A KC633M	Q26
4BN0312IL112A KC633M	Q26
4BN0312IR081A KC633M	Q26
4BN0312IS050A KC633M	Q26
4BN0312IX162A KC633M	Q26
4BN0344IR100A KC633M	Q26
4BN0375IL112A KC633M	Q27
4BN0375IR100A KC633M	Q27
4BN0375IS100A KC633M	Q26
4BN0375IX150A KC633M	Q27
4BN0437IR100A KC633M	Q27
4BN0500IL200A KC633M	Q27
4BN0500IR100A KC633M	Q27
4BN0500IR200A KC633M	Q27
4BN0500IS100A KC633M	Q27
4BN0500IX150A KC633M	Q27
4BN0500IX300A KC633M	Q27
4BN0562IR125A KC633M	Q27
4BN0625IL225A KC633M	Q27
4BN0625IR125A KC633M	Q27
4BN0750IL300A KC633M	Q27
4BN0750IR150A KC633M	Q27
4BN0875IR150A KC633M	Q27
4BN1000IL225A KC633M	Q27
4BN1000IR150A KC633M	Q27
4CH0125IL075A KC633M	Q22
4CH0125IR050A KC633M	Q22
4CH0125IS025A KC633M	Q22
4CH0125IX100A KC633M	Q22
4CH0140IR056A KC633M	Q22
4CH0156IR056A KC633M	Q22
4CH0187IL075A KC633M	Q22
4CH0187IR062A KC633M	Q22
4CH0187IS075A KC633M	Q22
4CH0187IX112A KC633M	Q22
4CH0203IR062A KC633M	Q22
4CH0218IL062A KC633M	Q22
4CH0218IR043A KC633M	Q22
4CH0234IR075A KC633M	Q23
4CH0250IL112A KC633M	Q23
4CH0250IR075A KC633M	Q23
4CH0250IS050A KC633M	Q23
4CH0250IX150A KC633M	Q23
4CH0265IR075A KC633M	Q23
4CH0281IR075A KC633M	Q23
4CH0296IR081A KC633M	Q23
4CH0312IL112A KC633M	Q23
4CH0312IR081A KC633M	Q23
4CH0312IS050A KC633M	Q23
4CH0312IX162A KC633M	Q23
4CH0328IR100A KC633M	Q23
4CH0343IR100A KC633M	Q23
4CH0359IR100A KC633M	Q23
4CH0375IL112A KC633M	Q23
4CH0375IR100A KC633M	Q23
4CH0375IS062A KC633M	Q23
4CH0375IX175A KC633M	Q23
4CH0390IR100A KC633M	Q23
4CH0406IR100A KC633M	Q23
4CH0421IR100A KC633M	Q23
4CH0437IL200A KC633M	Q23
4CH0437IR100A KC633M	Q23
4CH0437IS100A KC633M	Q23
4CH0437IX300A KC633M	Q23
4CH0453IR100A KC633M	Q24
4CH0468IR100A KC633M	Q24
4CH0484IR100A KC633M	Q24
4CH0500IL200A KC633M	Q24
4CH0500IL200B KC633M	Q24
4CH0500IR100A KC633M	Q24
4CH0500IR100B KC633M	Q24
4CH0500IS062A KC633M	Q24
4CH0500IX300A KC633M	Q24
4CH0562IL125A KC633M	Q24
4CH0562IL125B KC633M	Q24
4CH0562IR075A KC633M	Q24
4CH0562IX225A KC633M	Q24
4CH0625IL225A KC633M	Q24
4CH0625IL225B KC633M	Q24
4CH0625IR125A KC633M	Q24
4CH0625IR125B KC633M	Q24
4CH0625IS075A KC633M	Q24
4CH0625IX400A KC633M	Q24
4CH0687IR137A KC633M	Q24
4CH0750IL300A KC633M	Q24
4CH0750IL300B KC633M	Q24
4CH0750IR150A KC633M	Q24
4CH0750IR150B KC633M	Q24
4CH0750IR225A KC633M	Q24
4CH0750IR225B KC633M	Q24
4CH0750IX400A KC633M	Q24
4CH0875IL225A KC633M	Q25
4CH0875IL225B KC633M	Q25
4CH0875IR150A KC633M	Q25
4CH0875IR150B KC633M	Q25
4CH1000IL300A KC633M	Q25
4CH1000IL300B KC633M	Q25
4CH1000IR225A KC633M	Q25
4CH1000IR225B KC633M	Q25
4CH1000IS150A KC633M	Q25
4CH1000IX400A KC633M	Q25
4SE0015IR003A KC633M	Q22
4SE0031IR008A KC633M	Q22
4SE0062IR010A KC633M	Q22
4SE0078IR018A KC633M	Q22
4SE0093IL062A KC633M	Q22
4SE0093IR037A KC633M	Q22
4SE0109IR037A KC633M	Q22
4SE0125IL075A KC633M	Q22
4SE0125IR050A KC633M	Q22
4SE0125IS025A KC633M	Q22
4SE0125IX100A KC633M	Q22
4SE0140IR056A KC633M	Q22
4SE0156IR056A KC633M	Q22
4SE0187IL075A KC633M	Q22
4SE0187IR062A KC633M	Q22
4SE0187IS075A KC633M	Q22
4SE0187IX112A KC633M	Q22
4SE0203IR062A KC633M	Q22
4SE0218IL062A KC633M	Q23
4SE0218IR043A KC633M	Q22
4SE0234IR075A KC633M	Q23
4SE0250IL112A KC633M	Q23
4SE0250IR075A KC633M	Q23
4SE0250IS050A KC633M	Q23
4SE0250IX150A KC633M	Q23
4SE0265IR075A KC633M	Q23
4SE0281IR075A KC633M	Q23
4SE0296IR081A KC633M	Q23
4SE0312IL112A KC633M	Q23
4SE0312IR081A KC633M	Q23
4SE0312IS050A KC633M	Q23
4SE0312IX162A KC633M	Q23
4SE0328IR100A KC633M	Q23
4SE0343IR100A KC633M	Q23
4SE0359IR100A KC633M	Q23
4SE0375IL112A KC633M	Q23
4SE0375IR100A KC633M	Q23
4SE0375IS062A KC633M	Q23
4SE0375IX175A KC633M	Q23
4SE0390IR100A KC633M	Q23
4SE0406IR100A KC633M	Q23
4SE0421IR100A KC633M	Q23
4SE0437IL200A KC633M	Q23
4SE0437IR100A KC633M	Q23
4SE0437IS100A KC633M	Q23
4SE0437IX300A KC633M	Q24
4SE0453IR100A KC633M	Q24
4SE0468IR100A KC633M	Q24
4SE0484IR100A KC633M	Q24

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
4SE0500IL200A KC633M	Q24
4SE0500IL200B KC633M	Q24
4SE0500IR100A KC633M	Q24
4SE0500IR100B KC633M	Q24
4SE0500IS062A KC633M	Q24
4SE0500IX300A KC633M	Q24
4SE0562IL125A KC633M	Q24
4SE0562IL125B KC633M	Q24
4SE0562IR075A KC633M	Q24
4SE0562IX225A KC633M	Q24
4SE0625IL225A KC633M	Q24
4SE0625IL225B KC633M	Q24
4SE0625IR125A KC633M	Q24
4SE0625IR125B KC633M	Q24
4SE0625IS075A KC633M	Q24
4SE0625IX400A KC633M	Q24
4SE0687IR137A KC633M	Q24
4SE0750IL300A KC633M	Q24
4SE0750IL300B KC633M	Q24
4SE0750IR150A KC633M	Q24
4SE0750IR150B KC633M	Q24
4SE0750IR225A KC633M	Q24
4SE0750IR225B KC633M	Q24
4SE0750IS100A KC633M	Q24
4SE0750IX400A KC633M	Q24
4SE0875IL225A KC633M	Q25
4SE0875IL225B KC633M	Q25
4SE0875IR150A KC633M	Q25
4SE0875IR150B KC633M	Q25
4SE1000IL300A KC633M	Q25
4SE1000IL300B KC633M	Q25
4SE1000IR225A KC633M	Q25
4SE1000IR225B KC633M	Q25
4SE1000IS150A KC633M	Q25
4SE1000IX400A KC633M	Q25
5.34032-025115	J88
5.34032-025200	J88
5.34032-028115	J88
5.34032-028200	J88
5.34032-032125	J88
5.34050-025300	J88
5.34050-025450	J88
5.34050-028300	J88
5.34050-028450	J88
5.34050-032200	J88
5.34050-032500	J88
5.34050-040148	J88
5.34050-040300	J88
5.34050-040450	J88
5.34050-040600	J88
5.34050-048168	J88
5.34050-048300	J88
5.34050-048450	J88
5.34050-048600	J88
5.34050-058186	J88
5.34050-058300	J88
5.34050-058450	J88
5.34050-058600	J88
5.34050032350	J88
5.34125R025150	J87
5.34128R028150	J87
5.34132R032100	J87
5.34132R032200	J87
5.34140R040200	J87
5.34148R048200	J87
5.34158R058300	J87
5.34170R070186	J87
5.34170R070300	J87
5.34170R070500	J87
5.34180R080204	J87
5.34180R080300	J87
5.34180R080500	J87
5.34240R032100	J87
5.34248R040100	J87
5.34258R048100	J87
5.34270R058100	J87
5.34280R028080	J87
5.34280R032080	J87
5.34280R040080	J87
5.34280R048080	J87
5.34280R058080	J87
5.34280R070150	J87
5.34350-090100	J92
5.36050-154050	J91
5.36050154040	J91
50A03RP90BG15CUM	S121
50A03RP90BG15CUPM	S122
50A04RP70SP12CUFP	S64
50A04RP90SP12CUFP	S67
50A05RP70SP12CUFP	S64
50A05RP90SP12CUFP	S67
50HC030M	G79
50HC040M	G79
50HC050M	G79
50HC060M	G79
50HC080M	G79
50HC100M	G79
551.326	B383–384, B391
551.343	B391
552.210	B384
552.221	B383, B391
552.230	B391
552.232	B383–384
554.260	B383–384, B391
5720VZ16HA025Z2R75	T99
5720VZ16HA032Z3R75	T99
5720VZ16HA040Z4R75	T99
5720VZ16HA050Z4R75	T99
63A03RP90BG15CUM	S121
63A04RP90BG15C1WUPM	S122
63A04RP90BG15C4WUHPM	S123
63A05RP90SP12CUFP	S67
63A07RP70SP12CUFP	S64
75HC030M	G79
75HC040M	G79
75HC050M	G79
75HC060M	G79
75HC080M	G79
75HC100M	G79
75HC120M	G79
75HC140M	G79
75HC160M	G79
80A03RP90BG15CUM	S121
80A05RP90BG15C1WUPM	S122
80A05RP90BG15C5WUHPM	S123
80A06RP70SP12C1WUFP	S64
80A06RP90BG15C2WUPM	S122
80A06RP90SP12C1WUFP	S67
80A08RP70SP12C2WUFP	S64
80A08RP90SP12C2WUFP	S67
840.142.200	K122–124
840.142.250	K122–124
840.142.320	K122–123
840.142.420	K122–123
840.142.550	K122–123
840.142.720	K122–123
840.142.940	K122–123
841.142.200	K122–124
841.142.250	K122–124
841.142.320	K122–123
841.142.420	K122–123
841.142.550	K122–123
841.142.720	K122–123
841.142.940	K122–123
841.342.200	K122–124
841.342.420	K122–123
843.006.000	K124–126, K140
843.009.000	K124–126, K140
843.012.000	K124–126
844.012.000	K124–126
844.016.000	K124–126
845.012.000	K124–126
845.016.000	K124–126
846.012.000	K124–126
846.016.000	K124–126
847.012.000	K124–126
847.016.000	K124–126
848.200.005	K125
848.200.407	K124–126
848.250.005	K125
848.250.409	K124–126
848.320.005	K125
848.320.413	K124–126
848.420.005	K125
848.420.614	K124–126
848.550.005	K125
848.550.620	K124–126
848.720.000	K124–126
848.720.005	K125
848.940.640	K124, K126
880.252.200	K137–139
880.252.250	K137–139
880.252.320	K137–139
880.252.420	K137–138
880.252.550	K137–138
881.252.200	K137–139
881.252.250	K137–139
881.252.320	K137–139
881.252.420	K137–138
881.252.550	K137–138
881.252.720	K137–138
881.252.940	K137–138
886038045	K136
9X1R012B12STN10M	W40
9X1R017B20STN10M	W40
A0306GSCLDL12	B203
A0306GSCLDR12	B203
A0306SWLPL15	B291
A0306SWLPR15	B291
A03GSTLDR128	B265
A03XSC7DL12	B204
A03XSC7DR12	B204
A03XSCFDR12	B200
A03XSCLDL12	B201
A03XSCLDR12	B201
A03XSCLDR12A	B201
A0406HSCLDL12	B203
A0406HSCLDR12	B203
A0406SWLPR15	B291
A0406XSCFDR12125	B201
A0406XSCLDR12075	B203
A0406XSCLDR12125	B203
A0408XSCFDR12075	B201
A04FSCFDR12	B200
A04FSCLDL12	B201
A04FSCLDR12	B201
A04HSTFDR128	B264
A04HSTLDR128	B265
A04HSWUPR15	B291
A0506KSCLPR18	B215
A0506KSWLPR15	B291
A0506STFPR18	B273
A05HSTLDR128	B265
A05HSWUPR15	B291
A05KSTFPR18	B271
A06MCTLPR2	B185, B390
A06MSCFCR2	B196
A06MSCFPL2	B212
A06MSCFPR2	B212
A06MSCLCL2	B197
A06MSCLCR2	B197
A06MSCLPL2	B213
A06MSCLPR2	B213
A06MSDUCL2	B230
A06MSDUCR2	B230
A06MSDUPL2	B234
A06MSDUPR2	B234
A06MSTFCR2	B261
A06MSTFPL2	B271
A06MSTFPR2	B271
A06MSTLCL2	B262
A06MSTLCR2	B262
A06MSTLPL2	B274
A06MSTLPR2	B274
A06MSWLCR2	B287
A06MSWLPR2	B289
A06NER1	C190, D36
A06RCTFPR2	B183, B389
A08KEVEML0205I	C53
A08KEVEML1F05I	C53
A08KEVEMR0205I	C52
A08KEVEMR1F05I	C52
A08NEL2	C191, D35
A08NER1	C190, D36
A08NER2	C191, D35
A08NKQCL05	E46
A08NKQCR05	E46
A08RCTFPL2	B183, B389
A08RCTFPR2	B183, B389
A08RCTLNR2	B388
A08RCTLPL2	B185, B390
A08RCTLPR2	B185, B390
A08RSCFCR2	B196
A08RSCFPL2	B212
A08RSCFPR2	B212
A08RSCLCL2	B197
A08RSCLCR2	B197
A08RSCLPL2	B213
A08RSCLPR2	B213
A08RSDUCL2	B230
A08RSDUCR2	B230
A08RSDUPL2	B234
A08RSDUPR2	B234
A08RSDXCL2	B230
A08RSDXCR2	B230
A08RSDXPL2	B235
A08RSDXPR2	B235
A08RSTFCL2	B261
A08RSTFCR2	B261
A08RSTFPL2	B271
A08RSTFPR2	B271
A08RSTLCL2	B262
A08RSTLCR2	B262
A08RSTLPL2	B274
A08RSTLPR2	B274
A08RSVMBR2E	B284
A08RSWLCR2	B287
A08RSWLPL2	B289
A08RSWLPR2	B289
A08SCLPR2D	B217
A10CTFPL2	B183, B389
A10CTLNL2	B388
A10KNNT0R1	C190
A10MEVEML0207I	C53
A10MEVEML0307I	C53
A10MEVEML1F07I	C53
A10MEVEMR0207I	C52
A10MEVEMR0307I	C52
A10MEVEMR1F07I	C52
A10NER1	C190, D36
A10NKLCR05	E44
A10RA4SAL2S12N017021	C134
A10RA4SAR2S12N017021	C134
A10SCLPR2D	B217
A10SCTFPR2	B183, B389
A10SCTLNR2	B388
A10SCTLPL2	B185, B390
A10SNEL2	C191, D35
A10SNER2	C191, D35
A10SNKLCL05	E44
A10SSCFCL2	B196
A10SSCFCR2	B196
A10SSCFPL2	B212
A10SSCFPR2	B212
A10SSCLCL2	B197
A10SSCLCL3	B197
A10SSCLCR2	B197
A10SSCLCR3	B197
A10SSCLPL2	B213
A10SSCLPL3	B213
A10SSCLPL3AP5	B216
A10SSCLPR2	B213
A10SSCLPR3	B213
A10SSCLPR3AP5	B216
A10SSDUCL2	B230
A10SSDUCR2	B230
A10SSDUPL2	B234
A10SSDUPR2	B234
A10SSDXPL2	B235
A10SSDXPR2	B235
A10SSTFCR2	B261
A10SSTFPR2	B271
A10SSTLCL2	B262
A10SSTLCR2	B262
A10SSTLPL2	B274
A10SSTLPR2	B274
A10SSVMBR2E	B284
A10SSVQBL2	B284

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
A10SSVQBR2	B284
A10SSWLCR3	B287
A10SSWLPL3	B289
A10SSWLPR3	B289
A12KEVEML0205M	C55
A12KEVEML1F05M	C55
A12KEVEMR0205M	C54
A12KEVEMR1F05M	C54
A12MNNTOL2	C192
A12MNNTOR1	C190
A12MNNTOR2	C192
A12NEL2	C191, D35
A12NKXCR05	E46
A12QEVEML0207I	C53
A12QEVEML0307I	C53
A12QEVEML1F07I	C53
A12QEVEMR0207I	C52
A12QEVEMR0307I	C52
A12QEVEMR1F07I	C52
A12RA4EML0307N	C132
A12RA4EML0407N	C132
A12RA4EMR0207N	C132
A12RA4EMR0307N	C132
A12RA4EMR0407N	C132
A12RA4SAR2S12N021026	C134
A12SCLPR3D	B217
A12SCTFPL3	B183, B389
A12SCTFPR3	B183, B389
A12SCTLPL3	B185, B390
A12SCTLPR3	B185, B390
A12SNER2	C191, D35
A12SNKLCL05	E44
A12SNKLCR05	E44
A12SNKQCL05	E46
A12SNKQCR05	E46
A12SSCFCL3	B196
A12SSCFCR3	B196
A12SSCFPL3	B212
A12SSCFPR3	B212
A12SSCLCL3	B197
A12SSCLCR3	B197
A12SSCLPL3	B213
A12SSCLPL3AP5	B216
A12SSCLPR3	B213
A12SSCLPR3AP5	B216
A12SSDUCL3	B230
A12SSDUCR3	B230
A12SSDUPL3	B234
A12SSDUPR3	B234
A12SSDXCR3	B230
A12SSDXPR3	B235
A12SSTFCL3	B261
A12SSTFCR3	B261
A12SSTFPL3	B271
A12SSTFPR3	B271
A12SSTLCL3	B262
A12SSTLCR3	B262
A12SSTLPL3	B274
A12SSTLPR3	B274
A12SSVMBR3E	B284
A12SSVQBL2	B284
A12SSVQBR2	B284
A12SSVUBL2	B285
A12SSVUBR2	B285
A12SSWLPL3	B289
A12SSWLPR3	B289
A16CCLPR4	B165, B389
A16CRGNL3	B388
A16CRGNR3	B388
A16CTLPL3	B185, B390
A16CTLPR3	B185, B390
A16MCFNR4	B69
A16MCLNL3	B71
A16MCLNR3	B71
A16MCLNR4D	B69
A16MEVEML0207M	C55
A16MEVEML0307M	C55
A16MEVEML1F07M	C55
A16MEVEMR0207M	C54
A16MEVEMR0307M	C54
A16MEVEMR1F07M	C54
A16MNNTOL2	C192
A16MNNTOR2	C192
A16MTFNL3	B139
A16MTFNR3	B139
A16NEL3	C191, D35
A16NER3	C191, D35
A16NKLCR05	E44
A16NKQCL05	E46
A16NKQCR05	E46
A16NKXCR05	E46
A16RA4EML0310N	C132
A16RA4EML0410N	C132
A16RA4EMR0210N	C132
A16RA4EMR0310N	C132
A16RA4EMR0410N	C132
A16RA4SAL2S12M017021	C134
A16RA4SAL3S14N026036	C134
A16RA4SAR2S12M017021	C134
A16RA4SAR2S12N026036	C134
A16RA4SAR3S14N026036	C134
A16REVEML0210I	C53
A16REVEML0310I	C53
A16REVEML0410I	C53
A16REVEMR0210I	C52
A16REVEMR0310I	C52
A16REVEMR0410I	C52
A16REVSAL0212I026030	C56
A16REVSAL0312I030035	C56
A16REVSAR0212I026030	C56
A16REVSAR0312I030035	C56
A16SCFPR3	B212
A16SCLPL3	B213
A16SCLPL3AP5	B216
A16SCLPR3AP5	B216
A16STFCL3	B261
A16STFCR3	B261
A16STFPR3	B271
A16STLCL3	B262
A16STLCR3	B262
A16STLPR3	B274
A16SWLPR3	B289
A16TCTFPR3	B183, B389
A16TDCFNR4KC3	B67
A16TDCLNL4KC3	B68
A16TDCLNR3KC2	B68
A16TDCLNR4KC3	B68
A16TDDUNL3KC3	B92
A16TDDUNR3KC3	B92
A16TDTFNR3KC3	B138
A16TMCFNL4	B69
A16TMCLNL4	B71
A16TMCLNR4	B71
A16TMDUNL3	B93
A16TMDUNR3	B93
A16TNEL2	C191, D35
A16TNER2	C191, D35
A16TNKLCL05	E44
A16TNSL3	C194
A16TNSR3	C194
A16TSCFCR3	B196
A16TSCLCL3	B197
A16TSCLCR3	B197
A16TSCLPR3	B213
A16TSDUCL3	B230
A16TSDUCR3	B230
A16TSDUPL3	B234
A16TSDUPR3	B234
A16TSDXCL3	B230
A16TSDXCR3	B230
A16TSDXPL3	B235
A16TSDXPR3	B235
A16TSVMBR3E	B284
A16TSVQBL3	B284
A16TSVQBR3	B284
A16TSVUBL3	B285
A16TSVUBR3	B285
A20MCFNR4	B69
A20MCKNL4	B70
A20MCKNR4	B70
A20MCLNR4D	B69
A20MDPNL4	B92
A20MDPNR4	B92
A20MDQNL4	B93
A20MSKNR4	B114
A20MTUNR3D	B139
A20NEL3	C191, D35
A20NER3	C191, D35
A20NKLCR05	E44
A20NVJCR3	E47
A20NVLCR3	E47
A20QEVEML0207M	C55
A20QEVEML0307M	C55
A20QEVEML1F07M	C55
A20QEVEMR0207M	C54
A20QEVEMR0307M	C54
A20QEVEMR1F07M	C54
A20QNNTOL2	C192
A20QNNTOR2	C192
A20RA4EML0207M	C133
A20RA4EML0307M	C133
A20RA4EML0407M	C133
A20RA4EMR0207M	C133
A20RA4EMR0307M	C133
A20RA4EMR0407M	C133
A20RA4SAL2S12M021026	C134
A20RA4SAR2S12M021026	C134
A20RA4SAR3S14M021026	C134
A20SA4EMR0312N	C132
A20SA4EMR0412N	C132
A20SA4EMR0516N	C132
A20SA4EMR0616N	C132
A20SEVEML0312I	C53
A20SEVEML0412I	C53
A20SEVEMR0312I	C52
A20SEVEMR0412I	C52
A20SEVSAL0312I033042	C56
A20SEVSAR0312I033042	C56
A20UCTFPR3	B183, B389
A20UDCLNL4KC3	B68
A20UDCLNR4KC3	B68
A20UDDPNR4KC3	B91
A20UDDQNL4KC3	B91
A20UDDQNR4KC3	B91
A20UDDUNR3KC3	B92
A20UDDUNR4KC3	B92
A20UDSKNL3KC2	B113
A20UDVUNR3KC3	B154
A20UMCLNL4	B71
A20UMCLNR4	B71
A20UMDQNR4	B93
A20UMDUNL4	B93
A20UMDUNR4	B93
A20UMTFNR3	B139
A20UMVUNL3	B154
A20UMVUNR3	B154
A20UNSR3	C194
A24CCLNL4MX5	B391
A24CCLNR4MX5	B391
A24CCLPR4	B165, B389
A24CTFPL4	B183, B389
A24CTFPR3	B183, B389
A24CTFPR4	B183, B389
A24MCFNL4	B69
A24MCFNR4	B69
A24MCKNL4	B70
A24MCLNL5	B71
A24MCLNR4D	B69
A24MCLNR5	B71
A24MDPNL4	B92
A24MDPNR4	B92
A24MDQNL4	B93
A24NEL3	C191, D35
A24NER3	C191, D35
A24NKLCR05	E44
A24NVLCR3	E47
A24TA4EML0516N	C132
A24TA4EML0616N	C132
A24TA4EMR0416N	C132
A24TA4EMR0516N	C132
A24TA4EMR0616N	C132
A24TEVSAL0312I041050	C56
A24TEVSAR0312I041050	C56
A24UDCFNR4KC3	B67
A24UDCLNL4KC3	B68
A24UDCLNR4KC3	B68
A24UDCLNR5KC4	B68
A24UDDPNL4KC3	B91
A24UDDPNR4KC3	B91
A24UDDQNL4KC3	B91
A24UDDQNR4KC3	B91
A24UDDUNR4KC3	B92
A24UDVUNL3KC3	B154
A24UDVUNR3KC3	B154
A24UMCKNR4	B70
A24UMCLNL4	B71
A24UMCLNR4	B71
A24UMDQNR4	B93
A24UMDUNL4	B93
A24UMDUNR4	B93
A24UMTFNR3	B139
A24UMTFNR4	B139
A24UMVUNL3	B154
A24UMVUNR3	B154
A24UNSL3	C194
A24UNSR3	C194
A25RA4EML0210M	C133
A25RA4EML0310M	C133
A25RA4EML0410M	C133
A25RA4EMR0210M	C133
A25RA4EMR0310M	C133
A25RA4EMR0410M	C133
A25RA4SAL2S12M026036	C134
A25RA4SAL3S14M026036	C134
A25RA4SAR2S12M026036	C134
A25RA4SAR3S14M026036	C134
A25REVEML0210M	C55
A25REVEML0310M	C55
A25REVEML0410M	C55
A25REVEMR0210M	C54
A25REVEMR0310M	C54
A25REVEMR0410M	C54
A25REVSAL0212M026030	C57
A25REVSAL0312M030035	C57
A25REVSAR0212M026030	C57
A25REVSAR0312M030035	C57
A25RNNTOL2	C192
A25RNNTOL3	C192
A25RNNTOR2	C192
A25RNNTOR3	C192
A2732SVSPRW4	B285
A28MDUNL4	B93
A28MDUNR4	B93
A28MTFNR3	B139
A28MTFNR4	B139
A28NEL3	C191, D35
A28NEL4	C191, D35
A28NER3	C191, D35
A28NER4	C191, D35
A28UDCLNL4KC3	B68
A28UDCLNR4KC3	B68
A28UMCLNL4	B71
A28UMCLNR4	B71
A2906XSCLDR1205	B203
A2906XSCLDR121	B203
A2908XSCLDR121	B203
A3206XSCLDR1205	B203
A3206XSCLDR121	B203
A3208XSCLDR121	B203
A32CCLNL4MX5	B391
A32CCLNR4MX5	B391
A32CRGNR4MN5	B391
A32CTFPR4	B183, B389
A32MCKNR4	B70
A32MCLNL5	B71
A32MCLNR4D	B69
A32MCLNR5	B71
A32MCLNR5D	B69
A32MTFNR4	B139
A32MVUNL4	B154
A32MVUNR4	B154
A32NEL3	C191, D35
A32NEL4	C191, D35
A32NEL5	C191, D35
A32NEL6	C191, D35
A32NER3	C191, D35
A32NER4	C191, D35
A32NER6	C191, D35

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
A32NVLCR3	E47
A32SA4EML0312M	C133
A32SA4EML0412M	C133
A32SA4EML0516M	C133
A32SA4EMR0312M	C133
A32SA4EMR0412M	C133
A32SA4EMR0516M	C133
A32SEVEML0312M	C55
A32SEVEML0412M	C55
A32SEVEMR0312M	C54
A32SEVEMR0412M	C54
A32SEVSAL0312M033042	C57
A32SEVSAR0312M033042	C57
A32SNNTOL3	C192
A32SNNTOR3	C192
A32TA4EMR0616N	C132
A32VDCKNL4KC3	B67
A32VDCKNL5KC4	B67
A32VDCLNL4KC3	B68
A32VDCLNL6KC4	B68
A32VDCLNR4KC3	B68
A32VDCLNR5KC4	B68
A32VDDUNR4KC3	B92
A32VMCLNL4	B71
A32VMCLNL6	B71
A32VMCLNR4	B71
A32VMCLNR6	B71
A32VMDUNL4	B93
A32VMDUNR4	B93
A32VNSL3	C194
A32VNSR3	C194
A40MCLNL4	B71
A40MSKNR6	B114
A40MVUNL4	B154
A40MVUNR4	B154
A40NEL3	C191, D35
A40NER3	C191, D35
A40NER4	C191, D35
A40TA4EML0416M	C133
A40TA4EML0516M	C133
A40TA4EML0616M	C133
A40TA4EMR0416M	C133
A40TA4EMR0516M	C133
A40TA4EMR0616M	C133
A40TEVSAL0312M041050	C57
A40TEVSAR0312M041050	C57
A40TNNTOL3	C192
A40TNNTOL4	C192
A40TNNTOR3	C192
A40TNNTOR4	C192
A40VDCLNL4KC3	B68
A40VDCLNL6KC4	B68
A40VDCLNR4KC3	B68
A40VDCLNR6KC4	B68
A40VMCLNL5	B71
A40VMCLNR4	B71
A40VMCLNR5	B71
A40VMCLNR6	B71
A40VNSR3	C194
A4BHCL26K0317R	C135–136
A4BHCL32K0217L	C135–136
A4BHCL32K0317L	C135–136
A4BHCL32K0317R	C135–136
A4BHCR26K0317L	C135–136
A4BHCR32K0217R	C135–136
A4C0155L06CF01 KC5025	C113
A4C0155N00CF01 KC5025	C112
A4C0155N00CF01 KCU25	C112
A4C0155R06CF01 KC5025	C113
A4C0155R10CF01 KCU25	C113
A4C0155R16CF01 KC5025	C113
A4C0205L06CF02 KCU25	C113
A4C0205L10CF02 KC5025	C113
A4C0205N00CF02 KC5025	C112
A4C0205N00CF02 KCU25	C112
A4C0205R06CF02 KC5025	C113
A4C0205R06CF02 KCU25	C113
A4C0205R10CF02 KCU25	C113
A4C0255N00CF02 KC5025	C112
A4C0255N00CF02 KCU25	C112
A4C0255R06CF02 KC5025	C113
A4C0305L06CF02 KC5025	C113
A4C0305L06CF02 KCU25	C113
A4C0305L10CF02 KCU25	C113
A4C0305N00CF02 KC5025	C112
A4C0305N00CF02 KCU25	C112
A4C0305R06CF02 KC5025	C113
A4C0305R06CF02 KCU25	C113
A4C0305R10CF02 KC5025	C113
A4C0305R10CF02 KCU25	C113
A4C0405L06CF02 KCU25	C113
A4C0405L10CF02 KCU25	C113
A4C0405N00CF02 KC5025	C112
A4C0405N00CF02 KCU25	C112
A4C0405R06CF02 KCU25	C113
A4C0405R10CF02 KC5025	C113
A4C0405R10CF02 KCU25	C113
A4ENN120305	C130
A4ENN120407	C130
A4ENN160305	C130
A4ENN160407	C130
A4ENN160509	C130
A4ENN160611	C130
A4ENN160811	C130
A4ENN200611	C130
A4ENN2020K0305	C131
A4ENN2020K0407	C131
A4ENN2020K0611	C131
A4ENN2525M0305	C131
A4ENN2525M0407	C131
A4ENN2525M0509	C131
A4ENN2525M0611	C131
A4ENN3232P0611	C131
A4G0200M02P02GMP KC5010	C105
A4G0200M02P02GMP KC5025	C105
A4G0200M02P02GMP KCU10	C105
A4G0200M02P02GMP KCU25	C105
A4G0200M02P02GUP KCU10	C103
A4G0200M02P02GUP KCU25	C103
A4G0200M2SP02GUP KCU10	C108
A4G0200M2SP02GUP KCU25	C108
A4G0205M02U02GMN KC5010	C106
A4G0205M02U02GMN KC5025	C106
A4G0205M02U02GMN KCP10	C106
A4G0205M02U02GMN KCU10	C106
A4G0205M02U02GMN KCU25	C106
A4G0205M02U02GMP KC5010	C105
A4G0205M02U02GMP KC5025	C105
A4G0205M02U02GMP KCU25	C105
A4G0205M02U02GUP KCP10	C102
A4G0205M02U02GUP KCP25	C102
A4G0205M02U02GUP KCU10	C102
A4G0205M02U02GUP KCU25	C102
A4G0205M2SU02GMN KCU10	C109
A4G0205M2SU02GMN KCU25	C109
A4G0205M2SU02GUP KCU10	C109
A4G0205M2SU02GUP KCU25	C109
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For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
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A4M65R0624A070-112	C139
A4M65R0624A100-212	C139
A4M65R0624A200-999	C139
A4M65R0624B070-112	C141
A4M65R0624B100-212	C141
A4M65R0624B200-999	C141
A4M65R0626M	C138
A4M65R0626MC	C137
A4M65R0820MC	C137
A4M65R0824A090-200	C139
A4M65R0824A184-999	C139
A4M65R0824B090-200	C141
A4M65R0824B184-999	C141
A4M65R0826M	C138
A4M65R0826MC	C137
A4M65R1020MC	C137
A4M65R1024A200-999	C139
A4M65R1024B100-220	C141
A4M65R1024B200-999	C141
A4M65R1026M	C138
A4M65R1026MC	C137
A4R0200M02P00GMP KC5010	C106
A4R0200M02P00GMP KC5025	C106
A4R0200M02P00GMP KCU10	C106
A4R0200M02P00GMP KCU25	C106
A4R0200M2SP00GMP KCU25	C109
A4R0205M02U00GMN KC5010	C107
A4R0205M02U00GMN KC5025	C107
A4R0205M02U00GMN KCP10	C107
A4R0205M02U00GMN KCU25	C107
A4R0300M03P00EST KB1630	B355, C112
A4R0300M03P00GMP K313	C106
A4R0300M03P00GMP KC5010	C106
A4R0300M03P00GMP KC5025	C106
A4R0300M03P00GMP KCU10	C106
A4R0300M03P00GMP KCU25	C106
A4R0300M03P00GUP KCU10	C104
A4R0300M03P00GUP KCU25	C104
A4R0300M03P00T01025 KY3500	B321, C110
A4R0300M3SP00GMP KCU25	C109
A4R0305M03U00GMN KC5010	C107
A4R0305M03U00GMN KC5025	C107
A4R0305M03U00GMN KCP10	C107
A4R0305M03U00GMN KCP25	C107
A4R0305M03U00GMN KCU10	C107
A4R0305M03U00GMN KCU25	C107
A4R0305M03U00GUP KCU10	C104
A4R0305M03U00GUP KCU25	C104
A4R0400M04P00EST KB1630	B355, C112
A4R0400M04P00GMP K313	C106
A4R0400M04P00GMP KC5010	C106
A4R0400M04P00GMP KC5025	C106
A4R0400M04P00GMP KCU10	C106
A4R0400M04P00GMP KCU25	C106
A4R0400M04P00GUP KCU25	C104
A4R0405M04U00GMN KC5010	C107
A4R0405M04U00GMN KC5025	C107
A4R0405M04U00GMN KCP10	C107
A4R0405M04U00GMN KCP25	C107
A4R0405M04U00GMN KCU10	C107
A4R0405M04U00GMN KCU25	C107

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
A4R0405M04U00GUP KCU25	C102
A4R0500M05P00E KD1405	B370, C111
A4R0500M05P00EST KB1630	B355, C112
A4R0500M05P00GMP K313	C106
A4R0500M05P00GMP KC5010	C106
A4R0500M05P00GMP KC5025	C106
A4R0500M05P00GMP KCU10	C106
A4R0500M05P00GMP KCU25	C106
A4R0500M05P00GUP KCU25	C104
A4R0500M05P00T01025 KY3500	B321, C110
A4R0500M5SP00GMP KCU25	C109
A4R0505M05U00GMN KC5010	C107
A4R0505M05U00GMN KC5025	C107
A4R0505M05U00GMN KCP10	C107
A4R0505M05U00GMN KCP25	C107
A4R0505M05U00GMN KCU10	C107
A4R0505M05U00GMN KCU25	C107
A4R0505M05U00GUP KCU10	C104
A4R0505M05U00GUP KCU25	C104
A4R0600M06P00EST KB1630	B355, C112
A4R0600M06P00GMP KC5010	C106
A4R0600M06P00GMP KC5025	C106
A4R0600M06P00GMP KCU10	C106
A4R0600M06P00GMP KCU25	C106
A4R0600M06P00GUP KCU10	C104
A4R0600M06P00GUP KCU25	C104
A4R0600M06P00T01025 KY3500	B321, C110
A4R0605M06U00GMN KC5010	C107
A4R0605M06U00GMN KC5025	C107
A4R0605M06U00GMN KCP10	C107
A4R0605M06U00GMN KCP25	C107
A4R0605M06U00GMN KCU10	C107
A4R0605M06U00GMN KCU25	C107
A4R0605M06U00GUP KCU25	C102
A4R0800M08P00GMP KC5010	C106
A4R0800M08P00GMP KCU10	C106
A4R0800M08P00GMP KCU25	C106
A4R0800M08P00GUP KCU25	C104
A4R0800M08P00T01025 KY3500	B321, C110
A4R0805M08U00GMN KC5010	C107
A4R0805M08U00GMN KC5025	C107
A4R0805M08U00GMN KCP10	C107
A4R0805M08U00GMN KCP25	C107
A4R0805M08U00GMN KCU10	C107
A4R0805M08U00GMN KCU25	C107
A4R0805M08U00GUP KCU25	C102
A4R1000M10P00GUP KCU10	C104
A4R1000M10P00GUP KCU25	C104
A4R1005M10U00GMN KCP25	C107
A4R1005M10U00GMN KCU10	C107
A4R1005M10U00GMN KCU25	C107
A4R1005M10U00GUP KCU10	C104
A4R1005M10U00GUP KCU25	C104
A4R125I03P00GMN KC5010	C107
A4R125I03P00GMN KC5025	C107
A4R125I03P00GMN KCU10	C107
A4R125I03P00GMN KCU25	C107
A4R125I03P00GUP KCU10	C104
A4R125I03P00GUP KCU25	C104
A4R187I04P00GMN KC5010	C107
A4R187I04P00GMN KC5025	C107
A4R187I04P00GMN KCU10	C107
A4R187I04P00GMN KCU25	C107
A4R187I04P00GUP KCU25	C104
A4R250I06P00GMN KC5010	C107
A4R250I06P00GMN KC5025	C107
A4R250I06P00GMN KCU10	C107
A4R250I06P00GMN KCU25	C107
A4R250I06P00GUP KCU10	C104
A4R250I06P00GUP KCU25	C104
A4R250I06P00T0425 KY3500	B321, C110
A4R312I08P00GMN KCU10	C107
A4R312I08P00GUP KCU10	C104
A4R375I10P00GMN KC5025	C107
A4SBL122S12016020	C129
A4SBL2020K2S12016020	C129
A4SBL2020K2S12025036	C129
A4SBL2020K3S14020025	C129
A4SBL2020K4S14025035	C129
A4SBL2525M5S19038058	C129
A4SBR122S12016020	C129
A4SBR122S12020025	C129
A4SBR123S14020025	C129
A4SBR123S14025036	C129
A4SBR165S19038058	C129
A4SBR2020K2S12016020	C129
A4SBR2020K2S12020025	C129
A4SBR2020K2S12025036	C129
A4SBR2020K3S14020025	C129
A4SBR2020K3S14025036	C129
A4SBR2020K4S14035048	C129
A4SBR2525M5S19028038	C129
A4SBR2525M5S19038058	C129
A4SCL080113	C127
A4SCL080214	C127
A4SCL080314	C127
A4SCL100113	C127
A4SCL100217	C127
A4SCL100317	C127
A4SCL120113	C127
A4SCL1212K0113	C128
A4SCL1212K0214	C128
A4SCL1616K0113	C128
A4SCL1616K0217	C128
A4SCL1616K0317	C128
A4SCL2020K0113	C128
A4SCR060113	C127
A4SCR080113	C127
A4SCR080214	C127
A4SCR080314	C127
A4SCR100113	C127
A4SCR100217	C127
A4SCR100317	C127
A4SCR1010K0113	C128
A4SCR120113	C127
A4SCR1212K0113	C128
A4SCR1212K0214	C128
A4SCR1212K0314	C128
A4SCR1616K0113	C128
A4SCR1616K0217	C128
A4SCR1616K0317	C128
A4SCR2020K0113	C128
A4SML100214	C123
A4SML100314	C123
A4SML120217	C123
A4SML120314	C123
A4SML120414	C123
A4SML120519	C123
A4SML120620	C123
A4SML160217	C123
A4SML160317	C123
A4SML160417	C123
A4SML160520	C123
A4SML160620	C123
A4SML160624	C123
A4SML160824	C123
A4SML1616K0214	C125
A4SML1616K0314	C125
A4SML200417	C123
A4SML200522	C123
A4SML200626	C123
A4SML201026	C123
A4SML2016K0317	C125
A4SML2020K0208	C126
A4SML2020K0214	C125
A4SML2020K0217	C125
A4SML2020K0308	C126
A4SML2020K0314	C125
A4SML2020K0317	C125
A4SML2020K0408	C126
A4SML2020K0414	C125
A4SML2020K0417	C125
A4SML2020K0519	C125
A4SML2020K0620	C125
A4SML240626	C123
A4SML2525M0214	C125
A4SML2525M0217	C125
A4SML2525M0317	C125
A4SML2525M0417	C125
A4SML2525M0510	C126
A4SML2525M0520	C125
A4SML2525M0610	C126
A4SML2525M0620	C125
A4SML2525M0820	C125
A4SML3225P0417	C125
A4SML3225P0522	C125
A4SML3225P0626	C125
A4SML3225P0826	C125
A4SML3225P1026	C125
A4SMR100214	C122
A4SMR100314	C122
A4SMR100414	C122
A4SMR120214	C122
A4SMR120217	C122
A4SMR120308	C126
A4SMR120314	C122
A4SMR120414	C122
A4SMR120519	C122
A4SMR120620	C122
A4SMR160217	C122
A4SMR160317	C122
A4SMR160417	C122
A4SMR160510	C126
A4SMR160520	C122
A4SMR160620	C122
A4SMR160624	C122
A4SMR160820	C122
A4SMR160824	C122
A4SMR1616K0214	C124
A4SMR1616K0314	C124
A4SMR200417	C122
A4SMR200522	C122
A4SMR200626	C122
A4SMR200826	C122
A4SMR201026	C122
A4SMR2016K0317	C124
A4SMR2016K0417	C124
A4SMR2020K0208	C126
A4SMR2020K0214	C124
A4SMR2020K0217	C124
A4SMR2020K0308	C126
A4SMR2020K0314	C124
A4SMR2020K0317	C124
A4SMR2020K0408	C126
A4SMR2020K0414	C124
A4SMR2020K0417	C124
A4SMR2020K0519	C124
A4SMR2020K0620	C124
A4SMR240626	C122
A4SMR240826	C122
A4SMR2525M0214	C124
A4SMR2525M0217	C124
A4SMR2525M0317	C124
A4SMR2525M0417	C124
A4SMR2525M0510	C126
A4SMR2525M0520	C124
A4SMR2525M0610	C126
A4SMR2525M0620	C124
A4SMR2525M0820	C124
A4SMR3225P0417	C124
A4SMR3225P0522	C124
A4SMR3225P0626	C124
A4SMR3225P0826	C124
A4SMR3225P1026	C124
A50UNNTOR4	C192
A5505VX05SA.625R1.00	V111
A5505VX06SA.750R1.377	V111
A5505VX08SA1.00R1.575	V111
A5505VX10SA1.25R1.968	V111
A5720VZ16SA1.00Z2R2	T96
A5720VZ16SA1.25Z02R2	T96
A5720VZ16SA1.25Z3R2	T96
A7713VR10SA1.25Z4R1.7	V97–98
A7713VR12SA1.00Z2R1.4	V102–103
A7713VR12SA1.25Z3R1.7	V102–103
A7713VR12SA1.50Z4R1.7	V102
A7713VR12SA1.50Z5R1.7	V102–103
A7792VXD09SA1.0Z2R1.4 S	V9, V13
A7792VXD09SA1.25Z3R2 S	V9, V13
A7792VXD12SA1.25Z2R2 S	V17, V20
A7792VXD12SA1.5Z3R1.7 S	V17, V20
A7792VXP06SA.625Z2R1 S	V4, V6
A7792VXP06SA.75Z2R1.4 S	V4, V6
A7792VXP06SA.75Z3R1.4	V4, V6
A7792VXP06SA1.0Z3R1.4 S	V4, V6
A7792VXP06SA1.0Z4R1.4 S	V4, V6
A7792VXP06SA1.25Z5R2 S	V4, V6
AADE0125J3D K600	P128
AADE0125J3E K600	P128
AADE0188J3C K600	P128
AADE0188J3D K600	P128
AADE0188J3E K600	P128
AADE0250J3A K600	P128
AADE0250J3ARB K600	P128
AADE0250J3B K600	P128
AADE0250J3BRA K600	P128
AADE0250J3BRB K600	P128
AADE0250J3C K600	P128
AADE0250J3CRA K600	P128
AADE0250J3CRB K600	P128
AADE0250J3D K600	P128
AADE0250J3E K600	P128
AADE0250J3F K600	P128
AADE0250J3FRA K600	P128
AADE0250J3G K600	P128
AADE0312J3A K600	P128
AADE0312J3B K600	P128
AADE0312J3D K600	P128
AADE0312J3DRB K600	P128
AADE0375J3A K600	P128
AADE0375J3B K600	P129
AADE0375J3BRB K600	P128
AADE0375J3BRC K600	P128
AADE0375J3C K600	P129
AADE0375J3CRB K600	P129
AADE0375J3CRC K600	P129
AADE0375J3D K600	P129
AADE0375J3DRA K600	P129
AADE0375J3DRB K600	P129
AADE0375J3E K600	P129
AADE0375J3ERA K600	P129
AADE0375J3ERB K600	P129
AADE0375J3ERC K600	P129
AADE0375J3F K600	P128
AADE0375J3G K600	P128
AADE0375J3H K600	P129
AADE0375J3J K600	P129
AADE0375J3KRB K600	P129
AADE0375J3KRC K600	P129
AADE0438J3A K600	P129
AADE0500J3A K600	P129
AADE0500J3ARB K600	P129
AADE0500J3ARC K600	P129
AADE0500J3B K600	P129
AADE0500J3BRA K600	P129
AADE0500J3BRB K600	P129
AADE0500J3BRC K600	P129
AADE0500J3BRE K600	P129
AADE0500J3C K600	P129
AADE0500J3CRA K600	P129
AADE0500J3CRB K600	P129
AADE0500J3CRC K600	P129
AADE0500J3D K600	P129
AADE0500J3DRB K600	P129
AADE0500J3DRC K600	P129
AADE0500J3F K600	P129
AADE0500J3FRA K600	P129
AADE0500J3FRB K600	P129
AADE0500J3FRC K600	P129
AADE0500J3G K600	P129
AADE0500J3GRB K600	P129
AADE0500J3GRC K600	P129
AADE0500J3GRD K600	P129
AADE0500J3H K600	P129
AADE0500J3K K600	P129
AADE0500J3KRB K600	P129
AADE0500J3KRC K600	P129
AADE0500J3L K600	P129
AADE0500J3LRB K600	P129
AADE0500J3LRC K600	P129
AADE0625J3A K600	P129
AADE0625J3B K600	P130
AADE0625J3D K600	P130
AADE0625J3DRA K600	P129
AADE0625J3DRE K600	P130
AADE0625J3E K600	P130
AADE0625J3F K600	P130
AADE0625J3FRE K600	P130

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
AADE0625J3G K600	P130
AADE0625J3H K600	P130
AADE0625J3HRC K600	P130
AADE0750J3A K600	P130
AADE0750J3ARB K600	P130
AADE0750J3ARC K600	P130
AADE0750J3B K600	P130
AADE0750J3BRB K600	P130
AADE0750J3BRC K600	P130
AADE0750J3BRE K600	P130
AADE0750J3C K600	P130
AADE0750J3CRA K600	P130
AADE0750J3CRB K600	P130
AADE0750J3CRC K600	P130
AADE0750J3CRE K600	P130
AADE0750J3D K600	P130
AADE0750J3DRB K600	P130
AADE0750J3DRC K600	P130
AADE0750J3F K600	P130
AADE0750J3G K600	P130
AADE0750J3GRA K600	P130
AADE0750J3GRB K600	P130
AADE0750J3GRD K600	P130
AADE0750J3GRE K600	P130
AADE0750J3H K600	P130
AADE0750J3HRB K600	P130
AADE0750J3HRD K600	P130
AADE0750J3K K600	P130
AADE1000J3A K600	P130
AADE1000J3ARB K600	P130
AADE1000J3B K600	P130
AADE1000J3BRC K600	P130
AADE1000J3C K600	P130
AADE1000J3CRB K600	P130
AADE1000J3CRC K600	P130
AADE1000J3D K600	P130
AADE1000J3E K600	P130
AADE1000J3ERA K600	P130
AADE1000J3ERB K600	P130
AADE1000J3ERE K600	P130
AADE1000J3GRB K600	P130
AADE1000J3H K600	P130
AADE1000J3HRA K600	P130
AADE1000J3I K600	P130
AADE1000J3K K600	P130
AADE125J3F K600	P128
AADE125J3G K600	P128
AADE188J3F K600	P128
AADE250J3B K600	P128
AADE250J3H K600	P128
AADE375J3I K600	P129
AADE438J3A K600	P129
AADE500J3H K600	P129
AADE625J3I K600	P129
AADE750J3J K600	P130
AADE750J3K K600	P130
AADF0125J2A K600	P126
AADF0125J2B K600	P126
AADF0188J2A K600	P126
AADF0188J2B K600	P126
AADF0188J2D K600	P126
AADF0250J2A K600	P126
AADF0250J2B K600	P126
AADF0250J2BRA K600	P126
AADF0250J2BRB K600	P126
AADF0250J2C K600	P126
AADF0250J2E K600	P126
AADF0250J2F K600	P126
AADF0250J2FRB K600	P126
AADF0250J2G K600	P126
AADF0375J2B K600	P126
AADF0375J2C K600	P126
AADF0375J2CRB K600	P126
AADF0375J2CRC K600	P126
AADF0375J2D K600	P126
AADF0375J2DRA K600	P126
AADF0375J2DRB K600	P126
AADF0375J2E K600	P126
AADF0500J2A K600	P126
AADF0500J2B K600	P127
AADF0500J2BRA K600	P127
AADF0500J2BRB K600	P127
AADF0500J2C K600	P127
AADF0500J2CRA K600	P127
AADF0500J2CRB K600	P127
AADF0500J2CRC K600	P127
AADF0500J2D K600	P127
AADF0500J2E K600	P126
AADF0500J2F K600	P127
AADF0500J2FRB K600	P126
AADF0500J2G K600	P127
AADF0500J2GRA K600	P127
AADF0500J2GRB K600	P127
AADF0500J2GRC K600	P127
AADF0625J2BRB K600	P127
AADF0625J2FRB K600	P127
AADF0625J2GRB K600	P127
AADF0750J2B K600	P127
AADF0750J2BRB K600	P127
AADF0750J2C K600	P127
AADF0750J2CRA K600	P127
AADF0750J2CRB K600	P127
AADF0750J2F K600	P127
AADF0750J2GRA K600	P127
AADF1000J2A K600	P127
AADF1000J2BRB K600	P127
AADF1000J2C K600	P127
AADF1000J2D K600	P127
AADF250J2I K600	P126
AADF375J2G K600	P126
AADF375J2H K600	P126
AADF500J2B K600	P127
AADF500J2F K600	P127
ABDE0188J3ARA K600	P117
ABDE0188J3AS K600	P117
ABDE0250J3AQ K600	P120
ABDE0250J3AQB K600	P120
ABDE0250J3ARB K600	P117
ABDE0250J3AS K600	P117
ABDE0250J3BQ K600	P120
ABDE0250J3BQB K600	P120
ABDE0250J3CQ K600	P120
ABDE0250J3CQB K600	P120
ABDE0312J3AQB K600	P120
ABDE0312J3ARB K600	P117
ABDE0312J3AS K600	P117
ABDE0375J3AQ K600	P120
ABDE0375J3AQB K600	P120
ABDE0375J3ARB K600	P117
ABDE0375J3AS K600	P117
ABDE0375J3BQ K600	P120
ABDE0375J3BQB K600	P120
ABDE0375Y3CQA K600	029
ABDE0375Y3CQB K600	029
ABDE0375Y3CQC K600	029
ABDE0375Y3CQD K600	029
ABDE0500J3AQ K600	P120
ABDE0500J3AQB K600	P120
ABDE0500J3AQE K600	P120
ABDE0500J3ARB K600	P117
ABDE0500J3ARC K600	P117
ABDE0500J3ARE K600	P117
ABDE0500J3AS K600	P117
ABDE0500J3BQ K600	P120
ABDE0500J3BQB K600	P120
ABDE0500J3BQC K600	P120
ABDE0500J3BQD K600	P120
ABDE0500J3BQE K600	P120
ABDE0500J3CQ K600	P120
ABDE0500J3CQB K600	P120
ABDE0500J3CQC K600	P120
ABDE0500J3CQD K600	P120
ABDE0500J3CQE K600	P120
ABDE0500Y3CQA K600	029
ABDE0500Y3CQB K600	029
ABDE0500Y3CQC K600	029
ABDE0500Y3CQD K600	029
ABDE0500Y3CQE K600	029
ABDE0625J3AQ K600	P120
ABDE0625J3AQB K600	P120
ABDE0625J3ARB K600	P117
ABDE0625J3AS K600	P117
ABDE0625J3BQ K600	P120
ABDE0625J3BQB K600	P120
ABDE0625J3BQE K600	P120
ABDE0625J3BRB K600	P117
ABDE0625J3BS K600	P117
ABDE0625Y3CQA K600	029
ABDE0625Y3CQB K600	029
ABDE0625Y3CQC K600	029
ABDE0625Y3CQD K600	029
ABDE0625Y3CQE K600	029
ABDE0750J3AQ K600	P120
ABDE0750J3AQB K600	P120
ABDE0750J3AQE K600	P120
ABDE0750J3ARB K600	P117
ABDE0750J3ARC K600	P117
ABDE0750J3ARE K600	P117
ABDE0750J3AS K600	P117
ABDE0750J3BQ K600	P121
ABDE0750J3BQB K600	P121
ABDE0750J3BQC K600	P121
ABDE0750J3BQD K600	P121
ABDE0750J3BQE K600	P121
ABDE0750J3BRB K600	P117
ABDE0750J3BRC K600	P117
ABDE0750J3BRE K600	P117
ABDE0750J3BS K600	P117
ABDE0750J3CQ K600	P121
ABDE0750J3CQB K600	P121
ABDE0750Y3CQB K600	029
ABDE0750Y3CQC K600	029
ABDE0750Y3CQD K600	029
ABDE0750Y3CQE K600	029
ABDE1000J3AQ K600	P121
ABDE1000J3AQB K600	P121
ABDE1000J3AQE K600	P121
ABDE1000J3ARB K600	P117
ABDE1000J3ARC K600	P117
ABDE1000J3ARE K600	P117
ABDE1000J3AS K600	P117
ABDE1000J3BQ K600	P121
ABDE1000J3BQB K600	P121
ABDE1000J3BQE K600	P121
ABDE1000J3BRB K600	P117
ABDE1000J3BRC K600	P117
ABDE1000J3BRE K600	P117
ABDE1000J3BS K600	P117
ABDE1000J3CQ K600	P121
ABDE1000J3CQB K600	P121
ABDE1000Y3CQB K600	029
ABDE1000Y3CQC K600	029
ABDE1000Y3CQD K600	029
ABDE1000Y3CQE K600	029
ABDE1000Y3CQF K600	029
ABDF0188J2ARA K600	P116
ABDF0188J2AS K600	P116
ABDF0250J2AQB K600	P118
ABDF0250J2ARA K600	P116
ABDF0250J2ARB K600	P116
ABDF0250J2AS K600	P116
ABDF0250J2BQ K600	P118
ABDF0250J2BQB K600	P118
ABDF0250J2CQ K600	P118
ABDF0250J2CQB K600	P118
ABDF0312J2AQB K600	P118
ABDF0312J2ARA K600	P116
ABDF0312J2ARB K600	P116
ABDF0312J2AS K600	P116
ABDF0375J2AQ K600	P118
ABDF0375J2AQB K600	P118
ABDF0375J2ARB K600	P116
ABDF0375J2AS K600	P116
ABDF0375J2BQ K600	P118
ABDF0375J2BQB K600	P118
ABDF0375Y2CU K600	028
ABDF0500J2AQ K600	P118
ABDF0500J2AQB K600	P118
ABDF0500J2AQE K600	P118
ABDF0500J2ARB K600	P116
ABDF0500J2ARC K600	P116
ABDF0500J2ARE K600	P116
ABDF0500J2AS K600	P116
ABDF0500J2BQ K600	P118
ABDF0500J2BQB K600	P118
ABDF0500J2BQC K600	P118
ABDF0500J2BQD K600	P118
ABDF0500J2BQE K600	P118
ABDF0500J2CQ K600	P118
ABDF0500J2CQB K600	P118
ABDF0500J2CQC K600	P118
ABDF0500J2CQD K600	P118
ABDF0500J2CQE K600	P118
ABDF0500Y2CU K600	028
ABDF0625J2AQ K600	P118
ABDF0625J2AS K600	P116
ABDF0625J2BQ K600	P118
ABDF0625J2BQB K600	P118
ABDF0625J2BQE K600	P118
ABDF0625J2BRB K600	P116
ABDF0625J2BRC K600	P116
ABDF0625J2BRE K600	P116
ABDF0625J2BS K600	P116
ABDF0625Y2CU K600	028
ABDF0750J2AQ K600	P118
ABDF0750J2AQB K600	P118
ABDF0750J2AQE K600	P118
ABDF0750J2ARB K600	P116
ABDF0750J2ARC K600	P116
ABDF0750J2ARE K600	P116
ABDF0750J2AS K600	P116
ABDF0750J2BQ K600	P119
ABDF0750J2BQB K600	P118
ABDF0750J2BQC K600	P118
ABDF0750J2BQD K600	P119
ABDF0750J2BQE K600	P119
ABDF0750J2BRB K600	P116
ABDF0750J2BRC K600	P116
ABDF0750J2BS K600	P116
ABDF0750J2CQ K600	P119
ABDF0750J2CQB K600	P119
ABDF0750Y2CU K600	028
ABDF1000J2AQ K600	P119
ABDF1000J2AQB K600	P119
ABDF1000J2AQE K600	P119
ABDF1000J2ARB K600	P116
ABDF1000J2ARC K600	P116
ABDF1000J2ARE K600	P116
ABDF1000J2AS K600	P116
ABDF1000J2BQ K600	P119
ABDF1000J2BQB K600	P119
ABDF1000J2BQE K600	P119
ABDF1000J2BRB K600	P116
ABDF1000J2BRC K600	P116
ABDF1000J2BS K600	P116
ABDF1000J2CQ K600	P119
ABDF1000J2CQB K600	P119
AFB09075SCFCR06	K134
AFB13085SCFCR06	K134
AFB17100SCFCR06	K134
AFB21110SCFCR09	K134
AFB24115SCFCR09	K134
AFB27115SCFCR09	K134
AFB31115SCFCR09	K134
AFB34115SCFCR09	K134
AFB38115SCFPR09	K134
AFB42115SCFPR09	K134
AFB47115SCFPR09	K134
AFM29115	K135
AFM29SCFPR06	K136
AFM47115	K135
AFM47SCFPR09	K136
ASPM07001802	T63–64
B041A01000CPG KC7325	G8
B041A01016CPG KC7325	G8
B041A01041CPG KC7325	G8
B041A01067CPG KC7325	G8
B041A01092CPG KC7325	G8
B041A01100CPG KC7325	G8
B041A01181CPG KC7325	G8
B041A01191CPG KC7325	G8
B041A01200CPG KC7325	G8
B041A01300CPG KC7325	G8
B041A01321CPG KC7325	G8
B041A01397CPG KC7325	G8
B041A01400CPG KC7325	G8
B041A01500CPG KC7325	G8
B041A01600CPG KC7325	G8
B041A01700CPG KC7325	G8

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B041A01800CPG KC7325	G8
B041A01900CPG KC7325	G8
B041A01984CPG KC7325	G8
B041A02000CPG KC7325	G8
B041A02100CPG KC7325	G8
B041A02200CPG KC7325	G8
B041A02300CPG KC7325	G8
B041A02383CPG KC7325	G8
B041A02400CPG KC7325	G8
B041A02439CPG KC7325	G8
B041A02489CPG KC7325	G8
B041A02500CPG KC7325	G8
B041A02578CPG KC7325	G8
B041A02600CPG KC7325	G8
B041A02642CPG KC7325	G8
B041A02700CPG KC7325	G8
B041A02705CPG KC7325	G9
B041A02779CPG KC7325	G9
B041A02800CPG KC7325	G9
B041A02820CPG KC7325	G9
B041A02870CPG KC7325	G9
B041A02900CPG KC7325	G9
B041A02947CPG KC7325	G9
B041A03000CPG KC7325	G9
B041A03048CPG KC7325	G9
B041A03100CPG KC7325	G9
B041A03175CPG KC7325	G9
B041A03200CPG KC7325	G9
B041A03264CPG KC7325	G9
B041A03300CPG KC7325	G9
B041A03400CPG KC7325	G9
B041A03455CPG KC7325	G9
B041A03500CPG KC7325	G9
B041A03571CPG KC7325	G9
B041A03600CPG KC7325	G9
B041A03658CPG KC7325	G9
B041A03700CPG KC7325	G9
B041A03734CPG KC7325	G9
B041A03800CPG KC7325	G9
B041A03900CPG KC7325	G9
B041A03970CPG KC7325	G9
B041A04000CPG KC7325	G9
B041A04039CPG KC7325	G9
B041A04090CPG KC7325	G9
B041A04100CPG KC7325	G9
B041A04200CPG KC7325	G9
B041A04217CPG KC7325	G9
B041A04300CPG KC7325	G9
B041A04366CPG KC7325	G9
B041A04400CPG KC7325	G9
B041A04500CPG KC7325	G9
B041A04600CPG KC7325	G9
B041A04623CPG KC7325	G9
B041A04700CPG KC7325	G9
B041A04763CPG KC7325	G9
B041A04800CPG KC7325	G9
B041A04852CPG KC7325	G9
B041A04900CPG KC7325	G9
B041A05000CPG KC7325	G9
B041A05100CPG KC7325	G9
B041A05106CPG KC7325	G9
B041A05159CPG KC7325	G9
B041A05200CPG KC7325	G9
B041A05300CPG KC7325	G9
B041A05400CPG KC7325	G9
B041A05410CPG KC7325	G9
B041A05500CPG KC7325	G9
B041A05558CPG KC7325	G9
B041A05600CPG KC7325	G10
B041A05616CPG KC7325	G10
B041A05700CPG KC7325	G10
B041A05800CPG KC7325	G10
B041A05900CPG KC7325	G10
B041A05954CPG KC7325	G10
B041A06000CPG KC7325	G10
B041A06100CPG KC7325	G10
B041A06200CPG KC7325	G10
B041A06300CPG KC7325	G10
B041A06350CPG KC7325	G10
B041A06400CPG KC7325	G10
B041A06500CPG KC7325	G10
B041A06528CPG KC7325	G10
B041A06600CPG KC7325	G10
B041A06630CPG KC7325	G10
B041A06700CPG KC7325	G10
B041A06746CPG KC7325	G10
B041A06800CPG KC7325	G10
B041A06900CPG KC7325	G10
B041A07000CPG KC7325	G10
B041A07100CPG KC7325	G10
B041A07145CPG KC7325	G10
B041A07200CPG KC7325	G10
B041A07300CPG KC7325	G10
B041A07400CPG KC7325	G10
B041A07500CPG KC7325	G10
B041A07541CPG KC7325	G10
B041A07600CPG KC7325	G10
B041A07700CPG KC7325	G10
B041A07800CPG KC7325	G10
B041A07900CPG KC7325	G10
B041A07938CPG KC7325	G10
B041A08000CPG KC7325	G10
B041A08100CPG KC7325	G10
B041A08200CPG KC7325	G10
B041A08300CPG KC7325	G10
B041A08334CPG KC7325	G10
B041A08400CPG KC7325	G10
B041A08433CPG KC7325	G10
B041A08500CPG KC7325	G10
B041A08600CPG KC7325	G10
B041A08700CPG KC7325	G10
B041A08733CPG KC7325	G10
B041A08800CPG KC7325	G10
B041A08900CPG KC7325	G10
B041A09000CPG KC7325	G10
B041A09100CPG KC7325	G10
B041A09129CPG KC7325	G10
B041A09200CPG KC7325	G10
B041A09300CPG KC7325	G10
B041A09347CPG KC7325	G10
B041A09400CPG KC7325	G11
B041A09500CPG KC7325	G11
B041A09525CPG KC7325	G11
B041A09600CPG KC7325	G11
B041A09700CPG KC7325	G11
B041A09800CPG KC7325	G11
B041A09900CPG KC7325	G11
B041A09921CPG KC7325	G11
B041A10000CPG KC7325	G11
B041A10100CPG KC7325	G11
B041A10200CPG KC7325	G11
B041A10300CPG KC7325	G11
B041A10320CPG KC7325	G11
B041A10400CPG KC7325	G11
B041A10500CPG KC7325	G11
B041A10600CPG KC7325	G11
B041A10700CPG KC7325	G11
B041A10716CPG KC7325	G11
B041A10800CPG KC7325	G11
B041A10900CPG KC7325	G11
B041A11000CPG KC7325	G11
B041A11100CPG KC7325	G11
B041A11113CPG KC7325	G11
B041A11200CPG KC7325	G11
B041A11300CPG KC7325	G11
B041A11400CPG KC7325	G11
B041A11500CPG KC7325	G11
B041A11509CPG KC7325	G11
B041A11600CPG KC7325	G11
B041A11700CPG KC7325	G11
B041A11800CPG KC7325	G11
B041A11900CPG KC7325	G11
B041A11908CPG KC7325	G11
B041A12000CPG KC7325	G11
B041A12100CPG KC7325	G11
B041A12200CPG KC7325	G11
B041A12300CPG KC7325	G11
B041A12304CPG KC7325	G11
B041A12400CPG KC7325	G11
B041A12500CPG KC7325	G11
B041A12600CPG KC7325	G11
B041A12700CPG KC7325	G11
B041A12800CPG KC7325	G11
B041A12900CPG KC7325	G11
B041A13000CPG KC7325	G11
B041A13096CPG KC7325	G11
B041A13100CPG KC7325	G11
B041A13200CPG KC7325	G11
B041A13300CPG KC7325	G11
B041A13400CPG KC7325	G11
B041A13500CPG KC7325	G11
B041A13600CPG KC7325	G11
B041A13700CPG KC7325	G12
B041A13800CPG KC7325	G12
B041A13891CPG KC7325	G12
B041A13900CPG KC7325	G12
B041A14000CPG KC7325	G12
B041A14100CPG KC7325	G12
B041A14200CPG KC7325	G12
B041A14288CPG KC7325	G12
B041A14300CPG KC7325	G12
B041A14400CPG KC7325	G12
B041A14500CPG KC7325	G12
B041A14600CPG KC7325	G12
B041A14684CPG KC7325	G12
B041A14700CPG KC7325	G12
B041A14800CPG KC7325	G12
B041A14900CPG KC7325	G12
B041A15000CPG KC7325	G12
B041A15083CPG KC7325	G12
B041A15100CPG KC7325	G12
B041A15200CPG KC7325	G12
B041A15300CPG KC7325	G12
B041A15400CPG KC7325	G12
B041A15479CPG KC7325	G12
B041A15500CPG KC7325	G12
B041A15600CPG KC7325	G12
B041A15700CPG KC7325	G12
B041A15800CPG KC7325	G12
B041A15875CPG KC7325	G12
B041A15900CPG KC7325	G12
B041A16000CPG KC7325	G12
B041A16100CPG KC7325	G12
B041A16200CPG KC7325	G12
B041A16271CPG KC7325	G12
B041A16300CPG KC7325	G12
B041A16400CPG KC7325	G12
B041A16500CPG KC7325	G12
B041A16600CPG KC7325	G12
B041A16670CPG KC7325	G12
B041A16700CPG KC7325	G12
B041A16800CPG KC7325	G12
B041A16900CPG KC7325	G12
B041A17000CPG KC7325	G12
B041A17100CPG KC7325	G12
B041A17200CPG KC7325	G12
B041A17300CPG KC7325	G12
B041A17400CPG KC7325	G12
B041A17463CPG KC7325	G12
B041A17500CPG KC7325	G12
B041A17600CPG KC7325	G12
B041A17700CPG KC7325	G12
B041A17800CPG KC7325	G12
B041A17859CPG KC7325	G12
B041A17900CPG KC7325	G13
B041A18000CPG KC7325	G13
B041A18100CPG KC7325	G13
B041A18200CPG KC7325	G13
B041A18258CPG KC7325	G13
B041A18300CPG KC7325	G13
B041A18400CPG KC7325	G13
B041A18500CPG KC7325	G13
B041A18600CPG KC7325	G13
B041A18654CPG KC7325	G13
B041A18700CPG KC7325	G13
B041A18800CPG KC7325	G13
B041A18900CPG KC7325	G13
B041A19000CPG KC7325	G13
B041A19050CPG KC7325	G13
B041A19100CPG KC7325	G13
B041A19200CPG KC7325	G13
B041A19300CPG KC7325	G13
B041A19400CPG KC7325	G13
B041A19500CPG KC7325	G13
B041A19600CPG KC7325	G13
B041A19700CPG KC7325	G13
B041A19800CPG KC7325	G13
B041A19900CPG KC7325	G13
B041A20000CPG KC7325	G13
B042A01000CPG KC7325	G8
B042A01016CPG KC7325	G8
B042A01041CPG KC7325	G8
B042A01067CPG KC7325	G8
B042A01092CPG KC7325	G8
B042A01100CPG KC7325	G8
B042A01181CPG KC7325	G8
B042A01191CPG KC7325	G8
B042A01200CPG KC7325	G8
B042A01300CPG KC7325	G8
B042A01321CPG KC7325	G8
B042A01397CPG KC7325	G8
B042A01400CPG KC7325	G8
B042A01500CPG KC7325	G8
B042A01600CPG KC7325	G8
B042A01700CPG KC7325	G8
B042A01800CPG KC7325	G8
B042A01900CPG KC7325	G8
B042A01984CPG KC7325	G8
B042A02000CPG KC7325	G8
B042A02100CPG KC7325	G8
B042A02200CPG KC7325	G8
B042A02300CPG KC7325	G8
B042A02383CPG KC7325	G8
B042A02400CPG KC7325	G8
B042A02439CPG KC7325	G8
B042A02489CPG KC7325	G8
B042A02500CPG KC7325	G8
B042A02578CPG KC7325	G8
B042A02600CPG KC7325	G8
B042A02642CPG KC7325	G8
B042A02700CPG KC7325	G8
B042A02705CPG KC7325	G9
B042A02779CPG KC7325	G9
B042A02800CPG KC7325	G9
B042A02820CPG KC7325	G9
B042A02870CPG KC7325	G9
B042A02900CPG KC7325	G9
B042A02947CPG KC7325	G9
B042A03000CPG KC7325	G9
B042A03048CPG KC7325	G9
B042A03100CPG KC7325	G9
B042A03175CPG KC7325	G9
B042A03200CPG KC7325	G9
B042A03264CPG KC7325	G9
B042A03300CPG KC7325	G9
B042A03400CPG KC7325	G9
B042A03455CPG KC7325	G9
B042A03500CPG KC7325	G9
B042A03571CPG KC7325	G9
B042A03600CPG KC7325	G9
B042A03658CPG KC7325	G9
B042A03700CPG KC7325	G9
B042A03734CPG KC7325	G9
B042A03800CPG KC7325	G9
B042A03900CPG KC7325	G9
B042A03970CPG KC7325	G9
B042A04000CPG KC7325	G9
B042A04039CPG KC7325	G9
B042A04090CPG KC7325	G9
B042A04100CPG KC7325	G9
B042A04200CPG KC7325	G9
B042A04217CPG KC7325	G9
B042A04300CPG KC7325	G9
B042A04366CPG KC7325	G9
B042A04400CPG KC7325	G9
B042A04500CPG KC7325	G9
B042A04600CPG KC7325	G9
B042A04623CPG KC7325	G9
B042A04700CPG KC7325	G9
B042A04763CPG KC7325	G9
B042A04800CPG KC7325	G9
B042A04852CPG KC7325	G9
B042A04900CPG KC7325	G9
B042A05000CPG KC7325	G9
B042A05100CPG KC7325	G9
B042A05106CPG KC7325	G9
B042A05159CPG KC7325	G9
B042A05200CPG KC7325	G9

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B042A05300CPG KC7325	G9
B042A05400CPG KC7325	G9
B042A05410CPG KC7325	G9
B042A05500CPG KC7325	G9
B042A05558CPG KC7325	G9
B042A05600CPG KC7325	G10
B042A05616CPG KC7325	G10
B042A05700CPG KC7325	G10
B042A05800CPG KC7325	G10
B042A05900CPG KC7325	G10
B042A05954CPG KC7325	G10
B042A06000CPG KC7325	G10
B042A06100CPG KC7325	G10
B042A06200CPG KC7325	G10
B042A06300CPG KC7325	G10
B042A06350CPG KC7325	G10
B042A06400CPG KC7325	G10
B042A06500CPG KC7325	G10
B042A06528CPG KC7325	G10
B042A06600CPG KC7325	G10
B042A06630CPG KC7325	G10
B042A06700CPG KC7325	G10
B042A06746CPG KC7325	G10
B042A06800CPG KC7325	G10
B042A06900CPG KC7325	G10
B042A07000CPG KC7325	G10
B042A07100CPG KC7325	G10
B042A07145CPG KC7325	G10
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B051A10716CPG KC7325	G17
B051A10800CPG KC7325	G17

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B051A10900CPG KC7325	G17
B051A11000CPG KC7325	G17
B051A11100CPG KC7325	G17
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B052A13900CPG KC7325	G17
B052A14000CPG KC7325	G17
B052A14100CPG KC7325	G17
B052A14200CPG KC7325	G18
B052A14288CPG KC7325	G18
B052A14300CPG KC7325	G18
B052A14400CPG KC7325	G18
B052A14500CPG KC7325	G18
B052A14600CPG KC7325	G18
B052A14684CPG KC7325	G18
B052A14700CPG KC7325	G18
B052A14800CPG KC7325	G18
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B052A15000CPG KC7325	G18
B052A15083CPG KC7325	G18
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B052A15200CPG KC7325	G18
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B052A15400CPG KC7325	G18
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B052A15875CPG KC7325	G18
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B052A16000CPG KC7325	G18
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B052A16271CPG KC7325	G18
B052A16300CPG KC7325	G18
B052A16400CPG KC7325	G18
B052A16500CPG KC7325	G18
B052A16600CPG KC7325	G18
B052A16670CPG KC7325	G18
B052A16700CPG KC7325	G18
B052A16800CPG KC7325	G18
B052A16900CPG KC7325	G18
B052A17000CPG KC7325	G18
B052A17100CPG KC7325	G18

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B052A17200CPG KC7325	G18
B052A17300CPG KC7325	G18
B052A17400CPG KC7325	G18
B052A17463CPG KC7325	G18
B052A17500CPG KC7325	G18
B052A17600CPG KC7325	G18
B052A17700CPG KC7325	G18
B052A17800CPG KC7325	G18
B052A17859CPG KC7325	G18
B052A17900CPG KC7325	G18
B052A18000CPG KC7325	G18
B052A18100CPG KC7325	G18
B052A18200CPG KC7325	G18
B052A18258CPG KC7325	G18
B052A18300CPG KC7325	G18
B052A18400CPG KC7325	G19
B052A18500CPG KC7325	G19
B052A18600CPG KC7325	G19
B052A18654CPG KC7325	G19
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B052A19050CPG KC7325	G19
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B052A19600CPG KC7325	G19
B052A19700CPG KC7325	G19
B052A19800CPG KC7325	G19
B052A19900CPG KC7325	G19
B052A20000CPG KC7325	G19
B053A01000CPG KC7325	G14
B053A01016CPG KC7325	G14
B053A01067CPG KC7325	G14
B053A01100CPG KC7325	G14
B053A01181CPG KC7325	G14
B053A01191CPG KC7325	G14
B053A01200CPG KC7325	G14
B053A01300CPG KC7325	G14
B053A01321CPG KC7325	G14
B053A01397CPG KC7325	G14
B053A01400CPG KC7325	G14
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B053A02700CPG KC7325	G14
B053A02705CPG KC7325	G14
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B053A02800CPG KC7325	G14
B053A02820CPG KC7325	G14
B053A02870CPG KC7325	G14
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B053A02947CPG KC7325	G15
B053A03000CPG KC7325	G15
B053A03048CPG KC7325	G15
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B053A04090CPG KC7325	G15
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B053A04217CPG KC7325	G15
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B053A04500CPG KC7325	G15
B053A04600CPG KC7325	G15
B053A04623CPG KC7325	G15
B053A04700CPG KC7325	G15
B053A04763CPG KC7325	G15
B053A04800CPG KC7325	G15
B053A04852CPG KC7325	G15
B053A04900CPG KC7325	G15
B053A05000CPG KC7325	G15
B053A05100CPG KC7325	G15
B053A05106CPG KC7325	G15
B053A05159CPG KC7325	G15
B053A05200CPG KC7325	G15
B053A05300CPG KC7325	G15
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B053A05410CPG KC7325	G15
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B053A19700CPG KC7325	G19
B053A19800CPG KC7325	G19
B053A19900CPG KC7325	G19
B053A20000CPG KC7325	G19
B105A03000 K10	G24
B105A03100 K10	G24
B105A03200 K10	G24
B105A03300 K10	G24
B105A03400 K10	G24
B105A03500 K10	G24
B105A03600 K10	G24
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B105A04200 K10	G24
B105A04300 K10	G24
B105A04500 K10	G24
B105A04600 K10	G24
B105A04650 K10	G24
B105A04700 K10	G24
B105A04800 K10	G24
B105A04900 K10	G24
B105A05000 K10	G24
B105A05100 K10	G24
B105A05200 K10	G24
B105A05400 K10	G24
B105A05500 K10	G24
B105A05550 K10	G24
B105A05600 K10	G24
B105A05700 K10	G24
B105A05800 K10	G24
B105A06000 K10	G24
B105A06100 K10	G24

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B105A06200 K10	G24
B105A06300 K10	G24
B105A06350 K10	G24
B105A06400 K10	G24
B105A06500 K10	G24
B105A06600 K10	G25
B105A06700 K10	G25
B105A06800 K10	G25
B105A07000 K10	G25
B105A07100 K10	G25
B105A07400 K10	G25
B105A07500 K10	G25
B105A07600 K10	G25
B105A07800 K10	G25
B105A08000 K10	G25
B105A08100 K10	G25
B105A08200 K10	G25
B105A08300 K10	G25
B105A08400 K10	G25
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B105A09700 K10	G25
B105A09800 K10	G25
B105A10000 K10	G25
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B105A10200 K10	G25
B105A10300 K10	G25
B105A10400 K10	G25
B105A10500 K10	G25
B105A10700 K10	G25
B105A10800 K10	G25
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B105A11200 K10	G25
B105A11500 K10	G25
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B105A12700 K10	G25
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B105A13000 K10	G25
B105A13100 K10	G25
B105A13500 K10	G25
B105A13800 K10	G25
B105A14000 K10	G25
B105A14200 K10	G26
B105A14500 K10	G26
B105A15000 K10	G26
B105A15100 K10	G26
B105A15500 K10	G26
B105A15800 K10	G26
B105A16000 K10	G26
B105A16500 K10	G26
B105A17000 K10	G26
B105A17500 K10	G26
B105A18000 K10	G26
B105A18500 K10	G26
B105A19000 K10	G26
B105A19500 K10	G26
B105A20000 K10	G26
B105A20500 K10	G26
B105A21000 K10	G26
B10CTFPR2	B184, B390
B12CTFPR3	B184, B390
B14CTFPR3	B184, B390
B16CTFPR3	B184, B390
B20CTFPR3	B184, B390
B210A03000SGL KCMS15	G30
B210A03048SGL KCMS15	G30
B210A03175SGL KCMS15	G30
B210A03200SGL KCMS15	G30
B210A03264SGL KCMS15	G30
B210A03300SGL KCMS15	G30
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B210A03455SGL KCMS15	G30
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B210A04200SGL KCMS15	G30
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B210A04366SGL KCMS15	G30
B210A04500SGL KCMS15	G30
B210A04700SGL KCMS15	G30
B210A04800SGL KCMS15	G31
B210A04900SGL KCMS15	G31
B210A05000SGL KCMS15	G31
B210A05100SGL KCMS15	G31
B210A05106SGL KCMS15	G31
B210A05159SGL KCMS15	G31
B210A05200SGL KCMS15	G31
B210A05300SGL KCMS15	G31
B210A05400SGL KCMS15	G31
B210A05500SGL KCMS15	G31
B210A05616SGL KCMS15	G31
B210A05800SGL KCMS15	G31
B210A05954SGL KCMS15	G31
B210A06000SGL KCMS15	G31
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B210A06200SGL KCMS15	G31
B210A06300SGL KCMS15	G31
B210A06350SGL KCMS15	G31
B210A06400SGL KCMS15	G31
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B210A06700SGL KCMS15	G31
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B210A07145SGL KCMS15	G31
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B210A08100SGL KCMS15	G31
B210A08200SGL KCMS15	G31
B210A08400SGL KCMS15	G31
B210A08433SGL KCMS15	G31
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B210A08600SGL KCMS15	G31
B210A08700SGL KCMS15	G32
B210A08800SGL KCMS15	G32
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B210A11000SGL KCMS15	G32
B210A11200SGL KCMS15	G32
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B212A03455SGL KCMS15	G30
B212A03500SGL KCMS15	G30
B212A03571SGL KCMS15	G30

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B212A03658SGL KCMS15	G30
B212A03700SGL KCMS15	G30
B212A03800SGL KCMS15	G30
B212A04000SGL KCMS15	G30
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B224A03600HP KCPK15	G44
B224A03658HP KCPK15	G44
B224A03700HP KCPK15	G44

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B224A03734HP KCPK15	G44
B224A03800HP KCPK15	G44
B224A03900HP KCPK15	G44
B224A03970HP KCPK15	G44
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For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
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For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
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For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B271Z13500HPS KN25	G69
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B274Z06800HPG KCPK20	G73
B274Z07000HPG KCPK20	G73
B274Z07000HPS KN25	G73
B274Z07000SGL KCMS20	G73

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B274Z07145SGL KCMS20	G73
B274Z07500SGL KCMS20	G73
B274Z07700HPG KCPK20	G74
B274Z07938HPG KCPK20	G74
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B274Z08000HPG KCPK20	G74
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B285D06600HPS KN15	G83
B285D06630HPS KN15	G83
B285D06700HPS KN15	G83
B285D06746HPS KN15	G83
B285D06800HPS KN15	G83
B285D06900HPS KN15	G83

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B285D07000HPS KN15	G83
B285D07145HPS KN15	G83
B285D07300HPS KN15	G83
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B292A05100YPL KC7315	G88
B292A05200YPL KC7315	G88
B292A05410YPL KC7315	G88
B292A05500YPL KC7315	G88

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B292A05558YPL KC7315	G88
B292A05600YPL KC7315	G88
B292A05800YPL KC7315	G88
B292A06000YPL KC7315	G88
B292A06200YPL KC7315	G88
B292A06350YPL KC7315	G89
B292A06500YPL KC7315	G89
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B411A03800 KF1	G94
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B411A20000 KF1	G95
B411A21000 KF1	G95
B411A22000 KF1	G95
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B411A24000 KF1	G95
B411A25000 KF1	G95
B501Z04000 K10	G144
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B501Z12000 K10	G144
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B505Z08000 K10	G144
B505Z10000 K10	G144
B505Z12000 K10	G144
B505Z16000 K10	G144
B505Z20000 K10	G144
B510S08000 A30	J86
B510S08000 AS3	J86
B510S10000 A30	J86
B510S10000 AS3	J86
B510S15000 A30	J86
B510S15000 AS3	J86
B510S20000 A30	J86
B510S20000 AS3	J86
B510S25000 A30	J86
B510S25000 AS3	J86
B510S30000 A30	J86
B510S30000 AS3	J86
B511S08000 KC7315	J86
B511S10000 KC7315	J86
B511S15000 KC7315	J86
B511S20000 KC7315	J86
B511S25000 KC7315	J86
B511S30000 KC7315	J86
B513S08000 A30	J76
B513S08000 AS3	J76
B513S10000 A30	J76
B513S10000 AS3	J76
B514S08000 KC7030	J76
B514S10000 KC7030	J76
B531A03200SPF KDF400	G100
B531A03300SPF KDF400	G100
B531A03600SPF KDF400	G100
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B531A06375SPF KDF400	G100
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B531A07938SPF KDF400	G100
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B531A11125SPF KDF400	G100
B531A12725SPF KDF400	G100
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B532A06700SPF KDF400	G100
B532A07200SPF KDF400	G100
B532A07938SPF KDF400	G100
B532A09563SPF KDF400	G100
B532A12725SPF KDF400	G100
B551A04763DAL KN15	G104
B551A06350DAL KN15	G104

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B551A07938DAL KN15	G104
B551A09525DAL KN15	G104
B551A11113DAL KN15	G104
B551A12700DAL KN15	G104
B551A14288DAL KN15	G104
B551A15875DAL KN15	G104
B556A04763DAL KN15	G104
B556A04826DAL KN15	G104
B556A06350DAL KN15	G104
B556A06375DAL KN15	G104
B556A07938DAL KN15	G104
B556A09525DAL KN15	G104
B556A11113DAL KN15	G104
B556A12700DAL KN15	G104
B556A14288DAL KN15	G104
B556A15875DAL KN15	G104
B707A03000FBG KC7315	G110
B707A03000FBL KCMS15	G110
B707A03000FBS KN15	G110
B707A03175FBG KC7315	G110
B707A03175FBL KCMS15	G110
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B951A12800 KCH10	G125
B951A13000 KCH10	G126
B951A13500 KCH10	G126
B951A14000 KCH10	G126
B951A14500 KCH10	G126
B951A15500 KCH10	G126
B951A16000 KCH10	G126
B966A03000 KC7315	G130
B966A03100 KC7315	G130

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B966A03200 KC7315	G130
B966A03300 KC7315	G130
B966A03400 KC7315	G130
B966A03500 KC7315	G130
B966A03600 KC7315	G130
B966A03700 KC7315	G130
B966A03800 KC7315	G130
B966A03900 KC7315	G130
B966A03960 KC7315	G130
B966A04000 KC7315	G130
B966A04100 KC7315	G130
B966A04200 KC7315	G130
B966A04300 KC7315	G130
B966A04400 KC7315	G130
B966A04500 KC7315	G130
B966A04600 KC7315	G130
B966A04700 KC7315	G130
B966A04800 KC7315	G130
B966A04900 KC7315	G130
B966A05000 KC7315	G130
B966A05040 KC7315	G130
B966A05100 KC7315	G130
B966A05200 KC7315	G130
B966A05300 KC7315	G130
B966A05400 KC7315	G130
B966A05500 KC7315	G130
B966A05600 KC7315	G130
B966A05700 KC7315	G130
B966A05800 KC7315	G130
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B966A06000 KC7315	G130
B966A06050 KC7315	G130
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B966A06200 KC7315	G130
B966A06300 KC7315	G131
B966A06350 KC7315	G131
B966A06400 KC7315	G131
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B966A13400 KC7315	G132
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B976A15875 KC7315	G138
B976A16000 KC7315	G138
B976A16200 KC7315	G138
B976A16500 KC7315	G138

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B976A16670 KC7315	G138
B976A16800 KC7315	G138
B976A17000 KC7315	G138
B976A17100 KC7315	G138
B976A17463 KC7315	G138
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B978A16000 KC7315	G141
B978A16078 KC7315	G141
B978A16200 KC7315	G141

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
B978A16500 KC7315	G141
B978A17000 KC7315	G141
B978A17463 KC7315	G141
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BMD250R6404S075L200	V88
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BMD400R8605S125L250	V91
BMD500R6406S150L250	V88
BMD500R6408S150L250	V88
BMD500R8606S150L250	V91
BMD600R1610S150L250	V77
BMD600R6407S150L250	V88
BMD600R6408S150L250	V88
BMD600R8607S150L250	V91
BMD800R6409S250L250	V88
BMD800R6409S250L250HP	V88
BMD800R8608S250L250	V91
BMD800R8608S250L250HP	V91
BP46	B170, B385
BP68	B170, B385
BP812	B170, B385
BT40BDL10200	053
BT40BDL12200	053
BT40BDL16225	053
BT40BDL20225	053
BT40BDL25238	053
BT40BDL32275	053
BT40BKR32030M	K91
BT40BKR50050M	K91
BT40BSIF80063M	K48
BT40FBHM1691	K133
BT40FBHMKIT164M	K127, K131
BT50BHTS22075M	J91
BT50BHTS32080M	J91
BT50BHTS40080M	J91
BT50BHTS50080M	J91
BT50BKR32040M	K91
BT50BKR50040M	K91
BT50BKR63060M	K91
BT50BKR80060M	K91
BT50BSIF100068M	K49
BT50BSIF70063M	K49
BT50BT13088	K142
BTQSW3L90	S30
BTQT25	S94, S98, S100
C11816W KWH	B407
C11820W KWH	B407
C11932W KWH	B409
C11940W KWH	B409
C2FIX110404LMN KCU25	E8
C2FIX110404RMN KCU10	E8
C2FIX110405LMN KCP25	E8
C2FIX110405LMN KCP40	E8
C2FIX110405LMN KCU10	E8
C2FIX110405RMN KCP25	E8
C2FIX110405RMN KCP40	E8
C2FIX110408LMN KCP25	E8
C2FIX150504LMN KCP40	E8
C2FIX150504LMN KCU25	E8
C2FIX150505LMN KCP25	E8
C2FIX150505LMN KCP40	E8
C2FIX150505LMN KCU10	E8
C2FIX150505RMN KCP25	E8
C2FIX150508LMN KCP25	E8
C2FIX150508LMN KCU10	E8
C2FIX150508LMN KCU25	E8
C2FIX150510LMN KCP25	E8
C2FIX150510LMN KCP40	E8
C2FIX150510RMN KCP25	E8
C2FIX150512RMN KCU25	E8
C2FIX180610LMN KCP25	E8
C2FIX180610LMN KCP40	E8
C2FIX180610LMN KCU10	E8
C5230VS09-A2.0Z04R3.1	T128
C5230VS09-A2.0Z4R2.0	T128
C5230VS09CA2.0Z04R4.0	T127
C5230VS12-A2.5Z4R2.24	T131
C5230VS12-A2.5Z4R3.70	T131
C5230VS12-A3.0Z5R2.56	T131
C5230VS12-A3.0Z5R4.33	T131
C5505VX05CA.62R1.6	V114
C5505VX05CA.75/.62R1	V114
C5505VX06CA.75R1.7	V114
C5505VX06CA1/.75R1.5	V114
C5505VX06WA.750R2.00	V113
C5505VX08CA1.00R2.2	V114
C5505VX08WA1.00R2.37	V112
C5505VX10CA1.25R2.2	V114
C5505VX10WA1.25R3.00	V112
C5505VX10WA1.25R4.00	V112
C5505VX12WA1.50R4.00	V112
C5505VX12WA1.50R6.00	V112
C5505VX16WA2.00R4.00	V112
C5505VX16WA2.00R6.00 S	V112
C5720VZ16-A1.50Z03R	T98
C5720VZ16-A2.00Z03R	T98
C5720VZ16-A2.00Z04R	T98
C5720VZ16-A2.50Z04R	T98
C5720VZ16-A2.50Z05R	T98
C5720VZ16-A3.00Z04R	T98
C5720VZ16-A3.00Z05R	T98
C5720VZ16CA1.0Z02R2.7	T97
C5720VZ16CA1.25Z2R3.0	T97
C5720VZ16CA1.25Z3R3.0	T97
C6420 KWH	B408
C6420W KWH	B408
C6424W KWH	B408
C6428W KWH	B408
C6432W KWH	B408
C6440W KWH	B408
C7713VR10-A1.50Z05R	V98
C7713VR10-A2.00Z7R	V98
C7713VR10-A2.50Z8R	V98
C7713VR10CA1.00Z3R2.0	V97–98
C7713VR10CA1.25Z4R2.7	V97–98
C7713VR12-A1.50Z4R	V103
C7713VR12-A1.50Z5R	V103
C7713VR12-A2.00Z4R	V103
C7713VR12-A2.00Z5R	V103
C7713VR12-A2.00Z6R	V103
C7713VR12-A2.50Z6R	V103
C7713VR12-A2.50Z7R	V103
C7713VR12-A3.00Z8R	V103
C7713VR12CA1.00Z2R2.0	V102–103
C7713VR12CA1.25Z3R2.7	V102–103
C7792VXD09-A1.50Z4R	V12–13
C7792VXD09-A1.50Z5R	V12–13
C7792VXD09-A2.00Z5R	V12–13
C7792VXD09-A2.00Z6R	V12–13
C7792VXD09-A2.00Z7R	V12–13
C7792VXD09CA1.00Z2R2	V11, V13
C7792VXD09CA1.00Z3R2	V11, V13
C7792VXD09CA1.25Z3R3	V11, V13
C7792VXD09CA1.25Z4R3	V11, V13
C7792VXD09WA1.00Z2R	V10, V13
C7792VXD09WA1.25Z3R	V10, V13
C7792VXD12-6.00Z12R	V19–20
C7792VXD12-6.00Z15R	V19–20
C7792VXD12-6.30Z8R	V19–20
C7792VXD12-A1.50Z4R	V19–20
C7792VXD12-A2.00Z3R	V19–20
C7792VXD12-A2.00Z4R	V19–20
C7792VXD12-A2.00Z5R	V19–20
C7792VXD12-A2.00Z6R	V19–20
C7792VXD12-A2.50Z4R	V19–20
C7792VXD12-A2.50Z5R	V19–20
C7792VXD12-A2.50Z7R	V19–20
C7792VXD12-A3.00Z5R	V19–20
C7792VXD12-A3.00Z8R	V19–20
C7792VXD12-A3.00Z9R	V19–20
C7792VXD12-A4.00Z11R	V19–20
C7792VXD12-A4.00Z6R S	V19–20
C7792VXD12-A4.00Z9R	V19–20
C7792VXD12-A5.00Z11R	V19–20
C7792VXD12-A5.00Z13R	V19–20
C7792VXD12-A5.00Z8R	V19–20
C7792VXD12CA1.2/1.5Z3	V18, V20
C7792VXD12CA1.25Z2R3	V18, V20
C7792VXD12CA1.25Z3R3	V18, V20
C7792VXD12CA1.50Z4R3	V18, V20
C7792VXE16-6.00Z12R	V26–27
C7792VXE16-6.00Z13R	V26–27
C7792VXE16-A1.5/4.00Z7R	V26
C7792VXE16-A1.5/4.00Z9R	V26
C7792VXE16-A2.00Z4R	V26–27
C7792VXE16-A2.50Z5R	V26–27
C7792VXE16-A2.50Z6R	V26–27
C7792VXE16-A3.00Z6R	V26–27
C7792VXE16-A3.00Z7R	V26–27
C7792VXE16-A4.00Z8R	V26–27
C7792VXE16-A4.00Z9R	V26–27
C7792VXE16-A5.00Z10R	V26–27
C7792VXE16-A5.00Z11R	V26–27
C7792VXE16CA1.50Z2R4	V25
C7792VXE16CA2.00Z3R4	V25, V27
C7792VXP06CA.62Z2R5.5	V5–6
C7792VXP06CA.75Z3R6.1	V5–6
C7792VXP06CA1.0Z4R6.1	V5–6
C7792VXP06CA1.25Z5R8	V5–6
C8FIX120503LMP KCP10	E13
C8FIX120503LMP KCP25	E13
C8FIX120503LMP KCU10	E13
C8FIX120503RMP KCP25	E13
C8FIX120503RMP KCU10	E13
C8FIX120503RMP KCU25	E13
C8FIX120503RRP KCP25	E12
C8FIX120503RRP KCP40	E12
C8FIX120504RRP KCP10	E12
C8FIX120504RRP KCP25	E12
C8FIX120505RRP KCP25	E12
C8FIX120505RRP KCU25	E12
C8FIX120508LRP KCP25	E12
C8FIX120508LRP KCP40	E12
C8FIX120508RRP KCP10	E12
C8FIX120508RRP KCP25	E12
C8FIX150603LMP KCP25	E13
C8FIX150603RMP KCP10	E13
C8FIX150603RMP KCP25	E13
C8FIX150603RMP KCP40	E13
C8FIX150603RMP KCU10	E13
C8FIX150603RMP KCU25	E13
C8FIX150605LRN KCP25	E12
C8FIX150605LRN KCP40	E12
C8FIX150605LRN KCU25	E12
C8FIX150605RRN KCP10	E12
C8FIX150605RRN KCP25	E12
C8FIX150605RRN KCP40	E12
C8FIX150605RRN KCU10	E12
C8FIX150605RRN KCU25	E12
C8FIX150608LRN KCP25	E12
C8FIX150608LRN KCU25	E12
C8FIX150608LRP KCU25	E12
C8FIX150608RRN KCP10	E12
C8FIX150608RRN KCP25	E12
C8FIX150608RRN KCP40	E12
C8FIX150608RRN KCU25	E12
C8FIX150612LRN KCP25	E12
C8FIX150612LRP KCP25	E12
C8FIX150612RRN KCP25	E12
C8FIX180805RMP KCP25	E13
C8FIX180808RRN KCP25	E12
C8FIX180808RRN KCP40	E12
C8FIX180812LRN KCP25	E12
C8FIX180812RRN KCP25	E12
C8FIX180812RRN KCP40	E12
C8FIX180812RRN KCU25	E12
CBDB0250JXAS KCN05	P138
CBDB0250JXBS KCN05	P138
CBDB0375JXAS KCN05	P138
CBDB0375JXBS KCN05	P138
CBDB0500JXAS KCN05	P138
CBDB0500JXBS KCN05	P138
CBTF150R2WD20N2M	J114
CBTF160R2WD20N2M	J114
CBTF170R2WD20N2M	J114
CBTF180R2WD20N2M	J114
CBTF180R2WD20N3M	J114
CBTF200R2WD20N2M	J114
CBTF200R2WD20N3M	J114
CBTF210R2WD20N2M	J114
CBTF210R2WD20N3M	J114
CBTF220R2WD20N2M	J114
CBTF220R2WD20N3M	J114
CBTF230R2WD20N2M	J114
CBTF230R2WD20N3M	J114
CBTF240R2WD20N2M	J114
CBTF240R2WD20N3M	J114
CBTF250R2WD20N2M	J114
CBTF250R2WD20N3M	J114
CBTF260R2WD20N2M	J114
CBTF270R2WD20N3M	J114
CBTF280R2WD20N3M	J114
CBTF300R2WD20N3M	J114
CBTF320R2WD20N3M	J114
CBTF330R2WD20N3M	J114
CBTF340R2WD32N3M	J114
CBTF350R2WD32N3M	J114
CBTF360R2WD32N3M	J114
CBTF380R2WD32N3M	J114
CBTF400R2WD32N3M	J114
CBTF420R2WD32N3M	J114
CBTF460R2WD32N3M	J114
CC09	B200–204
CC11	B200–203
CCGM3251S0525MTCB1 KBH20	B328
CCGM3252S0525MTCB1 KBH20	B328
CCGT21505HP K313	B189
CCGT21505HP KC5025	B189
CCGT21505HP KC5410	B189
CCGT21505HP KCU10	B189
CCGT21505HP KCU25	B189
CCGT21505LF KC5010	B189
CCGT21505LF KC5025	B189
CCGT21505LF KCU10	B189
CCGT2150LF KC5010	B189
CCGT2150LF KC5025	B189

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CCGT2150LF KCU10	B189
CCGT2151HP K313	B189
CCGT2151HP KC5010	B189
CCGT2151HP KC5025	B189
CCGT2151HP KC5410	B189
CCGT2151HP KCU10	B189
CCGT2151HP KCU25	B189
CCGT2151LF KC5010	B189
CCGT2151LF KC5025	B189
CCGT2151LF KCU10	B189
CCGT2152HP KC5010	B189
CCGT2152HP KC5410	B189
CCGT2152HP KCU25	B189
CCGT2152LF KC5010	B189
CCGT2152LF KCU10	B189
CCGT215X0LF KC5025	B189
CCGT32505HP K313	B189
CCGT32505HP KC5010	B189
CCGT32505HP KC5025	B189
CCGT32505HP KC5410	B189
CCGT32505HP KCU10	B189
CCGT32505HP KCU25	B189
CCGT32505LF KC5010	B189
CCGT32505LF KC5025	B189
CCGT32505LF KCU10	B189
CCGT3250LF KC5010	B189
CCGT3250LF KC5025	B189
CCGT3250LF KCU10	B189
CCGT3251HP K313	B189
CCGT3251HP KC5010	B189
CCGT3251HP KC5025	B189
CCGT3251HP KC5410	B189
CCGT3251HP KCU10	B189
CCGT3251HP KCU25	B189
CCGT3251LF KC5010	B189
CCGT3251LF KC5025	B189
CCGT3251LF KC5410	B189
CCGT3251LF KCU10	B189
CCGT3252HP KC5010	B189
CCGT3252HP KC5025	B189
CCGT3252HP KC5410	B189
CCGT3252HP KCU10	B189
CCGT3252HP KCU25	B189
CCGT3252LF K313	B189
CCGT3252LF KC5010	B189
CCGT3252LF KC5025	B189
CCGT3252LF KCU10	B189
CCGT325X0LF KC5025	B189
CCGT4305HP KC5010	B189
CCGT4305HP KCU10	B189
CCGT4305HP KCU25	B189
CCGT431HP K313	B189
CCGT431HP KC5010	B189
CCGT431HP KC5025	B189
CCGT431HP KC5410	B189
CCGT431HP KCU10	B189
CCGT432HP K313	B189
CCGT432HP KC5010	B189
CCGT432HP KC5410	B189
CCGT432HP KCU10	B189
CCGT432HP KCU25	B189
CCGW21505S0415C KB5630	B311, B328
CCGW21505S0415MT KBH10	B328
CCGW21505S0525MT KBH20	B328
CCGW2151FST KD1400	B362
CCGW2151FST KD1425	B362
CCGW2151S0415C KB5630	B311, B328
CCGW2151S0415MT KBH10	B328
CCGW2151S0525MT KBH20	B328
CCGW32505S0415MT KBH10	B328
CCGW32505S0525MT KBH20	B328
CCGW3251FST KD1400	B362
CCGW3251FST KD1425	B362
CCGW3251S0415FWMT KBH20	B328
CCGW3251S0415MT KB5630	B311, B328
CCGW3251S0415MT KBH10	B328
CCGW3251S0415MT KBH20	B328
CCGW3251S0525MT KBH10	B328
CCGW3251S0525MT KBH20	B328
CCGW3252EC KB1345	B311
CCGW3252FST KD1400	B362
CCGW3252FST KD1425	B362
CCGW3252S0415FWMT KBH10	B328
CCGW3252S0415FWMT KBH20	B328
CCGW3252S0415MT KB5630	B311, B328
CCGW3252S0415MT KBH10	B328
CCGW3252S0415MT KBH20	B328
CCGW3252S0525MT KBH10	B328
CCGW3252S0525MT KBH20	B328
CCGW432S0415MT KBH20	B328
CCLNL164	B372
CCLNL164DMX5	B383
CCLNL204DMX5	B383
CCLNLP163D	B372
CCLNR164	B372
CCLNR164DMX5	B383
CCLNR204DMX5	B383
CCLNRP163D	B372
CCLPL124B	B165, B376
CCLPL164C	B165, B376
CCLPR084V	B165, B376
CCLPR124B	B165, B376
CCLPR164C	B165, B376
CCMT21505FP KCM25	B190
CCMT21505FP KCM25B	B190
CCMT21505FP KCP10	B190
CCMT21505FP KCP25	B190
CCMT21505FP KCU10	B190
CCMT21505FP KCU25	B190
CCMT21505FW KC5010	B190
CCMT21505FW KT315	B190
CCMT21505LF KC5010	B191
CCMT21505LF KC5025	B191
CCMT21505LF KT315	B191
CCMT215111 KT315	B190
CCMT2151FP KCM15	B190
CCMT2151FP KCM15B	B190
CCMT2151FP KCM25	B190
CCMT2151FP KCM25B	B190
CCMT2151FP KCP05	B190
CCMT2151FP KCP10	B190
CCMT2151FP KCP10B	B190
CCMT2151FP KCP25	B190
CCMT2151FP KCP25B	B190
CCMT2151FP KCU10	B190
CCMT2151FP KCU25	B190
CCMT2151FP KTP10	B190
CCMT2151FW KC5010	B190
CCMT2151FW KCK20B	B190
CCMT2151FW KCP25	B190
CCMT2151FW KCU10	B190
CCMT2151FW KT315	B190
CCMT2151LF K313	B191
CCMT2151LF KC5010	B191
CCMT2151LF KC5025	B191
CCMT2151LF KCK05	B191
CCMT2151LF KCK15	B191
CCMT2151LF KCK15B	B191
CCMT2151LF KCK20	B191
CCMT2151LF KCK20B	B191
CCMT2151LF KCM15	B191
CCMT2151LF KCM15B	B191
CCMT2151LF KCM25	B191
CCMT2151LF KCM25B	B191
CCMT2151LF KCM35	B191
CCMT2151LF KCP10	B191
CCMT2151LF KCP10B	B191
CCMT2151LF KCP25	B191
CCMT2151LF KCP25B	B191
CCMT2151LF KCP30	B191
CCMT2151LF KT315	B191
CCMT2151MF KCK15	B191
CCMT2151MF KCK20	B191
CCMT2151MF KCM15B	B191
CCMT2151MF KCM25	B191
CCMT2151MF KCM25B	B191
CCMT2151MF KCM35	B191
CCMT2151MF KCP10	B191
CCMT2151MF KCP10B	B191
CCMT2151MF KCP25	B191
CCMT2151MF KCP25B	B191
CCMT2151MF KCP30	B191
CCMT2151MP KCM15	B191
CCMT2151MP KCM15B	B191
CCMT2151MP KCM25	B191
CCMT2151MP KCM25B	B191
CCMT2151MP KCP10	B191
CCMT2151MP KCP25	B191
CCMT2151MP KCU10	B191
CCMT2151UF KC5010	B192
CCMT2151UF KCP05	B192
CCMT2151UF KCP10	B192
CCMT2151UF KCP25	B192
CCMT2151UF KCP25B	B192
CCMT2152FP KCM25	B190
CCMT2152FP KCM25B	B190
CCMT2152FP KCP25	B190
CCMT2152FP KCP25B	B190
CCMT2152FP KCU10	B190
CCMT2152FP KCU25	B190
CCMT2152FP KTP10	B190
CCMT2152FW KC5010	B190
CCMT2152FW KCK20	B190
CCMT2152FW KCP25	B190
CCMT2152FW KT315	B190
CCMT2152LF KC5010	B191
CCMT2152LF KC5025	B191
CCMT2152LF KCK05	B191
CCMT2152LF KCK05B	B191
CCMT2152LF KCK15	B191
CCMT2152LF KCK15B	B191
CCMT2152LF KCK20B	B191
CCMT2152LF KCM15B	B191
CCMT2152LF KCM25	B191
CCMT2152LF KCP05	B191
CCMT2152LF KCP10	B191
CCMT2152LF KCP25	B191
CCMT2152LF KCP25B	B191
CCMT2152LF KCP30	B191
CCMT2152LF KT315	B191
CCMT32505FP KCM25	B190
CCMT32505FP KCM25B	B190
CCMT32505FP KCP25	B190
CCMT32505FP KCP25B	B190
CCMT32505FP KCU10	B190
CCMT32505FP KCU25	B190
CCMT32505FP KTP10	B190
CCMT32505LF K313	B191
CCMT32505LF KC5010	B191
CCMT32505LF KC5025	B191
CCMT32505LF KT315	B191
CCMT32505UF KC5010	B192
CCMT32505UF KCP05	B192
CCMT32505UF KCP10	B192
CCMT325111 KT315	B190
CCMT3251FP KCM15	B190
CCMT3251FP KCM15B	B190
CCMT3251FP KCM25	B190
CCMT3251FP KCM25B	B190
CCMT3251FP KCP05	B190
CCMT3251FP KCP10B	B190
CCMT3251FP KCP25	B190
CCMT3251FP KCP25B	B190
CCMT3251FP KCU10	B190
CCMT3251FP KCU25	B190
CCMT3251FP KTP10	B190
CCMT3251FW KC5010	B190
CCMT3251FW KCP25	B190
CCMT3251FW KCU10	B190
CCMT3251FW KT315	B190
CCMT3251LF K313	B191
CCMT3251LF KC5010	B191
CCMT3251LF KC5025	B191
CCMT3251LF KCK05	B191
CCMT3251LF KCK15	B191
CCMT3251LF KCK15B	B191
CCMT3251LF KCK20	B191
CCMT3251LF KCM15B	B191
CCMT3251LF KCM25	B191
CCMT3251LF KCM25B	B191
CCMT3251LF KCM35	B191
CCMT3251LF KCP10	B191
CCMT3251LF KCP10B	B191
CCMT3251LF KCP25	B191
CCMT3251LF KCP25B	B191
CCMT3251LF KCP30	B191
CCMT3251LF KT315	B191
CCMT3251MF KCK15	B191
CCMT3251MF KCK15B	B191
CCMT3251MF KCK20	B191
CCMT3251MF KCK20B	B191
CCMT3251MF KCM15B	B191
CCMT3251MF KCM25	B191
CCMT3251MF KCM25B	B191
CCMT3251MF KCP10B	B191
CCMT3251MF KCP25	B191
CCMT3251MF KCP25B	B191
CCMT3251MF KCP30	B191
CCMT3251MP KCK20B	B191
CCMT3251MP KCM15B	B191
CCMT3251MP KCM25	B191
CCMT3251MP KCM25B	B191
CCMT3251MP KCP10	B191
CCMT3251MP KCP25	B191
CCMT3251MP KCU10	B191
CCMT3251MW KC5010	B192
CCMT3251MW KCM15B	B192
CCMT3251MW KCU10	B192
CCMT3251MW KT315	B192
CCMT3251UF KC5010	B192
CCMT3251UF KCP10	B192
CCMT3251UF KCP25	B192
CCMT325211 KT315	B190
CCMT3252FP KCM15B	B190
CCMT3252FP KCM25	B190
CCMT3252FP KCM25B	B190
CCMT3252FP KCP10	B190
CCMT3252FP KCP10B	B190
CCMT3252FP KCP25	B190
CCMT3252FP KCP25B	B190
CCMT3252FP KCU10	B190
CCMT3252FP KCU25	B190
CCMT3252FP KTP10	B190
CCMT3252FW KC5010	B190
CCMT3252FW KCK20	B190
CCMT3252FW KCM15B	B190
CCMT3252FW KCP25	B190
CCMT3252FW KCU10	B190
CCMT3252FW KT315	B190
CCMT3252LF K313	B191
CCMT3252LF KC5010	B191
CCMT3252LF KCK05	B191
CCMT3252LF KCK15	B191
CCMT3252LF KCK15B	B191
CCMT3252LF KCK20	B191
CCMT3252LF KCK20B	B191
CCMT3252LF KCM15B	B191
CCMT3252LF KCM25	B191
CCMT3252LF KCM25B	B191
CCMT3252LF KCM35	B191
CCMT3252LF KCP05	B191
CCMT3252LF KCP10	B191
CCMT3252LF KCP10B	B191
CCMT3252LF KCP25	B191
CCMT3252LF KCP25B	B191
CCMT3252LF KCP30	B191
CCMT3252LF KT315	B191
CCMT3252MF KC5025	B191
CCMT3252MF KCK15	B191
CCMT3252MF KCK15B	B191
CCMT3252MF KCK20	B191
CCMT3252MF KCK20B	B191
CCMT3252MF KCM15B	B191
CCMT3252MF KCM25	B191
CCMT3252MF KCM25B	B191
CCMT3252MF KCM35	B191
CCMT3252MF KCP10B	B191
CCMT3252MF KCP25	B191
CCMT3252MF KCP25B	B191
CCMT3252MF KCP30	B191
CCMT3252MP KCK20	B191
CCMT3252MP KCK20B	B191
CCMT3252MP KCM15B	B191
CCMT3252MP KCM25	B191
CCMT3252MP KCM25B	B191
CCMT3252MP KCP10	B191
CCMT3252MP KCP25	B191
CCMT3252MP KCU10	B191

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CCMT3252MW KC5010	B192
CCMT3252MW KCK20	B192
CCMT3252MW KCK20B	B192
CCMT3252MW KCM15B	B192
CCMT3252MW KCP25	B192
CCMT3252MW KCU10	B192
CCMT3252MW KT315	B192
CCMT3252UF KC5010	B192
CCMT3252UF KCP10B	B192
CCMT3253MF KCK15	B191
CCMT3253MF KCK20	B191
CCMT3253MF KCK20B	B191
CCMT3253MF KCM25B	B191
CCMT3253MF KCP10	B191
CCMT3253MF KCP25	B191
CCMT3253MF KCP25B	B191
CCMT3253MP KCM25	B191
CCMT3253MP KCP25	B191
CCMT3253MP KCU10	B191
CCMT431FP KCM25B	B190
CCMT431FP KCP10B	B190
CCMT431FP KCP25B	B190
CCMT431FP KCU10	B190
CCMT431FP KCU25	B190
CCMT431LF KC5010	B191
CCMT431LF KC5025	B191
CCMT431LF KCK15B	B191
CCMT431LF KCK20	B191
CCMT431LF KCP10	B191
CCMT431LF KCP25	B191
CCMT431LF KCP25B	B191
CCMT431LF KCP30	B191
CCMT431MW KC5010	B192
CCMT431MW KCP25	B192
CCMT432FP KCM25	B190
CCMT432FP KCP25B	B190
CCMT432FP KCU10	B190
CCMT432LF KC5010	B191
CCMT432LF KC5025	B191
CCMT432LF KCK15	B191
CCMT432LF KCK20	B191
CCMT432LF KCK20B	B191
CCMT432LF KCM25B	B191
CCMT432LF KCM35	B191
CCMT432LF KCP10	B191
CCMT432LF KCP10B	B191
CCMT432LF KCP25	B191
CCMT432LF KCP25B	B191
CCMT432MF KCK15	B191
CCMT432MF KCK15B	B191
CCMT432MF KCK20	B191
CCMT432MF KCK20B	B191
CCMT432MF KCM15B	B191
CCMT432MF KCM25	B191
CCMT432MF KCM25B	B191
CCMT432MF KCM35	B191
CCMT432MF KCP10	B191
CCMT432MF KCP10B	B191
CCMT432MF KCP25	B191
CCMT432MF KCP25B	B191
CCMT432MF KCP30	B191
CCMT432MP KCK20	B191
CCMT432MP KCK20B	B191
CCMT432MP KCM25B	B191
CCMT432MP KCP10	B191
CCMT432MP KCP25	B191
CCMT432MP KCU10	B191
CCMT432MW KC5010	B192
CCMT432MW KCK20B	B192
CCMT432MW KCP25	B192
CCMT433FP KCP10	B190
CCMT433LF KCK20B	B191
CCMT433LF KCM25	B191
CCMT433LF KCP10	B191
CCMT433LF KCP25B	B191
CCMT433MF KC5025	B191
CCMT433MF KCK15	B191
CCMT433MF KCK20	B191
CCMT433MF KCP25	B191
CCMT433MF KCP25B	B191
CCMT433MP KCK20	B191
CCMT433MP KCM25	B191
CCMT433MP KCM25B	B191
CCMT433MP KCP25	B191
CCMW2151 KCK20B	B192
CCMW3252 KCK20	B192
CCMW3252 KCK20B	B192
CCMW432 KCK20	B192
CCMW432 KCK20B	B192
CCMW433 KCK20	B192
CCMW433 KCK20B	B192
CCNC0250J3AH KCN05	P136
CCNC0250J3BH KCN05	P136
CCNC0375J4AH KCN05	P136
CCNC0375J4BH KCN05	P136
CCNC0500J4AH KCN05	P136
CCNC0500J4BH KCN05	P136
CCRNRP163D	B373
CDDC0250J6AH KCN05	P137
CDDC0250J6BH KCN05	P137
CDDC0375J6AH KCN05	P137
CDDC0375J6BH KCN05	P137
CDDC0500J6AH KCN05	P137
CDDC0500J6BH KCN05	P137
CDHB120601 KC5010	B199
CDHB120601 KC5025	B199
CDHB120601 KCU25	B199
CDHB120605 K313	B199
CDHB120605 KC5010	B199
CDHB120605 KC5025	B199
CDHB120605 KCU10	B199
CDHB120605 KCU25	B199
CDHB120605 KT315	B199
CDHB120605FST KD1400	B362
CDHB120605FST KD1425	B362
CDHB12061 KC5010	B199
CDHB12061 KC5025	B199
CDHB12061 KCU10	B199
CDHB12061 KCU25	B199
CDHB12061 KT315	B199
CDHB1206X0 KCU10	B199
CDHB1206X0FST KD1400	B362
CDHH120605L KC5010	B199
CDHH120605L KC5025	B199
CDHH120605L KCU10	B199
CDHH120605L KCU25	B199
CDHH120605L KT315	B199
CDHH120605R KC5010	B199
CDHH120605R KC5025	B199
CDHH120605R KCU10	B199
CDHH120605R KT315	B199
CDHH12061L KC5010	B199
CDHH12061L KC5025	B199
CDHH12061L KCU10	B199
CDHH12061L KCU25	B199
CDHH12061R KC5010	B199
CDHH12061R KCU10	B199
CFB10082	K135
CFB12096	K135
CFB14110	K135
CFB16120	K135
CFB18140	K135
CFM0402R00RHP KCU40	H43
CFM0402R30RHP KCU40	H43
CFM0402R45RHP KCU40	H43
CK10	B172–173, B179, B181–184, B188, B374–382, B389–390, B393
CK12	B61–65, B69, B71, B75–76, B89–90, B93, B96, B98, B111–112, B114, B120, B133–134, B137, B165, B373, B376
CK13	B165, B180, B376, B379–380
CK19	B132, B135–136, B179, B181–185, B378, B381–382, B389–390, B392
CK20	B60–64, B69–71, B75–76, B89–90, B163, B165, B183–185, B372–374, B389–390, B392
CK21	B61, B66, B69, B98–99, B120, B371–372
CK22	B92, B96, B155, B165, B389
CK23	B89–90, B180, B379–380
CK24	B63–64, B98, B111–112
CK27	B183–185, B388–390, B392
CK28	B374
CK29	B172, B376
CK43	B152–155
CK6	B63, B71, B98, B111, B113, B132–137, B163, B373
CK7	B69, B76, B89–90, B93, B96, B133, B139, B143, B165, B172, B183–185, B376, B389–390, B392
CK7LP	B170, B388, B392–393
CK9	B62, B65, B98, B111–114, B132–139, B143, B172–173, B179, B181–184, B374–382, B389–390
CKM34	B72–74, B94–95, B115–119, B140–142, B174–176, B186–187, B394–398
CKM35	B74, B115, B140–142, B186, B397
CKM36	B72, B94–95, B115–119
CKM37	B74, B115–117, B119
CKM41	B74, B94
CM-72	C193, D31–33, D36, D39
CM105	E45
CM106	E44–45
CM109	C190, D36–37
CM111	E46
CM112	E46
CM113	E43, E47, E49
CM114	E43
CM116	E40, E48
CM117	E40
CM118	E48–49
CM119	E49
CM120	C184, C187, C191, D26, D28, D32, D35
CM121	C184, C187, C191, C195, D26, D28, D32, D35, D38
CM144	C184, D28
CM145	C195, D38
CM146	C191–193, D35–37, D39–40
CM147	C191–193, D35–37, D39–40
CM180	E42
CM181	E42
CM182	C185, D25
CM183	C185, D25
CM184LP	C185, D25
CM185LP	C185, D25
CM209R ASSY	B58–60, B67–68, B87
CM210R ASSY	B58–60, B68, B98, B109–110
CM214	B168–169, B386–387
CM215R ASSY	B150–151, B154
CM216	B168–169, B386–387
CM219	B168–169, B386–387
CM234R ASSY	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B113, B131, B154, B163
CM234RLP ASSY	B67–68, B92, B138
CM235R ASSY	B150–151
CM66	E41, E45
CM68	E41–42, E44–46
CM71	E41, E44–45
CM72LP	C182–184, C186–189, C191–192, C194–196, D26–30, D35, D38, D41
CM73	C193, D31–33, D36, D39
CM73LP	C182–184, C186–189, C191–192, C194–195, D26–30, D35, D37–38
CM74	C182–183, C185–188, C191–193, C196, D25–27, D29–31, D33, D35–36, D39, D41
CM75	C182–183, C185, C187–188, C191–193, C196, D25–27, D30–31, D33, D35–37, D39, D41
CM79	E41, E44–46
CM80	C182, C187, C191, D26–27, D32, D35
CM81	C182, C187, D26–27, D32
CNG431T0820 KY1615	B329
CNG432T0820 KY1615	B329
CNG432T0820 KY3500	B316
CNG433T0820 KY1615	B329
CNG433T0820 KY3500	B316
CNG434T0420 KYS25	B350
CNG434T0820 KY3500	B316
CNG452T0820 KY1615	B329
CNG453T0420 KYS25	B350
CNG453T0420 KYS30	B350
CNG453T0820 KY1615	B329
CNG453T0820 KY3500	B316
CNG454T0420 KYS30	B350
CNG454T0820 KY1615	B329
CNG454T0820 KYK10	B316
CNG554T0820 KY1615	B329
CNG554T2015 KY1615	B329
CNGA431E KD1405	B362
CNGA431FST KD1400	B362
CNGA431FST KD1425	B362
CNGA431S0415FWMT KBH10	B330
CNGA431S0415FWMT KBH20	B330
CNGA431S0415MT KBH10	B330
CNGA431S0415MT KBH20	B330
CNGA431S0425FWMT KB5630	B310, B330
CNGA431S0425MT KB5630	B310, B330
CNGA431S0525MT KBH20	B330
CNGA431S0735MT KBH20	B330
CNGA431T0820 KY1615	B329
CNGA432E KD1405	B362
CNGA432E KYS25	B350
CNGA432E KYS30	B350
CNGA432FST KD1400	B362
CNGA432FST KD1425	B362
CNGA432S0415FWMT KBH10	B330
CNGA432S0415FWMT KBH20	B330
CNGA432S0415MT KBH10	B330
CNGA432S0415MT KBH20	B330
CNGA432S0420MT KB1345	B310
CNGA432S0425FWMT KB5630	B310, B330
CNGA432S0425MT KB5630	B310, B330
CNGA432S0525FWMT KBH10	B330
CNGA432S0525MT KBH10	B330
CNGA432S0525MT KBH20	B330
CNGA432S0735MT KBH10	B330
CNGA432S0735MT KBH20	B330
CNGA432S0820MT KB1345	B310
CNGA432T0220 KY1615	B329
CNGA432T0420 KYS25	B350
CNGA432T0420 KYS30	B350
CNGA432T0420FW KY3500	B313
CNGA432T0420FW KYK25	B313
CNGA432T0820 KY1615	B313, B329
CNGA432T0820 KY3500	B313
CNGA432T0820 KYK10	B313
CNGA432T0820 KYK25	B313
CNGA433S0415FWMT KBH20	B330
CNGA433S0415MT KBH10	B330
CNGA433S0415MT KBH20	B330
CNGA433S0420MT KB5630	B310, B330
CNGA433S0425MT KB5630	B310, B330
CNGA433S0525FWMT KBH10	B330
CNGA433S0525MT KBH10	B330
CNGA433S0525MT KBH20	B330
CNGA433S0735MT KBH10	B330
CNGA433S0735MT KBH20	B330
CNGA433T0420 KYS25	B350
CNGA433T0420 KYS30	B350
CNGA433T0420FW KY3500	B313
CNGA433T0420FW KYK10	B313
CNGA433T0420FW KYK25	B313
CNGA433T0820 KY1615	B313, B329
CNGA433T0820 KY3500	B313
CNGA433T0820 KYK10	B313
CNGA433T0820 KYK25	B313
CNGA433T0820FW KYK10	B313
CNGA434T0420FW KY3500	B313
CNGA434T0820 KY1615	B313, B329
CNGA434T0820 KY3500	B313
CNGA434T0820 KYK10	B313
CNGA434T0820 KYK25	B313
CNGA543T0820 KY1615	B313, B329
CNGA543T0820 KY3500	B313
CNGA543T0820 KYK25	B313
CNGA544T0820 KY3500	B313
CNGA643T0820 KY1615	B313, B329
CNGA643T0820 KY3500	B313
CNGA644T0820 KY1615	B313, B329
CNGA644T0820 KY3500	B313
CNGA644T0820 KYK25	B313
CNGF432 KB1340	B307
CNGG4305FS KC5010	B46
CNGG4305FS KCU10	B46
CNGG4305FS KCU25	B46
CNGG4305LF KC5010	B46
CNGG4305LF KCU10	B46

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CNGG430FS KC5010	B46
CNGG430FS KCU10	B46
CNGG430LF KC5010	B46
CNGG430LF KCU10	B46
CNGG431FS KC5010	B46
CNGG431FS KC5025	B46
CNGG431FS KCU10	B46
CNGG431FS KCU25	B46
CNGG431LF KC5010	B46
CNGG431LF KCU10	B46
CNGG432FS KC5010	B46
CNGG432FS KC5025	B46
CNGG432FS KCU10	B46
CNGG432FS KCU25	B46
CNGG432LF KC5010	B46
CNGG432LF KCU10	B46
CNGG433LF KC5010	B46
CNGG433LF KCU10	B46
CNGM431S0525MTCB1 KBH20	B330
CNGM432S0525MTCB1 KBH20	B330
CNGM433S0525MTCB1 KBH20	B330
CNGN332T0820 KBK45	B304
CNGN333S0820 KBK45	B304
CNGN432T0820 KBK45	B304
CNGN433S0820 KBK45	B304
CNGN434S0820 KBK45	B304
CNGP430 KC5010	B46
CNGP430 KC5410	B46
CNGP430 KCU10	B46
CNGP4305 KC5010	B46
CNGP4305 KC5410	B46
CNGP4305 KCU10	B46
CNGP431 K313	B46
CNGP431 K68	B46
CNGP431 KC5010	B46
CNGP431 KC5410	B46
CNGP431 KCU10	B46
CNGP432 K313	B46
CNGP432 K68	B46
CNGP432 KC5010	B46
CNGP432 KC5410	B46
CNGP432 KCU10	B46
CNGP432K KC5010	B47
CNGP433 K313	B46
CNGP433 KC5010	B46
CNGP433 KC5410	B46
CNGP433 KCU10	B46
CNGP434 KC5010	B46
CNGP543K K313	B47
CNGX432T0820 KBK45	B307
CNGX433S0415 KB1340	B307
CNGX433S0415FW KB1340	B307
CNGX433S0820 KBK45	B307
CNGX434S0820 KB1340	B307
CNGX434S0820 KBK45	B307
CNGX452T0420 KYS25	B350
CNGX452T0420 KYS30	B350
CNGX452T0420FW KY3500	B316
CNGX452T0820 KY1615	B331
CNGX453T0420 KYS25	B350
CNGX453T0420 KYS30	B350
CNGX453T0420FW KY3500	B316
CNGX453T0820 KY1615	B331
CNGX454E KYS30	B350
CNGX454T0420FW KY3500	B316
CNM432S0820 KB1340	B304
CNM433S0820 KB1340	B304
CNMA431 KCK05B	B47
CNMA431 KCK15	B47
CNMA431 KCK15B	B47
CNMA431 KCK20	B47
CNMA431 KCK20B	B47
CNMA432 K68	B47
CNMA432 KCK05	B47
CNMA432 KCK15	B47
CNMA432 KCK15B	B47
CNMA432 KCK20	B47
CNMA432 KCK20B	B47
CNMA432S0820 KB1340	B309
CNMA433 KCK05	B47
CNMA433 KCK15	B47
CNMA433 KCK15B	B47
CNMA433 KCK20	B47
CNMA433 KCK20B	B47
CNMA433S0820 KB1340	B309
CNMA434 KCK05	B47
CNMA434 KCK05B	B47
CNMA434 KCK15	B47
CNMA434 KCK15B	B47
CNMA434 KCK20	B47
CNMA542 KCK15	B47
CNMA542 KCK20	B47
CNMA543 KCK15	B47
CNMA543 KCK15B	B47
CNMA543 KCK20	B47
CNMA543 KCK20B	B47
CNMA544 KCK15	B47
CNMA544 KCK20B	B47
CNMA643 KCK05	B47
CNMA643 KCK15	B47
CNMA643 KCK15B	B47
CNMA643 KCK20	B47
CNMA644 KCK15B	B47
CNMA644 KCK20	B47
CNMA644 KCK20B	B47
CNMG321FF KC5010	B48
CNMG321FN KCP10	B49
CNMG321FN KT315	B49
CNMG321MN KCP10	B50
CNMG321MN KCP25B	B50
CNMG321MN KCP30	B50
CNMG322FF KC5010	B48
CNMG322FN KCK05	B49
CNMG322FN KCP10	B49
CNMG322FN KCP10B	B49
CNMG322MN KCP10	B50
CNMG322MN KCP10B	B50
CNMG322MN KCP25	B50
CNMG322MN KCP25B	B50
CNMG322MN KCP30	B50
CNMG322MP KC5010	B51
CNMG322MP KCM15B	B51
CNMG322MP KCM25	B51
CNMG322MP KCU10	B51
CNMG323MN KCP25	B50
CNMG4305FN KC5010	B49
CNMG4305FN KCU10	B49
CNMG4305FN KT315	B49
CNMG4305LF KCP25B	B50
CNMG4305MS KC5010	B52
CNMG4305MS KC5025	B52
CNMG4305MS KCU10	B52
CNMG4305MS KCU25	B52
CNMG430MS KC5010	B52
CNMG430MS KC5025	B52
CNMG430MS KCU10	B52
CNMG430MS KCU25	B52
CNMG431 K68	B47
CNMG431FF KC5010	B48
CNMG431FF KCM15B	B48
CNMG431FF KCP05	B48
CNMG431FF KCP10	B48
CNMG431FF KCP10B	B48
CNMG431FF KCU10	B48
CNMG431FF KT315	B48
CNMG431FN KCK05	B49
CNMG431FN KCK15B	B49
CNMG431FN KCP05	B49
CNMG431FN KCP10	B49
CNMG431FN KCP10B	B49
CNMG431FN KCP25	B49
CNMG431FN KCP25B	B49
CNMG431FN KT315	B49
CNMG431FP KC5010	B49
CNMG431FP KCM15	B49
CNMG431FP KCP10	B49
CNMG431FP KCP25B	B49
CNMG431FP KCU10	B49
CNMG431FP KT315	B49
CNMG431FW KC5010	B49
CNMG431FW KCP05	B49
CNMG431FW KCP10	B49
CNMG431FW KCP10B	B49
CNMG431FW KCU10	B49
CNMG431FW KT315	B49
CNMG431LF KCP25B	B50
CNMG431MN KCP10	B50
CNMG431MN KCP10B	B50
CNMG431MN KCP25	B50
CNMG431MN KCP25B	B50
CNMG431MN KCP30	B50
CNMG431MN KCP40B	B50
CNMG431MP KC5010	B51
CNMG431MP KCM15	B51
CNMG431MP KCM15B	B51
CNMG431MP KCM25	B51
CNMG431MP KCM25B	B51
CNMG431MP KCM35	B51
CNMG431MP KCM35B	B51
CNMG431MP KCU10	B51
CNMG431MR KCM15B	B51
CNMG431MS K313	B52
CNMG431MS KC5010	B52
CNMG431MS KC5025	B52
CNMG431MS KCU10	B52
CNMG431MS KCU25	B52
CNMG431P KC5010	B52
CNMG431P KCU10	B52
CNMG431RP KC5010	B53
CNMG431RP KC5025	B53
CNMG431RP KCM25	B53
CNMG431RP KCM25B	B53
CNMG431RP KCP10	B53
CNMG431RP KCP25	B53
CNMG431RP KCP25B	B53
CNMG431RP KCU10	B53
CNMG431RP KCU25	B53
CNMG431UN KCK05	B54
CNMG431UN KCK15	B54
CNMG431UN KCK15B	B54
CNMG431UN KCK20	B54
CNMG431UN KCK20B	B54
CNMG431UP KC5010	B54
CNMG431UP KCM15B	B54
CNMG431UP KCM25	B54
CNMG431UP KCM25B	B54
CNMG432 K313	B47
CNMG432 K68	B47
CNMG432 KC5010	B47
CNMG43233 KT315	B48
CNMG432CT KC5010	B48
CNMG432CT KCP05	B48
CNMG432CT KCP10B	B48
CNMG432CT KCP25	B48
CNMG432CT KCP25B	B48
CNMG432CT KCU10	B48
CNMG432FF KC5010	B48
CNMG432FF KCM15B	B48
CNMG432FF KCP05	B48
CNMG432FF KCP10	B48
CNMG432FF KCP10B	B48
CNMG432FF KCU10	B48
CNMG432FF KT315	B48
CNMG432FN KCK05	B49
CNMG432FN KCK15B	B49
CNMG432FN KCP05	B49
CNMG432FN KCP10	B49
CNMG432FN KCP10B	B49
CNMG432FN KCP25	B49
CNMG432FN KCP25B	B49
CNMG432FN KT315	B49
CNMG432FP KC5010	B49
CNMG432FP KCM15	B49
CNMG432FP KCM15B	B49
CNMG432FP KCP10B	B49
CNMG432FP KCP25	B49
CNMG432FP KCP25B	B49
CNMG432FP KCU10	B49
CNMG432FP KT315	B49
CNMG432FW KC5010	B49
CNMG432FW KCK15B	B49
CNMG432FW KCM15B	B49
CNMG432FW KCP05	B49
CNMG432FW KCP05B	B49
CNMG432FW KCP10	B49
CNMG432FW KCP10B	B49
CNMG432FW KCU10	B49
CNMG432FW KT315	B49
CNMG432LF KCP25B	B50
CNMG432MG KC5010	B57
CNMG432MG KCP10B	B57
CNMG432MG KCP25B	B57
CNMG432MN KCP05	B50
CNMG432MN KCP05B	B50
CNMG432MN KCP10	B50
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CNMG432MR KCP40	B51
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CNMG432MW KCP25B	B52
CNMG432P K313	B52
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CNMG432P KCP30B	B52
CNMG432P KCU10	B52
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CNMG432RP KCK15B	B53
CNMG432RP KCK20	B53
CNMG432RP KCK20B	B53
CNMG432RP KCM15	B53
CNMG432RP KCM15B	B53
CNMG432RP KCM25	B53
CNMG432RP KCM25B	B53
CNMG432RP KCM35	B53
CNMG432RP KCM35B	B53

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CNMG432RP KCP05	B53
CNMG432RP KCP05B	B53
CNMG432RP KCP10	B53
CNMG432RP KCP10B	B53
CNMG432RP KCP25	B53
CNMG432RP KCP25B	B53
CNMG432RP KCP30	B53
CNMG432RP KCP30B	B53
CNMG432RP KCP40	B53
CNMG432RP KCPK05	B53
CNMG432RP KCU10	B53
CNMG432RP KCU25	B53
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CNMG432UN KCK15	B54
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CNMG432UP KCM15B	B54
CNMG432UP KCM25	B54
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CNMG433CT KCP25	B48
CNMG433CT KCP25B	B48
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CNMG433FW KCP10B	B49
CNMG433FW KCU10	B49
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CNMG434MG KCP10B	B57
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CNMG642MS KCU25	B52
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CNMG643 KCP25	B47
CNMG643 KCU10	B47
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CNMG643MR KCP25B	B51
CNMG643MS KC5010	B52
CNMG643MS KC5025	B52
CNMG643MS KCU10	B52
CNMG643MS KCU25	B52
CNMG643P KCU10	B52
CNMG643RN KCP10	B53
CNMG643RN KCP10B	B53

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CNMG643RN KCP25	B53
CNMG643RN KCP25B	B53
CNMG643RN KCP30	B53
CNMG643RN KCP30B	B53
CNMG643RN KCP40	B53
CNMG643RN KCP40B	B53
CNMG643RP KC5010	B53
CNMG643RP KC5025	B53
CNMG643RP KCK15	B53
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CNMG643RP KCM25B	B53
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CNMG643RP KCU25	B53
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CNMG643UN KCK15B	B54
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CNMG644MN KCP10B	B50
CNMG644MN KCP25	B50
CNMG644MN KCP25B	B50
CNMG644MN KCP30	B50
CNMG644MP KC5010	B51
CNMG644MP KCM25	B51
CNMG644MP KCU10	B51
CNMG644MR KCP25B	B51
CNMG644MS KCU10	B52
CNMG644MS KCU25	B52
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CNMG644RN KCP25	B53
CNMG644RN KCP25B	B53
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CNMG644RN KCP40B	B53
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CNMG644RP KCM35	B53
CNMG644RP KCP10	B53
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CNMG644UN KCK15	B54
CNMG644UN KCK20	B54
CNMG644UP KCM25	B54
CNMG646MN KCP25B	B50
CNMG646RN KCP25	B53
CNMG646RN KCP25B	B53
CNMG646RN KCP30	B53
CNMG866 KCP25	B47
CNMM190740RRP KCP10B	E59
CNMM432MR KCP25B	B54
CNMM432MR KCP30B	B54
CNMM432RM KCP10	B55
CNMM432RM KCP25	B55
CNMM432RM KCP25B	B55
CNMM432RM KCP30	B55
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CNMM432RP KCM25B	B56
CNMM432RP KCP05	B56
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CNMM432RP KCP25B	B56
CNMM432RP KCP40	B56
CNMM433RM KCP10	B55
CNMM433RM KCP10B	B55
CNMM433RM KCP25	B55
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CNMM433RP KCP30	B56
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CNMM434RP KCP25B	B56
CNMM542RP KCP25B	B56
CNMM543MR KCP25B	B54
CNMM543MR KCP30B	B54
CNMM543RM KCP10	B55
CNMM543RM KCP10B	B55
CNMM543RM KCP25	B55
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CNMM543RP KCP10	B56
CNMM543RP KCP10B	B56
CNMM543RP KCP25	B56
CNMM543RP KCP40	B56
CNMM544MR KCP25B	B54
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CNMM544RM KCP25	B55
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CNMP431 K313	B56
CNMP431 K68	B56
CNMP431 KC5410	B56
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CNMP431K KCP25	B57
CNMP431K KCP25B	B57
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CNMP432 KC5410	B56
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CNMP432K KCP10	B57
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CNMP432K KCP25	B57
CNMP432K KCP25B	B57
CNMP433 K68	B56
CNMP542 KCP25B	B56
CNMP643 K313	B56
CNMS431FST KD1400	B363
CNMS432 K68	B57
CNMS432 KC5410	B57
CNMS432E KD1405	B363
CNMS432FST KD1400	B363
CNMS432FST KD1425	B363
CNMS542 KC5410	B57
CNMS642 K68	B57
CNMS642 KC5410	B57
CNMS643 K68	B57
CNMU433RN KCP10B	B53
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CNMU443MN KCP10	B51
CNMU444MN KCP25B	B51
CNMX452T0820 KY3500	B316
CNMX453T0820 KY3500	B316
CNMX454T0820 KY3500	B316
COOL-HOSE-200	C83
COOL-HOSE-200-FLEX	C83
COOL-HOSE-300	C83
COOL-HOSE-300-FLEX	C83
CPG421 K313	B164
CPG421 K68	B164
CPG421F KD1425	B363
CPG422 K313	B164
CPG422 K68	B164
CPG422F KD1425	B363
CPGM21505 K68	B205
CPGM2151 K313	B205
CPGM2151 K68	B205
CPGM2151 KC5010	B205
CPGM3250 KC5010	B205
CPGM3250 KC5025	B205
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CPGM3250 KT315	B205
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CPGM3251 K68	B205
CPGM3251 KC5010	B205
CPGM3251 KC5025	B205
CPGM3251 KCM15B	B205
CPGM3251 KCP10B	B205
CPGM3251 KCP25B	B205
CPGM3251 KCU10	B205
CPGM3251 KCU25	B205
CPGM3251 KT315	B205
CPGM3252 K313	B205
CPGM3252 K68	B205
CPGM3252 KC5010	B205
CPGM3252 KC5025	B205
CPGM3252 KCP10B	B205
CPGM3252 KCP25B	B205
CPGM3252 KCU10	B205
CPGM3252 KCU25	B205
CPGT21505HP KC5010	B205
CPGT21505HP KC5025	B205
CPGT21505HP KC5410	B205
CPGT21505HP KCU10	B205
CPGT21505HP KCU25	B205
CPGT21505LF KC5010	B206
CPGT21505LF KC5025	B206
CPGT21505LF KCU10	B206
CPGT2150LF KC5010	B206
CPGT2150LF KC5025	B206
CPGT2150LF KCU10	B206
CPGT2150LF KC5410	B206
CPGT2150LF KCU10	B206
CPGT2151HP KC5010	B205
CPGT2151HP KC5025	B205
CPGT2151HP KC5410	B205
CPGT2151HP KCU10	B205
CPGT2151HP KCU25	B205
CPGT2151LF KC5010	B206
CPGT2151LF KC5025	B206
CPGT2151LF KC5410	B206
CPGT2151LF KCU10	B206
CPGT2152HP KC5010	B205
CPGT2152HP KC5410	B205
CPGT2152HP KCU25	B205
CPGT2152LF KC5010	B206
CPGT2152LF KC5025	B206
CPGT2152LF KCU10	B206
CPGT32505HP K313	B205
CPGT32505HP KC5010	B205
CPGT32505HP KC5025	B205
CPGT32505HP KC5410	B205
CPGT32505HP KCU10	B205
CPGT32505LF KC5010	B206
CPGT32505LF KC5025	B206
CPGT32505LF KCU10	B206
CPGT3251HP K313	B205
CPGT3251HP KC5010	B205
CPGT3251HP KC5025	B205
CPGT3251HP KC5410	B205
CPGT3251HP KCU10	B205
CPGT3251HP KCU25	B205
CPGT3251LF KC5010	B206
CPGT3251LF KC5025	B206
CPGT3251LF KC5410	B206
CPGT3251LF KCU10	B206
CPGT3252HP KC5010	B205
CPGT3252HP KC5410	B205
CPGT3252HP KCU10	B205
CPGT3252HP KCU25	B205
CPGT3252LF KC5010	B206
CPGT3252LF KC5025	B206
CPGT3252LF KCU10	B206
CPGW21505FST KD1400	B364
CPGW21505FST KD1425	B364
CPGW2151E KD1405	B363
CPGW2151FST KD1400	B364
CPGW2151FST KD1425	B364
CPGW2151FWST KD1400	B364
CPGW2151FWST KD1425	B364
CPGW2152FST KD1400	B364
CPGW2152FST KD1425	B364
CPGW3251E KD1405	B363
CPGW3251FST KD1400	B364
CPGW3251FST KD1425	B364
CPGW3251S0415MT KB5630	B331
CPGW3252FST KD1400	B364
CPGW3252FST KD1425	B364
CPGW3252FWST KD1400	B364
CPGW3252FWST KD1425	B364
CPGW3252S0415MT KB5630	B331
CPGW432FWST KD1400	B364
CPGW432FWST KD1425	B364
CPMT181505FP KCU10	B206
CPMT181505FP KCU25	B206
CPMT181505LF KC5010	B207
CPMT18151FP KCP25	B206
CPMT18151FP KCU10	B206
CPMT18151FP KCU25	B206
CPMT18151LF KC5010	B207
CPMT18151LF KC5025	B207
CPMT18151LF KT315	B207
CPMT21505FP KCM25	B206
CPMT21505FP KCP10	B206
CPMT21505FP KCP25	B206
CPMT21505FP KCU10	B206
CPMT21505FP KCU25	B206
CPMT21505FP KTP10	B206
CPMT21505FW KC5010	B206
CPMT21505FW KT315	B206
CPMT21505LF KC5010	B207
CPMT21505LF KC5025	B207
CPMT2151FP KCK20	B206

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CPMT2151FP KCM25	B206
CPMT2151FP KCP10	B206
CPMT2151FP KCP25	B206
CPMT2151FP KCP25B	B206
CPMT2151FP KCU10	B206
CPMT2151FP KCU25	B206
CPMT2151FP KTP10	B206
CPMT2151FW KC5010	B206
CPMT2151FW KCK20	B206
CPMT2151FW KCU10	B206
CPMT2151FW KT315	B206
CPMT2151LF K313	B207
CPMT2151LF K68	B207
CPMT2151LF KC5010	B207
CPMT2151LF KC5025	B207
CPMT2151LF KCK05	B207
CPMT2151LF KCK15	B207
CPMT2151LF KCK15B	B207
CPMT2151LF KCK20	B207
CPMT2151LF KCM15	B207
CPMT2151LF KCM25	B207
CPMT2151LF KCP10	B207
CPMT2151LF KCP10B	B207
CPMT2151LF KCP25	B207
CPMT2151LF KCP25B	B207
CPMT2151LF KT315	B207
CPMT2151UF KC5010	B208
CPMT2151UF KCP10B	B208
CPMT2151UF KCP25	B208
CPMT2151UF KCP25B	B208
CPMT2152FP KCP25	B206
CPMT2152FP KTP10	B206
CPMT2152FW KC5010	B206
CPMT2152FW KCK20	B206
CPMT2152FW KCP25	B206
CPMT2152FW KCU10	B206
CPMT2152FW KT315	B206
CPMT2152LF K313	B207
CPMT2152LF KC5010	B207
CPMT2152LF KC5025	B207
CPMT2152LF KCK05	B207
CPMT2152LF KCK15	B207
CPMT2152LF KCM25	B207
CPMT2152LF KCP10	B207
CPMT2152LF KCP25	B207
CPMT2152LF KCP25B	B207
CPMT2152LF KCP30	B207
CPMT2152LF KT315	B207
CPMT2152MF KCK15	B207
CPMT2152MF KCK20	B207
CPMT2152MF KCK20B	B207
CPMT2152MF KCM15B	B207
CPMT2152MF KCM25B	B207
CPMT2152MF KCP10B	B207
CPMT2152MF KCP25B	B207
CPMT2152MP KCP25B	B207
CPMT2152MP KCU10	B207
CPMT32505FP KCM25	B206
CPMT32505FP KCU10	B206
CPMT32505LF KC5010	B207
CPMT32505LF KT315	B207
CPMT3251FP KCM15	B206
CPMT3251FP KCM25	B206
CPMT3251FP KCP10	B206
CPMT3251FP KCP25B	B206
CPMT3251FP KCU10	B206
CPMT3251FP KCU25	B206
CPMT3251FW KC5010	B206
CPMT3251FW KCK20B	B206
CPMT3251FW KCP25	B206
CPMT3251FW KT315	B206
CPMT3251LF KC5010	B207
CPMT3251LF KC5025	B207
CPMT3251LF KCK05	B207
CPMT3251LF KCK15B	B207
CPMT3251LF KCK20	B207
CPMT3251LF KCK20B	B207
CPMT3251LF KCM15	B207
CPMT3251LF KCM15B	B207
CPMT3251LF KCM25	B207
CPMT3251LF KCM25B	B207
CPMT3251LF KCP05	B207
CPMT3251LF KCP10	B207
CPMT3251LF KCP10B	B207
CPMT3251LF KCP25	B207
CPMT3251LF KCP25B	B207
CPMT3251LF KCP30	B207
CPMT3251LF KT315	B207
CPMT3251MW KCU10	B208
CPMT3251UF KC5010	B208
CPMT3251UF KCP25	B208
CPMT3251UF KCP25B	B208
CPMT3252FP KCM25	B206
CPMT3252FP KCP10	B206
CPMT3252FP KCP25B	B206
CPMT3252FP KCU10	B206
CPMT3252FP KCU25	B206
CPMT3252FP KTP10	B206
CPMT3252FW KC5010	B206
CPMT3252FW KCK20	B206
CPMT3252FW KCP25	B206
CPMT3252FW KCU10	B206
CPMT3252FW KT315	B206
CPMT3252LF K68	B207
CPMT3252LF KC5010	B207
CPMT3252LF KC5025	B207
CPMT3252LF KCK05	B207
CPMT3252LF KCK15	B207
CPMT3252LF KCK15B	B207
CPMT3252LF KCK20	B207
CPMT3252LF KCK20B	B207
CPMT3252LF KCM15	B207
CPMT3252LF KCM25	B207
CPMT3252LF KCP10	B207
CPMT3252LF KCP10B	B207
CPMT3252LF KCP25	B207
CPMT3252LF KCP25B	B207
CPMT3252LF KCP30	B207
CPMT3252LF KT315	B207
CPMT3252MF KCK15	B207
CPMT3252MF KCK15B	B207
CPMT3252MF KCK20	B207
CPMT3252MF KCK20B	B207
CPMT3252MF KCM15	B207
CPMT3252MF KCM15B	B207
CPMT3252MF KCM25	B207
CPMT3252MF KCM25B	B207
CPMT3252MF KCM35	B207
CPMT3252MF KCP10	B207
CPMT3252MF KCP10B	B207
CPMT3252MF KCP25	B207
CPMT3252MF KCP25B	B207
CPMT3252MP KCK20	B207
CPMT3252MP KCM25	B207
CPMT3252MP KCM25B	B207
CPMT3252MP KCP10	B207
CPMT3252MP KCP25	B207
CPMT3252MP KCP25B	B207
CPMT3252MP KCU10	B207
CPMT3252MW KC5010	B208
CPMT3252MW KCK20	B208
CPMT3252MW KCK20B	B208
CPMT3252MW KCP25	B208
CPMT3253MF KCM25B	B207
CPMT3253MF KCP25	B207
CRDPN162DV	B168, B386
CRDPN163DV	B168, B386
CRDPN164DV	B168, B386
CRDPN203DV	B168, B386
CRDPN204DV	B168, B386
CRGNL123	B373
CRGNL163	B373
CRGNL164	B373
CRGNLP204D	B374
CRGNR123	B373
CRGNR163	B373
CRGNR164	B373
CRGNR244F	B373
CRGNRP163D	B374
CRGNRP164D	B374
CRGNRP204D	B374
CRGPL162DV	B169, B387
CRGPL203DV	B169, B387
CRGPR162DV	B169, B387
CRGPR204DV	B169, B387
CS412	B168–169, B386–387
CSDNN124	B374
CSDNN164	B374
CSDNN164DMX5	B383
CSDPN103	B172, B376
CSDPN124	B172, B376
CSDPN164	B172, B376
CSDPN644	B172, B376
CSDPN856	B172, B376
CSKNL164DMX5	B384
CSKNR164DMX5	B384
CSKNR856	B375
CSKPL164D	B172, B377
CSKPR12CA4	B174, B394
CSKPR164D	B172, B377
CSRPL124B	B173, B377
CSRPL164D	B173, B377
CSRPL856D	B173, B377
CSRPL866E	B173, B377
CSRPR10CA3	B175, B395
CSRPR164D	B173, B377
CSRPR866E	B173, B377
CSSPL10CA3	B176, B396
CSSPL164D	B173, B378
CSSPL854D	B173, B378
CSSPL856D	B173, B378
CSSPR10CA3	B176, B396
CSSPR164D	B173, B378
CSSPR854D	B173, B378
CSWM 035 040	B217, B220, B222–223
CSWM 040 050	B217–223, B245, B276–278
CSWM 060 050	B72–74, B94, B115–119, B140–142, B174–176, B186–187, B198, B217, B220, B236–237, B245, B249–251, B254–255, B276–279, B394–398, C196, D41
CSWM 080 050	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
CSWM 100 080	B74, B115, B119, C196, D41
CT11 WG	B291–292
CT15	B291–292
CTANR123	B375
CTAPL123B	B179, B378
CTAPL854D	B179, B378
CTAPR082B	B179, B378
CTAPR102B	B179, B378
CTAPR123B	B179, B378
CTAPR163D	B179, B378
CTAPR854D	B179, B378
CTBPL123B	B179, B379
CTBPR123B	B179, B379
CTBPR163D	B179, B379
CTCPL163C	B180, B379
CTCPL164D	B180, B379
CTCPL204D	B180, B379
CTCPL244D	B180, B379
CTCPN124	B180, B380
CTCPN443	B180, B380
CTCPN644	B180, B380
CTCPN664	B180, B380
CTCPR123B	B180, B379
CTCPR163C	B180, B379
CTCPR164C	B180, B379
CTCPR164D	B180, B379
CTCPR204D	B180, B379
CTCPR244D	B180, B379
CTEPL854D	B181, B380
CTEPR123B	B181, B380
CTEPR163D	B181, B380
CTEPR854D	B181, B380
CTFPL10CA2	B186, B397
CTFPL123B	B181, B381
CTFPL163D	B181, B381
CTFPL164D	B181, B381
CTFPL854D	B181, B381
CTFPR082V	B181, B381
CTFPR10CA2	B186, B397
CTFPR123B	B181, B381
CTFPR12CA3	B186, B397
CTFPR163D	B181, B381
CTFPR164C	B181, B381
CTFPR164D	B181, B381
CTFPR204D	B181, B381
CTFPR20CA4	B186, B397
CTFPR854D	B181, B381
CTGNR164	B375
CTGPL102B	B182, B382
CTGPL123B	B182, B382
CTGPL163C	B182, B382
CTGPL163D	B182, B382
CTGPL164D	B182, B382
CTGPL204D	B182, B382
CTGPR082B	B182, B382
CTGPR102B	B182, B382
CTGPR123A	B182, B382
CTGPR123B	B182, B382
CTGPR12CA3	B187, B398
CTGPR163C	B182, B382
CTGPR163D	B182, B382
CTGPR164C	B182, B382
CTGPR164D	B182, B382
CTGPR204D	B182, B382
CV40BDL10162	O53
CV40BDL12162	O53
CV40BDL16200	O53
CV40BDL20200	O53
CV40BDL25225	O53
CV40BDL32250	O53
CV40BKR32157	K91
CV40BKR50236	K91
CV40BSIF80248	K48
CV40FBHM1691	K134
CV40FBHMKIT645	K127, K131
CV50BHTS13M295	J90
CV50BHTS16M295	J90
CV50BHTS22M295	J90
CV50BHTS27M295	J90
CV50BHTS32M314	J90
CV50BHTS40M314	J90
CV50BHTS50M314	J90
CV50BKR32157	K91
CV50BKR50157	K91
CV50BKR63236	K91
CV50BKR80275	K91
CV50BSIF100236	K48
CV50BSIF70236	K48
CV50BT13069	K142
CV50RMHTS13M394	J90
CV50RMHTS16M394	J90
CV50RMHTS22M394	J90
CV50RMHTS27M394	J90
CV50RMHTS32M394	J90
CV50RMHTS40M413	J90
CV50RMHTS50M413	J90
CW16	S30–31
CWLNL164DMX5	B384
CWLNL204DMX5	B384
CWLNR164DMX5	B384
CWLNR204DMX5	B384
CXE0125MTN4-C SP4060	P84
CXE0187MTN4-C SP4060	P84
CXE0250MN4-C SP4060	P84
CXE0375MN4-C SP4060	P84
CXE0500MN4-C SP4060	P84
CXE0750MN4-C SP4060	P84
CXER0125NTN4-C SP4060	P85
CXER0125NTN4-F SP4060	P85
CXER0250NN4-C SP4060	P85
CXER0250NN4-E SP4060	P85
CXER0375NN4-C SP4060	P85
CXER0375NN4-E SP4060	P85
CXER0469NTN4-E SP4060	P85
CXER0500NN4-C SP4060	P85
CXER0500NN4-F SP4060	P85
CXER0500NN4-J SP4060	P85
CXER0500NN4-K SP4060	P85
CXER0500NN4-L SP4060	P85
CXER0625NN4-C SP4060	P85
CXER0625NN4-J SP4060	P85
CXER0750NN4-C SP4060	P85
CXER0750NN4-F SP4060	P85
CXER0750NN4-K SP4060	P85

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
CXER0750NN4-L SP4060	P85
CXER1000NN4-C SP4060	P85
CXER1000NN4-F SP4060	P85
CXER1000NN4-L SP4060	P85
D16TTB16	B409
D20TTB18	B409
D24TTB21	B409
D28TTB25	B409
D28TTB26KM40	B410
D2FIX110403LHP KCU10	E9
D2FIX110403RHP KCP25	E9
D2FIX110403RHP KCU10	E9
D2FIX110404RHP KCU25	E9
D2FIX110405LMN KCP25	E9
D2FIX110405LMN KCP40	E9
D2FIX110405RMN KCP25	E9
D2FIX110405RMN KCP40	E9
D2FIX150503LHP KCU10	E9
D2FIX150503LMS KCU10	E10
D2FIX150503RHP KCP25	E9
D2FIX150503RHP KCU10	E9
D2FIX150503RMN KCP25	E9
D2FIX150503RMS KCU10	E10
D2FIX150504RHP KCU10	E9
D2FIX150504RHP KCU25	E9
D2FIX150504RMN KCP25	E9
D2FIX150505LMN KCP25	E9
D2FIX150505LMS KCU10	E10
D2FIX150505LRN KCP25	E10
D2FIX150505RFN KCP25	E10
D2FIX150505RFN KCU10	E10
D2FIX150505RMN KCP10	E9
D2FIX150505RMN KCP25	E9
D2FIX150505RMN KCP40	E9
D2FIX150505RMS KCU10	E10
D2FIX150505RRN KCP10	E10
D2FIX150505RRN KCP40	E10
D2FIX150508LHP KCU10	E9
D2FIX150508LMN KCP25	E9
D2FIX150508RHP KCU10	E9
D2FIX150508RHP KCU25	E9
D2FIX150508RMN KCP25	E9
D315CFA	S31
D32TTB28	B409
D32TTB29KM40	B410
D355CFA	S31
D4007T S	V97
D4008T S	V97–98, V102–103
D400CFA	S31
D4010T S	V17–19, V103, V111–112, V114
D4012T S	V19
D40TTB35	B409
D40TTB36KM40	B410
D48TTB42	B409
D48TTB45KM63	B410
D4FIX140603RMN KCP10	E11
D4FIX140603RMN KCP25	E11
D4FIX140604RMN KCP40	E11
D4FIX140604RMN KCU25	E11
D4FIX140605RMN KCP10	E11
D4FIX140605RMN KCP25	E11
D4FIX140608LMN KCP25	E11
D4FIX140608RMN KCP10	E11
D4FIX140608RMN KCP25	E11
D4FIX140608RMN KCU10	E11
D4FIX140608RMN KCU25	E11
D500CFA	S31
D5013T S	V111–112, V114
D5420W	B407
D5424W	B407
D5428W	B407
D5432W	B407
D5440W	B407
D6014T S	V112
D6018S S	V112
D64TTB56	B409
D64TTB58KM63	B410
DCGM3251S0525MTCB1 KBH20	B331
DCGT21505HP K313	B224
DCGT21505HP KC5010	B224
DCGT21505HP KC5025	B224
DCGT21505HP KC5410	B224
DCGT21505HP KCU10	B224
DCGT21505HP KCU25	B224
DCGT21505LF KC5010	B224
DCGT21505LF KC5025	B224
DCGT2150LF KC5010	B224
DCGT2150LF KC5025	B224
DCGT2150LF KCU10	B224
DCGT2151HP K313	B224
DCGT2151HP KC5010	B224
DCGT2151HP KC5025	B224
DCGT2151HP KC5410	B224
DCGT2151HP KCU10	B224
DCGT2151HP KCU25	B224
DCGT2152HP KC5010	B224
DCGT2152HP KC5025	B224
DCGT2152HP KC5410	B224
DCGT2152HP KCU10	B224
DCGT215X0LF KC5025	B224
DCGT32505HP K313	B224
DCGT32505HP KC5010	B224
DCGT32505HP KC5025	B224
DCGT32505HP KC5410	B224
DCGT32505HP KCU10	B224
DCGT32505HP KCU25	B224
DCGT3250LF KC5010	B224
DCGT3250LF KC5025	B224
DCGT3250LF KCU10	B224
DCGT3251HP K313	B224
DCGT3251HP KC5010	B224
DCGT3251HP KC5025	B224
DCGT3251HP KC5410	B224
DCGT3251HP KCU10	B224
DCGT3251HP KCU25	B224
DCGT3252HP K313	B224
DCGT3252HP KC5010	B224
DCGT3252HP KC5025	B224
DCGT3252HP KC5410	B224
DCGT3252HP KCU10	B224
DCGT3252HP KCU25	B224
DCGT325X0LF KC5025	B224
DCGT432LF KC5010	B224
DCGT432LF KCU10	B224
DCGW21505S0415C KB5630	B311, B332
DCGW21505S0415MT KBH10	B332
DCGW21505S0525MT KBH20	B332
DCGW2151FST KD1400	B364
DCGW2151FST KD1425	B364
DCGW2151S0415C KB5630	B311, B332
DCGW2151S0415MT KBH10	B332
DCGW2151S0415MT KBH20	B332
DCGW2151S0525MT KBH10	B332
DCGW2151S0525MT KBH20	B332
DCGW32505S0415MT KBH10	B332
DCGW32505S0525MT KBH20	B332
DCGW3251FST KD1400	B364
DCGW3251FST KD1425	B364
DCGW3251S0415MT KB1345	B312
DCGW3251S0415MT KB5630	B312, B332
DCGW3251S0415MT KBH10	B332
DCGW3251S0415MT KBH20	B332
DCGW3251S0525MT KBH10	B332
DCGW3251S0525MT KBH20	B332
DCGW3252S0415FWMT KBH10	B332
DCGW3252S0415FWMT KBH20	B332
DCGW3252S0415MT KB1345	B312
DCGW3252S0415MT KB5630	B312, B332
DCGW3252S0415MT KBH10	B332
DCGW3252S0415MT KBH20	B332
DCGW3252S0525FWMT KBH10	B332
DCGW3252S0525MT KBH10	B332
DCGW3252S0525MT KBH20	B332
DCKNL164DKC3	B58
DCKNL204DKC3	B58
DCKNR124BKC3	B58
DCKNR164CKC3	B58
DCKNR164DKC3	B58
DCKNR204DKC3	B58
DCKNR205DKC4	B58
DCKNR206DKC4	B58
DCLNL123BKC3	B59
DCLNL124BKC3	B59
DCLNL163DKC3	B59
DCLNL164CKC3	B59
DCLNL164DKC3	B59
DCLNL165CKC4	B59
DCLNL165DKC4	B59
DCLNL204DKC3	B59
DCLNL205DKC4	B59
DCLNL206DKC4	B59
DCLNL244DKC3	B59
DCLNL245DKC4	B59
DCLNL246DKC4	B59
DCLNR123BKC3	B59
DCLNR124BKC3	B59
DCLNR163DKC3	B59
DCLNR164CKC3	B59
DCLNR164DKC3	B59
DCLNR165CKC4	B59
DCLNR165DKC4	B59
DCLNR166DKC4	B59
DCLNR204DKC3	B59
DCLNR205DKC4	B59
DCLNR206DKC4	B59
DCLNR244DKC3	B59
DCLNR245DKC4	B59
DCLNR246DKC4	B59
DCMT2150511 KT315	B224
DCMT21505FP KCM25	B225
DCMT21505FP KCP25B	B225
DCMT21505FP KCU10	B225
DCMT21505FP KTP10	B225
DCMT21505LF K313	B225
DCMT21505LF KC5010	B225
DCMT21505LF KC5025	B225
DCMT215111 KT315	B224
DCMT2151FP KCM15	B225
DCMT2151FP KCM25	B225
DCMT2151FP KCM25B	B225
DCMT2151FP KCP10	B225
DCMT2151FP KCP25	B225
DCMT2151FP KCU10	B225
DCMT2151FP KCU25	B225
DCMT2151LF K313	B225
DCMT2151LF KC5010	B225
DCMT2151LF KC5025	B225
DCMT2151LF KCK15B	B225
DCMT2151LF KCK20	B225
DCMT2151LF KCM15	B225
DCMT2151LF KCM15B	B225
DCMT2151LF KCM25	B225
DCMT2151LF KCM25B	B225
DCMT2151LF KCM35	B225
DCMT2151LF KCP10	B225
DCMT2151LF KCP10B	B225
DCMT2151LF KCP25	B225
DCMT2151LF KCP25B	B225
DCMT2151LF KCP30	B225
DCMT2151LF KT315	B225
DCMT2151UF KC5010	B226
DCMT2151UF KCP25	B226
DCMT2152FP KCM25	B225
DCMT2152FP KCM25B	B225
DCMT2152FP KCP05	B225
DCMT2152FP KCP25	B225
DCMT2152FP KCP25B	B225
DCMT2152FP KCU10	B225
DCMT32505FP KCM25	B225
DCMT32505FP KCM25B	B225
DCMT32505FP KCP10B	B225
DCMT32505FP KCP25	B225
DCMT32505FP KCP25B	B225
DCMT32505FP KCU10	B225
DCMT32505FP KCU25	B225
DCMT32505FP KTP10	B225
DCMT32505LF KC5010	B225
DCMT32505LF KC5025	B225
DCMT32505LF KT315	B225
DCMT32505UF KC5010	B226
DCMT32505UF KCP05	B226
DCMT325111 KT315	B224
DCMT3251FP KCM15	B225
DCMT3251FP KCM25	B225
DCMT3251FP KCM25B	B225
DCMT3251FP KCP05	B225
DCMT3251FP KCP10	B225
DCMT3251FP KCP10B	B225
DCMT3251FP KCP25	B225
DCMT3251FP KCP25B	B225
DCMT3251FP KCU10	B225
DCMT3251FP KCU25	B225
DCMT3251FP KTP10	B225
DCMT3251FW KC5010	B225
DCMT3251FW KCK20	B225
DCMT3251FW KCP25	B225
DCMT3251FW KCU10	B225
DCMT3251LF K313	B225
DCMT3251LF KC5010	B225
DCMT3251LF KC5025	B225
DCMT3251LF KCK05	B225
DCMT3251LF KCK15	B225
DCMT3251LF KCK20	B225
DCMT3251LF KCK20B	B225
DCMT3251LF KCM15	B225
DCMT3251LF KCM15B	B225
DCMT3251LF KCM25	B225
DCMT3251LF KCM25B	B225
DCMT3251LF KCP05	B225
DCMT3251LF KCP10	B225
DCMT3251LF KCP10B	B225
DCMT3251LF KCP25	B225
DCMT3251LF KCP25B	B225
DCMT3251LF KCP30	B225
DCMT3251LF KT315	B225
DCMT3251MF KCK15	B226
DCMT3251MF KCK20	B226
DCMT3251MF KCM15	B226
DCMT3251MF KCM25	B226
DCMT3251MF KCM25B	B226
DCMT3251MF KCP10	B226
DCMT3251MF KCP10B	B226
DCMT3251MF KCP25	B226
DCMT3251MF KCP25B	B226
DCMT3251MF KCP30	B226
DCMT3251MP KCP10	B226
DCMT3251MP KCP25	B226
DCMT3251MP KCU10	B226
DCMT3251MW KCU10	B226
DCMT3251UF KC5010	B226
DCMT3251UF KCP05	B226
DCMT3251UF KCP10B	B226
DCMT3251UF KCP25B	B226
DCMT325211 KT315	B224
DCMT3252FP KCK20B	B225
DCMT3252FP KCM15	B225
DCMT3252FP KCM25	B225
DCMT3252FP KCM25B	B225
DCMT3252FP KCP05	B225
DCMT3252FP KCP10	B225
DCMT3252FP KCP10B	B225
DCMT3252FP KCP25	B225
DCMT3252FP KCU10	B225
DCMT3252FP KCU25	B225
DCMT3252FP KTP10	B225
DCMT3252FW KCP25	B225
DCMT3252FW KCU10	B225
DCMT3252FW KT315	B225
DCMT3252LF K313	B225
DCMT3252LF KC5010	B225
DCMT3252LF KC5025	B225
DCMT3252LF KCK05	B225
DCMT3252LF KCK15	B225
DCMT3252LF KCK15B	B225
DCMT3252LF KCK20	B225
DCMT3252LF KCK20B	B225
DCMT3252LF KCM15	B225
DCMT3252LF KCM15B	B225
DCMT3252LF KCM25	B225
DCMT3252LF KCM25B	B225
DCMT3252LF KCP10	B225
DCMT3252LF KCP10B	B225
DCMT3252LF KCP25	B225
DCMT3252LF KCP25B	B225
DCMT3252LF KCU10	B225
DCMT3252LF KT315	B225
DCMT3252MF KCK15	B226
DCMT3252MF KCK20	B226
DCMT3252MF KCM15	B226
DCMT3252MF KCM15B	B226

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DCMT3252MF KCM25	B226
DCMT3252MF KCM35	B226
DCMT3252MF KCP10	B226
DCMT3252MF KCP10B	B226
DCMT3252MF KCP25	B226
DCMT3252MF KCP25B	B226
DCMT3252MF KCP30	B226
DCMT3252MP KCK20	B226
DCMT3252MP KCK20B	B226
DCMT3252MP KCM15	B226
DCMT3252MP KCM25	B226
DCMT3252MP KCM25B	B226
DCMT3252MP KCP10	B226
DCMT3252MP KCP25	B226
DCMT3252MP KCU10	B226
DCMT3252MW KCP25	B226
DCMT3252MW KCU10	B226
DCMT3252UF KC5010	B226
DCMT3252UF KCP05	B226
DCMT3252UF KCP10	B226
DCMT3252UF KCP10B	B226
DCMT3252UF KCP25	B226
DCMT3253FP KCP10	B225
DCMT3253LF KC5010	B225
DCMT3253LF KCP10	B225
DCMT3253LF KCP10B	B225
DCMT3253LF KCP25	B225
DCMT3253MF KCK15	B226
DCMT3253MF KCK20	B226
DCMT3253MF KCK20B	B226
DCMT3253MF KCP10	B226
DCMT3253MF KCP10B	B226
DCMT3253MF KCP25B	B226
DCMT3253MP KCP25	B226
DCMT3253MP KCU10	B226
DCMT431FP KCM25	B225
DCMT431FP KCP10	B225
DCMT431LF KC5010	B225
DCMT431LF KC5025	B225
DCMT431LF KCP10	B225
DCMT431LF KCP25B	B225
DCMT432FP KCM25	B225
DCMT432FP KCP05	B225
DCMT432FP KCP25	B225
DCMT432FP KCU10	B225
DCMT432LF KC5010	B225
DCMT432LF KC5025	B225
DCMT432LF KCK20	B225
DCMT432LF KCP10	B225
DCMT432LF KCP10B	B225
DCMT432LF KCP25	B225
DCMT432LF KCP25B	B225
DCRNL164DKC3	B60
DCRNL204DKC3	B60
DCRNR124BKC3	B60
DCRNR164DKC3	B60
DCRNR204DKC3	B60
DCRNR206DKC4	B60
DCRNR245DKC4	B60
DDJNL123BKC3	B87
DDJNL163CKC3	B87
DDJNL163DKC3	B87
DDJNL164CKC3	B87
DDJNL164DKC3	B87
DDJNL165DKC4	B87
DDJNL204DKC3	B87
DDJNL205DKC4	B87
DDJNR123BKC3	B87
DDJNR163CKC3	B87
DDJNR163DKC3	B87
DDJNR164CKC3	B87
DDJNR164DKC3	B87
DDJNR165DKC4	B87
DDJNR203DKC3	B87
DDJNR204DKC3	B87
DDJNR245DKC4	B87
DDPNN164DKC3	B88
DDQNL164CKC3	B88
DDQNL164DKC3	B88
DDQNL204DKC3	B88
DDQNR164CKC3	B88
DDQNR164DKC3	B88
DDQNR204DKC3	B88
DFC040310D28DS KCU40	H114
DFC040310D28HP KCU25	H114
DFC040310D28HP KCU40	H114
DFC040310D28MD KC7140	H114
DFC05T312D32DS KCU40	H114
DFC05T312D32HP KCU25	H114
DFC05T312D32HP KCU40	H114
DFC05T312D32MD KC7140	H114
DFC06T312D36DS KCU40	H114
DFC06T312D36HP KCU25	H114
DFC06T312D36HP KCU40	H114
DFC06T312D36MD KC7140	H114
DFC070416D45DS KCU40	H114
DFC070416D45HP KCU25	H114
DFC070416D45HP KCU40	H114
DFC070416D45MD KC7140	H114
DFC090520D56DS KCU40	H114
DFC090520D56HP KCU25	H114
DFC090520D56HP KCU40	H114
DFC090520D56MD KC7140	H114
DFR020204GD KC7140	J97
DFR020204GD KCPK10	J97
DFR020204GD KCU25	J97
DFR020204GD KCU40	J97
DFR020204LD KC7140	J97
DFR020204LD KCPK10	J97
DFR020204LD KCU25	J97
DFR020204LD KCU40	J97
DFR020204MD KC7140	J97
DFR020204MD KCU25	J97
DFR020204MD KCU40	J97
DFR030204GD KC7140	J97
DFR030204GD KCPK10	J97
DFR030204GD KCU25	J97
DFR030204GD KCU40	J97
DFR030204LD KC7140	J97
DFR030204LD KCPK10	J97
DFR030204LD KCU25	J97
DFR030204LD KCU40	J97
DFR030204MD KC7140	J97
DFR030204MD KCU25	J97
DFR030204MD KCU40	J97
DFR040304D28GD KCU25	H113
DFR040304D28GD KCU40	H113
DFR040304D28LD KC7225	H113
DFR040304D28MD KC7140	H113, J97
DFR040304GD KC7140	J97
DFR040304GD KCPK10	J97
DFR040304GD KCU25	J97
DFR040304GD KCU40	J97
DFR040304LD KC7140	J97
DFR040304LD KCPK10	J97
DFR040304LD KCU25	J97
DFR040304LD KCU40	J97
DFR040304MD KC7140	J97
DFR040304MD KCU25	J97
DFR040304MD KCU40	J97
DFR040304ST KD1425	J98
DFR0500R2SSF075	J13
DFR0500R3SSF075	J14
DFR0500R4SSF075	J15
DFR0531R3SSF075	J14
DFR0531R4SSF075	J15
DFR0563R2SSF075	J13
DFR0563R3SSF075	J14
DFR0563R4SSF075	J15
DFR0594R3SSF075	J14
DFR0594R4SSF075	J15
DFR0625R2SSF075	J13
DFR0625R3SSF075	J14
DFR0625R3SSF100	J14
DFR0625R4SSF075	J15
DFR0625R4SSF100	J15
DFR0656R3SSF075	J14
DFR0656R3SSF100	J14
DFR0656R4SSF100	J15
DFR0688R2SSF075	J13
DFR0688R3SSF075	J14
DFR0688R3SSF100	J14
DFR0688R4SSF100	J15
DFR0703R3SSF075	J14
DFR0703R3SSF100	J14
DFR0703R4SSF100	J15
DFR0734R3SSF075	J14
DFR0734R3SSF100	J14
DFR0734R4SSF100	J15
DFR0750R2SSF100	J13
DFR0750R3SSF075	J14
DFR0750R3SSF100	J14
DFR0750R4SSF100	J15
DFR0781R3SSF075	J14
DFR0781R3SSF100	J14
DFR0781R4SSF100	J15
DFR0813R2SSF100	J13
DFR0813R3SSF075	J14
DFR0813R3SSF100	J14
DFR0813R4SSF100	J15
DFR0844R3SSF075	J14
DFR0844R3SSF100	J14
DFR0844R4SSF100	J15
DFR0875R2SSF100	J13
DFR0875R3SSF075	J14
DFR0875R3SSF100	J14
DFR0875R4SSF100	J15
DFR0906R3SSF100	J14
DFR0906R4SSF100	J15
DFR0938R2SSF100	J13
DFR0938R3SSF100	J14
DFR0938R4SSF100	J15
DFR0969R3SSF100	J14
DFR0969R4SSF100	J15
DFR0984R3SSF100	J14
DFR0984R4SSF100	J15
DFR1000R2SSF100	J13
DFR1000R3SSF100	J14
DFR1000R3SSF125	J14
DFR1000R4SSF100	J15
DFR1000R4SSF125	J15
DFR125R2WD20M	J10
DFR125R3WD20M	J11
DFR125R4WD20M	J12
DFR127R2WD20M	J10
DFR127R3WD20M	J11
DFR127R4WD20M	J12
DFR130R2WD20M	J10
DFR130R3WD20M	J11
DFR130R4WD20M	J12
DFR135R2WD20M	J10
DFR135R3WD20M	J11
DFR135R4WD20M	J12
DFR140R2WD20M	J10
DFR140R3WD20M	J11
DFR140R4WD20M	J12
DFR145R2WD20M	J10
DFR145R3WD20M	J11
DFR145R4WD20M	J12
DFR150R2WD20M	J10
DFR150R3WD20M	J11
DFR150R4WD20M	J12
DFR155R2WD20M	J10
DFR155R3WD20M	J11
DFR155R4WD20M	J12
DFR160R2WD20M	J10
DFR160R3WD20M	J11
DFR160R4WD20M	J12
DFR165R2WD32M	J10
DFR165R3WD32M	J11
DFR165R4WD32M	J12
DFR170R2WD32M	J10
DFR170R3WD32M	J11
DFR170R4WD32M	J12
DFR175R2WD32M	J10
DFR175R3WD25M	J11
DFR175R3WD32M	J11
DFR175R4WD32M	J12
DFR180R2WD32M	J10
DFR180R3WD25M	J11
DFR180R3WD32M	J11
DFR180R4WD32M	J12
DFR185R2WD32M	J10
DFR185R3WD25M	J11
DFR185R3WD32M	J11
DFR185R4WD32M	J12
DFR190R2WD32M	J10
DFR190R3WD25M	J11
DFR190R3WD32M	J11
DFR190R4WD32M	J12
DFR195R2WD32M	J10
DFR195R3WD25M	J11
DFR195R3WD32M	J11
DFR195R4WD32M	J12
DFR200R2WD32M	J10
DFR200R3WD25M	J11
DFR200R3WD32M	J11
DFR200R4WD32M	J12
DFR205R2WD32M	J10
DFR205R3WD25M	J11
DFR205R3WD32M	J11
DFR205R4WD32M	J12
DFR210R2WD32M	J10
DFR210R3WD25M	J11
DFR210R3WD32M	J11
DFR210R4WD32M	J12
DFR220R2WD32M	J10
DFR220R3WD25M	J11
DFR220R3WD32M	J11
DFR220R4WD32M	J12
DFR230R2WD32M	J10
DFR230R3WD25M	J11
DFR230R3WD32M	J11
DFR230R4WD32M	J12
DFR240R2WD32M	J10
DFR240R3WD25M	J11
DFR240R3WD32M	J11
DFR240R4WD32M	J12
DFSP0563R2SSF075	J32
DFSP0563R3SSF075	J34
DFSP0594R2SSF075	J32
DFSP0594R3SSF075	J34
DFSP0625R2SSF075	J32
DFSP0625R3SSF075	J34
DFSP0656R2SSF075	J32
DFSP0656R3SSF075	J34
DFSP0688R2SSF075	J32–33
DFSP0688R3SSF075	J34–35
DFSP0703R2SSF075	J32
DFSP0703R3SSF075	J34
DFSP0734R2SSF075	J32
DFSP0734R3SSF075	J34
DFSP0750R2SSF100	J32
DFSP0750R3SSF100	J34
DFSP0750R4SSF100	J36
DFSP0781R2SSF100	J32
DFSP0781R3SSF100	J34
DFSP0781R4SSF100	J36
DFSP0813R2SSF100	J32
DFSP0813R3SSF100	J34
DFSP0813R4SSF100	J36
DFSP0813R5SSF100	J38
DFSP0844R2SSF100	J32–33
DFSP0844R3SSF100	J34–35
DFSP0844R4SSF100	J36–37
DFSP0844R5SSF100	J38–39
DFSP0875R2SSF100	J32
DFSP0875R3SSF100	J34
DFSP0875R4SSF100	J36
DFSP0875R5SSF100	J38
DFSP0906R2SSF100	J32
DFSP0906R3SSF100	J34
DFSP0906R4SSF100	J36
DFSP0906R5SSF100	J38
DFSP0938R2SSF100	J32
DFSP0938R3SSF100	J34
DFSP0938R4SSF100	J36
DFSP0938R5SSF100	J38
DFSP0969R2SSF100	J32
DFSP0969R3SSF100	J34
DFSP0969R4SSF100	J36
DFSP0969R5SSF100	J38
DFSP0984R2SSF100	J32
DFSP0984R3SSF100	J34
DFSP0984R4SSF100	J36
DFSP0984R5SSF100	J38
DFSP1000R2SSF100	J32
DFSP1000R2SSF125	J32

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DFSP1000R2SSF150	J32–33
DFSP1000R3SSF100	J34
DFSP1000R3SSF125	J34
DFSP1000R3SSF150	J34–35
DFSP1000R4SSF100	J36
DFSP1000R4SSF125	J36
DFSP1000R4SSF150	J36–37
DFSP1000R5SSF100	J38
DFSP1000R5SSF125	J38
DFSP1000R5SSF150	J38–39
DFSP1031R2SSF125	J32
DFSP1031R3SSF125	J34
DFSP1031R4SSF125	J36
DFSP1031R5SSF125	J38
DFSP1063R2SSF125	J32
DFSP1063R3SSF125	J34
DFSP1063R4SSF125	J36
DFSP1063R5SSF125	J38
DFSP1094R2SSF125	J32
DFSP1094R3SSF125	J34
DFSP1094R4SSF125	J36
DFSP1094R5SSF125	J38
DFSP1125R2SSF125	J32
DFSP1125R3SSF125	J34
DFSP1125R4SSF125	J36
DFSP1125R5SSF125	J38
DFSP1156R2SSF125	J32
DFSP1156R3SSF125	J34
DFSP1156R4SSF125	J36
DFSP1156R5SSF125	J38
DFSP1188R2SSF125	J32
DFSP1188R3SSF125	J34
DFSP1188R4SSF125	J36
DFSP1188R5SSF125	J38
DFSP1219R2SSF125	J32
DFSP1219R3SSF125	J34
DFSP1219R4SSF125	J36
DFSP1219R5SSF125	J38
DFSP1250R2SSF125	J32–33
DFSP1250R3SSF125	J34
DFSP1250R4SSF125	J36
DFSP1250R4SSF150	J36–37
DFSP1250R5SSF125	J38
DFSP1250R5SSF150	J38–39
DFSP1281R3SSF125	J34–35
DFSP1313R2SSF125	J32
DFSP1313R2SSF150	J32
DFSP1313R3SSF125	J34
DFSP1313R3SSF150	J34
DFSP1313R4SSF125	J36
DFSP1313R5SSF125	J38
DFSP1375R2SSF125	J32
DFSP1375R2SSF150	J32
DFSP1375R3SSF125	J34
DFSP1375R3SSF150	J34
DFSP1375R4SSF125	J36
DFSP1375R4SSF150	J36
DFSP1375R5SSF125	J38
DFSP1375R5SSF150	J38
DFSP1406R4SSF150	J36
DFSP140R2WD20M	J24
DFSP140R3WD20M	J26
DFSP140R4WD20M	J28
DFSP1438R2SSF125	J32
DFSP1438R3SSF125	J34
DFSP1438R4SSF125	J36
DFSP1438R5SSF125	J38
DFSP145R2WD20M	J24
DFSP145R3WD20M	J26
DFSP145R4WD20M	J28
DFSP1469R2SSF125	J32
DFSP1469R3SSF125	J34
DFSP1500R2SSF125	J32
DFSP1500R2SSF150	J32
DFSP1500R3SSF125	J34
DFSP1500R3SSF150	J34
DFSP1500R4SSF125	J36
DFSP1500R4SSF150	J36
DFSP1500R5SSF125	J38
DFSP1500R5SSF150	J38
DFSP150R2WD20M	J24
DFSP150R3WD20M	J26
DFSP150R4WD20M	J28
DFSP155R2WD20M	J24
DFSP155R3WD20M	J26
DFSP155R4WD20M	J28
DFSP1563R2SSF125	J32
DFSP1563R2SSF150	J32–33
DFSP1563R3SSF150	J34–35
DFSP1563R4SSF150	J36
DFSP1563R5SSF150	J38–39
DFSP160R2WD20M	J24
DFSP160R3WD20M	J26
DFSP160R4WD20M	J28
DFSP1625R2SSF125	J32
DFSP1625R2SSF150	J32
DFSP1625R3SSF125	J34
DFSP1625R3SSF150	J34
DFSP1625R4SSF150	J36–37
DFSP1625R5SSF150	J38
DFSP1656R2SSF150	J32
DFSP1656R3SSF150	J34
DFSP1656R4SSF150	J36–37
DFSP1656R5SSF150	J38–39
DFSP165R2WD32M	J24
DFSP165R3WD32M	J26
DFSP165R4WD20M	J28
DFSP1688R2SSF150	J32–33
DFSP1688R3SSF150	J34–35
DFSP170R2WD32M	J24–25
DFSP170R3WD32M	J26–27
DFSP170R4WD20M	J28–29
DFSP1750R2SSF150	J32
DFSP1750R3SSF150	J34
DFSP1750R4SSF150	J36
DFSP1750R5SSF150	J38
DFSP175R2WD32M	J24
DFSP175R3WD32M	J26
DFSP175R4WD32M	J28
DFSP180R2WD32M	J24
DFSP180R3WD32M	J26
DFSP180R4WD32M	J28
DFSP1813R2SSF150	J32
DFSP1813R3SSF150	J34
DFSP1813R4SSF150	J36
DFSP1813R5SSF150	J38
DFSP185R2WD32M	J24
DFSP185R3WD32M	J26
DFSP185R4WD32M	J28
DFSP1875R2SSF150	J32–33
DFSP1875R3SSF150	J34–35
DFSP1875R4SSF150	J36–37
DFSP1875R5SSF150	J38–39
DFSP190R2WD32M	J24
DFSP190R3WD32M	J26
DFSP190R4WD32M	J28
DFSP1938R2SSF150	J32
DFSP1938R3SSF150	J34
DFSP1938R4SSF150	J36
DFSP1938R5SSF150	J38
DFSP195R2WD32M	J24
DFSP195R3WD32M	J26
DFSP195R4WD32M	J28
DFSP2000R2SSF150	J32
DFSP2000R2SSF200	J32
DFSP2000R3SSF150	J34
DFSP2000R3SSF200	J34
DFSP2000R4SSF150	J36
DFSP2000R4SSF200	J36
DFSP2000R5SSF150	J38
DFSP2000R5SSF200	J38
DFSP200R2WD32M	J24
DFSP200R3WD32M	J26
DFSP200R4WD32M	J28
DFSP200R5WD32M	J30
DFSP210R2WD32M	J24–25
DFSP210R3WD32M	J26–27
DFSP210R4WD32M	J28–29
DFSP210R5WD32M	J30–31
DFSP2125R2SSF150	J32
DFSP2125R2SSF200	J32–33
DFSP2125R3SSF150	J34
DFSP2125R3SSF200	J34–35
DFSP2125R4SSF150	J36
DFSP2125R4SSF200	J36–37
DFSP2125R5SSF150	J38
DFSP2125R5SSF200	J38–39
DFSP220R2WD32M	J24
DFSP220R3WD32M	J26
DFSP220R4WD32M	J28
DFSP220R5WD32M	J30
DFSP230R2WD32M	J24
DFSP230R3WD32M	J26
DFSP230R4WD32M	J28
DFSP230R5WD32M	J30
DFSP240R2WD32M	J24
DFSP240R3WD32M	J26
DFSP240R4WD32M	J28
DFSP240R5WD32M	J30
DFSP250R2WD32M	J24–25
DFSP250R3WD32M	J26–27
DFSP250R4WD32M	J28–29
DFSP250R5WD32M	J30–31
DFSP260R2WD32M	J24
DFSP260R3WD32M	J26
DFSP260R4WD32M	J28
DFSP260R5WD32M	J30
DFSP265R2WD32M	J24
DFSP265R3WD32M	J26
DFSP265R4WD32M	J28
DFSP265R5WD32M	J30
DFSP270R2WD32M	J24
DFSP270R3WD32M	J26
DFSP270R4WD32M	J28
DFSP270R5WD32M	J30
DFSP280R2WD32M	J24
DFSP280R3WD32M	J26
DFSP280R4WD32M	J28
DFSP280R5WD32M	J30
DFSP290R2WD32M	J24
DFSP290R3WD32M	J26
DFSP290R4WD32M	J28
DFSP290R5WD32M	J30
DFSP300R2WD32M	J24
DFSP300R3WD32M	J26
DFSP300R4WD32M	J28
DFSP300R5WD32M	J30
DFSP310R2WD32M	J24
DFSP310R3WD32M	J26
DFSP310R4WD32M	J28
DFSP310R5WD32M	J30
DFSP320R2WD32M	J24–25
DFSP320R3WD32M	J26–27
DFSP320R4WD32M	J28–29
DFSP320R5WD32M	J30–31
DFSP330R2WD32M	J24
DFSP330R3WD32M	J26
DFSP330R4WD32M	J28
DFSP330R5WD32M	J30
DFSP340R2WD32M	J24
DFSP340R3WD32M	J26
DFSP340R4WD32M	J28
DFSP340R5WD32M	J30
DFSP350R2WD32M	J24
DFSP350R3WD32M	J26
DFSP350R4WD32M	J28
DFSP350R5WD32M	J30
DFSP360R2WD32M	J24
DFSP360R3WD32M	J26
DFSP360R4WD32M	J28
DFSP360R5WD32M	J30
DFSP370R2WD32M	J24
DFSP370R3WD32M	J26
DFSP370R4WD32M	J28
DFSP370R5WD32M	J30
DFSP375R2WD32M	J24
DFSP375R3WD32M	J26
DFSP375R4WD32M	J28
DFSP375R5WD32M	J30
DFSP380R2WD32M	J24
DFSP380R3WD32M	J26
DFSP380R4WD32M	J28
DFSP380R5WD32M	J30
DFSP390R2WD32M	J24
DFSP390R3WD32M	J26
DFSP390R4WD32M	J28
DFSP390R5WD32M	J30
DFSP400R2WD32M	J24–25
DFSP400R3WD32M	J26–27
DFSP400R4WD32M	J28–29
DFSP400R5WD32M	J30–31
DFSP410R2WD32M	J24
DFSP410R3WD32M	J26
DFSP410R4WD32M	J28
DFSP410R5WD32M	J30
DFSP420R2WD32M	J25
DFSP420R3WD32M	J27
DFSP420R4WD32M	J29
DFSP420R5WD32M	J30
DFSP430R2WD32M	J25
DFSP430R3WD32M	J27
DFSP430R4WD32M	J29
DFSP430R5WD32M	J30–31
DFSP440R2WD32M	J25
DFSP440R3WD32M	J27
DFSP440R4WD32M	J29
DFSP440R5WD32M	J30
DFSP450R2WD40M	J25
DFSP450R3WD40M	J27
DFSP450R4WD40M	J29
DFSP450R5WD40M	J30
DFSP460R2WD40M	J25
DFSP460R3WD40M	J27
DFSP460R4WD40M	J29
DFSP460R5WD40M	J30
DFSP470R2WD40M	J25
DFSP470R3WD40M	J27
DFSP470R4WD40M	J29
DFSP470R5WD40M	J30
DFSP480R2WD40M	J25
DFSP480R3WD40M	J27
DFSP480R4WD40M	J29
DFSP480R5WD40M	J30–31
DFSP490R2WD40M	J25
DFSP490R3WD40M	J27
DFSP490R4WD40M	J29
DFSP490R5WD40M	J30
DFSP500R2WD40M	J25
DFSP500R3WD40M	J27
DFSP500R4WD40M	J29
DFSP500R5WD40M	J30
DFSP505R2WD40M	J25
DFSP505R3WD40M	J27
DFSP510R2WD40M	J25
DFSP510R3WD40M	J27
DFSP510R4WD40M	J29
DFSP510R5WD40M	J30
DFSP520R2WD40M	J25
DFSP520R3WD40M	J27
DFSP520R4WD40M	J29
DFSP520R5WD40M	J30
DFSP530R2WD40M	J25
DFSP530R3WD40M	J27
DFSP530R4WD40M	J29
DFSP530R5WD40M	J30
DFSP540R2WD40M	J25
DFSP540R3WD40M	J27
DFSP540R4WD40M	J29
DFSP540R5WD40M	J30
DFSP550R2WD50M	J25
DFSP550R3WD50M	J27
DFSP550R4WD50M	J29
DFSP550R5WD50M	J30–31
DFT030204GD KCPK10	J101
DFT030204GD KCU25	J101
DFT030204GD KCU40	J101
DFT030204HP KC7140	J101
DFT030204HP KCPK10	J101
DFT030204HP KCU25	J101
DFT030204HP KCU40	J101
DFT030204HP KMF	J101
DFT030204MD KC7140	J101
DFT030204MD KCU25	J101
DFT030204MD KCU40	J101
DFT030304DS KCU40	J102
DFT030304GD KC7140	J101
DFT030304GD KCPK10	J101
DFT030304GD KCU25	J101

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DFT030304GD KCU40	J101
DFT030304HP KC7140	J101
DFT030304HP KCPK10	J101
DFT030304HP KCU25	J101
DFT030304HP KCU40	J101
DFT030304HP KMF	J101
DFT030304MD KC7140	J101
DFT030304MD KCU25	J101
DFT030304MD KCU40	J101
DFT05T308D32DS KCU40	H112
DFT05T308D32HP KCU25	H112
DFT05T308D32HP KCU40	H112
DFT05T308D32MD KC7140	H113
DFT05T308D33DS KCU40	H112
DFT05T308D33HP KCU25	H112
DFT05T308D33HP KCU40	H112
DFT05T308D33MD KC7140	H113
DFT05T308DS KCU40	J102
DFT05T308GD KC7140	J101
DFT05T308GD KCPK10	J101
DFT05T308GD KCU25	J101
DFT05T308GD KCU40	J101
DFT05T308HP KC7140	J101
DFT05T308HP KCPK10	J101
DFT05T308HP KCU25	J101
DFT05T308HP KCU40	J101
DFT05T308HP KMF	J101
DFT05T308MD KC7140	J101
DFT05T308MD KCU25	J101
DFT05T308MD KCU40	J101
DFT05T308ST KD1425	J98
DFT06T308D36DS KCU40	H112
DFT06T308D36HP KCU25	H112
DFT06T308D36HP KCU40	H112
DFT06T308D36MD KC7140	H113
DFT06T308D39DS KCU40	H112
DFT06T308D39HP KCU25	H112
DFT06T308D39HP KCU40	H112
DFT06T308D39MD KC7140	H113
DFT06T308D44DS KCU40	H112
DFT06T308D44HP KCU25	H112
DFT06T308D44HP KCU40	H112
DFT06T308D44MD KC7140	H113
DFT06T308DS KCU40	J102
DFT06T308GD KC7140	J101
DFT06T308GD KCPK10	J101
DFT06T308GD KCU25	J101
DFT06T308GD KCU40	J101
DFT06T308HP KC7140	J101
DFT06T308HP KCPK10	J101
DFT06T308HP KCU25	J101
DFT06T308HP KCU40	J101
DFT06T308HP KMF	J101
DFT06T308MD KC7140	J101
DFT06T308MD KCU25	J101
DFT06T308MD KCU40	J101
DFT06T308ST KD1425	J98
DFT070408D45DS KCU40	H112
DFT070408D45HP KCU25	H112
DFT070408D45HP KCU40	H112
DFT070408D45MD KC7140	H113
DFT070408D50DS KCU40	H112
DFT070408D50HP KCU25	H112
DFT070408D50HP KCU40	H112
DFT070408D50MD KC7140	H113
DFT070408DS KCU40	J102
DFT070408GD KC7140	J101
DFT070408GD KCPK10	J101
DFT070408GD KCU25	J101
DFT070408GD KCU40	J101
DFT070408HP KC7140	J101
DFT070408HP KCPK10	J101
DFT070408HP KCU25	J101
DFT070408HP KCU40	J101
DFT070408HP KMF	J101
DFT070408MD KC7140	J101
DFT070408MD KCU25	J101
DFT070408MD KCU40	J101
DFT070408ST KD1425	J98
DFT0875R2SSF125	J51
DFT090508D56DS KCU40	H112
DFT090508D56HP KCU25	H112
DFT090508D56HP KCU40	H112
DFT090508D56MD KC7140	H113
DFT090508D63DS KCU40	H112
DFT090508D63HP KCU25	H112
DFT090508D63HP KCU40	H112
DFT090508D63MD KC7140	H113
DFT090508DS KCU40	J102
DFT090508GD KC7140	J101
DFT090508GD KCPK10	J101
DFT090508GD KCU25	J101
DFT090508GD KCU40	J101
DFT090508HP KC7140	J101
DFT090508HP KCPK10	J101
DFT090508HP KCU25	J101
DFT090508HP KCU40	J101
DFT090508HP KMF	J101
DFT090508MD KC7140	J101
DFT090508MD KCU25	J101
DFT090508MD KCU40	J101
DFT090508ST KD1425	J98
DFT0906R2SSF125	J51
DFT0938R2SSF125	J51
DFT0969R2SSF125	J51
DFT0984R2SSF125	J51
DFT0984R4SSF100	J53
DFT1000R2SSF125	J51
DFT1000R2SSF150	J51
DFT1000R4SSF100	J53
DFT1000R4SSF125	J53
DFT1000R4SSF150	J53
DFT1031R2SSF125	J51
DFT1031R4SSF125	J53
DFT1063R2SSF125	J51
DFT1063R4SSF125	J53
DFT1094R2SSF125	J51
DFT1094R4SSF125	J53
DFT110508MD KC7140	J101
DFT110508ST KD1425	J98
DFT1125R2SSF125	J51
DFT1125R4SSF125	J53
DFT1125R4SSF150	J53
DFT1156R2SSF125	J51
DFT1156R4SSF125	J53
DFT1188R2SSF125	J51
DFT1188R4SSF125	J53
DFT1219R2SSF125	J51
DFT1219R2SSF150	J51
DFT1219R4SSF125	J53
DFT1250R2SSF125	J51
DFT1250R2SSF150	J51
DFT1250R4SSF125	J53
DFT1250R4SSF150	J53
DFT1281R2SSF125	J51
DFT1281R2SSF150	J51
DFT1281R4SSF125	J53
DFT1313R2SSF125	J51
DFT1313R2SSF150	J51
DFT1313R4SSF125	J53
DFT1375R2SSF125	J51
DFT1375R2SSF150	J51
DFT1375R4SSF125	J53
DFT1375R4SSF150	J53
DFT1406R2SSF125	J51
DFT1406R2SSF150	J51
DFT1406R4SSF125	J53
DFT1438R2SSF125	J51
DFT1438R2SSF150	J51
DFT1438R4SSF125	J53
DFT1438R4SSF150	J53
DFT1469R2SSF125	J51
DFT1469R2SSF150	J51
DFT1469R4SSF125	J53
DFT1500R2SSF125	J51
DFT1500R2SSF150	J51
DFT1500R4SSF125	J53
DFT1500R4SSF150	J53
DFT1531R2SSF125	J51
DFT1531R2SSF150	J51
DFT1531R4SSF125	J53
DFT1531R4SSF150	J53
DFT1563R2SSF125	J51
DFT1563R2SSF150	J51
DFT1563R4SSF125	J53
DFT1563R4SSF150	J53
DFT1625R2SSF125	J51
DFT1625R2SSF150	J51
DFT1625R4SSF125	J53
DFT1625R4SSF150	J53
DFT1688R2SSF125	J51
DFT1688R2SSF150	J51
DFT1688R4SSF125	J53
DFT1688R4SSF150	J53
DFT1750R2SSF150	J51
DFT1750R4SSF150	J53
DFT1813R2SSF150	J51
DFT1813R4SSF150	J53
DFT1875R2SSF150	J51
DFT1875R4SSF150	J53
DFT1938R2SSF150	J52
DFT1938R4SSF150	J53
DFT2000R2SSF150	J52
DFT2000R2SSF200	J52
DFT2000R4SSF150	J53
DFT2000R4SSF200	J53
DFT2125R2SSF150	J52
DFT2125R2SSF200	J52
DFT2125R4SSF150	J53
DFT2125R4SSF200	J53
DFT2250R2SSF200	J52
DFT2375R2SSF200	J52
DFT2500R2SSF200	J52
DFT250R2WD32M	J48
DFT250R2WD40M	J48
DFT250R4WD32M	J50
DFT250R4WD40M	J50
DFT260R2WD32M	J48
DFT260R2WD40M	J48
DFT260R4WD32M	J50
DFT260R4WD40M	J50
DFT270R2WD32M	J48
DFT270R2WD40M	J48
DFT270R4WD32M	J50
DFT270R4WD40M	J50
DFT2750R2SSF200	J52
DFT280R2WD32M	J48
DFT280R2WD40M	J48
DFT280R4WD32M	J50
DFT280R4WD40M	J50
DFT290R2WD32M	J48
DFT290R2WD40M	J48
DFT290R4WD32M	J50
DFT290R4WD40M	J50
DFT3000R2SSF200	J52
DFT300R2WD32M	J48
DFT300R2WD40M	J48
DFT300R4WD32M	J50
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DFT320R2WD32M	J48
DFT320R2WD40M	J48
DFT320R4WD32M	J50
DFT320R4WD40M	J50
DFT3250R2SSF200	J52
DFT330R2WD32M	J48
DFT330R2WD40M	J48
DFT330R4WD40M	J50
DFT340R2WD32M	J48
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DFT370R2WD40M	J48
DFT370R4WD40M	J50
DFT380R2WD32M	J48
DFT380R2WD40M	J48
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DFT410R2WD40M	J48
DFT410R4WD40M	J50
DFT420R2WD32M	J48
DFT420R2WD40M	J48
DFT420R4WD40M	J50
DFT430R2WD32M	J48
DFT430R2WD40M	J48
DFT430R4WD40M	J50
DFT440R2WD32M	J48
DFT440R2WD40M	J48
DFT440R4WD40M	J50
DFT450R2WD40M	J48
DFT450R2WD50M	J48
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DFT460R2WD40M	J48
DFT460R2WD50M	J48
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DFT470R2WD40M	J48
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DFT520R2WD40M	J48
DFT520R2WD50M	J48
DFT530R2WD40M	J48
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DFT550R2WD50M	J48
DFT560R2WD50M	J48
DFT570R2WD50M	J48
DFT580R2WD50M	J48
DFT590R2WD50M	J48
DFT600R2WD50M	J48
DFT610R2WD50M	J49
DFT620R2WD50M	J49
DFT630R2WD50M	J49
DFT640R2WD50M	J49
DFT650R2WD50M	J49
DFT660R2WD50M	J49
DFT670R2WD50M	J49
DFT680R2WD50M	J49
DFT690R2WD50M	J49
DFT700R2WD50M	J49
DFT710R2WD50M	J49
DFT720R2WD50M	J49
DFT730R2WD50M	J49
DFT740R2WD50M	J49
DFT750R2WD50M	J49
DFT760R2WD50M	J49
DFT770R2WD50M	J49
DFT780R2WD50M	J49
DFT790R2WD50M	J49
DFT800R2WD50M	J49
DFT810R2WD50M	J49
DFT820R2WD50M	J49
DFTX20204DS KCU40	J102
DFTX20204HP KC7140	J101
DFTX20204HP KCU25	J101
DFTX20204HP KCU40	J101
DFTX20204MD KC7140	J101
DFTX20204MD KCU25	J101
DFTX20204MD KCU40	J101
DH35M	S39, T113
DNG451T0820 KY1615	B333
DNG452T0820 KY1615	B333
DNG453T0820 KY1615	B333
DNG454T0820 KY1615	B333

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DNGA431E KD1405	B364
DNGA431FST KD1400	B365
DNGA431FST KD1425	B365
DNGA431S0415MT KBH10	B334
DNGA431S0415MT KBH20	B334
DNGA431S0425MT KB5630	B310, B334
DNGA431S0525MT KBH20	B334
DNGA431S0735MT KBH20	B334
DNGA431T0820 KY1615	B333
DNGA432FST KD1400	B365
DNGA432FST KD1425	B365
DNGA432S0415FWMT KBH10	B333
DNGA432S0415FWMT KBH20	B333
DNGA432S0415MT KBH10	B334
DNGA432S0415MT KBH20	B334
DNGA432S0420MT KB1345	B310
DNGA432S0425MT KB5630	B310, B334
DNGA432S0525FWMT KBH10	B333
DNGA432S0525MT KBH10	B334
DNGA432S0525MT KBH20	B334
DNGA432S0735MT KBH10	B334
DNGA432S0735MT KBH20	B334
DNGA432T0420 KYS30	B351
DNGA432T0820 KY1615	B333
DNGA432T0820 KY3500	B314
DNGA433S0415FWMT KBH20	B333
DNGA433S0415MT KBH10	B334
DNGA433S0415MT KBH20	B334
DNGA433S0525FWMT KBH10	B333
DNGA433S0525MT KBH10	B334
DNGA433S0525MT KBH20	B334
DNGA433S0735MT KBH10	B334
DNGA433S0735MT KBH20	B334
DNGA433T0420 KYS30	B351
DNGA433T0820 KY1615	B333
DNGA433T0820 KY3500	B314
DNGA434T0820 KY1615	B333
DNGA434T0820 KY3500	B314
DNGA434T0820 KYK10	B314
DNGA434T0820 KYK25	B314
DNGA441S0415MT KBH10	B334
DNGA441S0415MT KBH20	B334
DNGA441S0525MT KBH20	B334
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DNMG432MR KCM15	B82
DNMG432MR KCM25B	B82
DNMG432MR KCP10B	B82
DNMG432MR KCP25B	B82

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DNMG432MR KCP30B	B82
DNMG432MR KCPK05	B82
DNMG432MR KCU10	B82
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DNMP433 K68	B85
DNMP433K KCP10B	B86
DNMP433K KCP25	B86
DNMP441K KCP25B	B86
DNMP442K KCP10B	B86
DNMP442K KCP25B	B86
DNMS431FST KD1400	B365
DNMS432 K68	B86
DNMS432 KC5410	B86
DNMS432FST KD1400	B365

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
DNMS432FST KD1425	B365
DP5009A S	T96–99
DP5013T S	V25–26
DPA07T3D25 KCU40	H114
DPA09T4D32 KCU40	H114
DPA13T5D50 KCU40	H114
DPGR431 KC5010	E32
DPGR431 KCU10	E32
DPGR431 KCU25	E32
DPGR431FP KCP25	E32
DPGR431FP KCU10	E32
DPGR432 K68	E32
DPGR432 KC5010	E32
DPGR432 KCU10	E32
DPGR432 KCU25	E32
DPGR432 KD1425	E32
DPGR432FP KCM25	E32
DPGR432FP KCP10	E32
DPGR433 KC5010	E32
DPGR433 KCU25	E32
DPGT21505HP KC5010	B231
DPGT21505LF KC5010	B231
DPGT21505LF KCU10	B231
DPGT2150LF KC5010	B231
DPGT2151HP KC5010	B231
DPGT2151HP KC5410	B231
DPGT2151HP KCU10	B231
DPGT2151HP KCU25	B231
DPGT2151LF KC5010	B231
DPGT2151LF KC5025	B231
DPGT2151LF KCU10	B231
DPGT2152HP KCU25	B231
DPGT32505LF KC5010	B231
DPGT32505LF KC5025	B231
DPGT32505LF KCU10	B231
DPGT3250LF KC5010	B231
DPGT3251HP K313	B231
DPGT3251HP KC5010	B231
DPGT3251HP KC5410	B231
DPGT3251HP KCU10	B231
DPGT3251HP KCU25	B231
DPGT3251LF KC5010	B231
DPGT3251LF KC5025	B231
DPGT3251LF KCU10	B231
DPGT3252HP KC5010	B231
DPGT3252HP KCU10	B231
DPGT3252HP KCU25	B231
DPGT3252LF KC5010	B231
DPGT3252LF KCU10	B231
DPGW21505FST KD1400	B366
DPGW21505FST KD1425	B366
DPGW2151FST KD1400	B366
DPGW2151FST KD1425	B366
DPGW3251E KD1405	B365
DPGW3251FST KD1400	B366
DPGW3251FST KD1425	B366
DPGW3251FWST KD1425	B366
DPMT21505FP KCU10	B231
DPMT21505LF KC5010	B232
DPMT21505LF KC5025	B232
DPMT2151FP KCM15	B231
DPMT2151FP KCP10	B231
DPMT2151FP KCP25	B231
DPMT2151FP KCU10	B231
DPMT2151FP KCU25	B231
DPMT2151FP KTP10	B231
DPMT2151FW KCP25	B232
DPMT2151LF KC5010	B232
DPMT2151LF KC5025	B232
DPMT2151LF KCK05	B232
DPMT2151LF KCK20	B232
DPMT2151LF KCM25	B232
DPMT2151LF KCP10	B232
DPMT2151LF KCP10B	B232
DPMT2151LF KCP25	B232
DPMT2151LF KCP25B	B232
DPMT2151LF KT315	B232
DPMT2151UF KC5010	B233
DPMT2151UF KCP25	B233
DPMT2152FP KCU10	B231
DPMT2152FP KCU25	B231
DPMT2152FW KCK20B	B232
DPMT2152FW KCU10	B232
DPMT32505LF KC5010	B232
DPMT3251FP KCP10	B231
DPMT3251FP KCP25	B231
DPMT3251FP KCU10	B231
DPMT3251FP KCU25	B231
DPMT3251LF KC5010	B232
DPMT3251LF KC5025	B232
DPMT3251LF KCK05	B232
DPMT3251LF KCK20	B232
DPMT3251LF KCM25B	B232
DPMT3251LF KCP10	B232
DPMT3251LF KCP10B	B232
DPMT3251LF KCP25	B232
DPMT3251LF KCP25B	B232
DPMT3251LF KT315	B232
DPMT3251UF KCP10	B233
DPMT3252FP KCU10	B231
DPMT3252FP KTP10	B231
DPMT3252LF KC5010	B232
DPMT3252LF KC5025	B232
DPMT3252LF KCK20	B232
DPMT3252LF KCM25	B232
DPMT3252LF KCP10	B232
DPMT3252LF KCP10B	B232
DPMT3252LF KCP25	B232
DPMT3252LF KCP25B	B232
DPMT3252MF KCM25	B232
DPMT3252MF KCP25	B232
DPMT3252MP KCP25	B233
DPMT3252MP KCU10	B233
DPMT3252UF KCP10	B233
DRGNL164DKC3	B98
DRGNL204DKC3	B98
DRGNR164DKC3	B98
DRGNR206DKC4	B98
DSDNN124KC3	B109
DSDNN164KC3	B109
DSDNN204KC3	B109
DSDNN206KC4	B109
DSKNL164CKC3	B109
DSKNR164CKC3	B109
DSRNL164DKC3	B110
DSRNL204DKC3	B110
DSRNL206DKC4	B110
DSSNL164DKC3	B110
DSSNR164DKC3	B110
DT10	U3, W40–43
DT15	S56, S58, T89–92, U3, V155–156
DT15IP	S39, T14–17, T75–80, T113, U32–34, V68–70, V75–77, V82–83, V139–141
DT3IP	W34–35
DT7	U13, W40
DT7IP	T30–33, T41–43
DT8	U3, W29–31, W40, W42–43
DT8IP	W4–5, W10–13, W17–19, W24–25
DT9	V156
DT9IP	T4–7, T49–54, T63–64, T107–109, U25–27, V36–38
DTGNL163DKC3	B131
DTGNR123BKC3	B131
DTGNR164DKC3	B131
DTJNR164DKC3	B131
DTQ3054	S94, S98, S100
DTQ50140	S30
DV40BKR32041M	K91
DV40BKR50060M	K91
DV40BSIF80061M	K49
DV40BT13069	K142
DV40FBHM1691	K133
DV40FBHMKIT164M	K127, K131
DV50BKR32040M	K91
DV50BKR32041M	K91
DV50BKR50040M	K91
DV50BKR63060M	K91
DV50BKR80070M	K91
DV50BSIF100060M	K49
DV50BSIF70060M	K49
DV50BT13069	K142
DVJNL123CKC3	B150
DVJNL163DKC3	B150
DVJNL164DKC3	B150
DVJNL853DKC3	B150
DVJNL854DKC3	B150
DVJNR123CKC3	B150
DVJNR163DKC3	B150
DVJNR164DKC3	B150
DVJNR853DKC3	B150
DVJNR854DKC3	B150
DVONL123CKC3	B151
DVONL163DKC3	B151
DVONL853DKC3	B151
DVONR123CKC3	B151
DVONR163DKC3	B151
DVONR853DKC3	B151
DVVNN123CKC3	B151
DVVNN163DKC3	B151
DVVNN164DKC3	B151
DVVNN853DKC3	B151
DWLNL123BKC3	B163
DWLNL163CKC3	B163
DWLNL164CKC3	B163
DWLNL164DKC3	B163
DWLNL204DKC3	B163
DWLNR123BKC3	B163
DWLNR163CKC3	B163
DWLNR163DKC3	B163
DWLNR164CKC3	B163
DWLNR164DKC3	B163
DWLNR204DKC3	B163
E03HSCFDR12	B200
E03HSCLDL12A	B202
E03HSCLDR12	B202
E03HSCLDR12A	B202
E03HSTLDR128	B265
E03HSWLPR15 KWH	B290
E03MSCFDR12	B200
E03MSCLDL12A	B202
E03MSCLDR12	B202
E03MSCLDR12A	B202
E03MSTLDR128	B265
E03MSWUPR15	B292
E0408HSCLDR1225	B203
E0410HSCLDR12125	B203
E04HSCFDL12	B200
E04HSCFDR12	B200
E04HSCLDL12	B202
E04HSCLDR12	B202
E04HSTFDR128	B264
E04HSTLDR128	B265
E04HSWLPL15 KWH	B290
E04HSWLPR15 KWH	B290
E04MSCFDR12	B200
E04MSCLDL12	B202
E04MSCLDR12	B202
E04MSTLDL128	B265
E04MSTLDR128	B265
E04MSWUPR15	B292
E05HSTFDR128	B264
E05HSTLDR128	B265
E05KSCLPL18 KWH	B214
E05KSCLPR18 KWH	B214
E05MSCFDR12	B200
E05MSCLDL12	B202
E05MSCLDR12	B202
E05MSTFDR128	B264
E05MSTLDR128	B265
E05MSWUPR15	B292
E05STFPL18 KWH	B272
E05STFPR18	B272
E05SWLPL15 KWH	B290
E05SWLPR15 KWH	B290
E06LSEL2 KWH	D75
E06LSER2 KWH	D75
E06MSCLCL2	B197
E06MSCLCR2	B197
E06MSTLDL07	B265
E06MSTLDR07	B265
E06MSWUPR2	B292
E06SCLPL2 KWH	B214
E06SCLPR2 KWH	B214
E06SDUPL2 KWH	B234
E06SDUPR2 KWH	B234
E06SSTLDR2	B265
E06STFPL2 KWH	B272
E06STFPR2 KWH	B272
E06STLPL2 KWH	B275
E06STLPR2 KWH	B275
E06SWLPL2 KWH	B290
E06SWLPR2 KWH	B290
E08KCTFPR2 KWH	B184, B392
E08LSEL2 KWH	D75
E08LSER2 KWH	D75
E08MSTLDL07	B265
E08MSTLDR07	B265
E08NEL2 KWH	C193, D36
E08NELR05 KWH	E44
E08NER2 KWH	C193, D36
E08NKLCL05 KWH	E45
E08NKLCR05 KWH	E45
E08RCTFPR2 KWH	B184, B392
E08RSCLCR2	B197
E08RSWUPR2	B292
E08SCLPL2 KWH	B214
E08SCLPR2 KWH	B214
E08SDUPL2 KWH	B234
E08SDUPR2 KWH	B234
E08STFPL2 KWH	B272
E08STFPR2 KWH	B272
E08STLPL2 KWH	B275
E08STLPR2 KWH	B275
E08SWLPL2 KWH	B290
E08SWLPR2 KWH	B290
E10LSEL3 KWH	D75
E10LSER3 KWH	D75
E10MCTFPR2 KWH	B184, B392
E10NEL2 KWH	C193, D36
E10NER2 KWH	C193, D36
E10NKLCL05 KWH	E45
E10NKLCR05 KWH	E45
E10SCLPL2 KWH	B214
E10SCLPL3 KWH	B214
E10SCLPR2 KWH	B214
E10SCLPR3 KWH	B214
E10SCTFPR2 KWH	B184, B392
E10SDUPL2 KWH	B234
E10SDUPR2 KWH	B234
E10SSCLCL3	B197
E10SSCLCR2	B197
E10SSCLCR3	B197
E10STFPL2 KWH	B272
E10STFPR2 KWH	B272
E10STLPL2 KWH	B275
E10STLPR2 KWH	B275
E10SWLPL3 KWH	B290
E10SWLPR3 KWH	B290
E12CTLNR2 KWH	B392
E12LSEL3 KWH	D75
E12LSER3 KWH	D75
E12NEL2 KWH	C193, D36
E12NER2 KWH	C193, D36
E12NKLCL05 KWH	E45
E12NKLCR05 KWH	E45
E12QCTFPL3 KWH	B184, B392
E12QCTFPR3 KWH	B184, B392
E12SCLPL2 KWH	B214
E12SCLPL3 KWH	B214
E12SCLPL3AP5 KWH	B216
E12SCLPR2 KWH	B214
E12SCLPR3 KWH	B214
E12SCLPR3AP5 KWH	B216
E12SCTFPL3 KWH	B184, B392
E12SCTFPR3 KWH	B184, B392
E12SDUPR2 KWH	B234
E12SSCLCL3	B197
E12SSCLCR3	B197
E12SSDUPL3 KWH	B234
E12SSDUPR3 KWH	B234
E12STFPL3 KWH	B272
E12STFPR3 KWH	B272
E12STLPL3 KWH	B275
E12STLPR3 KWH	B275
E12SWLPR3 KWH	B290
E16LSER3 KWH	D75
E16LSER4 KWH	D75
E16NEL3 KWH	C193, D36

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
E16NER3 KWH	C193, D36
E16NKLNR1 KWH	E45
E16RNNTOL2 KWH	C193
E16RNNTOR2 KWH	C193
E16SCLPL3 KWH	B214
E16SCLPL3AP5 KWH	B216
E16SCLPR3 KWH	B214
E16SCLPR3AP5 KWH	B216
E16STFPR3 KWH	B272
E16STLPL3 KWH	B275
E16STLPR3 KWH	B275
E16SWLPR3 KWH	B290
E16TCTFPR3 KWH	B184, B392
E16TSCLCR3	B197
E16TSDUPL3 KWH	B234
E16TSDUPR3 KWH	B234
E20SNNTOR2 KWH	C193
E25MSC7DR12	B204
E2908XSCLDR12088	B203
E2910XSCLDR12088	B203
E2FIX100505LHP KCU10	E11
E2FIX100505RHP KCU10	E11
E3208XSCLDR121	B203
E3210KSCLDR122	B203
EADE0178J4AQX KYS40	P156
EADE0188J4AQX KYS40	P156
EADE0188J6ARX KYS40	P157
EADE0238J4AQB KYS40	P156
EADE0250J4AQB KYS40	P156
EADE0250J6ARB KYS40	P157
EADE0297J4AQX KYS40	P156
EADE0313J4AQX KYS40	P156
EADE0313J6ARX KYS40	P157
EADE0356J4AQX KYS40	P156
EADE0375J4AQX KYS40	P156
EADE0375J6ARX KYS40	P157
EADE0475J4AQC KYS40	P156
EADE0500J4AQC KYS40	P156
EADE0500J6ARC KYS40	P157
EB10801281100	K144
EB13030150	K143
EB16301281650	K144
EB18030200	K143
EB23035250	K143
EB28035300	K143
EB33040350	K143
EB38040400	K143
EB43040450	K143
EB48040500	K143
EB53050550	K143
EB58050600	K143
EB630128650	K144
EBM1580160162	K136
EBM8015086	K136
EBSLD1105	K144
EBSLD2205	K144
EBUCW0074	K145
EBUFF0975	K145
EBURF1975PKG	K145
EC014M1BL06CF01 KCM35B	C22
EC014M1BL06CF01 KCU25	C22
EC014M1BL06CL01 KCM35B	C23
EC014M1BL06CL01 KCU25	C23
EC014M1BL06CM01 KCU25	C24
EC014M1BN00CF01 KCM35B	C22
EC014M1BN00CF01 KCU25	C22
EC014M1BN00CL01 KCM35B	C23
EC014M1BN00CL01 KCU25	C23
EC014M1BN00CM01 KCU25	C24
EC014M1BR06CF01 KCM35B	C22
EC014M1BR06CF01 KCU25	C22
EC014M1BR06CL01 KCM35B	C23
EC014M1BR06CL01 KCU25	C23
EC014M1BR06CM01 KCU25	C24
EC020M02L06CF02 KCM35B	C22
EC020M02L06CF02 KCU25	C22
EC020M02L06CL02 KCM35B	C23
EC020M02L06CL02 KCU25	C23
EC020M02L06CM02 KCU25	C24
EC020M02L06CR02 KCU25	C25
EC020M02N00CF02 KCM35B	C22
EC020M02N00CF02 KCU25	C22
EC020M02N00CL02 KCM35B	C23
EC020M02N00CL02 KCU25	C23
EC020M02N00CM02 KCU25	C24
EC020M02N00CR02 KCU25	C25
EC020M02R06CF02 KCM35B	C22
EC020M02R06CF02 KCU25	C22
EC020M02R06CL02 KCM35B	C23
EC020M02R06CL02 KCU25	C23
EC020M02R06CM02 KCU25	C24
EC020M02R06CR02 KCU25	C25
EC030M03L06CF02 KCM35B	C22
EC030M03L06CF02 KCU25	C22
EC030M03L06CL02 KCM35B	C23
EC030M03L06CL02 KCU25	C23
EC030M03L06CM02 KCU25	C24
EC030M03L06CR02 KCU25	C25
EC030M03N00CF02 KCM35B	C22
EC030M03N00CF02 KCU25	C22
EC030M03N00CL02 KCM35B	C23
EC030M03N00CL02 KCU25	C23
EC030M03N00CM02 KCU25	C24
EC030M03N00CR02 KCU25	C25
EC030M03R06CF02 KCM35B	C22
EC030M03R06CF02 KCU25	C22
EC030M03R06CL02 KCM35B	C23
EC030M03R06CL02 KCU25	C23
EC030M03R06CM02 KCU25	C24
EC030M03R06CR02 KCU25	C25
EC040M04L06CF02 KCM35B	C22
EC040M04L06CF02 KCU25	C22
EC040M04L06CL02 KCU25	C23
EC040M04L06CM02 KCU25	C24
EC040M04L06CR02 KCU25	C25
EC040M04N00CF02 KCM35B	C22
EC040M04N00CF02 KCU25	C22
EC040M04N00CL02 KCM35B	C23
EC040M04N00CL02 KCU25	C23
EC040M04N00CM02 KCU25	C24
EC040M04N00CR02 KCU25	C25
EC040M04R06CF02 KCM35B	C22
EC040M04R06CF02 KCU25	C22
EC040M04R06CL02 KCU25	C23
EC040M04R06CM02 KCU25	C24
EC040M04R06CR02 KCU25	C25
EC050M05N00CF03 KCM35B	C22
EC050M05N00CF03 KCU25	C22
EC050M05N00CM03 KCU25	C24
EC050M05N00CR03 KCU25	C25
EC060M06L06CR04 KCU25	C25
EC060M06N00CM03 KCU25	C24
EC060M06N00CR03 KCU25	C25
EC060M06R06CR04 KCU25	C25
EC070M06N00CM04 KCU25	C24
EC070M06N00CR04 KCU25	C25
EC080M08L06CR04 KCU25	C25
EC080M08N00CM04 KCU25	C24
EC080M08N00CR04 KCU25	C25
EC080M08R06CR04 KCU25	C25
EC1002ELD KC725M	T36, T45
EC1002ELD KCPK30	T36, T45
EC1002FLDJ KC410M	T35, T44
EC1004ELD KC520M	T36, T45
EC1004ELD KC522M	T36, T45
EC1004ELD KC725M	T36, T45
EC1004ELD KCPK30	T36, T45
EC1004ELDJ KC422M	T35, T45
EC1004FLDJ KC410M	T35, T44
EC1004FR-PCD KD1410	T34
EC1008ELD KC510M	T36, T45
EC1008ELD KC520M	T36, T45
EC1008ELD KC522M	T36, T45
EC1008ELD KC725M	T36, T45
EC1008ELD KCK15	T36, T45
EC1008ELD KCPK30	T36, T45
EC1008ELD KCPM40	T36
EC1008ELD KCSM40	T36
EC1008ELDJ KC422M	T35, T45
EC1008FLDJ KC410M	T35, T44
EC1008FR-PCD KD1410	T34
EC1012ELD KC522M	T36, T45
EC1012ELD KC725M	T36, T45
EC1012ELD KCSM40	T36
EC1012FLDJ KC410M	T35, T44
EC1016ELD KC522M	T36, T45
EC1016ELD KC725M	T36, T45
EC1016ELD KCPK30	T36, T45
EC1016ELD KCSM40	T36
EC1016ELDJ KC422M	T35, T45
EC1016FLDJ KC410M	T35, T44
EC1020ELD KC725M	T36, T45
EC1020ELD KCPK30	T36, T45
EC1020ELDJ KC422M	T35, T45
EC1020FLDJ KC410M	T35, T44
EC1024ELD KC522M	T36, T45
EC1024ELD KC725M	T36, T45
EC1024ELD KCSM40	T36
EC1024ELDJ KC422M	T35, T45
EC1031ELD KC725M	T36
EC1031ELD KCPK30	T36, T45
EC1031ELD KCSM40	T36
EC1031FLDJ KC410M	T35, T44
EC1402FLDJ KC410M	T55, T66
EC1404EGD KC725M	T57, T68
EC1404EGD KCPM40	T57, T68
EC1404ELD KC522M	T56, T67
EC1404ELDJ KC422M	T56, T67
EC1404FLDJ KC410M	T55, T66
EC1408EGD KC725M	T57, T68
EC1408EGD KCPM40	T57, T68
EC1408EGD KCSM40	T57, T68
EC1408ELD KC522M	T56, T67
EC1408ELDJ KC422M	T56, T67
EC1408FLDJ KC410M	T55, T66
EC1412EGD KC725M	T57, T68
EC1412EGD KCSM40	T57, T68
EC1412ELD KC522M	T56, T67
EC1412FLDJ KC410M	T55, T66
EC1416EGD KC725M	T57, T68
EC1416EGD KCSM40	T57, T68
EC1416ELD KC522M	T56, T67
EC1416FLDJ KC410M	T55, T66
EC1424ELDJ KC422M	T56, T67
EC1431EGD KC725M	T57, T68
EC1431EGD KCSM40	T57, T68
EC1431ELD KC522M	T56, T67
EC1431FLDJ KC410M	T55, T66
EC1440FLDJ KC410M	T55, T66
EC1804E KC725M	T83
EC1804E KCPM40	T83
EC1804FJ KC410M	T81
EC1808E KC725M	T83
EC1808E KCPM40	T83
EC1808E2 KC522M	T82
EC1808EJ KC422M	T82
EC1808FJ KC410M	T81
EC1812E KC725M	T83
EC1812E KCPM40	T83
EC1812EJ KC422M	T82
EC1812FJ KC410M	T81
EC1816E KC522M	T82
EC1816EJ KC422M	T82
EC1816FJ KC410M	T81
EC1820FJ KC410M	T81
EC1824EJ KC422M	T82
EC1824FJ KC410M	T81
EC1832E KC522M	T82
EC1832EJ KC422M	T82
EC1832FJ KC410M	T81
EC1840E KC522M	T82
EC1840FJ KC410M	T81
EC1848E KC522M	T82
EC1848FJ KC410M	T81
EC1850FJ KC410M	T81
EC1864E KC522M	T82
EC1864EJ KC422M	T82
EC1864FJ KC410M	T81
EG0200M02P02GUP K313	C17
EG0200M02P02GUP KCU10	C17
EG0200M02P02GUP KCU25	C17
EG0212M02U02GUN KCK20B	C20
EG0212M02U02GUN KCP10B	C20
EG0212M02U02GUN KCP25B	C20
EG0212M02U02GUN KCU10	C20
EG0212M02U02GUN KCU25	C20
EG0212M02U02GUP KCP10B	C17
EG0212M02U02GUP KCP25B	C17
EG0212M02U02GUP KCU10	C17
EG0212M02U02GUP KCU25	C17
EG0251M02U02GUN KCK20B	C20
EG0251M02U02GUN KCP10B	C20
EG0251M02U02GUN KCP25B	C20
EG0251M02U02GUN KCU10	C20
EG0251M02U02GUN KCU25	C20
EG0251M02U02GUP KCP10B	C17
EG0251M02U02GUP KCP25B	C17
EG0251M02U02GUP KCU10	C17
EG0251M02U02GUP KCU25	C17
EG0300M03P02GUP K313	C17
EG0300M03P02GUP KCU10	C17
EG0300M03P02GUP KCU25	C17
EG0300M03P04GUP K313	C17
EG0300M03P04GUP KCU10	C17
EG0300M03P04GUP KCU25	C17
EG0312M03U02GUN KCK20B	C20
EG0312M03U02GUN KCP10B	C20
EG0312M03U02GUN KCP25B	C20
EG0312M03U02GUN KCU10	C20
EG0312M03U02GUN KCU25	C20
EG0312M03U02GUP KCP10B	C17
EG0312M03U02GUP KCU10	C17
EG0312M03U02GUP KCU25	C17
EG0312M03U04GUN KCK20B	C20
EG0312M03U04GUN KCP10B	C20
EG0312M03U04GUN KCP25B	C20
EG0312M03U04GUN KCU10	C20
EG0312M03U04GUN KCU25	C20
EG0312M03U04GUP KCP10B	C17
EG0312M03U04GUP KCP25B	C17
EG0312M03U04GUP KCU10	C17
EG0312M03U04GUP KCU25	C17
EG0400M04P04GUP K313	C17
EG0400M04P04GUP KCU10	C17
EG0400M04P04GUP KCU25	C17
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EG0400M04P08GUP KCU10	C17
EG0400M04P08GUP KCU25	C17
EG0412M04U04GUN KCK20B	C20
EG0412M04U04GUN KCP10B	C20
EG0412M04U04GUN KCP25B	C20
EG0412M04U04GUN KCU10	C20
EG0412M04U04GUN KCU25	C20
EG0412M04U04GUP KCP10B	C17
EG0412M04U04GUP KCP25B	C17
EG0412M04U04GUP KCU10	C17
EG0412M04U04GUP KCU25	C17
EG0412M04U08GUN KCK20B	C20
EG0412M04U08GUN KCP10B	C20
EG0412M04U08GUN KCP25B	C20
EG0412M04U08GUN KCU10	C20
EG0412M04U08GUN KCU25	C20
EG0412M04U08GUP KCP10B	C17
EG0412M04U08GUP KCP25B	C17
EG0412M04U08GUP KCU10	C17
EG0412M04U08GUP KCU25	C17
EG0500M05P04GUP K313	C17
EG0500M05P04GUP KCU10	C17
EG0500M05P04GUP KCU25	C17
EG0500M05P08GUP K313	C17
EG0500M05P08GUP KCU10	C17
EG0500M05P08GUP KCU25	C17
EG0512M05U04GUN KCK20B	C20
EG0512M05U04GUN KCP10B	C20
EG0512M05U04GUN KCP25B	C20
EG0512M05U04GUN KCU10	C20
EG0512M05U04GUN KCU25	C20
EG0512M05U04GUP KCP10B	C17
EG0512M05U04GUP KCP25B	C17
EG0512M05U04GUP KCU10	C17
EG0512M05U04GUP KCU25	C17
EG0512M05U08GUN KCK20B	C20
EG0512M05U08GUN KCP10B	C20
EG0512M05U08GUN KCP25B	C20
EG0512M05U08GUN KCU10	C20
EG0512M05U08GUN KCU25	C20
EG0512M05U08GUP KCP10B	C17
EG0512M05U08GUP KCP25B	C17

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
EG0512M05U08GUP KCU10	C17
EG0512M05U08GUP KCU25	C17
EG0600M06P04GUP K313	C17
EG0600M06P04GUP KCU10	C17
EG0600M06P04GUP KCU25	C17
EG0600M06P08GUP K313	C17
EG0600M06P08GUP KCU10	C17
EG0600M06P08GUP KCU25	C17
EG0612M06U04GUN KCK20B	C20
EG0612M06U04GUN KCP10B	C20
EG0612M06U04GUN KCU10	C20
EG0612M06U04GUN KCU25	C20
EG0612M06U04GUP KCP10B	C17
EG0612M06U04GUP KCP25B	C17
EG0612M06U04GUP KCU10	C17
EG0612M06U04GUP KCU25	C17
EG0612M06U08GUN KCK20B	C20
EG0612M06U08GUN KCP25B	C20
EG0612M06U08GUN KCU10	C20
EG0612M06U08GUN KCU25	C20
EG0612M06U08GUP KCP10B	C17
EG0612M06U08GUP KCP25B	C17
EG0612M06U08GUP KCU10	C17
EG0612M06U08GUP KCU25	C17
EG0631I1FP05GUP K313	C18
EG0631I1FP05GUP KCU10	C18
EG0631I1FP05GUP KCU25	C18
EG0631I1FU05GUN KCK20B	C21
EG0631I1FU05GUN KCP10B	C21
EG0631I1FU05GUN KCP25B	C21
EG0631I1FU05GUN KCU10	C21
EG0631I1FU05GUN KCU25	C21
EG0700M06P08GUP K313	C17
EG0700M06P08GUP KCU10	C17
EG0700M06P08GUP KCU25	C17
EG0712M06U08GUP KCP10B	C17
EG0712M06U08GUP KCP25B	C17
EG0712M06U08GUP KCU10	C17
EG0712M06U08GUP KCU25	C17
EG0800M08P08GUP K313	C17
EG0800M08P08GUP KCU10	C17
EG0800M08P08GUP KCU25	C17
EG0800M08P12GUP K313	C17
EG0800M08P12GUP KCU10	C17
EG0800M08P12GUP KCU25	C17
EG0812M08U08GUN KCK20B	C20
EG0812M08U08GUN KCP10B	C20
EG0812M08U08GUN KCP25B	C20
EG0812M08U08GUN KCU10	C20
EG0812M08U08GUN KCU25	C20
EG0812M08U08GUP KCP10B	C17
EG0812M08U08GUP KCP25B	C17
EG0812M08U08GUP KCU10	C17
EG0812M08U08GUP KCU25	C17
EG0812M08U12GUN KCK20B	C20
EG0812M08U12GUN KCP10B	C20
EG0812M08U12GUN KCP25B	C20
EG0812M08U12GUN KCU10	C20
EG0812M08U12GUN KCU25	C20
EG0812M08U12GUP KCP10B	C17
EG0812M08U12GUP KCP25B	C17
EG0812M08U12GUP KCU10	C17
EG0812M08U12GUP KCU25	C17
EG0941I02P05GUP K313	C18
EG0941I02P05GUP KCU10	C18
EG0941I02P05GUP KCU25	C18
EG0941I02U05GUN KCK20B	C21
EG0941I02U05GUN KCP10B	C21
EG0941I02U05GUN KCP25B	C21
EG0941I02U05GUN KCU10	C21
EG0941I02U05GUN KCU25	C21
EG1000M10P12GUP K313	C17
EG1000M10P12GUP KCU10	C17
EG1000M10P12GUP KCU25	C17
EG1012M10U12GUN KCK20B	C20
EG1012M10U12GUN KCP10B	C20
EG1012M10U12GUN KCP25B	C20
EG1012M10U12GUN KCU10	C20
EG1012M10U12GUN KCU25	C20
EG1012M10U12GUP KCP10B	C17
EG1012M10U12GUP KCP25B	C17
EG1012M10U12GUP KCU10	C17
EG1012M10U12GUP KCU25	C17
EG125I03P05GUP K313	C18
EG125I03P05GUP KCU10	C18
EG125I03P05GUP KCU25	C18
EG125I03P1GUP K313	C18
EG125I03P1GUP KCU10	C18
EG125I03P1GUP KCU25	C18
EG125I03U05GUN KCK20B	C21
EG125I03U05GUN KCP10B	C21
EG125I03U05GUN KCP25B	C21
EG125I03U05GUN KCU10	C21
EG125I03U05GUN KCU25	C21
EG125I03U1GUN KCK20B	C21
EG125I03U1GUN KCP10B	C21
EG125I03U1GUN KCP25B	C21
EG125I03U1GUN KCU10	C21
EG125I03U1GUN KCU25	C21
EG130I03U05GUN KCK20B	C21
EG130I03U05GUN KCP10B	C21
EG130I03U05GUN KCP25B	C21
EG130I03U05GUN KCU10	C21
EG130I03U05GUN KCU25	C21
EG130I03U05GUP KCP10B	C18
EG130I03U05GUP KCP25B	C18
EG130I03U05GUP KCU10	C18
EG130I03U05GUP KCU25	C18
EG130I03U1GUN KCK20B	C21
EG130I03U1GUN KCP10B	C21
EG130I03U1GUN KCP25B	C21
EG130I03U1GUN KCU10	C21
EG130I03U1GUN KCU25	C21
EG130I03U1GUP KCP10B	C18
EG130I03U1GUP KCP25B	C18
EG130I03U1GUP KCU10	C18
EG130I03U1GUP KCU25	C18
EG187I04P1GUP K313	C18
EG187I04P1GUP KCU10	C18
EG187I04P1GUP KCU25	C18
EG187I04P2GUP K313	C18
EG187I04P2GUP KCU10	C18
EG187I04P2GUP KCU25	C18
EG187I04U1GUN KCK20B	C21
EG187I04U1GUN KCP10B	C21
EG187I04U1GUN KCP25B	C21
EG187I04U1GUN KCU10	C21
EG187I04U1GUN KCU25	C21
EG187I04U2GUN KCK20B	C21
EG187I04U2GUN KCP10B	C21
EG187I04U2GUN KCP25B	C21
EG187I04U2GUN KCU10	C21
EG187I04U2GUN KCU25	C21
EG192I04U1GUN KCK20B	C21
EG192I04U1GUN KCP10B	C21
EG192I04U1GUN KCP25B	C21
EG192I04U1GUN KCU10	C21
EG192I04U1GUN KCU25	C21
EG192I04U1GUP KCP10B	C18
EG192I04U1GUP KCP25B	C18
EG192I04U1GUP KCU10	C18
EG192I04U1GUP KCU25	C18
EG192I04U2GUN KCK20B	C21
EG192I04U2GUN KCP10B	C21
EG192I04U2GUN KCP25B	C21
EG192I04U2GUN KCU10	C21
EG192I04U2GUN KCU25	C21
EG192I04U2GUP KCP10B	C18
EG192I04U2GUP KCP25B	C18
EG192I04U2GUP KCU10	C18
EG192I04U2GUP KCU25	C18
EG250I06P1GUP K313	C18
EG250I06P1GUP KCU10	C18
EG250I06P1GUP KCU25	C18
EG250I06P2GUP K313	C18
EG250I06P2GUP KCU10	C18
EG250I06P2GUP KCU25	C18
EG250I06U1GUN KCK20B	C21
EG250I06U1GUN KCP10B	C21
EG250I06U1GUN KCP25B	C21
EG250I06U1GUN KCU10	C21
EG250I06U1GUN KCU25	C21
EG250I06U2GUN KCK20B	C21
EG250I06U2GUN KCP10B	C21
EG250I06U2GUN KCP25B	C21
EG250I06U2GUN KCU10	C21
EG250I06U2GUN KCU25	C21
EG255I06U1GUN KCK20B	C21
EG255I06U1GUN KCP10B	C21
EG255I06U1GUN KCP25B	C21
EG255I06U1GUN KCU10	C21
EG255I06U1GUN KCU25	C21
EG255I06U1GUP KCP10B	C18
EG255I06U1GUP KCP25B	C18
EG255I06U1GUP KCU10	C18
EG255I06U1GUP KCU25	C18
EG255I06U2GUN KCK20B	C21
EG255I06U2GUN KCP10B	C21
EG255I06U2GUN KCP25B	C21
EG255I06U2GUN KCU10	C21
EG255I06U2GUN KCU25	C21
EG255I06U2GUP KCP10B	C18
EG255I06U2GUP KCP25B	C18
EG255I06U2GUP KCU10	C18
EG255I06U2GUP KCU25	C18
EG312I08P3GUP K313	C18
EG312I08P3GUP KCU10	C18
EG312I08P3GUP KCU25	C18
EG312I08U3GUN KCK20B	C21
EG312I08U3GUN KCP10B	C21
EG312I08U3GUN KCP25B	C21
EG312I08U3GUN KCU10	C21
EG312I08U3GUN KCU25	C21
EG317I08U3GUN KCK20B	C21
EG317I08U3GUN KCP10B	C21
EG317I08U3GUN KCP25B	C21
EG317I08U3GUN KCU10	C21
EG317I08U3GUN KCU25	C21
EG317I08U3GUP KCP10B	C18
EG317I08U3GUP KCP25B	C18
EG317I08U3GUP KCU10	C18
EG317I08U3GUP KCU25	C18
EG375I10P3GUP K313	C18
EG375I10P3GUP KCU10	C18
EG375I10P3GUP KCU25	C18
EG375I10U3GUN KCK20B	C21
EG375I10U3GUN KCP10B	C21
EG375I10U3GUN KCP25B	C21
EG375I10U3GUN KCU10	C21
EG375I10U3GUN KCU25	C21
EG380I10U3GUN KCK20B	C21
EG380I10U3GUN KCP10B	C21
EG380I10U3GUN KCP25B	C21
EG380I10U3GUN KCU10	C21
EG380I10U3GUN KCU25	C21
EG380I10U3GUP KCP10B	C18
EG380I10U3GUP KCP25B	C18
EG380I10U3GUP KCU10	C18
EG380I10U3GUP KCU25	C18
ENG451T0820 KY1615	B335
ENG452T0820 KY1615	B335
ENG453T0820 KY1615	B335
ENG454T0820 KY1615	B335
ENGX454T0820 KY3500	B317
EP0708SGE KC522M	T25
EP0708SGE KC725M	T25
EP0708SGE KCPK30	T25
EP0708SGE KCPM40	T25
EP0708SGE KCSM30	T25
EP1004EHD KC520M	T36, T46
EP1004EHD KC522M	T36, T46
EP1004EHD KC725M	T36, T46
EP1004EHD KCK15	T36, T46
EP1004EHD KCPK30	T36, T46
EP1004EHD KCPM40	T36
EP1004SGD KC725M	T37, T47
EP1004SGD KCK15	T37, T47
EP1004SGD KCPK30	T37, T47
EP1004SGE KC522M	T37, T46
EP1004SGE KC725M	T37, T46
EP1004SGE KCPK30	T37, T46
EP1004SGE KCPM40	T37
EP1008EHD KC520M	T36, T46
EP1008EHD KC522M	T36, T46
EP1008EHD KC725M	T36, T46
EP1008EHD KCK15	T36, T46
EP1008EHD KCPK30	T36, T46
EP1008EHD KCPM40	T36
EP1008EHD KCSM40	T36
EP1008SGD KC520M	T37, T47
EP1008SGD KC725M	T37, T47
EP1008SGD KCK15	T37, T47
EP1008SGD KCPK30	T37, T47
EP1008SGD KCPM40	T37
EP1008SGE KC522M	T37, T46
EP1008SGE KC725M	T37, T46
EP1008SGE KCPK30	T37, T46
EP1008SGE KCPM40	T37
EP1008SGE KCSM40	T37
EP1010EHD KC522M	T36, T46
EP1010EHD KC725M	T36, T46
EP1010EHD KCK15	T36, T46
EP1010EHD KCPK30	T36, T46
EP1012EHD KC520M	T36, T46
EP1012EHD KC522M	T36, T46
EP1012EHD KC725M	T36, T46
EP1012EHD KCPK30	T36, T46
EP1012EHD KCPM40	T36
EP1012EHD KCSM40	T36
EP1012SGD KC520M	T37, T47
EP1012SGD KC725M	T37, T47
EP1012SGD KCK15	T37, T47
EP1012SGD KCPK30	T37, T47
EP1012SGE KC522M	T37, T46
EP1012SGE KC725M	T37, T46
EP1012SGE KCPK30	T37, T46
EP1012SGE KCSM40	T37
EP1016EHD KC522M	T36, T46
EP1016EHD KC725M	T36, T46
EP1016EHD KCPK30	T36, T46
EP1016EHD KCPM40	T36
EP1016EHD KCSM30	T36
EP1016EHD KCSM40	T36
EP1016SGD KC725M	T37, T47
EP1016SGD KCPK30	T37, T47
EP1016SGE KC522M	T37, T46
EP1016SGE KC725M	T37, T46
EP1016SGE KCPK30	T37, T46
EP1016SGE KCSM40	T37
EP1020EHD KC725M	T36, T46
EP1020EHD KCPK30	T36, T46
EP1020EHD KCPM40	T36
EP1020EHD KCSM40	T36
EP1024EHD KC725M	T36, T46
EP1024EHD KCPK30	T36, T46
EP1024EHD KCSM40	T36
EP1031EHD KC522M	T36, T46
EP1031EHD KC725M	T36, T46
EP1031EHD KCPK30	T36, T46
EP1031EHD KCSM40	T36
EP1031SGE KC522M	T37, T46
EP1031SGE KC725M	T37, T46
EP1031SGE KCPK30	T37, T46
EP1031SGE KCSM40	T37
EP1404EHD KC520M	T57, T68
EP1404EHD KC522M	T57, T68
EP1404EHD KC725M	T57, T68
EP1404EHD KCK15	T57, T68
EP1404EHD KCPK30	T57, T68
EP1404EHD KCPM40	T57, T68
EP1404SGE KC522M	T58, T69
EP1404SGE KC725M	T58, T69
EP1404SGE KCPK30	T58, T69
EP1408EHD KC520M	T57, T68
EP1408EHD KC522M	T57, T68
EP1408EHD KC725M	T57, T68
EP1408EHD KCK15	T57, T68
EP1408EHD KCPK30	T57, T68
EP1408EHD KCPM40	T57, T68
EP1408EHD KCSM40	T57, T68
EP1408EHD2 KC522M	T58, T69
EP1408EHD2 KC725M	T58, T69
EP1408EHD2 KCK15	T58, T69
EP1408EHD2 KCPK30	T58, T69
EP1408EHD2 KCPM40	T58, T69
EP1408SGD KC520M	T58, T70
EP1408SGD KC725M	T58, T70
EP1408SGD KCPK30	T58, T70

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
EP1408SGD KCPM40	T58, T70
EP1408SGD KCSM40	T58, T70
EP1408SGD2 KC520M	T59, T70
EP1408SGD2 KC725M	T59, T70
EP1408SGD2 KCPK30	T59, T70
EP1408SGD2 KCPM40	T59, T70
EP1408SGE KC522M	T58, T69
EP1408SGE KC725M	T58, T69
EP1408SGE KCPK30	T58, T69
EP1408SGE KCPM40	T58, T69
EP1408SGE KCSM40	T58, T69
EP1412EHD KC520M	T57, T68
EP1412EHD KC522M	T57, T68
EP1412EHD KC725M	T57, T68
EP1412EHD KCK15	T57, T68
EP1412EHD KCPK30	T57, T68
EP1412EHD KCPM40	T57, T68
EP1412EHD KCSM40	T57, T68
EP1412SGD KC520M	T58, T70
EP1412SGD KC725M	T58, T70
EP1412SGD KCPK30	T58, T70
EP1412SGD KCPM40	T58, T70
EP1412SGD KCSM40	T58, T70
EP1412SGE KC522M	T58, T69
EP1412SGE KC725M	T58, T69
EP1412SGE KCPK30	T58, T69
EP1412SGE KCSM40	T58, T69
EP1416EHD KC522M	T57, T68
EP1416EHD KC725M	T57, T68
EP1416EHD KCK15	T57, T68
EP1416EHD KCPK30	T57, T68
EP1416EHD KCPM40	T57, T68
EP1416EHD KCSM30	T57, T68
EP1416EHD KCSM40	T57, T68
EP1416SGD KC520M	T58, T70
EP1416SGD KC725M	T58, T70
EP1416SGD KCPK30	T58, T70
EP1416SGD KCPM40	T58, T70
EP1416SGD KCSM40	T58, T70
EP1416SGE KC522M	T58, T69
EP1416SGE KC725M	T58, T69
EP1416SGE KCPK30	T58, T69
EP1416SGE KCSM40	T58, T69
EP1420EHD KC522M	T57, T68
EP1420EHD KC725M	T57, T68
EP1420EHD KCPK30	T57, T68
EP1420EHD KCSM40	T57, T68
EP1424EHD KC522M	T57, T68
EP1424EHD KC725M	T57, T68
EP1424EHD KCPK30	T57, T68
EP1424EHD KCPM40	T57, T68
EP1424EHD KCSM40	T57, T68
EP1431EHD KC522M	T57, T68
EP1431EHD KC725M	T57, T68
EP1431EHD KCPK30	T57, T68
EP1431EHD KCSM30	T57, T68
EP1431EHD KCSM40	T57, T68
EP1431SGE KC725M	T58, T69
EP1431SGE KCPK30	T58, T69
EP1431SGE KCSM40	T58, T69
EP1440EHD KC522M	T57, T68
EP1440EHD KC725M	T57, T68
EP1440EHD KCPK30	T57, T68
EP1440EHD KCSM30	T57, T68
EP1440EHD KCSM40	T57, T68
EP1808E KC520M	T83
EP1808E KC725M	T83
EP1808E KCPK30	T83
EP1808E KCPM40	T83
EP1808E KCSM40	T83
EP1808EHD KC725M	T84
EP1808EHD KCPK30	T84
EP1808EHD KCPM40	T84
EP1808EHD KCSM40	T84
EP1808S KC725M	T85
EP1808S KCK15	T85
EP1808S KCPK30	T85
EP1808S KCPM40	T85
EP1808S KCSM40	T85
EP1808SGE KC522M	T84
EP1808SGE KC725M	T84
EP1808SGE KCPK30	T84
EP1808SGE KCSM40	T84
EP1812E KC725M	T83
EP1812E KCPM40	T83
EP1812EHD KC725M	T84
EP1812EHD KCPK30	T84
EP1812EHD KCSM40	T84
EP1812S KC725M	T85
EP1812S KCK15	T85
EP1812S KCPK30	T85
EP1812S KCPM40	T85
EP1812S KCSM40	T85
EP1812SGE KC522M	T84
EP1812SGE KCPK30	T84
EP1812SGE KCSM40	T84
EP1816E KC522M	T83
EP1816E KC725M	T83
EP1816E KCPK30	T83
EP1816E KCPM40	T83
EP1816E KCSM40	T83
EP1816EHD KC725M	T84
EP1816EHD KCPK30	T84
EP1816EHD KCPM40	T84
EP1816EHD KCSM40	T84
EP1816S KC725M	T85
EP1816S KCPK30	T85
EP1816S KCPM40	T85
EP1816S KCSM40	T85
EP1816SGE KCSM40	T84
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EP1832E KC725M	T83
EP1832E KCPK30	T83
EP1832E KCSM40	T83
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EP1832EHD KCSM40	T84
EP1832S KC725M	T85
EP1832S KCPK30	T85
EP1832S KCSM40	T85
EP1832SGE KCPK30	T84
EP1832SGE KCSM40	T84
EP1840EHD KC725M	T84
EP1840EHD KCSM40	T84
EP1848E KC725M	T83
EP1848E KCSM40	T83
EP1848EHD KC725M	T84
EP1848EHD KCPK30	T84
EP1848EHD KCSM40	T84
EP1848S KCSM40	T85
EP1864E KC522M	T83
EP1864E KC725M	T83
EP1864E KCPK30	T83
EP1864E KCSM40	T83
EP1864EHD KC725M	T84
EP1864EHD KCPK30	T84
EP1864S KC725M	T85
EP1864S KCSM40	T85
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ER25FBHS40	K138
ER25RBHT40	K123
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ER317I08U00GUP KCP25B	C19
ER317I08U00GUP KCU10	C19
ER317I08U00GUP KCU25	C19
ER32FBHS51	K138
ER32RBHT50	K123
ER40FBHS67	K138
ER40RBHT66	K123
EVBSN19G0220	C58
EVBSN19G1B14	C58
EVBSN19G1F16	C58
EVBSN26J0230	C58
EVBSN26J0340	C58
EVBSN26J0440	C58
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EVBSN26M0230	C58
EVBSN26M0340	C58
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EVM50L0312B060075C	C64
EVM50L0312B075100C	C64
EVM50L0312B100180C	C64

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
EVM50L0312B180250C	C64
EVM50L0312B250350C	C64
EVM50L0312B350999C	C64
EVM50L0312MC	C60
EVM50L0316MC	C60
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EVM50L0320A100180C	C62
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EVSBR160516180250C	C46
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EVSBR200532100180C	C47
EVSBR200532180250C	C47
EVSBR200532250350C	C47
EVSBR200532350999C	C47
EVSBR200632100180C	C47
EVSBR200632180250C	C47
EVSBR200632250350C	C47
EVSBR200632350999C	C47

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
EVSBR2020K0312035040C	C49
EVSBR2020K0312040050C	C49
EVSBR2020K0312050060C	C49
EVSBR2020K0312060075C	C49
EVSBR2020K0312075100C	C49
EVSBR2020K0416040050C	C49
EVSBR2020K0416050060C	C49
EVSBR2020K0416060075C	C49
EVSBR2020K0416075100C	C49
EVSBR2525M0312100180C	C49
EVSBR2525M0312180250C	C49
EVSBR2525M0320060075C	C49
EVSBR2525M0320075100C	C49
EVSBR2525M0320100180C	C49
EVSBR2525M0320180250C	C49
EVSBR2525M0416100180C	C49
EVSBR2525M0416180250C	C49
EVSBR2525M0426060075C	C49
EVSBR2525M0426075100C	C49
EVSBR2525M0426100180C	C49
EVSBR2525M0426180250C	C49
EVSBR2525M0516050060C	C49
EVSBR2525M0516060075C	C49
EVSBR2525M0516075100C	C49
EVSBR2525M0516100180C	C49
EVSBR2525M0516180250C	C49
EVSBR2525M0516250350C	C49
EVSBR2525M0516350999C	C50
EVSBR2525M0526050060C	C50
EVSBR2525M0526060075C	C50
EVSBR2525M0526075100C	C50
EVSBR2525M0616060075C	C50
EVSBR2525M0616075100C	C50
EVSBR2525M0616100180C	C50
EVSBR2525M0616180250C	C50
EVSBR2525M0616250350C	C50
EVSBR2525M0616350999C	C50
EVSBR2525M0626060075C	C50
EVSBR2525M0626075100C	C50
EVSBR3232P0532100180C	C50
EVSBR3232P0532180250C	C50
EVSBR3232P0532250350C	C50
EVSBR3232P0532350999C	C50
EVSBR3232P0632100180C	C50
EVSBR3232P0632180250C	C50
EVSBR3232P0632250350C	C50
EVSBR3232P0632350999C	C50
EVSCFL060210	C43
EVSCFL061B10	C43
EVSCFL061F10	C43
EVSCFL080210	C43
EVSCFL080216	C43
EVSCFL080310C	C43
EVSCFL080316C	C43
EVSCFL081B10	C43
EVSCFL081B13	C43
EVSCFL081F10	C43
EVSCFL081F13	C43
EVSCFL100216	C43
EVSCFL100316C	C43
EVSCFL1010K0210	C45
EVSCFL1010K1B10	C45
EVSCFL1010K1F10	C45
EVSCFL101B16	C43
EVSCFL101F16	C43
EVSCFL120216	C43
EVSCFL120316C	C43
EVSCFL1212K0210	C45
EVSCFL1212K0216	C45
EVSCFL1212K0310C	C45
EVSCFL1212K0316C	C45
EVSCFL1212K1B10	C45
EVSCFL1212K1B13	C45
EVSCFL1212K1F10	C45
EVSCFL1212K1F13	C45
EVSCFL121B16	C43
EVSCFL121F16	C43
EVSCFL1616K0216	C45
EVSCFL1616K0316C	C45
EVSCFL1616K1B16	C45
EVSCFL1616K1F16	C45
EVSCFL2020K0216	C45
EVSCFL2020K0316C	C45
EVSCFL2020K1B16	C45
EVSCFL2020K1F16	C45
EVSCFR060210	C42
EVSCFR061B10	C42
EVSCFR061F10	C42
EVSCFR080210	C42
EVSCFR080216	C42
EVSCFR080310C	C42
EVSCFR080316C	C42
EVSCFR081B10	C42
EVSCFR081B13	C42
EVSCFR081F10	C42
EVSCFR081F13	C42
EVSCFR100216	C42
EVSCFR100316C	C42
EVSCFR1010K0210	C44
EVSCFR1010K1B10	C44
EVSCFR1010K1F10	C44
EVSCFR101B16	C42
EVSCFR101F16	C42
EVSCFR120216	C42
EVSCFR120316C	C42
EVSCFR1212K0210	C44
EVSCFR1212K0216	C44
EVSCFR1212K0310C	C44
EVSCFR1212K0316C	C44
EVSCFR1212K1B10	C44
EVSCFR1212K1B13	C44
EVSCFR1212K1F10	C44
EVSCFR1212K1F13	C44
EVSCFR121B16	C42
EVSCFR121F16	C42
EVSCFR1616K0216	C44
EVSCFR1616K0316C	C44
EVSCFR1616K1B16	C44
EVSCFR1616K1F16	C44
EVSCFR2020K0216	C44
EVSCFR2020K0316C	C44
EVSCFR2020K1B16	C44
EVSCFR2020K1F16	C44
EVSCTL080216	C38
EVSCTL080316C	C39
EVSCTL081B16	C38
EVSCTL081F16	C38
EVSCTL100216	C38
EVSCTL100316C	C39
EVSCTL100416C	C39
EVSCTL120216	C39
EVSCTL120316C	C39
EVSCTL120326C	C39
EVSCTL120416C	C39
EVSCTL120426C	C39
EVSCTL1212K0216	C41
EVSCTL1212K0316C	C41
EVSCTL1212K1B16	C41
EVSCTL1212K1F16	C41
EVSCTL160216	C39
EVSCTL160226	C39
EVSCTL160316C	C39
EVSCTL160326C	C39
EVSCTL160426C	C39
EVSCTL160432C	C39
EVSCTL160526C	C39
EVSCTL160532C	C39
EVSCTL1616K0216	C41
EVSCTL1616K0316C	C41
EVSCTL1616K0416C	C41
EVSCTL200432C	C39
EVSCTL200540C	C39
EVSCTL2020K0216	C41
EVSCTL2020K0316C	C41
EVSCTL2020K0326C	C41
EVSCTL2020K0416C	C41
EVSCTL2020K0426C	C41
EVSCTL2525M0216	C41
EVSCTL2525M0226	C41
EVSCTL2525M0316C	C41
EVSCTL2525M0326C	C41
EVSCTL2525M0426C	C41
EVSCTL2525M0432C	C41
EVSCTL2525M0526C	C41
EVSCTL2525M0532C	C41
EVSCTL3232P0432C	C41
EVSCTL3232P0540C	C41
EVSCTR080216	C38
EVSCTR080316C	C38
EVSCTR081B16	C38
EVSCTR081F16	C38
EVSCTR100216	C38
EVSCTR100316C	C38
EVSCTR100416C	C38
EVSCTR120216	C38
EVSCTR120316C	C38
EVSCTR120326C	C38
EVSCTR120416C	C38
EVSCTR120426C	C38
EVSCTR1212K0216	C40
EVSCTR1212K0316C	C40
EVSCTR1212K1B16	C40
EVSCTR1212K1F16	C40
EVSCTR160216	C38
EVSCTR160226	C38
EVSCTR160316C	C38
EVSCTR160326C	C38
EVSCTR160426C	C38
EVSCTR160432C	C38
EVSCTR160526C	C38
EVSCTR160532C	C38
EVSCTR1616K0216	C40
EVSCTR1616K0316C	C40
EVSCTR1616K0416C	C40
EVSCTR200432C	C38
EVSCTR200540C	C38
EVSCTR2020K0216	C40
EVSCTR2020K0316C	C40
EVSCTR2020K0326C	C40
EVSCTR2020K0416C	C40
EVSCTR2020K0426C	C40
EVSCTR2525M0216	C40
EVSCTR2525M0226	C40
EVSCTR2525M0316C	C40
EVSCTR2525M0326C	C40
EVSCTR2525M0426C	C40
EVSCTR2525M0432C	C40
EVSCTR2525M0526C	C40
EVSCTR2525M0532C	C40
EVSCTR3232P0432C	C40
EVSCTR3232P0540C	C40
EVSML120216	C35
EVSML120222	C35
EVSML120316C	C35
EVSML120322C	C35
EVSML120416C	C35
EVSML120422C	C35
EVSML120516C	C35
EVSML120522C	C35
EVSML120616C	C35
EVSML120622C	C35
EVSML160216	C35
EVSML160226	C35
EVSML160316C	C35
EVSML160326C	C35
EVSML160416C	C35
EVSML160426C	C35
EVSML160516C	C35
EVSML160526C	C35
EVSML160616C	C35
EVSML160626C	C35
EVSML160826C	C35
EVSML200426C	C35
EVSML200432C	C35
EVSML200526C	C35
EVSML200532C	C35
EVSML200626C	C35
EVSML200632C	C35
EVSML200826C	C35
EVSML200832C	C35
EVSML201032C	C35
EVSML2020K0216	C37
EVSML2020K0222	C37
EVSML2020K0316C	C37
EVSML2020K0322C	C37
EVSML2020K0416C	C37
EVSML2020K0422C	C37
EVSML2020K0516C	C37
EVSML2020K0522C	C37
EVSML2020K0616C	C37
EVSML2020K0622C	C37
EVSML240640C	C35
EVSML240840C	C35
EVSML241040C	C35
EVSML2525M0216	C37
EVSML2525M0216C	C37
EVSML2525M0226	C37
EVSML2525M0316C	C37
EVSML2525M0326C	C37
EVSML2525M0416C	C37
EVSML2525M0426C	C37
EVSML2525M0516C	C37
EVSML2525M0526C	C37
EVSML2525M0616C	C37
EVSML2525M0626C	C37
EVSML2525M0826C	C37
EVSML3232P0426C	C37
EVSML3232P0432C	C37
EVSML3232P0526C	C37
EVSML3232P0532C	C37
EVSML3232P0626C	C37
EVSML3232P0632C	C37
EVSML3232P0826C	C37
EVSML3232P0832C	C37
EVSML3232P1032C	C37
EVSML4040R0640C	C37
EVSML4040R0840C	C37
EVSML4040R1040C	C37
EVSMR120216	C34
EVSMR120222	C34
EVSMR120222C	C34
EVSMR120316C	C34
EVSMR120322C	C34
EVSMR120416C	C34
EVSMR120422C	C34
EVSMR120516C	C34
EVSMR120522C	C34
EVSMR120616C	C34
EVSMR120622C	C34
EVSMR160216	C34
EVSMR160216C	C34
EVSMR160226	C34
EVSMR160226C	C34
EVSMR160316C	C34
EVSMR160326C	C34
EVSMR160416C	C34
EVSMR160426C	C34
EVSMR160516C	C34
EVSMR160526C	C34
EVSMR160616C	C34
EVSMR160626C	C34
EVSMR160826C	C34
EVSMR200426C	C34
EVSMR200432C	C34
EVSMR200526C	C34
EVSMR200532C	C34
EVSMR200626C	C34
EVSMR200632C	C34
EVSMR200826C	C34
EVSMR200832C	C34
EVSMR201032C	C34
EVSMR2020K0216	C36
EVSMR2020K0216C	C36
EVSMR2020K0222	C36
EVSMR2020K0222C	C36
EVSMR2020K0316C	C36
EVSMR2020K0322C	C36
EVSMR2020K0416C	C36
EVSMR2020K0422C	C36
EVSMR2020K0516C	C36
EVSMR2020K0522C	C36
EVSMR2020K0616C	C36
EVSMR2020K0622C	C36
EVSMR240640C	C34
EVSMR240840C	C34
EVSMR241040C	C34
EVSMR2525M0216	C36
EVSMR2525M0216C	C36

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
EVSMR2525M0226	C36
EVSMR2525M0226C	C36
EVSMR2525M0316C	C36
EVSMR2525M0326C	C36
EVSMR2525M0416C	C36
EVSMR2525M0426C	C36
EVSMR2525M0516C	C36
EVSMR2525M0526C	C36
EVSMR2525M0616C	C36
EVSMR2525M0626C	C36
EVSMR2525M0826C	C36
EVSMR3232P0426C	C36
EVSMR3232P0432C	C36
EVSMR3232P0526C	C36
EVSMR3232P0532C	C36
EVSMR3232P0626C	C36
EVSMR3232P0632C	C36
EVSMR3232P0826C	C36
EVSMR3232P0832C	C36
EVSMR3232P1032C	C36
EVSMR4040R0640C	C36
EVSMR4040R0840C	C36
EVSMR4040R1040C	C36
F3508T S	T127–128, V9–11
F3510T S	V9–12
F4011T S	T131
F7IP	T29, T40
FAS100302GD KC7015	H42
FAS100302GD KC7215	H42
FBSCFCL09CA06F	K116
FBSCFCR09CA06F	K116
FBSCLCL09CA06F	K116
FBSCLCR09CA06F	K116
FBSCUCR09CA06F	K117
FBSTFCR09CA11F	K117
FC11	B265
FC14	B264–265
FMDF0375Y6CQA KCPM15	042
FMDF0500Y6CQB KCPM15	042
FMDF0625Y6CQB KCPM15	042
FMDF0750Y6CQB KCPM15	042
FMDF1000Y6CQB KCPM15	042
FP2506T	V4–5
FP2507T	V4–5
FP3006T	V111, V114
FP3007T S	V111, V114
FSDE0250J7DYA KC643M	P100
FSDE0375J9BCA KC643M	P98
FSDE0375J9BCB KC643M	P98
FSDE0375J9DYA KC643M	P100
FSDE0375J9DYB KC643M	P100
FSDE0375Y9CQA KC643M	043
FSDE0375Y9CQB KC643M	043
FSDE0375Y9CQC KC643M	043
FSDE0375Y9CQD KC643M	043
FSDE0500J9BCA KC643M	P98
FSDE0500J9BCB KC643M	P98
FSDE0500J9BCC KC643M	P98
FSDE0500N9DYA KC643M	P100
FSDE0500N9DYB KC643M	P100
FSDE0500N9DYC KC643M	P100
FSDE0500Y9CQA KC643M	043
FSDE0500Y9CQB KC643M	043
FSDE0500Y9CQC KC643M	043
FSDE0500Y9CQD KC643M	043
FSDE0500Y9CQE KC643M	043
FSDE0625JBBCB KC643M	P98
FSDE0625NBDYB KC643M	P100
FSDE0625Y11CQA KC643M	043
FSDE0625Y11CQB KC643M	043
FSDE0625Y11CQC KC643M	043
FSDE0625Y11CQD KC643M	043
FSDE0625Y11CQE KC643M	043
FSDE0750JFBCA KC643M	P98
FSDE0750JFBCB KC643M	P98
FSDE0750JFBCC KC643M	P98
FSDE0750JFBCE KC643M	P98
FSDE0750NFDYA KC643M	P100
FSDE0750NFDYB KC643M	P100
FSDE0750NFDYC KC643M	P100
FSDE0750NFDYE KC643M	P100
FSDE0750Y15CQB KC643M	043
FSDE0750Y15CQC KC643M	043
FSDE0750Y15CQD KC643M	043
FSDE0750Y15CQE KC643M	043
FSDE1000JJBCA KC643M	P98
FSDE1000JJBCB KC643M	P98
FSDE1000JJBCC KC643M	P98
FSDE1000JJBCE KC643M	P98
FSDE1000NJDYA KC643M	P100
FSDE1000NJDYB KC643M	P100
FSDE1000NJDYC KC643M	P100
FSDE1000NJDYE KC643M	P100
FSDE1000Y19CQB KC643M	043
FSDE1000Y19CQC KC643M	043
FSDE1000Y19CQD KC643M	043
FSDE1000Y19CQE KC643M	043
FSDE1000Y19CQF KC643M	043
FT10	K42
FT15	K85, K124–125
FT20	K124–125
FT5	K78
FT6	K79, T24
FT7	K78–80, K85, K89–90, K124–125
FT8	K42, K85
FUWTCL	E63
FUWTCR	E63
G14-G18-RED	C83
G18-JIC	C83
G32TTB41KM40	B410
G40TTB51KM40	B410
G48TTB63KM63	B410
GPCD505 KC5025	B238
GPCD505 KCU25	B238
GPCD51 KCU25	B238
H16LSER3	D76
H16MCLNL4	B76
H16MCLNR4	B76
H16MDUNL3	B96
H16MDUNR3	B96
H16MWLNL3	B163
H16SCLCR3	B198
H16SDUPL3	B237
H16SDUPR3	B237
H16STFPR2	B279
H20CTFPR3W	B188, B393
H20LSER3	D76
H20MCFNR4	B75
H20MCLNL4	B76
H20MCLNR4	B76
H20MDUNL4	B96
H20MDUNR4	B96
H20MTFNR3	B143
H20MVUNL3	B155
H20MVUNR3	B155
H20MWLNR4	B163
H20NDLPR4W	E48
H20NDXPL4W	E49
H20NEL3W	C195, D38
H20NER3W	C195, D38
H24CRGNR4	B170, B393
H24LSER3	D76
H24LSER4	D76
H24MCFNR4	B75
H24MCKNR4	B75
H24MCLNL4	B76
H24MCLNL5	B76
H24MCLNR4	B76
H24MCLNR5	B76
H24MDPNR4	B96
H24MDUNL4	B96
H24MDUNR3	B96
H24MDUNR4	B96
H24MSKNR4	B120
H24MSSNR4	B120
H24MTFNR3	B143
H24MVUNL3	B155
H24MVUNR3	B155
H24MWLNL4	B163
H24MWLNR4	B163
H24NDLPR4W	E48
H24NDXPR4W	E49
H24NEL3W	C195, D38
H24NER3W	C195, D38
H24NER8W	C195, D38
H24NVLPR3W	E49
H28MCLNL4	B76
H28MCLNR4	B76
H28MDUNL4	B96
H28MDUNR4	B96
H28MTFNR3	B143
H28MWLNR4	B163
H28NEL3W	C195, D38
H28NER3W	C195, D38
H28NER4W	C195, D38
H28NER6W	C195, D38
H32CRGNR4	B170, B393
H32LSER3	D76
H32LSER4	D76
H32LSER5	D76
H32MCFNR5	B75
H32MCKNR4	B75
H32MCLNL4	B76
H32MCLNL5	B76
H32MCLNL6	B76
H32MCLNR4	B76
H32MCLNR5	B76
H32MCLNR6	B76
H32MDUNL4	B96
H32MDUNR3	B96
H32MDUNR4	B96
H32MSKNR4	B120
H32MTFNR4	B143
H32MVUNL3	B155
H32MVUNL4	B155
H32MVUNR3	B155
H32MVUNR4	B155
H32MWLNL4	B163
H32MWLNR4	B163
H32NDQPL4W	E48
H32NEL3W	C195, D38
H32NEL4W	C195, D38
H32NER3W	C195, D38
H32NER4W	C195, D38
H32NER6W	C195, D38
H36NER4W	C195, D38
H40CTFPR4W	B188, B393
H40LSER5	D76
H40MCFNR6	B75
H40MCKNL5	B75
H40MCKNR5	B75
H40MCKNR6	B75
H40MCLNL4	B76
H40MCLNL5	B76
H40MCLNL6	B76
H40MCLNR4	B76
H40MCLNR5	B76
H40MCLNR6	B76
H40MDUNL4	B96
H40MDUNR4	B96
H40MSKNL6	B120
H40MSKNR6	B120
H40MSSNR6	B120
H40MTFNR4	B143
H40MVUNL3	B155
H40MVUNL4	B155
H40MVUNR3	B155
H40MVUNR4	B155
H40NDXPL4W	E49
H40NEL3W	C195, D38
H40NEL4W	C195, D38
H40NER3W	C195, D38
H40NER4W	C195, D38
H40NER6W	C195, D38
HDWM5EUS	S104
HFB1023SCFPR06	K130
HFB1223SCFPR06	K130
HFB14FBHS1440	K130
HFB1627SCFPR06	K130
HFB16FBHS1640	K130
HFB19FBHS1840	K130
HFB2127SCFPR06	K130
HFB2427SCFPR06	K130
HFB2727SCFPR06	K130
HFB3127SCFPR06	K130
HFB3427SCFPR06	K130
HNEC535ANSN KY3500	S23
HNEN090508S KY3500	S79
HNEN0905ANSN KD200	S79
HNEN0905ANSN KY3500	S79
HNEN0905XNSN KY3500	S79
HNGJ438ANENLD KC725M	S6, S12, S15
HNGJ438ANENLD KCPK30	S6, S12, S15
HNGJ43ANENLD KC510M	S6, S12, S15
HNGJ43ANENLD KC520M	S6, S12, S15
HNGJ43ANENLD KC522M	S6, S12, S15
HNGJ43ANENLD KC725M	S6, S12, S15
HNGJ43ANENLD KCK15	S6, S12, S15
HNGJ43ANENLD KCPK30	S6, S12, S15
HNGJ43ANENLD KCPM40	S6, S12, S15
HNGJ43ANFNLDJ K313	S6, S11, S15
HNGJ43ANFNLDJ KC410M	S6, S11, S15
HNGJ43ANSNHD KC522M	S7, S12, S16
HNGJ43ANSNHD KCK15	S7, S16
HNGJ43ANSNHD KCPK30	S7, S16
HNGJ43ANSNHD KCPM40	S7, S12, S16
HNGJ43ANSNHD KCSM40	S7, S12, S16
HNGJ53511ANSNHD KC520M	S19, S22
HNGJ53511ANSNHD KC725M	S19, S22
HNGJ53511ANSNHD KCPK30	S19, S22
HNGJ53511ANSNHD KCPM40	S19, S22
HNGJ53511ANSNHD KCSM40	S19, S22
HNGJ535ANENLD KC520M	S18, S21
HNGJ535ANENLD KC522M	S18, S21
HNGJ535ANENLD KC725M	S18, S21
HNGJ535ANENLD KCK15	S18, S21
HNGJ535ANENLD KCPK30	S18, S21
HNGJ535ANENLD KCSM40	S18, S21
HNGJ535ANFNLDJ KC410M	S18, S21
HNGJ535ANSNGD KC725M	S18, S22
HNGJ535ANSNGD KCK15	S18, S22
HNGJ535ANSNGD KCPK30	S18, S22
HNGJ535ANSNGD KCPM40	S18, S22
HNGJ535ANSNGD KCSM40	S18, S22
HNGJ535ANSNHD KC520M	S19, S22
HNGJ535ANSNHD KC725M	S19, S22
HNGJ535ANSNHD KCK15	S19, S22
HNGJ535ANSNHD KCPK30	S19, S22
HNGJ535ANSNHD KCPM40	S19, S22
HNGJ535ANSNHD KCSM40	S19, S22
HNGJ75ANENGD KC725M	S25
HNGJ75ANENGD KCPK30	S25
HNGJ75ANENGD KCPM40	S25
HNGX5358MCI KCK15	S79
HNHX5354ENLE KC514M	S78
HNHX5354ENLE KCK15	S78
HNHX5354SNGE KC514M	S79
HNHX5354SNGE KCK15	S79
HNHX5355ENLE KC514M	S78
HNHX5355ENLE KCK15	S78
HNHX5355SNGE KC514M	S79
HNHX5355SNGE KCK15	S79
HNHX5358SNGE KCK15	S79
HNHX53ANSNGE KC514M	S78
HNHX53ANSNGE KCK15	S78
HNPJ438ANSNHD KC522M	S7, S13, S16
HNPJ438ANSNHD KC725M	S7, S13, S16
HNPJ438ANSNHD KCK15	S7, S13, S16
HNPJ438ANSNHD KCPK30	S7, S13, S16
HNPJ438ANSNHD KCPM40	S7, S13, S16
HNPJ438ANSNHD KCSM40	S7, S13, S16
HNPJ43ANSNGD KC520M	S7, S13, S16
HNPJ43ANSNGD KC522M	S7, S13, S16
HNPJ43ANSNGD KC725M	S7, S13, S16
HNPJ43ANSNGD KCK15	S7, S13, S16
HNPJ43ANSNGD KCPK30	S7, S13, S16
HNPJ43ANSNGD KCPM40	S7, S13, S16
HNPJ43ANSNGD KCSM40	S7, S13
HNPJ43ANSNHD KC520M	S7, S13, S16
HNPJ43ANSNHD KC522M	S7, S13, S16
HNPJ43ANSNHD KC725M	S7, S13, S16
HNPJ43ANSNHD KCK15	S7, S13, S16
HNPJ43ANSNHD KCPK30	S7, S13, S16
HNPJ43ANSNHD KCPM40	S7, S13, S16
HNPJ43ANSNHD KCSM40	S7, S13, S16
HNPJ53511ANSNHD KC522M	S19, S23
HNPJ53511ANSNHD KC725M	S19, S23
HNPJ53511ANSNHD KCK15	S19, S23

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
HNPJ53511ANSNHD KCPK30	S19, S23
HNPJ53511ANSNHD KCPM40	S19, S23
HNPJ53511ANSNHD KCSM40	S19, S23
HNPJ535ANSNGD KC520M	S19, S22
HNPJ535ANSNGD KC522M	S19, S22
HNPJ535ANSNGD KC725M	S19, S22
HNPJ535ANSNGD KCK15	S19, S22
HNPJ535ANSNGD KCPK30	S19, S22
HNPJ535ANSNGD KCPM40	S19, S22
HNPJ535ANSNHD KC520M	S19, S23
HNPJ535ANSNHD KC522M	S19, S23
HNPJ535ANSNHD KC725M	S19, S23
HNPJ535ANSNHD KCK15	S19, S23
HNPJ535ANSNHD KCPK30	S19, S23
HNPJ535ANSNHD KCPM40	S19, S23
HNPJ535ANSNHD KCSM40	S19, S23
HNPJ755ANSNGD KC520M	S25
HNPJ755ANSNGD KC725M	S25
HNPJ755ANSNGD KCPK30	S25
HNPJ755ANSNHD KC725M	S26
HNPJ755ANSNHD KCPK30	S26
HNPJ755ANSNHD KCPM40	S26
HNPJ759ANSNHD KC520M	S26
HNPJ759ANSNHD KCK15	S26
HNPJ759ANSNHD KCPK30	S26
HNPJ75ANSNHD KC725M	S26
HNPJ75ANSNHD KCK15	S26
HNPJ75ANSNHD KCPK30	S26
HNPJ75ANSNHD KCPM40	S26
HNPJ75ANSNHD KCSM40	S26
HNPX5354SNGE KCK15	S80
HNPX5355SNGE KCK15	S80
HNPX5358SNGE KCK15	S80
HPBNDM125S4013 KC633M	P150
HPBNDM188S4019 KC633M	P150
HPBNDM250S4025 KC633M	P150
HPBNDM375S4038 KC633M	P150
HPBNDM500S4050 KC633M	P150
HPBNDM625S4063 KC633M	P150
HPBNDM750S4075 KC633M	P150
HPFDM1000S5150 KC633M	P148
HPFDM1000S6250 KC633M	P148
HPFDM1000S6350 KC633M	P148
HPFDM250S4038 KC633M	P148
HPFDM250S4063 KC633M	P148
HPFDM250S4088 KC633M	P148
HPFDM312S4050 KC633M	P148
HPFDM312S4075 KC633M	P148
HPFDM312S4113 KC633M	P148
HPFDM375S4056 KC633M	P148
HPFDM375S5094 KC633M	P148
HPFDM375S5131 KC633M	P148
HPFDM500S4075 KC633M	P148
HPFDM500S6125 KC633M	P148
HPFDM500S6175 KC633M	P148
HPFDM625S4094 KC633M	P148
HPFDM625S6156 KC633M	P148
HPFDM625S6219 KC633M	P148
HPFDM750S4113 KC633M	P148
HPFDM750S6188 KC633M	P148
HPFDM750S6263 KC633M	P148
HPFSS1000S5200 KCPM15	P109
HPFSS1000S5325 KCPM15	P109
HPFSS125S3025 KC635M	P108
HPFSS125S5025 KC635M	P109
HPFSS156S5056 KC635M	P109
HPFSS188S3031 KC635M	P108
HPFSS188S5031 KC635M	P109
HPFSS188S5056 KCPM15	P109
HPFSS250S3038 KC635M	P108
HPFSS250S3050 KC635M	P108
HPFSS250S5038 KCPM15	P109
HPFSS250S5075 KCPM15	P109
HPFSS250S5125 KCPM15	P109
HPFSS312S3081 KC635M	P108
HPFSS375S3050 KC635M	P108
HPFSS375S3088 KC635M	P108
HPFSS375S5050 KCPM15	P109
HPFSS375S5088 KCPM15	P109
HPFSS375S5150 KCPM15	P109
HPFSS500S3063 KC635M	P108
HPFSS500S3125 KC635M	P108
HPFSS500S5063 KCPM15	P109
HPFSS500S5125 KCPM15	P109
HPFSS500S5200 KCPM15	P109
HPFSS625S5075 KCPM15	P109
HPFSS625S5163 KCPM15	P109
HPFSS750S5088 KCPM15	P109
HPFSS750S5163 KCPM15	P109
HPFSS750S5325 KCPM15	P109
HPFT1000S6150 KC635M	P110
HPFT1000S6225 KC635M	P110
HPFT1000S6400 KC635M	P110
HPFT250S6038 KC635M	P110
HPFT250S6075 KC635M	P110
HPFT312S6081 KC635M	P110
HPFT375S6088 KC635M	P110
HPFT375S6113 KC635M	P110
HPFT500S6063 KC635M	P110
HPFT500S6100 KC635M	P110
HPFT500S6200 KC635M	P110
HPFT625S6125 KC635M	P110
HPFT750S6150 KC635M	P110
HPFT750S6225 KC635M	P110
HPFT750S6300 KC635M	P110
HPFT750S6400 KC635M	P110
HPHV1000S4150 KCPM15	P19
HPHV1000S4150CH KCPM15	P19
HPHV1000S4150R030 KCPM15	P19
HPHV1000S4150R120 KCPM15	P19
HPHV1000S4150R250 KCPM15	P19
HPHV1000S4200 KCPM15	P20
HPHV1000S4200R030 KCPM15	P19
HPHV1000S4200R060 KCPM15	P19
HPHV1000S4200R120 KCPM15	P19
HPHV1000S4225 KCPM15	P20
HPHV1000S4225CH KCPM15	P20
HPHV1000S4225R030 KCPM15	P20
HPHV1000S4225R060 KCPM15	P20
HPHV1000S4263 KCPM15	P20
HPHV1000S4263CH KCPM15	P20
HPHV1000S4263R030 KCPM15	P20
HPHV1000S4300CH KCPM15	P20
HPHV1000S4300R030 KCPM15	P20
HPHV1000S4300R060 KCPM15	P20
HPHV1000S4400CH KCPM15	P20
HPHV1000S4400R030 KCPM15	P20
HPHV1000S4400R060 KCPM15	P20
HPHV1250S4225CH KCPM15	P20
HPHV1250S4225R030 KCPM15	P20
HPHV125S4025 KCPM15	P16
HPHV125S4025CH KCPM15	P16
HPHV125S4025LR015 KCPM15	P16
HPHV125S4050 KCPM15	P16
HPHV125S4050CH KCPM15	P16
HPHV125S4050L KCPM15	P16
HPHV125S4050R015 KCPM15	P16
HPHV188S4031 KCPM15	P16
HPHV188S4031CH KCPM15	P16
HPHV188S4031L KCPM15	P16
HPHV188S4031LR015 KCPM15	P16
HPHV188S4063 KCPM15	P16
HPHV188S4063CH KCPM15	P16
HPHV188S4063L KCPM15	P16
HPHV188S4063LR015 KCPM15	P16
HPHV188S4063LR030 KCPM15	P16
HPHV188S4063R015 KCPM15	P16
HPHV188S4063R030 KCPM15	P16
HPHV250S4038 KCPM15	P16
HPHV250S4038CH KCPM15	P16
HPHV250S4038LR015 KCPM15	P16
HPHV250S4038R030 KCPM15	P16
HPHV250S4050 KCPM15	P16
HPHV250S4050R015 KCPM15	P16
HPHV250S4050R030 KCPM15	P16
HPHV250S4050R060 KCPM15	P16
HPHV250S4075 KCPM15	P17
HPHV250S4075CH KCPM15	P17
HPHV250S4075R015 KCPM15	P16
HPHV250S4075R030 KCPM15	P16
HPHV250S4075R060 KCPM15	P17
HPHV250S4100 KCPM15	P17
HPHV250S4100R015 KCPM15	P17
HPHV250S4125 KCPM15	P17
HPHV250S4125CH KCPM15	P17
HPHV250S4125R030 KCPM15	P17
HPHV250S4175R015 KCPM15	P17
HPHV250S4175R030 KCPM15	P17
HPHV312S4050 KCPM15	P17
HPHV312S4050CH KCPM15	P17
HPHV312S4050L KCPM15	P17
HPHV312S4050LR015 KCPM15	P17
HPHV312S4050R030 KCPM15	P17
HPHV312S4075 KCPM15	P17
HPHV312S4075CH KCPM15	P17
HPHV312S4075R015 KCPM15	P17
HPHV312S4075R030 KCPM15	P17
HPHV312S4075R060 KCPM15	P17
HPHV312S4125R030 KCPM15	P17
HPHV375S4050 KCPM15	P17
HPHV375S4050CH KCPM15	P17
HPHV375S4050L KCPM15	P17
HPHV375S4050LR015 KCPM15	P17
HPHV375S4050LR030 KCPM15	P17
HPHV375S4050R030 KCPM15	P17
HPHV375S4088 KCPM15	P17
HPHV375S4088CH KCPM15	P17
HPHV375S4088L KCPM15	P17
HPHV375S4088LR015 KCPM15	P17
HPHV375S4088LR030 KCPM15	P17
HPHV375S4088LR090 KCPM15	P17
HPHV375S4088R015 KCPM15	P17
HPHV375S4088R030 KCPM15	P17
HPHV375S4088R060 KCPM15	P17
HPHV375S4088R090 KCPM15	P17
HPHV375S4100 KCPM15	P17
HPHV375S4100R015 KCPM15	P17
HPHV375S4100R030 KCPM15	P17
HPHV375S4100R060 KCPM15	P17
HPHV375S4125 KCPM15	P17
HPHV375S4125R015 KCPM15	P17
HPHV375S4125R030 KCPM15	P17
HPHV375S4125R060 KCPM15	P17
HPHV375S4150 KCPM15	P17
HPHV375S4150R030 KCPM15	P17
HPHV375S4150R060 KCPM15	P17
HPHV375S4250R030 KCPM15	P17
HPHV375S4250R060 KCPM15	P17
HPHV438S4063CH KCPM15	P18
HPHV438S4088CH KCPM15	P18
HPHV438S4113R015 KCPM15	P18
HPHV500S4063 KCPM15	P18
HPHV500S4063CH KCPM15	P18
HPHV500S4063L KCPM15	P18
HPHV500S4063LR015 KCPM15	P18
HPHV500S4063LR030 KCPM15	P18
HPHV500S4063LR060 KCPM15	P18
HPHV500S4063R030 KCPM15	P18
HPHV500S4063R060 KCPM15	P18
HPHV500S4100 KCPM15	P18
HPHV500S4100CH KCPM15	P18
HPHV500S4100R030 KCPM15	P18
HPHV500S4100R060 KCPM15	P18
HPHV500S4125 KCPM15	P18
HPHV500S4125CH KCPM15	P18
HPHV500S4125R015 KCPM15	P18
HPHV500S4125R030 KCPM15	P18
HPHV500S4125R060 KCPM15	P18
HPHV500S4125R090 KCPM15	P18
HPHV500S4125R120 KCPM15	P18
HPHV500S4150 KCPM15	P18
HPHV500S4150CH KCPM15	P18
HPHV500S4150R030 KCPM15	P18
HPHV500S4150R060 KCPM15	P18
HPHV500S4163 KCPM15	P18
HPHV500S4163R030 KCPM15	P18
HPHV500S4163R060 KCPM15	P18
HPHV500S4163R120 KCPM15	P18
HPHV500S4200 KCPM15	P18
HPHV500S4200CH KCPM15	P18
HPHV500S4200R030 KCPM15	P18
HPHV500S4250R030 KCPM15	P18
HPHV500S4300R060 KCPM15	P18
HPHV500S4300R060 KCPM15	P18
HPHV625S4075 KCPM15	P18
HPHV625S4075CH KCPM15	P18
HPHV625S4075L KCPM15	P19
HPHV625S4075LR015 KCPM15	P18
HPHV625S4075LR030 KCPM15	P18
HPHV625S4075LR060 KCPM15	P18
HPHV625S4075R060 KCPM15	P18
HPHV625S4125 KCPM15	P19
HPHV625S4125CH KCPM15	P19
HPHV625S4125R030 KCPM15	P19
HPHV625S4125R060 KCPM15	P19
HPHV625S4125R090 KCPM15	P19
HPHV625S4163 KCPM15	P19
HPHV625S4163R030 KCPM15	P19
HPHV625S4163R060 KCPM15	P19
HPHV625S4163R120 KCPM15	P19
HPHV625S4213 KCPM15	P19
HPHV625S4213R030 KCPM15	P19
HPHV625S4213R120 KCPM15	P19
HPHV625S4225R060 KCPM15	P19
HPHV750S4088 KCPM15	P19
HPHV750S4088CH KCPM15	P19
HPHV750S4088L KCPM15	P19
HPHV750S4088LR030 KCPM15	P19
HPHV750S4150 KCPM15	P19
HPHV750S4150CH KCPM15	P19
HPHV750S4150R015 KCPM15	P19
HPHV750S4150R030 KCPM15	P19
HPHV750S4150R060 KCPM15	P19
HPHV750S4150R090 KCPM15	P19
HPHV750S4150R120 KCPM15	P19
HPHV750S4163CH KCPM15	P19
HPHV750S4163R030 KCPM15	P19
HPHV750S4163R060 KCPM15	P19
HPHV750S4163R120 KCPM15	P19
HPHV750S4225 KCPM15	P19
HPHV750S4225CH KCPM15	P19
HPHV750S4225R030 KCPM15	P19
HPHV750S4225R060 KCPM15	P19
HPHV750S4300 KCPM15	P19
HPHV750S4300CH KCPM15	P19
HPHV750S4400R030 KCPM15	P19
HPHV750S4400R060 KCPM15	P19
HPHVBN1000S4150 KCPM15	P23
HPHVBN125S4050 KCPM15	P23
HPHVBN188S4063 KCPM15	P23
HPHVBN250S4075 KCPM15	P23
HPHVBN312S4075 KCPM15	P23
HPHVBN375S4088 KCPM15	P23
HPHVBN438S4088 KCPM15	P23
HPHVBN500S4100 KCPM15	P23
HPHVBN500S4125 KCPM15	P23
HPHVBN625S4125 KCPM15	P23
HPHVBN750S4150 KCPM15	P23
HPHVT1000S4150 KC643M	P24
HPHVT1000S4150CH KC643M	P24
HPHVT500S4063 KC643M	P24
HPHVT500S4063CH KC643M	P24
HPHVT500S4125 KC643M	P24
HPHVT500S4125CH KC643M	P24
HPHVT625S4075 KC643M	P24
HPHVT625S4075CH KC643M	P24
HPHVT625S4125 KC643M	P24
HPHVT625S4125CH KC643M	P24
HPHVT750S4088 KC643M	P24
HPHVT750S4088CH KC643M	P24
HPHVT750S4150 KC643M	P24
HPHVT750S4150CH KC643M	P24
HPRDM188S3019 KC633M	P149
HPRDM250S4025 KC633M	P149
HPRDM312S4031 KC633M	P149
HPRDM375S4038 KC633M	P149
HPRDM500S4050 KC633M	P149
HPRSHV1000S4700CH KCPM15	P22
HPRSHV500S4600 KCPM15	P22
HPRSHV500S4600CH KCPM15	P22
HPRSHV625S4600 KCPM15	P22
HPRSHV625S4600CH KCPM15	P22
HPRSHV750S4500CH KCPM15	P22
HPRSHV750S4600 KCPM15	P22
HPRSHV750S4600CH KCPM15	P22
HPRSS250S3075 KCPM15	P90
HPRSS375S3100 KCPM15	P90
HPRSS500S3125 KCPM15	P90

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
HPRSS625S3163 KCPM15	P90
HPRSS750S3163 KCPM15	P90
HPRST1000S4150 KC643M	P92
HPRST1000S6150 KC643M	P92
HPRST250S4038 KC643M	P92
HPRST250S4075 KC643M	P92
HPRST375S4050 KC643M	P92
HPRST375S4088 KC643M	P92
HPRST500S4063 KC643M	P92
HPRST500S4125 KC643M	P92
HPRST625S4075 KC643M	P92
HPRST625S4125 KC643M	P92
HPRST625S6125 KC643M	P92
HPRST750S4088 KC643M	P92
HPRST750S4150 KC643M	P92
HPRST750S6150 KC643M	P92
HSFS0125	H86, H128–129, J13–15, J52–53, J89
HSFS0500	H128–129
HSK100AHTS40085M	J92
HSK100AHTS50090M	J92
HSK100AKR32075M	K92
HSK100AKR50085M	K92
HSK100AKR63100M	K92
HSK100AKR80090M	K92
HSK100ASIF100070M	K50
HSK100ASIF70050M	K50
HSK100ASVUBB2124MCLB	K78
HSK100BT13075	K143
HSK63AAVS00B126MCLB	K83
HSK63AAVS0B143MCLB	K83
HSK63AAVS1B127MCLB	K83
HSK63AAVS2B139MCLB	K83
HSK63AAVS3B139MCLB	K83
HSK63ADL10200	O52
HSK63ADL12225	O52
HSK63ADL16225	O52
HSK63ADL20225	O52
HSK63ADL25250	O52
HSK63ADL32288	O52
HSK63AKR32075M	K92
HSK63AKR50080M	K92
HSK63ASIF70066M	K50
HSK63ASIF80063M	K50
HSK63ASVS4B139M	K84
HSK63ASVS5B139M	K84
HSK63ASVUBB1095MCLB	K76
HSK63ASVUBB2116MCLB	K78
HSK63FBHM1696	K132
HSK63FBHMKIT164M	K127, K131
HSK63FBHO1695	K128
HSK63FBHS24	K137
HSK63FBHS31	K137
HSK63FBHS40	K137
HSK63FBHS51	K137
HSK63FBHS67	K137
HSK63FBHS87	K137
HSK63RBHT24	K122
HSK63RBHT30	K122
HSK63RBHT40	K122
HSK63RBHT50	K122
HSK63RBHT66	K122
HSK63RBHT87	K122
HSK80ASIF70066M	K50
HTSR040R025M	J75
HTSR043R025M	J75
HTSR046R028M	J75
HTSR049R028M	J75
HTSR052R028M	J75
HTSR10CE	J75
HTSR10CI	J75
HTSR11CE	J75
HTSR11CI	J75
HTSR12CE	J75
HTSR12CI	J75
HTSR13CE	J75
HTSR13CI	J75
HTSR14CE	J75
HTSR14CI	J75
HUWTCL	E63
HUWTCR	E63
ICSN332 K9	B59, B63
ICSN432 K9	B72–74
ICSN433 K9	B58–65, B67–71, B75–76
ICSN442 K9	B66, B371
ICSN443 K9	B58–60
ICSN533 K9	B61–65, B67–69, B71, B74–76
ICSN543 K9	B58–60
ICSN633 K9	B59, B61–65, B68, B71, B74–76
ICSN643 K9	B58–60
ICSN846 K9	B63–64
IDSN322 K9	B87, B89–90, B92, B96
IDSN432 K9	B94–95
IDSN443 K9	B87–93, B96
IDSN533 K9	B89–90
IDSN543 K9	B87
IRSN33 K9	B98
IRSN43 K9	B98
IRSN44 K9	B98–99, B371
IRSN63 K9	B98
IRSN64 K9	B98
IRSN84 K9	B98
ISSN322 K9	B111, B113
ISSN332 K9	B113
ISSN432 K9	B115–117, B119
ISSN433 K9	B109, B111–113, B120
ISSN443 K9	B109–110
ISSN533 K9	B111–113
ISSN633 K9	B111–115, B119–120
ISSN643 K9	B109–110
ISSN846 K9	B111–112
ITSN322 K9	B140–142
ITSN323 K9	B131–135, B137, B139, B143
ITSN333 K9	B135–136
ITSN433 K9	B132–143
ITSN443 K9	B131
ITSN534 K9	B133–137
ITSN636 K9	B134, B137
IVSN322 K9	B150–155
IVSN432 K9	B150–151
IVSN433 K9	B152–155
IWSN322 K9	B163
IWSN433 K9	B163
JICM-JICF-ELB	C83
JICM-JICM-STR	C83
K067TM2RW075STN11D	W43
K102TM2RW100STN16D	W43
K1200Z328RF60HN09WSC	S82
K165TM2RW125STN27D	W43
K315A62RF60HN09C	S82
K400B14RF45HN09C	S77
K500B18RF45HN09C	S77
K600B164RF60HN09C	S82
KAP1250632	U7–8
KAP1250634	U7–8
KAP1250764	U7–8
KAP1871004	U7–8
KAP2251254	U7–8
KAP3121254	U7–8
KAP3502004	U7–8
KAP5502004	U8
KBDM250SD06	S104
KBDM300SD08	S104
KBDM400SD12	S104
KBDM500SD16	S104
KBDM600SD18	S104
KBDM800SD24	S104
KBFI10	I15
KBFI11	I15
KBFI12	I15
KBFI13	I15
KBFI14	I15
KBFI15	I15
KBFI16	I15
KBFI17	I15
KBFI18	I15
KBFI4	I15
KBFI5B	I15
KBFI6B	I15
KBFI7	I15
KBFI8	I15
KBFI9	I15
KCI1	V156
KCI2	V155–156
KCI3M	V155–156
KCRA150RN4303C125L400	V148
KCRA200RN4304S075L175	V149
KCRA200RN4306S075L175	V149
KCRA250RN4306S075L175	V149
KCRA250RN4309S075L175	V149
KCRA300RN4308S100L200	V149
KCRA300RN4311S100L200	V149
KDMB0250M0ERGP KC515M	V126
KDMB0250M0ERLD K115M	V126
KDMB025R394A025HN	V123
KDMB025R394A038HN	V123
KDMB025R591A025HN	V123
KDMB025R788A025HN	V123
KDMB0312M0ERGP KC505M	V126
KDMB0312M0ERLD K115M	V126
KDMB0312R551A031ST	V122
KDMB0312R591A038HN	V123
KDMB0375M0ERGP KC505M	V126
KDMB0375M0ERGP KC515M	V126
KDMB0375M0ERLD K115M	V126
KDMB0375R354A038SN	V121
KDMB0375R472A038HNC	V123
KDMB0375R591A038HNC	V123
KDMB0375R591A038ST	V122
KDMB0500M0ERGN KC515M	V126
KDMB0500M0ERGP KC505M	V126
KDMB0500M0ERGP KC515M	V126
KDMB0500M0ERHC KC530M	V126
KDMB0500M0ERLD K115M	V126
KDMB0500R472A050HNC	V123
KDMB0500R512A050SN	V121
KDMB0500R591A050SN	V121
KDMB0500R630A050HNC	V123
KDMB0500R630A050ST	V122
KDMB0625M0ERGP KC505M	V126
KDMB0625M0ERGP KC515M	V126
KDMB0625M0ERHC KC530M	V126
KDMB0625M0ERLD K115M	V126
KDMB0625R551A063SN	V121
KDMB0625R630A063SN	V121
KDMB0625R689A063HNC	V123
KDMB0750M0ERGN KC515M	V126
KDMB0750M0ERGP KC505M	V126
KDMB0750M0ERGP KC515M	V126
KDMB0750M0ERHC KC530M	V126
KDMB0750M0ERLD K115M	V126
KDMB0750R551A075HNC	V123
KDMB0750R630A075SN	V121
KDMB0750R689A075SN	V121
KDMB0750R748A075ST	V122
KDMB0750R827A075HNC	V123
KDMB0750R827A075SN	V121
KDMB1000M0ERGN KC515M	V126
KDMB1000M0ERGP KC505M	V126
KDMB1000M0ERGP KC515M	V126
KDMB1000M0ERHC KC530M	V126
KDMB1000M0ERLD K115M	V126
KDMB1000R630A100HNC	V123
KDMB1000R630A100SN	V121
KDMB1000R748A100SN	V121
KDMB1000R827A100ST	V122
KDMB1000R906A100HNC	V123
KDMB1250M0ERGP KC505M	V126
KDMB1250M0ERGP KC515M	V126
KDMB1250M0ERLD K115M	V126
KDMB1250R689A125SN	V121
KDMB1250R827A125SN	V121
KDMB1250R945A125ST	V122
KDMT05002ERGC KC515M	V134
KDMT05002ERGN KC515M	V134
KDMT05004ERGC KC515M	V134
KDMT05004ERGN KC515M	V134
KDMT0500R512A050SN	V132
KDMT0500R591A050SN	V132
KDMT0500R630A050HNC	V133
KDMT06254ERGN KC515M	V134
KDMT0625R630A063SN	V132
KDMT07502ERGC KC515M	V134
KDMT07502ERGN KC515M	V134
KDMT07504ERGN KC515M	V134
KDMT0750R630A075SN	V132
KDMT0750R748A075HNC	V133
KDMT0750R827A075SN	V132
KDMT0750SRHF KC515M	V135
KDMT10002ERGC KC515M	V134
KDMT10004ERGC KC515M	V134
KDMT1000R630A100SN	V132
KDMT1000R906A100SN	V132
KDR100R1003C100L600	V46
KDR100R1003M12L125	V44
KDR100R1003W100L200	V45
KDR125R1202C125L900	V53
KDR125R1202W100L200	V52
KDR150R1005S050L157	V47
KDR150R1204M16L150	V51
KDR150R1204S050L157	V54
KDR200R1006S075L200	V47
KDR200R1204S075L200	V54
KDR200R1205S075L200	V54
KDR200R1604S075L200	V58
KDR250R1207S075L200	V54
KDR300R1208S100L200	V54
KDR300R1208S125L200	V54
KDR300R1607S100L200	V58
KDR300R1607S125L200	V58
KDR400R1606S150L200	V58
KDR400R1608S150L200	V58
KDR40Z04S16RN12X	V62
KDR500R1608S150L200	V58
KDR50Z05S22RN12X	V62
KDR63Z06S22RN12X	V62
KDR80Z07S27RN12X	V62
KF2X100W0902C100L600	V37
KF2X100W0902C100L800	V37
KF2X100W0902M12L138	V36
KF2X125W0903C125L600	V37
KF2X125W0903C125L800	V37
KF2X125W0903M16L169	V36
KF2X150W0903C125L600	V37
KF2X150W0903C125L800	V37
KF2X150W0904M16L169	V36
KF2X150W0904S050L157	V38
KF2X200W0905S075L157	V38
KF2X200W0906S075L157	V38
KF2X250W0906S075L175	V38
KF2X300W0907S100L175	V38
KG2508ELDJ KC410M	T93
KG2512ELDJ KC410M	T93
KG2516ELDJ KC410M	T93
KG2520ELDJ KC410M	T93
KG2531ELDJ KC410M	T93
KG2540ELDJ KC410M	T93
KG2550ELDJ KC410M	T93
KG2564ELDJ KC410M	T93
KGEM0750R1SS075	H100
KGEM0750R3SS075	H100
KGEM1588R1WN20M	H100
KGEM1905R1WN20M	H100
KGEM1905R3WN20M	H100
KGIP0125N0189GD KCU45	H101
KGIP0300N0189GD KCU45	H101
KGMEL1650C	C67
KGMEL1650N	C145
KGMEL1665C	C67
KGMEL1665N	C145
KGMEL2050C	C67
KGMEL2050N	C145
KGMEL2065C	C67
KGMEL2065N	C145
KGMEL2450C	C67
KGMEL2465C	C67
KGMEL2465N	C145
KGMEL2525M50	C145
KGMEL2525M50C	C68
KGMEL2525M65	C145
KGMEL2525M65C	C68
KGMEL3232P50	C145
KGMEL3232P50C	C68
KGMEL3232P65	C145
KGMEL3232P65C	C68
KGMER1650C	C67
KGMER1650N	C145
KGMER1665C	C67

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KGMER1665N	C145
KGMER2050C	C67
KGMER2050N	C145
KGMER2065C	C67
KGMER2065N	C145
KGMER2450C	C67
KGMER2450N	C145
KGMER2465C	C67
KGMER2525M50	C145
KGMER2525M50C	C68
KGMER2525M65	C145
KGMER2525M65C	C68
KGMER3232P50	C145
KGMER3232P50C	C68
KGMER3232P65	C145
KGMER3232P65C	C68
KGMSL1650C	C65
KGMSL1650N	C143
KGMSL1665C	C65
KGMSL1665N	C143
KGMSL2050C	C65
KGMSL2050N	C143
KGMSL2065C	C65
KGMSL2065N	C143
KGMSL2450C	C65
KGMSL2450N	C143
KGMSL2465C	C65
KGMSL2465N	C143
KGMSL2525M50	C144
KGMSL2525M50C	C66
KGMSL2525M65	C144
KGMSL2525M65C	C66
KGMSL3232P50	C144
KGMSL3232P50C	C66
KGMSL3232P65	C144
KGMSL3232P65C	C66
KGMSR1650C	C65
KGMSR1650N	C143
KGMSR1665C	C65
KGMSR1665N	C143
KGMSR2050C	C65
KGMSR2050N	C143
KGMSR2065C	C65
KGMSR2065N	C143
KGMSR2450C	C65
KGMSR2450N	C143
KGMSR2465C	C65
KGMSR2465N	C143
KGMSR2525M50	C144
KGMSR2525M50C	C66
KGMSR2525M65	C144
KGMSR2525M65C	C66
KGMSR3232P50	C144
KGMSR3232P50C	C66
KGMSR3232P65	C144
KGMSR3232P65C	C66
KHDA0250J6ANA KC639M	P143
KHDA0312J6ANA KC639M	P143
KHDA0375J6ANA KC639M	P143
KHDA0500J6ANA KC639M	P143
KHDA0625J6ANA KC639M	P143
KHDA0750J6ANA KC639M	P143
KHSST08003	M124
KHSST08015	M124
KHSST08039	M124
KHSST08043	M36
KHSST08044	M40
KHSST08061	M36
KHSST08067	M124
KHSST08082	M124
KHSST08083	M127
KHSST08087	M124
KHSST08088	M127
KHSST08090	M36
KHSST08091	M40
KHSST08101	M124
KHSST08104	M36
KHSST08112	M124
KHSST08116	M124
KHSST08117	M127
KHSST08119	M36
KHSST08140	M124
KHSST08148	M124
KHSST08149	M127
KHSST08151	M124
KHSST08152	M127
KHSST08156	M36
KHSST08157	M36
KHSST08159	M40
KHSST08160	M40
KHSST08172	M124
KHSST08173	M127
KHSST08175	M36
KHSST08192	M124
KHSST08193	M127
KHSST08197	M127
KHSST08203	M36
KHSST08205	M36
KHSST08218	M124
KHSST08234	M124
KHSST08235	M127
KHSST08238	M124
KHSST08239	M127
KHSST08243	M36
KHSST08245	M36
KHSST08246	M40
KHSST08261	M124
KHSST08262	M127
KHSST08268	M124
KHSST08269	M127
KHSST08272	M124
KHSST08273	M127
KHSST08280	M36
KHSST08282	M36
KHSST08294	M124
KHSST08295	M127
KHSST08296	M36
KHSST08316	M125
KHSST08317	M128
KHSST08320	M125
KHSST08321	M128
KHSST08324	M125
KHSST08327	M128
KHSST08331	M36
KHSST08332	M36
KHSST08333	M40
KHSST08334	M36
KHSST08336	M36
KHSST08353	M125
KHSST08354	M128
KHSST08355	M125
KHSST08356	M128
KHSST08364	M36
KHSST08380	M125
KHSST08381	M128
KHSST08391	M36
KHSST08392	M128
KHSST08393	M36
KHSST08409	M125
KHSST08411	M125
KHSST08419	M36
KHSST08434	M125
KHSST08435	M128
KHSST08443	M36
KHSST08444	M36
KHSST08459	M125
KHSST08460	M128
KHSST08461	M125
KHSST08467	M36
KHSST08477	M125
KHSST08478	M128
KHSST08484	M36
KHSST08493	M125
KHSST08494	M128
KHSST08498	M36
KHSST08508	M125
KHSST08510	M125
KHSST08516	M36
KHSST08530	M125
KHSST08531	M128
KHSST08537	M36
KHSST08545	M125
KHSST08546	M128
KHSST08553	M125
KHSST08554	M128
KHSST08561	M125
KHSST08562	M128
KHSST08566	M36
KHSST08574	M125
KHSST08575	M128
KHSST08578	M36
KHSST08595	M125–126
KHSST08596	M128
KHSST08599	M36
KHSST08608	M126
KHSST08609	M128
KHSST08616	M126
KHSST08617	M128–129
KHSST08630	M126
KHSST08631	M129
KHSST08703	M157
KHSST08704	M157
KHSST08705	M157
KHSST08709	M157
KHSST08712	M157
KHSST08715	M157
KHSST08724	M157
KHSST09000	M124
KHSST09003	M127
KHSST09004	M124
KHSST09008	M124
KHSST09009	M127
KHSST09010	M124
KHSST09011	M127
KHSST09012	M124
KHSST09013	M127
KHSST09014	M124
KHSST09015	M127
KHSST09018	M125
KHSST09019	M128
KHSST09021	M128
KHSST09022	M125
KHSST09025	M128–129
KHSST09026	M125
KHSST09027	M128
KHSST09028	M125
KHSST09029	M128
KHSST09030	M125
KHSST09035	M128
KHSST09039	M128
KHSST09041	M128
KHSST09042	M126
KHSST09043	M128
KHSST09047	M129
KHSST09048	M126
KHSST09054	M130
KHSST09101	M36
KHSST09103	M36
KHSST09104	M36
KHSST09105	M36
KHSST09106	M36
KHSST09108	M36
KHSST09109	M36
KHSST09111	M36
KHSST09112	M36
KHSST09113	M36
KHSST09114	M36
KHSST09115	M36
KHSST09116	M36
KHSST09119	M36
KHSST09120	M36
KHSST09121	M36
KHSST09122	M36
KHSST09123	M36
KHSST09124	M36
KHSST09125	M36
KHSST09126	M36
KHSST09127	M36
KHSST09128	M36
KHSST09129	M41
KHSST09130	M41
KHSST09131	M41
KHSST09132	M41
KHSST09133	M41
KHSST09135	M41
KHSST09137	M157
KHSST09140	M157
KHSST09143	M157
KHSST09147	M157
KHSST09151	M157
KHSST09608	M36
KHSST09609	M36
KHSST09611	M36
KHSST09615	M36
KHSST27709	M130
KHSST27710	M131
KHSST27711	M41
KHSST27719	M41
KHSST27721	M130
KHSST27722	M131
KHSST27723	M41
KHSST27729	M130
KHSST27730	M131
KHSST27731	M41
KHSST27737	M130
KHSST27738	M131
KHSST27739	M41
KHSST27741	M130
KHSST27742	M131
KHSST27743	M41
KHSST27749	M130
KHSST27750	M131
KHSST27751	M41
KHSST27757	M130
KHSST27758	M131
KHSST27759	M41
KHSST27765	M130
KHSST27766	M131
KHSST27767	M41
KHSST27773	M130
KHSST27781	M130
KHSST27787	M41
KHSST27793	M130
KHSST27796	M130
KHSST27798	M41
KHSST27800	M130
KHSST27809	M130
KHSST28002	M157
KHSST28003	M128–129
KHSST28004	M126
KHSST28008	M129
KHSST28009	M126
KHSST28015	M129
KHSST28016	M126
KHSST28020	M129
KHSST28021	M126
KHSST28028	M129
KHSST28029	M126
KHSST28032	M129
KHSST28033	M126
KHSST28040	M126
KHSST28043	M126
KHSST28047	M102
KHSST28048	M104
KHSST28049	M102
KHSST28053	M132
KHSST28057	M158
KHSST28058	M158
KHSST28060	M157
KHSST28062	M102
KHSST28064	M132
KHSST28067	M158
KHSST28068	M158
KHSST28072	M38
KHSST28073	M104
KHSST28074	M102
KHSST28077	M134
KHSST28078	M133
KHSST28080	M38
KHSST28081	M102
KHSST28082	M104
KHSST28083	M102
KHSST28085	M133
KHSST28086	M132
KHSST28091	M158
KHSST28092	M158
KHSST28093	M158
KHSST28094	M158

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KHSST28102	M128
KHSST28104	M158
KHSST28106	M157
KHSST28107	M157
KHSST28109	M157
KHSST28111	M36
KHSST28112	M36
KHSST28113	M36
KHSST28114	M129
KHSST28115	M126
KHSST28116	M125
KHSST28117	M128
KHSST28118	M126
KHSST28119	M128
KHSST28120	M125
KHSST28121	M125
KHSST28122	M128
KHSST28123	M125
KHSST28124	M129
KHSST28125	M126
KHSST28127	M125
KHSST28128	M127
KHSST28129	M124
KHSST28130	M127
KHSST28131	M127
KHSST28132	M124
KHSST28133	M127
KHSST28134	M124
KHSST28135	M127
KHSST28136	M124
KHSST28137	M102
KHSST28139	M157
KHSST28140	M157
KHSST28141	M157
KHSST28142	M157
KHSST28152	M41
KHSST28162	M39
KHSST28163	M104
KHSST28165	M102
KHSST28167	M132
KHSST28172	M158
KHSST28173	M158
KHSST28177	M157
KHSST28178	M157
KHSST28181	M157
KHSST28184	M132
KHSST28187	M102
KHSST28188	M104
KHSST28189	M102
KHSST28192	M38
KHSST28194	M134
KHSST28195	M133
KHSST28196	M158
KHSST28197	M158
KHSST28201	M102
KHSST28204	M38
KHSST28207	M132
KHSST28209	M38
KHSST28210	M102
KHSST28211	M102
KHSST28212	M104
KHSST28213	M102
KHSST28217	M134
KHSST28218	M133
KHSST28219	M40
KHSST28220	M38
KHSST28221	M102
KHSST28223	M102
KHSST28226	M134
KHSST28228	M39
KHSST28231	M102
KHSST28233	M132
KHSST28235	M128–129
KHSST28239	M132
KHSST28242	M125–126
KHSST28244	M36
KHSST28245	M36
KHSST28246	M37
KHSST28247	M37
KHSST28248	M36
KHSST28249	M36
KHSST28250	M37
KHSST28251	M37
KHSST28252	M36
KHSST28253	M36
KHSST28254	M36
KHSST28255	M36
KHSST28256	M36
KHSST28257	M36
KHSST28258	M36
KHSST28259	M36
KHSST28260	M36
KHSST28261	M36
KHSST28262	M36
KHSST28263	M36
KHSST28264	M36
KHSST28265	M36
KHSST28266	M36
KHSST28267	M36
KHSST28268	M36
KHSST28269	M36
KHSST28270	M36
KHSST28271	M36
KHSST28272	M36
KHSST28273	M36
KHSST28274	M36
KHSST28275	M36
KHSST28276	M36
KHSST28277	M36
KHSST28278	M129
KHSST28279	M126
KHSST28281	M126
KHSST28282	M129
KHSST28283	M126
KHSST28286	M126
KHSST28287	M128
KHSST28289	M128
KHSST28290	M128
KHSST28291	M125
KHSST28293	M125
KHSST28294	M128
KHSST28295	M128
KHSST28296	M125
KHSST28298	M125
KHSST28301	M128
KHSST28302	M126
KHSST28304	M128
KHSST28305	M126
KHSST28308	M128
KHSST28309	M125
KHSST28311	M128
KHSST28313	M128
KHSST28314	M125
KHSST28317	M128
KHSST28318	M125
KHSST28319	M128
KHSST28323	M125
KHSST28329	M129
KHSST28330	M126
KHSST28338	M129
KHSST28339	M126
KHSST28340	M128
KHSST28341	M125
KHSST28342	M128
KHSST28343	M125
KHSST28344	M128
KHSST28345	M126
KHSST28346	M126
KHSST28347	M128
KHSST28348	M125
KHSST28349	M125
KHSST28350	M128
KHSST28351	M125
KHSST28352	M126
KHSST28353	M128
KHSST28356	M125
KHSST28358	M125
KHSST28359	M125
KHSST28361	M125
KHSST28364	M125
KHSST28365	M126
KHSST28366	M125
KHSST28368	M127
KHSST28371	M127
KHSST28372	M124
KHSST28373	M127
KHSST28374	M127
KHSST28375	M127
KHSST28376	M124
KHSST28379	M127
KHSST28380	M124
KHSST28384	M127
KHSST28388	M127
KHSST28389	M124
KHSST28394	M127
KHSST28395	M127
KHSST28396	M124
KHSST28397	M124
KHSST28399	M127
KHSST28400	M124
KHSST28401	M124
KHSST28403	M127
KHSST28406	M127
KHSST28407	M124
KHSST28410	M124
KHSST28412	M127
KHSST28413	M124
KHSST28416	M127
KHSST28417	M124
KHSST28419	M127
KHSST28420	M127
KHSST28423	M127
KHSST28425	M124
KHSST28426	M124
KHSST28427	M124
KHSST28428	M124
KHSST28429	M127
KHSST28433	M124
KHSST28440	M124
KHSST28443	M157
KHSST28444	M157
KHSST28445	M157
KHSST28446	M157
KHSST28447	M41
KHSST28448	M41
KHSST28455	M131
KHSST28458	M131
KHSST28462	M131
KHSST28465	M131
KHSST28476	M103
KHSST28478	M103
KHSST28526	M39
KHSST28527	M39
KHSST28528	M39
KHSST28529	M39
KHSST28531	M39
KHSST28532	M39
KHSST28534	M39
KHSST28670	M102
KHSST28671	M104
KHSST28672	M102
KHSST28674	M102
KHSST28675	M132
KHSST28681	M41
KHSST28682	M130
KHSST28683	M103
KHSST28692	M103
KHSST28695	M130
KHSST28698	M130
KHSST28700	M103
KHSST28707	M103
KHSST28709	M103
KHSST28716	M103
KHSST28721	M103
KHSST28723	M103
KHSST28726	M103
KHSST28730	M40
KHSST28731	M36
KHSST28732	M36
KHSST28733	M36
KHSST28737	M38
KHSST28738	M102
KHSST28739	M104
KHSST28740	M102
KHSST28742	M133
KHSST28743	M40
KHSST28744	M38
KHSST28745	M102
KHSST28746	M104
KHSST28747	M102
KHSST28751	M134
KHSST28752	M133
KHSST28757	M36
KHSST28761	M102
KHSST28762	M102
KHSST28774	M102
KHSST28776	M38
KHSST28779	M102
KHSST28780	M104
KHSST28781	M133
KHSST28784	M38
KHSST28785	M102
KHSST28786	M104
KHSST28787	M102
KHSST28791	M133
KIPR062RP21229	V156
KIPR075RP21332	V156
KIPR100RP32438	V156
KIPR100RP32M1203	V155
KIPR125RP43540	V156
KIPR125RP43555	V156
KIPR125RP43M1603	V155
KIPR150RP43655	V156
KISBR150SP10T30F	T107
KISBR200SP10T30F	T107
KISR075SP10T30F	T108
KISR100SP10T30F	T108
KISR125SP10T30F	T108
KISR150SP10T30F	T108
KISZR125SD430C4A02	V140
KISZR150SD430C5A03	V140
KISZR200SD430C6A04	V140
KL23	B132, B134–136
KL33	B63, B71
KL33L	B93, B96, B139, B143, B163
KL34	B111, B113
KL34L	B63, B89–90, B96, B98, B132–137, B139, B143, B152–155
KL44	B69, B71, B76, B114
KL46	B60–65, B69–71, B75–76, B98, B111–113, B120, B132–139, B143, B152–155, B163
KL46L	B66, B89–90, B92–93, B96, B99, B371
KL58	B61–65, B69, B71, B75–76, B89–90, B111–113, B133–137
KL68	B61–65, B71, B75–76, B98, B111–114, B120
KL68L	B134, B137
KL810	B63–64, B98, B111–112
KLM33	B72, B115–119
KLM33L	B94, B140–142
KLM34L	B140–142
KLM43	B72–74, B115–119
KLM46	B72, B74, B94–95, B140–142
KLM46S	B72–74, B94–95, B115–117, B119
KLM54	B115–117, B119
KLM58	B74
KLM68	B74, B115, B119
KLS20C	T78
KLSS0714C	S30, S32, V19, V26
KM25LSEL1630	D77
KM25LSER1630	D77
KM25LSSL1630	D77
KM25LSSL2230	D77
KM25LSSR1630	D77
KM25LSSR2230	D77
KM25NEL330	D30
KM25NEL430	D30
KM25NER230	D30
KM25NER330	D30
KM25NER430	D30
KM25NSL230	D30
KM25NSL330	D30
KM25NSL430	D30
KM25NSR230	D30
KM25NSR330	D30
KM32FBHS24	K137
KM32FBHS31	K137

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KM32RBHT24	K122
KM32RBHT30	K122
KM40FBHO1660	K128
KM40FBHS40	K137
KM40RBHT40	K122
KM40TSAVS00B111MCLB	K82
KM40TSAVS0B128MCLB	K82
KM40TSAVS1B112MCLB	K82
KM40TSAVS2B127MCLB	K82
KM40TSE16JNEL2 KWH	D40
KM40TSE16JNER2 KWH	D40
KM40TSKGMEL50C	C70, C147
KM40TSKGMER50C	C70, C147
KM40TSKGMSL50C	C69, C146
KM40TSKGMSR50C	C69, C146
KM40TSLSEL16N	D79
KM40TSLSER16N	D79
KM40TSLSER22N	D79
KM40TSLSER27N	D79
KM40TSLSSL16	D78
KM40TSLSSL22	D78
KM40TSLSSL27	D78
KM40TSLSSR16	D78
KM40TSLSSR22	D78
KM40TSLSSR27	D78
KM40TSNEL2	D31
KM40TSNEL3	D31
KM40TSNEL4	D31
KM40TSNER2	D31
KM40TSNER3	D31
KM40TSNER4	D31
KM40TSNRL3045M	D33
KM40TSNRR3045M	D33
KM40TSNSL2	D33
KM40TSNSL3	D33
KM40TSNSL4	D33
KM40TSNSR2	D33
KM40TSNSR3	D33
KM40TSNSR4	D33
KM40TSS12ENEL2	D39
KM40TSS12ENER2	D39
KM40TSS16FNEL2	D39
KM40TSS16FNER2	D39
KM40TSS20GNEL2	D39
KM40TSS20GNER2	D39
KM40TSS25ENEL2	D39
KM40TSS25ENEL3	D39
KM40TSS25ENER2	D39
KM40TSS25ENER3	D39
KM40TSS25HNEL3	D39
KM40TSS25HNER2	D39
KM40TSS25HNER3	D39
KM40TSS32GNEL3	D39
KM40TSS32GNER3	D39
KM40TSS32JNER3	D39
KM4X100NEL3	D32
KM4X100NEL4	D32
KM4X100NEL5	D32
KM4X100NEL6	D32
KM4X100NER3	D32
KM4X100NER4	D32
KM4X100NER5	D32
KM4X100NER6	D32
KM4X63KGMEL50C	C71, C149
KM4X63KGMEL65C	C71, C149
KM4X63KGMER50C	C71, C149
KM4X63KGMER65C	C71, C149
KM4X63KGMSL50C	C71, C148–149
KM4X63KGMSL65C	C71, C148
KM4X63KGMSR50C	C71, C148–149
KM4X63KGMSR65C	C71, C148
KM50FBHO1670	K128
KM50FBHS51	K137
KM50FBHS67	K137
KM50FBHS87	K137
KM50RBHT50	K122
KM50RBHT66	K122
KM50RBHT87	K122
KM50SVS4B125M	K84
KM50SVS5B125M	K84
KM50TSAVS00B117MCLB	K82
KM50TSAVS0B134MCLB	K82
KM50TSAVS1B118MCLB	K82
KM50TSAVS2B128MCLB	K82
KM50TSAVS3B128MCLB	K82
KM50TSFBHM1677	K132
KM50TSFBHMKIT164M	K127, K131
KM50TSKGMEL50C	C70, C147
KM50TSKGMEL65C	C70, C147
KM50TSKGMER50C	C70, C147
KM50TSKGMER65C	C70, C147
KM50TSKGMSL50C	C69, C146
KM50TSKGMSL65C	C69, C146
KM50TSKGMSR50C	C69, C146
KM50TSKGMSR65C	C69, C146
KM50TSSVUBB2100MCLB	K77
KM63BT13065	K141
KM63SVS4B110M	K84
KM63SVS5B110M	K84
KM63TSAVS3B130MCLB	K82
KM63TSKGMEL50C	C70, C147
KM63TSKGMEL65C	C70, C147
KM63TSKGMER50C	C70, C147
KM63TSKGMER65C	C70, C147
KM63TSKGMSL50C	C69, C146
KM63TSKGMSL65C	C69, C146
KM63TSKGMSR50C	C69, C146
KM63TSKGMSR65C	C69, C146
KM63UTFBHS116	K137
KM63UTFBHS87	K137
KM63UTRBHT115	K122
KM63UTRBHT87	K122
KM63XMZKGMELF50CY	C70, C147
KM63XMZKGMELF65CY	C70, C147
KM63XMZKGMER50CY	C70, C147
KM63XMZKGMER65CY	C70, C147
KM63XMZKGMSLF50CY	C69, C146
KM63XMZKGMSLF50Y	C148
KM63XMZKGMSLF65Y	C148
KM63XMZKGMSR50CY	C69, C146
KM63XMZKGMSR50Y	C148
KM63XMZKR5060Y	K92
KM80ATCKGMEL50C	C70, C147
KM80ATCKGMEL65C	C70, C147
KM80ATCKGMER50C	C70, C147
KM80ATCKGMER65C	C70, C147
KM80ATCKGMSL50C	C69, C146
KM80ATCKGMSR50C	C69, C146
KM80BT13070	K141
KM80SVS6B150M	K84
KM80TSKGMEL50C	C70, C147
KM80TSKGMEL65C	C70, C147
KM80TSKGMER50C	C70, C147
KM80TSKGMER65C	C70, C147
KM80TSKGMSL50C	C69, C146
KM80TSKGMSL65C	C69, C146
KM80TSKGMSR50C	C69, C146
KM80TSKGMSR65C	C69, C146
KMDA0250J6ANA KC639M	P142
KMDA0312J6ANA KC639M	P142
KMDA0375J6ANA KC639M	P142
KMDA0500J6ANA KC639M	P142
KMDA0625J6ANA KC639M	P142
KMDA0750J6ANA KC639M	P142
KMSP315IP	B59, B87, B92, B113, B131, B150–151, B154, B163
KMSP415IP	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B131, B150–151, B163
KMSP4S15IP	B68
KMSP515IP	B58–60, B67–68, B87
KMSP5S15IP	B68
KMSP625IP	B58–60, B68, B98, B109–110
KNUX160405L1 KCM15B	E35
KNUX160405L1 KCM25B	E35
KNUX160405L2 KU10	E35
KNUX160405R1 KCM15B	E35
KNUX160405R1 KCM25B	E35
KNUX160405R1 KCU25	E35
KNUX160405R2 KCM25B	E35
KNUX160410R1 KCM25B	E35
KNUX160410R2 KCM25B	E35
KR32AVS00B099MCLB	K82
KR32AVS0B116MCLB	K82
KR32AVS1B100MCLB	K82
KR32AVS2B115MCLB	K82
KR32AVS3B115MCLB	K82
KR32KR32038050M	K93
KR32KR32038100M	K93
KR32KR32047050M	K93
KR32KR32047100M	K93
KR32SVUBB1060MCLB	K76
KR32SVUBB2085MCLB	K77
KR50KR50065050M	K93
KR50KR50065100M	K93
KR50SVS4B094M	K83
KR50SVS5B094M	K83
KR50SVU65110MCLB	K88
KR50SVUBB2075MCLB	K77
KR63KR63085050M	K93
KR63KR63085100M	K93
KR63SVS6B126M	K83
KR80KR80095050M	K93
KR80KR80095100M	K93
KR80SVU92152MCLB	K88
KRBB10FABDRS204C	K78, K100
KRBB10SCFPR06085C	K78, K100
KRBB10SCFPR06110C	K78, K101
KRBB10SCFPR06135C	K78, K101
KRBB10SCLDR4060C	K78, K100
KRBB16SCFPR06085A	K79, K102
KRBB16SCFPR0611A	K79, K102
KRBB16SCFPR06135A	K79, K102
KRBB16SCFPR0616A	K79, K103
KRBB16SCFPR0619A	K79, K103
KRBB16SCFPR0622A	K79, K103
KRBB16SCLDRS406A	K79, K102
KRCSCFPR061A	K86
KRCSCFPR061B	K86
KRCSCFPR061C	K86
KRCSCFPR061D	K86
KRCSCFPR061E	K89, K108–109
KRCSCFPR061F	K89, K110–114
KRCSCFPR061L	K86
KRCSCFPR061W	K85
KRCSCFPR061X	K85
KRCSCFPR061Y	K85
KRCSCFPR062A	K86
KRCSCFPR062B	K86
KRCSCFPR062C	K86
KRCSCFPR062D	K86
KRCSCFPR062E	K89, K108–109
KRCSCFPR062F	K89, K110–114
KRCSCFPR062L	K86
KRCSCFPR062W	K85
KRCSCFPR062X	K85
KRCSCFPR062Y	K85
KRCSCFPR063A	K86
KRCSCFPR063B	K86
KRCSCFPR063C	K86
KRCSCFPR063D	K86
KRCSCFPR063E	K89, K108–109
KRCSCFPR063F	K89, K110–114
KRCSCFPR063L	K86
KRCSCFPR063W	K85
KRCSCFPR063X	K85
KRCSCFPR063Y	K85
KRCSTFPR113F	K90
KRCW032A	K80
KRDCKR32M	K91–93
KRDCKR50M	K91–93
KRDCKR63M	K91–93
KRDCKR80M	K91–93
KRDE025010M	K80
KRDE033010M	K80
KRDE043010M	K80
KRDE065012M	K80
KRDE070019M	K89, K108
KRDE083019M	K89, K108
KRDE096019M	K89, K109
KRDE101023M	K89, K110
KRDE120023M	K89, K110–111
KRDE139026M	K89, K111
KRDE156026M	K89, K112
KRDE175026M	K89, K113
KRDE193026M	K89, K114
KRDEA012AM	K79
KRDEA046AM	K79
KRDEA051AM	K79
KRM018030CLB004NE	K94
KS254BLNE1240	U18
KS255BLNE1245	U18
KS33SNH1103	U13
KS34LNE1240	U17
KS426SNH1102	U13
KS43SNH1103	U13
KS44BLNE1240	U18
KS44LNE1240	U17
KS45BLNE1245	U18
KS45LNE1245	U17
KS46BLNE1245	U18
KS46LNE1245	U17
KS48BLNE1255	U18
KS48LNE1255	U17
KS526SNH1102	U13
KS53SNH1103	U13
KS54LNE1240	U17
KS55LNE1245	U17
KS56LNE1245	U17
KS58LNE1255	U17
KS63SNH1103	U13
KS64LNE1240	U17
KS65LNE1245	U17
KS66LNE1245	U17
KS68LNE1255	U17
KS84LNE1240	U17
KS85LNE1245	U17
KS86LNE1245	U17
KS88LNE1255	U17
KSCM125R16CAB40U	S109
KSCMA90QFBF KD1400	S110
KSCMA90QFBF KD1420	S110
KSCMA90UNBF KD1400	S110
KSCMA90UNBF KD1420	S110
KSCMCA75HR KD1420	S111
KSCMCA75PT KD1420	S111
KSCMCA75QF KD1420	S111
KSCMCA75UN KD1420	S111
KSCMCA90QF KD1420	S110
KSCMCA90QFBF KD1420	S110
KSCMCA90UN KD1420	S110
KSCMCA90UNBF KD1420	S110
KSDR100031E0W0S KD1400	S105
KSDR100031E0W0S KD1425	S105
KSDR100031E0W4S KD1400	S105
KSDR100031E0W4S KD1425	S105
KSDR100031E1W4S KD1400	S105
KSDR100031E1W4S KD1425	S105
KSDR100031E3W4S KD1400	S106
KSDR100031E3W4S KD1425	S106
KSDR100093E1W4S KD1400	S105
KSDR100093E1W4S KD1425	S105
KSDR102S KD1400	S106
KSDR102S KD1425	S106
KSEM0493R1SSF075	H81
KSEM0493R1SSF075F45	H86
KSEM0500HP KC7315	H52
KSEM0500HPCCL KC7410	H60
KSEM0500HPG KC7315	H54
KSEM0500HPG KCPM45	H57
KSEM0500HPL KC7320	H62
KSEM0500R10SS075	H79
KSEM0500R3SS075	H77
KSEM0500R3SSF075	H82
KSEM0500R5SS050	H77
KSEM0500R5SS075	H77
KSEM0500R5SSF075	H82
KSEM0500R7SS050	H79
KSEM0500R7SS075	H79
KSEM0500SPL KCMS35	H64
KSEM0509HPCCL KC7410	H60
KSEM0509HPG KC7315	H54
KSEM0509HPG KCPM45	H57
KSEM0509HPL KC7320	H62
KSEM0509R10SS075	H79
KSEM0509R3SS075	H77
KSEM0509R3SSF075	H82

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEM0509R5SS075	H77
KSEM0509R5SSF075	H82
KSEM0509R7SS075	H79
KSEM0516HP KC7315	H52
KSEM0516HPCCL KC7410	H60
KSEM0516HPG KC7315	H54
KSEM0516HPL KC7320	H62
KSEM0516R10SS075	H79
KSEM0516R3SSF075	H82
KSEM0516R5SS075	H77
KSEM0516R5SSF075	H82
KSEM0516R7SS075	H79
KSEM0531R10SS075	H79
KSEM0531R3SS075	H77
KSEM0531R3SSF075	H82
KSEM0531R5SS075	H77
KSEM0531R5SSF075	H82
KSEM0531R7SS075	H79
KSEM0532R1SSF075	H81
KSEM0532R1SSF075F45	H86
KSEM0547HP KC7315	H52
KSEM0547HPCCL KC7410	H60
KSEM0547HPG KC7315	H54
KSEM0547HPG KCPM45	H57
KSEM0547HPL KC7320	H62
KSEM0547R10SS075	H79
KSEM0547R3SS075	H77
KSEM0547R3SSF075	H82
KSEM0547R5SS075	H77
KSEM0547R5SSF075	H82
KSEM0547R7SS075	H79
KSEM0563HP KC7315	H52
KSEM0563HPCCL KC7410	H60
KSEM0563HPG KC7315	H54
KSEM0563HPG KCPM45	H57
KSEM0563HPL KC7320	H62
KSEM0563R10SS075	H79
KSEM0563R3SS075	H77
KSEM0563R3SSF075	H82
KSEM0563R5SS075	H77
KSEM0563R5SSF075	H82
KSEM0563R7SS075	H79
KSEM0563SPL KCMS35	H64
KSEM0571R1SSF075	H81
KSEM0571R1SSF075F45	H86
KSEM0578HP KC7315	H52
KSEM0578HPCCL KC7410	H60
KSEM0578HPG KC7315	H54
KSEM0578HPG KCPM45	H57
KSEM0578HPL KC7320	H62
KSEM0578R10SS075	H79
KSEM0578R3SS075	H77
KSEM0578R3SSF075	H82
KSEM0578R5SS075	H77
KSEM0578R5SSF075	H82
KSEM0578R7SS075	H79
KSEM0594HP KC7315	H52
KSEM0594HPG KC7315	H54
KSEM0594HPG KCPM45	H57
KSEM0594HPL KC7320	H62
KSEM0594R10SS075	H79
KSEM0594R3SS075	H77
KSEM0594R3SSF075	H82
KSEM0594R5SS075	H77
KSEM0594R5SSF075	H82
KSEM0594R7SS075	H79
KSEM0609HPCCL KC7410	H60
KSEM0609HPG KC7315	H54
KSEM0609HPL KC7320	H62
KSEM0609R10SS075	H79
KSEM0609R3SS075	H77
KSEM0609R3SSF075	H82
KSEM0609R5SS075	H77
KSEM0609R5SSF075	H82
KSEM0609R7SS075	H79
KSEM0625HP KC7315	H52
KSEM0625HPCCL KC7410	H60
KSEM0625HPG KC7315	H54
KSEM0625HPG KCPM45	H57
KSEM0625HPL KC7320	H62
KSEM0625R10SS075	H79
KSEM0625R1SSF075	H81
KSEM0625R1SSF075F45	H86
KSEM0625R3SS075	H77
KSEM0625R3SSF075	H82
KSEM0625R5SS075	H77
KSEM0625R5SSF075	H82
KSEM0625R7SS075	H79
KSEM0625R8SSF075	H84
KSEM0625SPL KCMS35	H64
KSEM0634HP KC7315	H52
KSEM0634HPCCL KC7410	H60
KSEM0634HPG KC7315	H54
KSEM0634HPG KCPM45	H57
KSEM0634HPL KC7320	H62
KSEM0634R10SS075	H79
KSEM0634R3SS075	H77
KSEM0634R3SSF075	H82
KSEM0634R5SS075	H77
KSEM0634R7SS075	H79
KSEM0634SPL KCMS35	H64
KSEM0641HP KC7315	H52
KSEM0641HPCCL KC7410	H60
KSEM0641HPG KC7315	H54
KSEM0641HPG KCPM45	H57
KSEM0641HPL KC7320	H62
KSEM0641R3SS075	H77
KSEM0641R3SSF075	H82
KSEM0641R5SS075	H77
KSEM0641SPL KCMS35	H64
KSEM0656HP KC7315	H52
KSEM0656HPCCL KC7410	H60
KSEM0656HPG KC7315	H54
KSEM0656HPG KCPM45	H57
KSEM0656HPL KC7320	H62
KSEM0656R10SS075	H79
KSEM0656R3SS075	H77
KSEM0656R5SS075	H77
KSEM0656R7SS075	H79
KSEM0656SPL KCMS35	H64
KSEM0672HP KC7315	H52
KSEM0672HPCCL KC7410	H60
KSEM0672HPG KC7315	H54
KSEM0672HPG KCPM45	H57
KSEM0672HPL KC7320	H62
KSEM0672R3SS075	H77
KSEM0672R3SSF075	H82
KSEM0672R5SS075	H77
KSEM0688HP KC7315	H52
KSEM0688HPCCL KC7410	H60
KSEM0688HPG KC7315	H54
KSEM0688HPG KCPM45	H57
KSEM0688HPL KC7320	H62
KSEM0688R10SS075	H79
KSEM0688R3SS075	H77
KSEM0688R3SSF075	H82
KSEM0688R5SS075	H77
KSEM0688R5SSF075	H82
KSEM0688R7SS075	H79
KSEM0688R8SSF075	H84
KSEM0688SPL KCMS35	H64
KSEM0703HP KC7315	H52
KSEM0703HPG KC7315	H54
KSEM0703HPG KCPM45	H57
KSEM0703HPL KC7320	H62
KSEM0703R3SS075	H77
KSEM0703R3SSF075	H82
KSEM0703R5SS075	H77
KSEM0709R1SSF075	H81
KSEM0709R1SSF075F45	H86
KSEM0719HP KC7315	H52
KSEM0719HPCCL KC7410	H60
KSEM0719HPG KC7315	H54
KSEM0719HPG KCPM45	H57
KSEM0719HPL KC7320	H62
KSEM0719R10SS075	H79
KSEM0719R3SS075	H77
KSEM0719R5SS075	H77
KSEM0719R7SS075	H79
KSEM0734HP KC7315	H52
KSEM0734HPG KC7315	H54
KSEM0734HPG KCPM45	H57
KSEM0734HPL KC7320	H62
KSEM0734R3SS075	H77
KSEM0734R3SSF075	H82
KSEM0734R5SS075	H77
KSEM0750FEG KCPM45	H67
KSEM0750HP KC7315	H52
KSEM0750HPCCL KC7410	H60
KSEM0750HPG KC7315	H54
KSEM0750HPG KCPM45	H57
KSEM0750HPL KC7320	H62
KSEM0750R10SS075	H79
KSEM0750R10SS100	H79
KSEM0750R3SS075	H77
KSEM0750R3SS100	H77
KSEM0750R3SSF075	H82
KSEM0750R3SSF100	H82
KSEM0750R5SS075	H77
KSEM0750R5SS100	H77
KSEM0750R5SSF075	H82
KSEM0750R5SSF100	H82
KSEM0750R7SS075	H79
KSEM0750R7SS100	H79
KSEM0750R8SSF075	H84
KSEM0750R8SSF100	H84
KSEM0750SPL KCMS35	H64
KSEM0757HP KC7315	H52
KSEM0757HPG KCPM45	H57
KSEM0757HPL KC7320	H62
KSEM0757SPL KCMS35	H64
KSEM0758HPG KC7315	H54
KSEM0758HPG KCPM45	H57
KSEM0758HPL KC7320	H62
KSEM0758SPL KCMS35	H64
KSEM0759HP KC7315	H52
KSEM0759HPCCL KC7410	H60
KSEM0759HPG KC7315	H54
KSEM0759HPG KCPM45	H57
KSEM0759HPL KC7320	H62
KSEM0759R10SS100	H79
KSEM0759R3SS075	H77
KSEM0759R3SSF100	H82
KSEM0759R5SS075	H77
KSEM0759R7SS075	H79
KSEM0759SPL KCMS35	H64
KSEM0766HP KC7315	H52
KSEM0766HPCCL KC7410	H60
KSEM0766HPG KC7315	H54
KSEM0766HPG KCPM45	H57
KSEM0766HPL KC7320	H62
KSEM0766R3SS100	H77
KSEM0766R3SSF100	H82
KSEM0766R5SS100	H77
KSEM0766SPL KCMS35	H64
KSEM0781FEG KCPM45	H67
KSEM0781HP KC7315	H52
KSEM0781HPCCL KC7410	H60
KSEM0781HPG KC7315	H54
KSEM0781HPG KCPM45	H57
KSEM0781HPL KC7320	H62
KSEM0781R10SS100	H79
KSEM0781R3SS100	H77
KSEM0781R3SSF100	H82
KSEM0781R5SS100	H77
KSEM0781R7SS100	H79
KSEM0781SPL KCMS35	H64
KSEM0788R1SSF100	H81
KSEM0788R1SSF100F45	H86
KSEM0797HP KC7315	H52
KSEM0797HPCCL KC7410	H60
KSEM0797HPG KC7315	H54
KSEM0797HPG KCPM45	H57
KSEM0797HPL KC7320	H62
KSEM0797R3SS100	H77
KSEM0797R3SSF100	H82
KSEM0797R5SS100	H77
KSEM0797SPL KCMS35	H64
KSEM0813HP KC7315	H52
KSEM0813HPCCL KC7410	H60
KSEM0813HPG KC7315	H54
KSEM0813HPG KCPM45	H57
KSEM0813HPL KC7320	H62
KSEM0813R10SS100	H79
KSEM0813R3SS100	H77
KSEM0813R3SSF100	H82
KSEM0813R5SS100	H77
KSEM0813R5SSF100	H82
KSEM0813R7SS100	H79
KSEM0813R8SSF100	H84
KSEM0813SPL KCMS35	H64
KSEM0844HP KC7315	H52
KSEM0844HPCCL KC7410	H60
KSEM0844HPG KC7315	H55
KSEM0844HPG KCPM45	H57
KSEM0844HPL KC7320	H62
KSEM0844R10SS100	H79
KSEM0844R3SS100	H77
KSEM0844R5SS100	H77
KSEM0844R7SS100	H79
KSEM0859HP KC7315	H52
KSEM0859HPG KC7315	H55
KSEM0859HPG KCPM45	H57
KSEM0859HPL KC7320	H62
KSEM0859R3SS100	H77
KSEM0859R3SSF100	H82
KSEM0859R5SS100	H77
KSEM0867R1SSF100	H81
KSEM0867R1SSF100F45	H86
KSEM0875HP KC7315	H52
KSEM0875HPCCL KC7410	H60
KSEM0875HPG KC7315	H55
KSEM0875HPG KCPM45	H57
KSEM0875HPL KC7320	H62
KSEM0875R10SS100	H79
KSEM0875R3SS100	H77
KSEM0875R3SS125	H77
KSEM0875R3SSF100	H82
KSEM0875R3SSF125	H82
KSEM0875R5SS100	H77
KSEM0875R5SS125	H77
KSEM0875R5SSF100	H82
KSEM0875R5SSF125	H82
KSEM0875R7SS100	H79
KSEM0875R7SS125	H79
KSEM0875R8SSF100	H84
KSEM0875R8SSF125	H84
KSEM0875SPL KCMS35	H64
KSEM0884HP KC7315	H52
KSEM0884HPCCL KC7410	H60
KSEM0884HPG KC7315	H55
KSEM0884HPG KCPM45	H57
KSEM0884HPL KC7320	H62
KSEM0884R10SS100	H79
KSEM0884R3SS100	H77
KSEM0884R3SSF100	H82
KSEM0884R5SS100	H77
KSEM0884R7SS100	H79
KSEM0890HPG KC7315	H55
KSEM0906R10SS100	H79
KSEM0906R3SS100	H78
KSEM0906R3SSF100	H82
KSEM0906R5SS100	H78
KSEM0906R7SS100	H79
KSEM0922HP KC7315	H52
KSEM0922HPCCL KC7410	H60
KSEM0922HPG KC7315	H55
KSEM0922HPG KCPM45	H57
KSEM0922HPL KC7320	H62
KSEM0922R3SS100	H78
KSEM0922R3SSF100	H82
KSEM0922R5SS100	H78
KSEM0929HPG KCPM45	H57
KSEM0938HP KC7315	H52
KSEM0938HPCCL KC7410	H60
KSEM0938HPG KC7315	H55
KSEM0938HPG KCPM45	H57
KSEM0938HPL KC7320	H62
KSEM0938R10SS100	H79
KSEM0938R3SS100	H78
KSEM0938R3SSF100	H82
KSEM0938R5SS100	H78
KSEM0938R5SSF100	H82
KSEM0938R7SS100	H79
KSEM0938R8SSF100	H84
KSEM0938SPL KCMS35	H64
KSEM0945R1SSF100	H81
KSEM0945R1SSF100F45	H86

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEM0969HP KC7315	H52
KSEM0969HPCCL KC7410	H60
KSEM0969HPG KC7315	H55
KSEM0969HPG KCPM45	H58
KSEM0969HPL KC7320	H62
KSEM0969R10SS100	H79
KSEM0969R3SS100	H78
KSEM0969R3SSF100	H82
KSEM0969R5SS100	H78
KSEM0969R5SSF100	H82
KSEM0969R7SS100	H79
KSEM0984R10SS100	H79
KSEM0984R3SS100	H78
KSEM0984R3SSF100	H82
KSEM0984R5SS100	H78
KSEM0984R5SSF100	H82
KSEM0984R7SS100	H79
KSEM0984R8SSF100	H84
KSEM1000FEG KCPM45	H67
KSEM1000HP KC7315	H52
KSEM1000HPCCL KC7410	H60
KSEM1000HPG KC7315	H55
KSEM1000HPG KCPM45	H58
KSEM1000HPL KC7320	H62
KSEM1000R10SS100	H79
KSEM1000R10SS125	H79
KSEM1000R3SS100	H78
KSEM1000R3SSF100	H83
KSEM1000R3SSF125	H83
KSEM1000R5SS100	H78
KSEM1000R5SS125	H78
KSEM1000R5SSF100	H83
KSEM1000R5SSF125	H83
KSEM1000R7SS100	H79
KSEM1000R7SS125	H79
KSEM1000R8SSF100	H84
KSEM1000R8SSF125	H84
KSEM1000SPL KCMS35	H64
KSEM1008HP KC7315	H52
KSEM1008HPG KC7315	H55
KSEM1008HPG KCPM45	H58
KSEM1008HPL KC7320	H62
KSEM1008SPL KCMS35	H64
KSEM1010HPG KC7315	H55
KSEM1010HPG KCPM45	H58
KSEM1011HP KC7315	H52
KSEM1011HPCCL KC7410	H60
KSEM1011HPG KC7315	H55
KSEM1011HPG KCPM45	H58
KSEM1011HPL KC7320	H63
KSEM1011R10SS125	H79
KSEM1011R3SS125	H78
KSEM1011R3SSF100	H83
KSEM1011R5SS125	H78
KSEM1011R7SS125	H79
KSEM1011SPL KCMS35	H64
KSEM1016FEG KCPM45	H67
KSEM1016HPG KCPM45	H58
KSEM1016HPL KC7320	H63
KSEM1016SPL KCMS35	H64
KSEM1024R1SSF125	H81
KSEM1024R1SSF125F45	H86
KSEM1031FEG KCPM45	H67
KSEM1031HP KC7315	H53
KSEM1031HPCCL KC7410	H60
KSEM1031HPG KC7315	H55
KSEM1031HPG KCPM45	H58
KSEM1031HPL KC7320	H63
KSEM1031R10SS125	H80
KSEM1031R3SS125	H78
KSEM1031R3SSF125	H83
KSEM1031R5SS125	H78
KSEM1031R7SS125	H80
KSEM1031SPL KCMS35	H64
KSEM1047HP KC7315	H53
KSEM1047HPCCL KC7410	H60
KSEM1047HPG KC7315	H55
KSEM1047HPG KCPM45	H58
KSEM1047HPL KC7320	H63
KSEM1047R3SSF125	H83
KSEM1047R5SS125	H78
KSEM1047SPL KCMS35	H64
KSEM1063R10SS125	H80
KSEM1063R3SS125	H78
KSEM1063R3SSF125	H83
KSEM1063R5SS125	H78
KSEM1063R5SSF125	H83
KSEM1063R7SS125	H80
KSEM1063R8SSF125	H84
KSEM1094HP KC7315	H53
KSEM1094HPCCL KC7410	H60
KSEM1094HPG KC7315	H55
KSEM1094HPG KCPM45	H58
KSEM1094HPL KC7320	H63
KSEM1094R10SS125	H80
KSEM1094R3SSF125	H83
KSEM1094R5SS125	H78
KSEM1094R7SS125	H80
KSEM1103R1SSF125	H81
KSEM1103R1SSF125F45	H86
KSEM1109HP KC7315	H53
KSEM1109HPCCL KC7410	H61
KSEM1109HPG KC7315	H55
KSEM1109HPG KCPM45	H58
KSEM1109HPL KC7320	H63
KSEM1109R3SS125	H78
KSEM1109R3SSF125	H83
KSEM1109R5SS125	H78
KSEM1125HP KC7315	H53
KSEM1125HPCCL KC7410	H61
KSEM1125HPG KC7315	H55
KSEM1125HPG KCPM45	H58
KSEM1125HPL KC7320	H63
KSEM1125R10SS125	H80
KSEM1125R3SS125	H78
KSEM1125R3SSF125	H83
KSEM1125R5SS125	H78
KSEM1125R5SSF125	H83
KSEM1125R7SS125	H80
KSEM1125R8SSF125	H84
KSEM1125SPL KCMS35	H65
KSEM1156HP KC7315	H53
KSEM1156HPCCL KC7410	H61
KSEM1156HPG KC7315	H55
KSEM1156HPG KCPM45	H58
KSEM1156HPL KC7320	H63
KSEM1156R10SS125	H80
KSEM1156R3SS125	H78
KSEM1156R3SSF125	H83
KSEM1156R5SS125	H78
KSEM1156R7SS125	H80
KSEM1172HP KC7315	H53
KSEM1172HPCCL KC7410	H61
KSEM1172HPG KC7315	H55
KSEM1172HPG KCPM45	H58
KSEM1172HPL KC7320	H63
KSEM1172R3SS125	H78
KSEM1172R5SS125	H78
KSEM1182R1SSF125	H81
KSEM1182R1SSF125F45	H86
KSEM1188HP KC7315	H53
KSEM1188HPCCL KC7410	H61
KSEM1188HPG KC7315	H55
KSEM1188HPG KCPM45	H58
KSEM1188HPL KC7320	H63
KSEM1188R10SS125	H80
KSEM1188R3SS125	H78
KSEM1188R3SSF125	H83
KSEM1188R5SS125	H78
KSEM1188R5SSF125	H83
KSEM1188R7SS125	H80
KSEM1188R8SSF125	H84
KSEM1203HPG KC7315	H55
KSEM1203R3SSF125	H83
KSEM1203R5SS125	H78
KSEM1219HP KC7315	H53
KSEM1219HPG KC7315	H55
KSEM1219HPG KCPM45	H58
KSEM1219R10SS125	H80
KSEM1219R3SS125	H78
KSEM1219R5SS125	H78
KSEM1219R7SS125	H80
KSEM1250FEG KCPM45	H67
KSEM1250HP KC7315	H53
KSEM1250HPCCL KC7410	H61
KSEM1250HPCCLM KC7410	H60
KSEM1250HPG KC7315	H55
KSEM1250HPG KCPM45	H58
KSEM1250HPGM KC7315	H54
KSEM1250HPGM KCPM45	H57
KSEM1250HPL KC7320	H63
KSEM1250HPLM KC7320	H62
KSEM1250HPM KC7315	H52
KSEM1250PCM KC7135	H70
KSEM1250R10SS125	H80
KSEM1250R10SS150	H80
KSEM1250R3SS125	H78
KSEM1250R3SS150	H78
KSEM1250R3SSF125	H83
KSEM1250R3SSF150	H83
KSEM1250R5SS125	H78
KSEM1250R5SS150	H78
KSEM1250R5SSF125	H83
KSEM1250R5SSF150	H83
KSEM1250R7SS125	H80
KSEM1250R7SS150	H80
KSEM1250R8SSF125	H84
KSEM1250R8SSF150	H84
KSEM1250SPL KCMS35	H65
KSEM1250SPLM KCMS35	H64
KSEM125R10WN16M	H75
KSEM125R1WN16F45M	H85–86
KSEM125R1WN16M	H72
KSEM125R3WN16M	H73
KSEM125R5WN16M	H73
KSEM125R7WN16M	H75
KSEM125SEFM	H87
KSEM1260HPGM KC7315	H54
KSEM1260R1SSF125	H81
KSEM1260R1SSF125F45	H86
KSEM1280HPGM KC7315	H54
KSEM1280HPGM KCPM45	H57
KSEM1280HPLM KC7320	H62
KSEM1280HPM KC7315	H52
KSEM1280PCM KC7135	H70
KSEM1281HPG KC7315	H55
KSEM1281HPG KCPM45	H58
KSEM1281HPL KC7320	H63
KSEM1281R3SS150	H78
KSEM1281R3SSF150	H83
KSEM1281R5SS150	H78
KSEM1281R5SSF150	H83
KSEM1297HPG KC7315	H55
KSEM1297R3SS150	H78
KSEM1297R3SSF150	H83
KSEM1297R5SS150	H78
KSEM1297R5SSF150	H83
KSEM1300HPCCLM KC7410	H60, H111
KSEM1300HPGM KC7315	H54
KSEM1300HPGM KCPM45	H57
KSEM1300HPLM KC7320	H62
KSEM1300HPM KC7315	H52
KSEM1300PCM KC7135	H70, H111
KSEM1300SPLM KCMS35	H64
KSEM130R10WN16M	H75
KSEM130R3WN16M	H73
KSEM130R5WN16M	H73
KSEM130R7WN16M	H75
KSEM130SEFM	H87
KSEM1313HP KC7315	H53
KSEM1313HPG KC7315	H55
KSEM1313HPG KCPM45	H58
KSEM1313HPL KC7320	H63
KSEM1313R3SS150	H78
KSEM1313R3SSF150	H83
KSEM1313R5SS150	H78
KSEM1313R5SSF150	H83
KSEM1320HPGM KC7315	H54
KSEM1320HPM KC7315	H52
KSEM1328HPG KC7315	H55
KSEM1328R3SS150	H78
KSEM1328R3SSF150	H83
KSEM1328R5SS150	H78
KSEM1328R5SSF150	H83
KSEM1344HP KC7315	H53
KSEM1344HPG KC7315	H55
KSEM1344R3SSF150	H83
KSEM1344R5SS150	H78
KSEM1344R5SSF150	H83
KSEM1350HPCCLM KC7410	H60
KSEM1350HPGM KC7315	H54
KSEM1350HPGM KCPM45	H57
KSEM1350HPLM KC7320	H62
KSEM1350HPM KC7315	H52
KSEM1350PCM KC7135	H70
KSEM1350SPLM KCMS35	H64
KSEM135R10WN16M	H75
KSEM135R3WN16M	H73
KSEM135R5WN16M	H73
KSEM135R7WN16M	H75
KSEM135SEFM	H87
KSEM1360HPGM KC7315	H54
KSEM1360HPGM KCPM45	H57
KSEM1360HPLM KC7320	H62
KSEM136R10WN16M	H75
KSEM136R1WN16F45M	H85–86
KSEM136R1WN16M	H72
KSEM136R3WN16M	H73
KSEM136R5WN16M	H73
KSEM136R7WN16M	H75
KSEM1370HPGM KC7315	H54
KSEM1370HPM KC7315	H52
KSEM1375HP KC7315	H53
KSEM1375HPG KC7315	H55
KSEM1375HPG KCPM45	H58
KSEM1375HPL KC7320	H63
KSEM1375R3SS150	H78
KSEM1375R3SSF150	H83
KSEM1375R5SS150	H78
KSEM1375R5SSF150	H83
KSEM1380HPGM KC7315	H54
KSEM1380HPGM KCPM45	H57
KSEM1380HPLM KC7320	H62
KSEM1380HPM KC7315	H52
KSEM1380PCM KC7135	H70
KSEM1400HPCCLM KC7410	H60, H111
KSEM1400HPGM KC7315	H54
KSEM1400HPGM KCPM45	H57
KSEM1400HPLM KC7320	H62
KSEM1400HPM KC7315	H52
KSEM1400PCM KC7135	H70, H111
KSEM1400SPLM KCMS35	H64
KSEM1406HPG KC7315	H55
KSEM1406HPL KC7320	H63
KSEM1406R3SS150	H78
KSEM1406R3SSF150	H83
KSEM1406R5SS150	H78
KSEM1406R5SSF150	H83
KSEM140R10WN16M	H75
KSEM140R3WN16M	H73
KSEM140R5WN16M	H73
KSEM140R7WN16M	H75
KSEM140SEFM	H87
KSEM1410HPGM KC7315	H54
KSEM1410HPGM KCPM45	H57
KSEM1410HPLM KC7320	H62
KSEM1410HPM KC7315	H52
KSEM1410PCM KC7135	H70
KSEM1415HPLM KC7320	H62
KSEM1418R1SSF125	H81
KSEM1418R1SSF125F45	H86
KSEM1420HPGM KC7315	H54
KSEM1420HPLM KC7320	H62
KSEM1420HPM KC7315	H52
KSEM1422HPG KC7315	H55
KSEM1422R3SSF150	H83
KSEM1422R5SS150	H78
KSEM1422R5SSF150	H83
KSEM1438HPG KC7315	H55
KSEM1438HPG KCPM45	H58
KSEM1438R3SS150	H78
KSEM1438R3SSF150	H83
KSEM1438R5SS150	H78
KSEM1438R5SSF150	H83
KSEM1440HPGM KC7315	H54
KSEM1440HPM KC7315	H52
KSEM1450HPCCLM KC7410	H60
KSEM1450HPGM KC7315	H54

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEM1450HPGM KCPM45	H57
KSEM1450HPLM KC7320	H62
KSEM1450HPM KC7315	H52
KSEM1450PCM KC7135	H70
KSEM1450SPLM KCMS35	H64
KSEM145R10WN20M	H75
KSEM145R3WN20M	H73
KSEM145R5WN20M	H73
KSEM145R7WN20M	H75
KSEM145SEFM	H87
KSEM1460HPGM KC7315	H54
KSEM1460HPLM KC7320	H62
KSEM1460PCM KC7135	H70
KSEM1469HPG KC7315	H55
KSEM1469HPG KCPM45	H58
KSEM1469R3SSF150	H83
KSEM1469R5SS150	H78
KSEM1469R5SSF150	H83
KSEM146R10WN20M	H75
KSEM146R1WN20F45M	H85–86
KSEM146R1WN20M	H72
KSEM146R3WN20M	H73
KSEM146R5WN20M	H73
KSEM146R7WN20M	H75
KSEM1480HPGM KC7315	H54
KSEM1480HPLM KC7320	H62
KSEM1480HPM KC7315	H52
KSEM1480PCM KC7135	H70
KSEM1500FEG KCPM45	H68
KSEM1500HP KC7315	H53
KSEM1500HPCCLM KC7410	H60, H111
KSEM1500HPG KC7315	H55
KSEM1500HPG KCPM45	H58
KSEM1500HPGM KC7315	H54
KSEM1500HPGM KCPM45	H57
KSEM1500HPL KC7320	H63
KSEM1500HPLM KC7320	H62
KSEM1500HPM KC7315	H52
KSEM1500PCM KC7135	H70, H111
KSEM1500R3SS150	H78
KSEM1500R3SSF150	H83
KSEM1500R5SS150	H78
KSEM1500R5SSF150	H83
KSEM1500SPLM KCMS35	H64
KSEM150R10WN20M	H75
KSEM150R3WN20M	H73
KSEM150R5WN20M	H73
KSEM150R7WN20M	H75
KSEM150SEFM	H87
KSEM1514HPG KC7315	H55
KSEM1514HPG KCPM45	H58
KSEM1514HPL KC7320	H63
KSEM1514R3SS150	H78
KSEM1514R3SSF150	H83
KSEM1514R5SS150	H78
KSEM1514R5SSF150	H83
KSEM1514SPL KCMS35	H65
KSEM1530HPGM KC7315	H54
KSEM1530HPM KC7315	H52
KSEM1550HPCCLM KC7410	H60
KSEM1550HPGM KC7315	H54
KSEM1550HPGM KCPM45	H57
KSEM1550HPLM KC7320	H62
KSEM1550HPM KC7315	H52
KSEM1550PCM KC7135	H70
KSEM1550SPLM KCMS35	H64
KSEM155R10WN20M	H75
KSEM155R3WN20M	H73
KSEM155R5WN20M	H73
KSEM155R7WN20M	H75
KSEM155SEFM	H87
KSEM1560HPGM KC7315	H54
KSEM1560HPLM KC7320	H62
KSEM1560HPM KC7315	H52
KSEM1560PCM KC7135	H70
KSEM1570HPGM KC7315	H54
KSEM1570HPM KC7315	H52
KSEM1580HPGM KC7315	H54
KSEM1580HPGM KCPM45	H57
KSEM1580HPM KC7315	H52
KSEM1580PCM KC7135	H70
KSEM1600FEGM KCPM45	H67
KSEM1600HPCCLM KC7410	H60, H111
KSEM1600HPGM KC7315	H54
KSEM1600HPGM KCPM45	H57
KSEM1600HPLM KC7320	H62
KSEM1600HPM KC7315	H52
KSEM1600PCM KC7135	H70, H111
KSEM1600SPLM KCMS35	H64
KSEM1604HPGM KC7315	H54
KSEM160R10WN20M	H75
KSEM160R1WN20F45M	H85–86
KSEM160R1WN20M	H72
KSEM160R3WN20M	H73
KSEM160R5WN20M	H73
KSEM160R7WN20M	H75
KSEM160SEFM	H87
KSEM1610HPLM KC7320	H62
KSEM1615HPLM KC7320	H62
KSEM1615SPLM KCMS35	H64
KSEM1619HPGM KC7315	H54
KSEM1620HPGM KC7315	H54
KSEM1620HPGM KCPM45	H57
KSEM1620HPLM KC7320	H62
KSEM1620HPM KC7315	H52
KSEM1620PCM KC7135	H70
KSEM1650FEGM KCPM45	H67
KSEM1650HPCCLM KC7410	H60
KSEM1650HPGM KC7315	H54
KSEM1650HPGM KCPM45	H57
KSEM1650HPLM KC7320	H62
KSEM1650HPM KC7315	H52
KSEM1650PCM KC7135	H70
KSEM1650SPLM KCMS35	H64
KSEM165R10WN20M	H75
KSEM165R3WN20M	H73
KSEM165R5WN20M	H73
KSEM165R7WN20M	H75
KSEM165SEFM	H87
KSEM1660HPGM KC7315	H54
KSEM1700FEGM KCPM45	H67
KSEM1700HPCCLM KC7410	H60, H111
KSEM1700HPGM KC7315	H54
KSEM1700HPGM KCPM45	H57
KSEM1700HPLM KC7320	H62
KSEM1700HPM KC7315	H52
KSEM1700PCM KC7135	H70, H111
KSEM1700SPLM KCMS35	H64
KSEM170R10WN20M	H75
KSEM170R3WN20M	H73
KSEM170R5WN20M	H73
KSEM170R7WN20M	H75
KSEM170SEFM	H87
KSEM1735HPGM KC7315	H54
KSEM1750FEGM KCPM45	H67
KSEM1750HPCCLM KC7410	H60
KSEM1750HPGM KC7315	H54
KSEM1750HPGM KCPM45	H57
KSEM1750HPLM KC7320	H62
KSEM1750HPM KC7315	H52
KSEM1750PCM KC7135	H70
KSEM1750SPLM KCMS35	H64
KSEM175R10WN20M	H75
KSEM175R3WN20M	H73
KSEM175R5WN20M	H73
KSEM175R7WN20M	H75
KSEM175SEFM	H87
KSEM1760HPCCLM KC7410	H60
KSEM1760HPGM KC7315	H54
KSEM1770HPGM KC7315	H54
KSEM1775HPLM KC7320	H62
KSEM1780HPLM KC7320	H62
KSEM1790HPLM KC7320	H62
KSEM1800FEGM KCPM45	H67
KSEM1800HPCCLM KC7410	H60, H111
KSEM1800HPGM KC7315	H54
KSEM1800HPGM KCPM45	H57
KSEM1800HPLM KC7320	H62
KSEM1800HPM KC7315	H52
KSEM1800PCM KC7135	H70, H111
KSEM1800SPLM KCMS35	H64
KSEM180R10WN20M	H75
KSEM180R3WN20M	H73
KSEM180R5WN20M	H73
KSEM180R7WN20M	H75
KSEM180SEFM	H87
KSEM181R10WN25M	H75
KSEM181R1WN25F45M	H85–86
KSEM181R1WN25M	H72
KSEM181R5WN25M	H73
KSEM1830SPLM KCMS35	H64
KSEM1850FEGM KCPM45	H67
KSEM1850HPCCLM KC7410	H60
KSEM1850HPGM KC7315	H54
KSEM1850HPGM KCPM45	H57
KSEM1850HPLM KC7320	H62
KSEM1850HPM KC7315	H52
KSEM1850PCM KC7135	H70
KSEM1850SPLM KCMS35	H64
KSEM185R10WN25M	H75
KSEM185R3WN25M	H73
KSEM185R5WN25M	H73
KSEM185R7WN25M	H75
KSEM185SEFM	H87
KSEM1860HPGM KC7315	H54
KSEM1860HPLM KC7320	H62
KSEM1880HPGM KC7315	H54
KSEM1890HPLM KC7320	H62
KSEM1900FEGM KCPM45	H67
KSEM1900HPCCLM KC7410	H60, H111
KSEM1900HPGM KC7315	H54
KSEM1900HPGM KCPM45	H57
KSEM1900HPLM KC7320	H62
KSEM1900HPM KC7315	H52
KSEM1900PCM KC7135	H70, H111
KSEM1900SPLM KCMS35	H64
KSEM190R10WN25M	H75
KSEM190R3WN25M	H73
KSEM190R5WN25M	H73
KSEM190R7WN25M	H75
KSEM190SEFM	H87
KSEM1920HPGM KCPM45	H57
KSEM1920HPLM KC7320	H62
KSEM1920SPLM KCMS35	H64
KSEM1932HPGM KC7315	H54
KSEM1935HPGM KC7315	H54
KSEM1935HPLM KC7320	H62
KSEM1935SPLM KCMS35	H64
KSEM1936HPLM KC7320	H62
KSEM1938HPLM KC7320	H62
KSEM1950FEGM KCPM45	H67
KSEM1950HPCCLM KC7410	H60
KSEM1950HPGM KC7315	H54
KSEM1950HPGM KCPM45	H57
KSEM1950HPLM KC7320	H62
KSEM1950HPM KC7315	H52
KSEM1950PCM KC7135	H70
KSEM1950SPLM KCMS35	H64
KSEM195R10WN25M	H75
KSEM195R3WN25M	H73
KSEM195R5WN25M	H73
KSEM195R7WN25M	H75
KSEM195SEFM	H87
KSEM1965HPGM KCPM45	H57
KSEM1970HPGM KC7315	H54
KSEM2000FEGM KCPM45	H67
KSEM2000HPCCLM KC7410	H60, H111
KSEM2000HPGM KC7315	H54
KSEM2000HPGM KCPM45	H57
KSEM2000HPLM KC7320	H62
KSEM2000HPM KC7315	H52
KSEM2000PCM KC7135	H70, H111
KSEM2000SPLM KCMS35	H64
KSEM200R10WN25M	H75
KSEM200R1WN25F45M	H85–86
KSEM200R1WN25M	H72
KSEM200R3WN25M	H73
KSEM200R5WN25M	H73
KSEM200R7WN25M	H75
KSEM200SEFM	H87
KSEM2010HPLM KC7320	H62
KSEM2035HPLM KC7320	H62
KSEM2050FEGM KCPM45	H67
KSEM2050HPCCLM KC7410	H60
KSEM2050HPGM KC7315	H54
KSEM2050HPGM KCPM45	H57
KSEM2050HPLM KC7320	H62
KSEM2050HPM KC7315	H52
KSEM2050PCM KC7135	H70
KSEM2050SPLM KCMS35	H64
KSEM205R10WN25M	H75
KSEM205R3WN25M	H73
KSEM205R5WN25M	H73
KSEM205R7WN25M	H75
KSEM205SEFM	H87
KSEM2070HPGM KC7315	H54
KSEM2100FEGM KCPM45	H67
KSEM2100HPCCLM KC7410	H60, H111
KSEM2100HPGM KC7315	H54
KSEM2100HPGM KCPM45	H57
KSEM2100HPLM KC7320	H62
KSEM2100HPM KC7315	H52
KSEM2100PCM KC7135	H70, H111
KSEM2100SPLM KCMS35	H64
KSEM210R10WN25M	H75
KSEM210R3WN25M	H73
KSEM210R5WN25M	H73
KSEM210R7WN25M	H75
KSEM210SEFM	H87
KSEM2110HPGM KC7315	H54
KSEM2115HPLM KC7320	H62
KSEM2120HPGM KC7315	H54
KSEM2133HPGM KC7315	H55
KSEM2133HPLM KC7320	H62
KSEM2150FEGM KCPM45	H67
KSEM2150HPCCLM KC7410	H60
KSEM2150HPGM KC7315	H55
KSEM2150HPGM KCPM45	H57
KSEM2150HPLM KC7320	H62
KSEM2150HPM KC7315	H52
KSEM2150PCM KC7135	H70
KSEM2150SPLM KCMS35	H64
KSEM215R10WN25M	H75
KSEM215R3WN25M	H73
KSEM215R5WN25M	H73
KSEM215R7WN25M	H75
KSEM215SEFM	H87
KSEM2170HPGM KC7315	H55
KSEM2200FEGM KCPM45	H67
KSEM2200HPCCLM KC7410	H60, H111
KSEM2200HPGM KC7315	H55
KSEM2200HPGM KCPM45	H57
KSEM2200HPLM KC7320	H62
KSEM2200HPM KC7315	H52
KSEM2200PCM KC7135	H70, H111
KSEM2200SPLM KCMS35	H64
KSEM220R10WN25M	H75
KSEM220R3WN25M	H73
KSEM220R5WN25M	H73
KSEM220R7WN25M	H75
KSEM220SEFM	H87
KSEM2210HPCCLM KC7410	H60
KSEM2210HPGM KC7315	H55
KSEM2215HPGM KC7315	H55
KSEM221R10WN25M	H75
KSEM221R1WN25F45M	H85–86
KSEM221R1WN25M	H72
KSEM221R5WN25M	H73
KSEM2250FEGM KCPM45	H67
KSEM2250HPCCLM KC7410	H60
KSEM2250HPGM KC7315	H55
KSEM2250HPGM KCPM45	H57
KSEM2250HPLM KC7320	H62
KSEM2250HPM KC7315	H52
KSEM2250PCM KC7135	H70
KSEM2250SPLM KCMS35	H64
KSEM225R10WN25M	H75
KSEM225R3WN25M	H74
KSEM225R5WN25M	H74
KSEM225R7WN25M	H75
KSEM225SEFM	H87
KSEM2277HPLM KC7320	H62
KSEM2300FEGM KCPM45	H67
KSEM2300HPCCLM KC7410	H60, H111
KSEM2300HPGM KC7315	H55
KSEM2300HPGM KCPM45	H57
KSEM2300HPLM KC7320	H62
KSEM2300HPM KC7315	H52

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEM2300PCM KC7135	H70, H111
KSEM2300SPLM KCMS35	H64
KSEM2305HPGM KC7315	H55
KSEM230R10WN25M	H75
KSEM230R3WN25M	H74
KSEM230R5WN25M	H74
KSEM230R7WN25M	H75
KSEM230SEFM	H87
KSEM2310HPGM KC7315	H55
KSEM2325HPGM KC7315	H55
KSEM2330HPGM KC7315	H55
KSEM2350FEGM KCPM45	H67
KSEM2350HPCCLM KC7410	H60
KSEM2350HPGM KC7315	H55
KSEM2350HPGM KCPM45	H57
KSEM2350HPLM KC7320	H62
KSEM2350HPM KC7315	H52
KSEM2350PCM KC7135	H70
KSEM2350SPLM KCMS35	H64
KSEM235R10WN25M	H75
KSEM235R3WN25M	H74
KSEM235R5WN25M	H74
KSEM235R7WN25M	H75
KSEM235SEFM	H87
KSEM2370HPGM KCPM45	H57
KSEM2400FEGM KCPM45	H67
KSEM2400HPCCLM KC7410	H60, H111
KSEM2400HPGM KC7315	H55
KSEM2400HPGM KCPM45	H57
KSEM2400HPLM KC7320	H62
KSEM2400HPM KC7315	H52
KSEM2400PCM KC7135	H70, H111
KSEM2400SPLM KCMS35	H64
KSEM240R10WN25M	H75
KSEM240R3WN25M	H74
KSEM240R5WN25M	H74
KSEM240R7WN25M	H75
KSEM240SEFM	H87
KSEM241R10WN32M	H75
KSEM241R1WN32F45M	H85–86
KSEM241R1WN32M	H72
KSEM241R5WN32M	H74
KSEM2430HPGM KC7315	H55
KSEM2450FEGM KCPM45	H67
KSEM2450HPCCLM KC7410	H60
KSEM2450HPGM KC7315	H55
KSEM2450HPGM KCPM45	H57
KSEM2450HPLM KC7320	H62
KSEM2450HPM KC7315	H52
KSEM2450PCM KC7135	H70
KSEM2450SPLM KCMS35	H64
KSEM245R10WN32M	H75
KSEM245R3WN32M	H74
KSEM245R5WN32M	H74
KSEM245R7WN32M	H75
KSEM245SEFM	H87
KSEM2470HPGM KC7315	H55
KSEM2500FEGM KCPM45	H67
KSEM2500HPCCLM KC7410	H60, H111
KSEM2500HPGM KC7315	H55
KSEM2500HPGM KCPM45	H58
KSEM2500HPLM KC7320	H62
KSEM2500HPM KC7315	H52
KSEM2500PCM KC7135	H70, H111
KSEM2500SPLM KCMS35	H64
KSEM2507HPLM KC7320	H62
KSEM250R10WN32M	H75
KSEM250R3WN32M	H74
KSEM250R5WN32M	H74
KSEM250R7WN32M	H75
KSEM250SEFM	H87
KSEM2525SPLM KCMS35	H64
KSEM2530SPLM KCMS35	H64
KSEM2550FEGM KCPM45	H67
KSEM2550HPCCLM KC7410	H60
KSEM2550HPGM KC7315	H55
KSEM2550HPGM KCPM45	H58
KSEM2550HPLM KC7320	H62
KSEM2550HPM KC7315	H52
KSEM2550PCM KC7135	H70
KSEM2550SPLM KCMS35	H64
KSEM2554HPGM KC7315	H55
KSEM255R10WN32M	H75
KSEM255R3WN32M	H74
KSEM255R5WN32M	H74
KSEM255R7WN32M	H75
KSEM255SEFM	H87
KSEM2565HPLM KC7320	H63
KSEM2565SPLM KCMS35	H64
KSEM2580FEGM KCPM45	H67
KSEM2600FEGM KCPM45	H67
KSEM2600HPCCLM KC7410	H60, H111
KSEM2600HPGM KC7315	H55
KSEM2600HPGM KCPM45	H58
KSEM2600HPLM KC7320	H63
KSEM2600HPM KC7315	H53
KSEM2600PCM KC7135	H70, H111
KSEM2600SPLM KCMS35	H64
KSEM260R10WN32M	H76
KSEM260R3WN32M	H74
KSEM260R5WN32M	H74
KSEM260R7WN32M	H76
KSEM260SEFM	H87
KSEM261R10WN32M	H76
KSEM261R1WN32F45M	H85–86
KSEM261R1WN32M	H72
KSEM261R5WN32M	H74
KSEM2630SPLM KCMS35	H64
KSEM2650FEGM KCPM45	H67
KSEM2650HPCCLM KC7410	H60
KSEM2650HPGM KC7315	H55
KSEM2650HPGM KCPM45	H58
KSEM2650HPLM KC7320	H63
KSEM2650HPM KC7315	H53
KSEM2650PCM KC7135	H70
KSEM2650SPLM KCMS35	H64
KSEM2653HPGM KC7315	H55
KSEM265R10WN32M	H76
KSEM265R3WN32M	H74
KSEM265R5WN32M	H74
KSEM265R7WN32M	H76
KSEM265SEFM	H87
KSEM2670FEGM KCPM45	H67
KSEM2670HPGM KC7315	H55
KSEM2670HPLM KC7320	H63
KSEM2700FEGM KCPM45	H67
KSEM2700HPCCLM KC7410	H60, H111
KSEM2700HPGM KC7315	H55
KSEM2700HPGM KCPM45	H58
KSEM2700HPLM KC7320	H63
KSEM2700HPM KC7315	H53
KSEM2700PCM KC7135	H70, H111
KSEM2700SPLM KCMS35	H64
KSEM270R10WN32M	H76
KSEM270R3WN32M	H74
KSEM270R5WN32M	H74
KSEM270R7WN32M	H76
KSEM270SEFM	H87
KSEM2750FEGM KCPM45	H67
KSEM2750HPCCLM KC7410	H60
KSEM2750HPGM KC7315	H55
KSEM2750HPGM KCPM45	H58
KSEM2750HPLM KC7320	H63
KSEM2750HPM KC7315	H53
KSEM2750SPLM KCMS35	H64
KSEM275R10WN32M	H76
KSEM275R3WN32M	H74
KSEM275R5WN32M	H74
KSEM275R7WN32M	H76
KSEM275SEFM	H87
KSEM2800FEGM KCPM45	H67
KSEM2800HPCCLM KC7410	H61, H111
KSEM2800HPGM KC7315	H55
KSEM2800HPGM KCPM45	H58
KSEM2800HPLM KC7320	H63
KSEM2800HPM KC7315	H53
KSEM2800PCM KC7135	H70, H111
KSEM2800SPLM KCMS35	H64
KSEM280R10WN32M	H76
KSEM280R3WN32M	H74
KSEM280R5WN32M	H74
KSEM280R7WN32M	H76
KSEM280SEFM	H87
KSEM2810HPLM KC7320	H63
KSEM281R10WN32M	H76
KSEM281R1WN32F45M	H85–86
KSEM281R1WN32M	H72
KSEM281R5WN32M	H74
KSEM2835HPGM KCPM45	H58
KSEM2850FEGM KCPM45	H67
KSEM2850HPCCLM KC7410	H61
KSEM2850HPGM KC7315	H55
KSEM2850HPGM KCPM45	H58
KSEM2850HPLM KC7320	H63
KSEM2850HPM KC7315	H53
KSEM2850PCM KC7135	H70
KSEM2850SPLM KCMS35	H64
KSEM285R10WN32M	H76
KSEM285R3WN32M	H74
KSEM285R5WN32M	H74
KSEM285R7WN32M	H76
KSEM285SEFM	H87
KSEM2900FEGM KCPM45	H67
KSEM2900HPCCLM KC7410	H61, H111
KSEM2900HPGM KC7315	H55
KSEM2900HPGM KCPM45	H58
KSEM2900HPLM KC7320	H63
KSEM2900HPM KC7315	H53
KSEM2900PCM KC7135	H70, H111
KSEM2900SPLM KCMS35	H65
KSEM290R10WN32M	H76
KSEM290R3WN32M	H74
KSEM290R5WN32M	H74
KSEM290R7WN32M	H76
KSEM290SEFM	H87
KSEM2950FEGM KCPM45	H67
KSEM2950HPCCLM KC7410	H61
KSEM2950HPGM KC7315	H55
KSEM2950HPGM KCPM45	H58
KSEM2950HPLM KC7320	H63
KSEM2950HPM KC7315	H53
KSEM2950PCM KC7135	H70
KSEM2950SPLM KCMS35	H65
KSEM2955HPGM KC7315	H55
KSEM295R10WN32M	H76
KSEM295R3WN32M	H74
KSEM295R5WN32M	H74
KSEM295R7WN32M	H76
KSEM295SEFM	H87
KSEM2973HPGM KC7315	H55
KSEM3000FEGM KCPM45	H67
KSEM3000HPCCLM KC7410	H61, H111
KSEM3000HPGM KC7315	H55
KSEM3000HPGM KCPM45	H58
KSEM3000HPLM KC7320	H63
KSEM3000HPM KC7315	H53
KSEM3000PCM KC7135	H70, H111
KSEM3000SPLM KCMS35	H65
KSEM300R10WN32M	H76
KSEM300R3WN32M	H74
KSEM300R5WN32M	H74
KSEM300R7WN32M	H76
KSEM300SEFM	H87
KSEM301R10WN32M	H76
KSEM301R1WN32F45M	H85–86
KSEM301R1WN32M	H72
KSEM301R5WN32M	H74
KSEM3050FEGM KCPM45	H67
KSEM3050HPCCLM KC7410	H61
KSEM3050HPGM KC7315	H55
KSEM3050HPGM KCPM45	H58
KSEM3050HPLM KC7320	H63
KSEM3050HPM KC7315	H53
KSEM3050PCM KC7135	H70
KSEM3050SPLM KCMS35	H65
KSEM305R3WN32M	H74
KSEM305R5WN32M	H74
KSEM305R7WN32M	H76
KSEM305SEFM	H87
KSEM3100FEGM KCPM45	H67
KSEM3100HPCCLM KC7410	H61, H111
KSEM3100HPGM KC7315	H55
KSEM3100HPGM KCPM45	H58
KSEM3100HPLM KC7320	H63
KSEM3100HPM KC7315	H53
KSEM3100PCM KC7135	H70, H111
KSEM3100SPLM KCMS35	H65
KSEM310R10WN32M	H76
KSEM310R3WN32M	H74
KSEM310R5WN32M	H74
KSEM310R7WN32M	H76
KSEM310SEFM	H87
KSEM3115HPGM KCPM45	H58
KSEM3125HPGM KC7315	H55
KSEM3150FEGM KCPM45	H67
KSEM3150HPGM KC7315	H55
KSEM3150HPGM KCPM45	H58
KSEM3150HPLM KC7320	H63
KSEM3150HPM KC7315	H53
KSEM3150SPLM KCMS35	H65
KSEM315R3WN32M	H74
KSEM315R5WN32M	H74
KSEM315R7WN32M	H76
KSEM315SEFM	H87
KSEM3200FEGM KCPM45	H67
KSEM3200HPCCLM KC7410	H61, H111
KSEM3200HPGM KC7315	H55
KSEM3200HPGM KCPM45	H58
KSEM3200HPLM KC7320	H63
KSEM3200HPM KC7315	H53
KSEM3200PCM KC7135	H70, H111
KSEM3200SPLM KCMS35	H65
KSEM320R10WN32M	H76
KSEM320R3WN32M	H74
KSEM320R5WN32M	H74
KSEM320R7WN32M	H76
KSEM320SEFM	H87
KSEM321R1WD50F45M	H85–86
KSEM321R1WD50M	H72
KSEM321R3WD40M	H74
KSEM321R3WD50M	H74
KSEM321R5WD40M	H74
KSEM321R5WD50M	H74
KSEM3220HPGM KC7315	H55
KSEM3234HPGM KC7315	H55
KSEM3250FEGM KCPM45	H67
KSEM3250HPGM KC7315	H55
KSEM3250HPGM KCPM45	H58
KSEM3250HPM KC7315	H53
KSEM3250SPLM KCMS35	H65
KSEM3300FEGM KCPM45	H67
KSEM3300HPCCLM KC7410	H61, H111
KSEM3300HPGM KC7315	H55
KSEM3300HPGM KCPM45	H58
KSEM3300HPLM KC7320	H63
KSEM3300HPM KC7315	H53
KSEM3300PCM KC7135	H70, H111
KSEM330R3WD40M	H74
KSEM330R3WD50M	H74
KSEM330R5WD40M	H74
KSEM330R5WD50M	H74
KSEM3350FEGM KCPM45	H67
KSEM3350HPGM KC7315	H55
KSEM3350HPGM KCPM45	H58
KSEM3350SPLM KCMS35	H65
KSEM3400FEGM KCPM45	H67
KSEM3400HPCCLM KC7410	H61, H111
KSEM3400HPGM KC7315	H55
KSEM3400HPGM KCPM45	H58
KSEM3400HPLM KC7320	H63
KSEM3400HPM KC7315	H53
KSEM3400PCM KC7135	H70, H111
KSEM3400SPLM KCMS35	H65
KSEM340R3WD40M	H74
KSEM340R3WD50M	H74
KSEM340R5WD40M	H74
KSEM340R5WD50M	H74
KSEM3450FEGM KCPM45	H67
KSEM3450HPGM KC7315	H55
KSEM3450HPGM KCPM45	H58
KSEM3450SPLM KCMS35	H65
KSEM3500FEGM KCPM45	H67
KSEM3500HPCCLM KC7410	H61, H111
KSEM3500HPGM KC7315	H55
KSEM3500HPGM KCPM45	H58
KSEM3500HPLM KC7320	H63
KSEM3500HPM KC7315	H53
KSEM3500PCM KC7135	H70, H111

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEM3500SPLM KCMS35	H65
KSEM350R3WD40M	H74
KSEM350R3WD50M	H74
KSEM350R5WD40M	H74
KSEM350R5WD50M	H74
KSEM3550FEGM KCPM45	H67
KSEM3550HPGM KC7315	H55
KSEM3550HPM KC7315	H53
KSEM3550SPLM KCMS35	H65
KSEM3600FEGM KCPM45	H68
KSEM3600HPCCLM KC7410	H61, H111
KSEM3600HPGM KC7315	H55
KSEM3600HPGM KCPM45	H58
KSEM3600HPLM KC7320	H63
KSEM3600HPM KC7315	H53
KSEM3600PCM KC7135	H70, H111
KSEM3600SPLM KCMS35	H65
KSEM360R3WD40M	H74
KSEM360R3WD50M	H74
KSEM360R5WD40M	H74
KSEM360R5WD50M	H74
KSEM361R1WD50F45M	H85–86
KSEM361R1WD50M	H72
KSEM361R3WD40M	H74
KSEM361R3WD50M	H74
KSEM361R5WD40M	H74
KSEM361R5WD50M	H74
KSEM3650FEGM KCPM45	H68
KSEM3650HPGM KC7315	H55
KSEM3650SPLM KCMS35	H65
KSEM3700FEGM KCPM45	H68
KSEM3700HPCCLM KC7410	H61, H111
KSEM3700HPGM KC7315	H55
KSEM3700HPGM KCPM45	H58
KSEM3700HPLM KC7320	H63
KSEM3700PCM KC7135	H70, H111
KSEM3700SPLM KCMS35	H65
KSEM370R3WD40M	H74
KSEM370R3WD50M	H74
KSEM370R5WD40M	H74
KSEM370R5WD50M	H74
KSEM3750FEGM KCPM45	H68
KSEM3750HPGM KC7315	H55
KSEM3750HPGM KCPM45	H58
KSEM3750HPLM KC7320	H63
KSEM3750HPM KC7315	H53
KSEM3750SPLM KCMS35	H65
KSEM3800FEGM KCPM45	H68
KSEM3800HPCCLM KC7410	H61, H111
KSEM3800HPGM KC7315	H55
KSEM3800HPGM KCPM45	H58
KSEM3800HPLM KC7320	H63
KSEM3800HPM KC7315	H53
KSEM3800PCM KC7135	H70, H111
KSEM3800SPLM KCMS35	H65
KSEM380R3WD40M	H74
KSEM380R3WD50M	H74
KSEM380R5WD40M	H74
KSEM380R5WD50M	H74
KSEM3850FEGM KCPM45	H68
KSEM3850HPGM KC7315	H55
KSEM3850HPM KC7315	H53
KSEM3850SPLM KCMS35	H65
KSEM3900FEGM KCPM45	H68
KSEM3900HPCCLM KC7410	H61, H111
KSEM3900HPGM KC7315	H55
KSEM3900HPGM KCPM45	H58
KSEM3900HPLM KC7320	H63
KSEM3900HPM KC7315	H53
KSEM3900PCM KC7135	H70, H111
KSEM3900SPLM KCMS35	H65
KSEM390R3WD40M	H74
KSEM390R3WD50M	H74
KSEM390R5WD40M	H74
KSEM390R5WD50M	H74
KSEM3920HPCCLM KC7410	H61
KSEM3950FEGM KCPM45	H68
KSEM3950HPGM KC7315	H55
KSEM3950HPM KC7315	H53
KSEM3950SPLM KCMS35	H65
KSEM3975HPGM KC7315	H55
KSEM4000FEGM KCPM45	H68
KSEM4000HPCCLM KC7410	H61, H111
KSEM4000HPGM KC7315	H55
KSEM4000HPGM KCPM45	H58
KSEM4000HPLM KC7320	H63
KSEM4000HPM KC7315	H53
KSEM4000PCM KC7135	H70, H111
KSEM4000SPLM KCMS35	H65
KSEM400R3WD40M	H74
KSEM400R3WD50M	H74
KSEM400R5WD40M	H74
KSEM400R5WD50M	H74
KSEMP10000FDS90A1M	H106, H117, H123
KSEMP10000FDS90B1M	H110, H120
KSEMP1125FDS28A1	H104, H115, H122
KSEMP1125FDS28B1	H108, H118
KSEMP1156FDS28A1	H104, H115, H122
KSEMP1156FDS28B1	H108, H118
KSEMP1188FDS28A1	H104, H115, H122
KSEMP1188FDS28B1	H108, H118
KSEMP1219FDS28A1	H104, H115, H122
KSEMP1219FDS28B1	H108, H118
KSEMP1250FDS32A1	H104, H115, H122
KSEMP1250FDS32B1	H108, H118
KSEMP1300HPGM KC7315	H111
KSEMP1313FDS32A1	H104, H115, H122
KSEMP1313FDS32B1	H108, H118
KSEMP1375FDS32A1	H104, H115, H122
KSEMP1375FDS32B1	H108, H118
KSEMP1400HPGM KC7315	H111
KSEMP1438FDS36A1	H104, H116, H122
KSEMP1438FDS36B1	H108, H118
KSEMP1500FDS36A1	H104, H116, H122
KSEMP1500FDS36B1	H108, H119
KSEMP1500HPGM KC7315	H111
KSEMP1563FDS36A1	H104, H116, H122
KSEMP1563FDS36B1	H108, H119
KSEMP1600HPGM KC7315	H111
KSEMP1625FDS40A1	H104, H116, H122
KSEMP1625FDS40B1	H108, H119
KSEMP1700HPGM KC7315	H111
KSEMP1750FDS40A1	H104, H116, H122
KSEMP1750FDS40B1	H108, H119
KSEMP1800HPGM KC7315	H111
KSEMP1875FDS45A1	H105, H116, H122
KSEMP1875FDS45B1	H109, H119
KSEMP1900HPGM KC7315	H111
KSEMP2000FDS50A1	H105, H116, H122
KSEMP2000FDS50B1	H109, H119
KSEMP2000HPGM KC7315	H111
KSEMP2100HPGM KC7315	H111
KSEMP2125FDS50A1	H105, H116, H122
KSEMP2125FDS50B1	H109, H119
KSEMP2200HPGM KC7315	H111
KSEMP2250FDS56A1	H105, H116, H122
KSEMP2250FDS56B1	H109, H119
KSEMP2300HPGM KC7315	H111
KSEMP2375FDS56A1	H105, H116, H122
KSEMP2375FDS56B1	H109, H119
KSEMP2400HPGM KC7315	H111
KSEMP2500FDS63A1	H105, H116, H123
KSEMP2500FDS63B1	H109, H119
KSEMP2500HPGM KC7315	H111
KSEMP2600HPGM KC7315	H111
KSEMP2625FDS63A1	H105, H116, H123
KSEMP2625FDS63B1	H109, H119
KSEMP2700HPGM KC7315	H111
KSEMP2750FDS63A1	H105, H116, H123
KSEMP2750FDS63B1	H109, H119
KSEMP2800FDS28A1M	H104, H115, H122
KSEMP2800FDS28B1M	H108, H118
KSEMP2800HPGM KC7315	H111
KSEMP2875FDS71A1	H106, H116, H123
KSEMP2875FDS71B1	H110, H119
KSEMP2900FDS28A1M	H104, H115, H122
KSEMP2900FDS28B1M	H108, H118
KSEMP2900HPGM KC7315	H111
KSEMP3000FDS28A1M	H104, H115, H122
KSEMP3000FDS28B1M	H108, H118
KSEMP3000FDS71A1	H106, H117, H123
KSEMP3000FDS71B1	H110, H119
KSEMP3000HPGM KC7315	H111
KSEMP3100FDS28A1M	H104, H115, H122
KSEMP3100FDS28B1M	H108, H118
KSEMP3100HPGM KC7315	H111
KSEMP3125FDS80A1	H106, H117, H123
KSEMP3125FDS80B1	H110, H120
KSEMP3200FDS32A1M	H104, H115, H122
KSEMP3200FDS32B1M	H108, H118
KSEMP3200HPGM KC7315	H111
KSEMP3250FDS80A1	H106, H117, H123
KSEMP3250FDS80B1	H110, H120
KSEMP3300FDS32A1M	H104, H115, H122
KSEMP3300FDS32B1M	H108, H118
KSEMP3300HPGM KC7315	H111
KSEMP3320FDS32A1M	H104, H115, H122
KSEMP3320FDS32B1M	H108, H118
KSEMP3375FDS80A1	H106, H117, H123
KSEMP3375FDS80B1	H110, H120
KSEMP3400FDS32A1M	H104, H115, H122
KSEMP3400FDS32B1M	H108, H118
KSEMP3400HPGM KC7315	H111
KSEMP3500FDS32A1M	H104, H115, H122
KSEMP3500FDS32B1M	H108, H118
KSEMP3500FDS80A1	H106, H117, H123
KSEMP3500FDS80B1	H110, H120
KSEMP3500HPGM KC7315	H111
KSEMP3600FDS36A1M	H104, H116, H122
KSEMP3600FDS36B1M	H108, H118
KSEMP3600HPGM KC7315	H111
KSEMP3625FDS90A1	H106, H117, H123
KSEMP3625FDS90B1	H110, H120
KSEMP3700FDS36A1M	H104, H116, H122
KSEMP3700FDS36B1M	H108, H118
KSEMP3700HPGM KC7315	H111
KSEMP3750FDS36A1M	H104, H116, H122
KSEMP3750FDS36B1M	H108, H118
KSEMP3750FDS90A1	H106, H117, H123
KSEMP3750FDS90B1	H110, H120
KSEMP3800FDS36A1M	H104, H116, H122
KSEMP3800FDS36B1M	H108, H119
KSEMP3800HPGM KC7315	H111
KSEMP3875FDS90A1	H106, H117, H123
KSEMP3875FDS90B1	H110, H120
KSEMP3900FDS36A1M	H104, H116, H122
KSEMP3900FDS36B1M	H108, H119
KSEMP3900HPGM KC7315	H111
KSEMP3920FDS36A1M	H104, H116, H122
KSEMP3920FDS36B1M	H108, H119
KSEMP4000FDS40A1M	H104, H116, H122
KSEMP4000FDS40B1M	H108, H119
KSEMP4000FDS90A1	H106, H117, H123
KSEMP4000FDS90B1	H110, H120
KSEMP4000HPGM KC7315	H111
KSEMP4100FDS40A1M	H104, H116, H122
KSEMP4100FDS40B1M	H108, H119
KSEMP4200FDS40A1M	H104, H116, H122
KSEMP4200FDS40B1M	H108, H119
KSEMP4300FDS40A1M	H104, H116, H122
KSEMP4300FDS40B1M	H108, H119
KSEMP4400FDS40A1M	H104, H116, H122
KSEMP4400FDS40B1M	H108, H119
KSEMP4500FDS45A1M	H105, H116, H122
KSEMP4500FDS45B1M	H109, H119
KSEMP4600FDS45A1M	H105, H116, H122
KSEMP4600FDS45B1M	H109, H119
KSEMP4700FDS45A1M	H105, H116, H122
KSEMP4700FDS45B1M	H109, H119
KSEMP4800FDS45A1M	H105, H116, H122
KSEMP4800FDS45B1M	H109, H119
KSEMP4900FDS45A1M	H105, H116, H122
KSEMP4900FDS45B1M	H109, H119
KSEMP5000FDS50A1M	H105, H116, H122
KSEMP5000FDS50B1M	H109, H119
KSEMP5100FDS50A1M	H105, H116, H122
KSEMP5100FDS50B1M	H109, H119
KSEMP5200FDS50A1M	H105, H116, H122
KSEMP5200FDS50B1M	H109, H119
KSEMP5300FDS50A1M	H105, H116, H122
KSEMP5300FDS50B1M	H109, H119
KSEMP5400FDS50A1M	H105, H116, H122
KSEMP5400FDS50B1M	H109, H119
KSEMP5500FDS50A1M	H105, H116, H122
KSEMP5500FDS50B1M	H109, H119
KSEMP5600FDS56A1M	H105, H116, H122
KSEMP5600FDS56B1M	H109, H119
KSEMP5700FDS56A1M	H105, H116, H122
KSEMP5700FDS56B1M	H109, H119
KSEMP5800FDS56A1M	H105, H116, H122
KSEMP5800FDS56B1M	H109, H119
KSEMP5900FDS56A1M	H105, H116, H122
KSEMP5900FDS56B1M	H109, H119
KSEMP6000FDS56A1M	H105, H116, H122
KSEMP6000FDS56B1M	H109, H119
KSEMP6100FDS56A1M	H105, H116, H122
KSEMP6100FDS56B1M	H109, H119
KSEMP6200FDS56A1M	H105, H116, H122
KSEMP6200FDS56B1M	H109, H119
KSEMP6300FDS63A1M	H105, H116, H122
KSEMP6300FDS63B1M	H109, H119
KSEMP6400FDS63A1M	H105, H116, H123
KSEMP6400FDS63B1M	H109, H119
KSEMP6500FDS63A1M	H105, H116, H123
KSEMP6500FDS63B1M	H109, H119
KSEMP6600FDS63A1M	H105, H116, H123
KSEMP6600FDS63B1M	H109, H119
KSEMP6700FDS63A1M	H105, H116, H123
KSEMP6700FDS63B1M	H109, H119
KSEMP6800FDS63A1M	H105, H116, H123
KSEMP6800FDS63B1M	H109, H119
KSEMP6900FDS63A1M	H105, H116, H123
KSEMP6900FDS63B1M	H109, H119
KSEMP7000FDS63A1M	H105, H116, H123
KSEMP7000FDS63B1M	H109, H119
KSEMP7100FDS71A1M	H106, H116, H123
KSEMP7100FDS71B1M	H110, H119
KSEMP7200FDS71A1M	H106, H116, H123
KSEMP7200FDS71B1M	H110, H119
KSEMP7300FDS71A1M	H106, H116, H123
KSEMP7300FDS71B1M	H110, H119
KSEMP7400FDS71A1M	H106, H116, H123
KSEMP7400FDS71B1M	H110, H119
KSEMP7500FDS71A1M	H106, H116, H123
KSEMP7500FDS71B1M	H110, H119
KSEMP7600FDS71A1M	H106, H117, H123
KSEMP7600FDS71B1M	H110, H119
KSEMP7700FDS71A1M	H106, H117, H123
KSEMP7700FDS71B1M	H110, H119
KSEMP7800FDS71A1M	H106, H117, H123
KSEMP7800FDS71B1M	H110, H119
KSEMP7900FDS71A1M	H106, H117, H123
KSEMP7900FDS71B1M	H110, H120
KSEMP8000FDS80A1M	H106, H117, H123
KSEMP8000FDS80B1M	H110, H120
KSEMP8100FDS80A1M	H106, H117, H123
KSEMP8100FDS80B1M	H110, H120
KSEMP8200FDS80A1M	H106, H117, H123
KSEMP8200FDS80B1M	H110, H120
KSEMP8300FDS80A1M	H106, H117, H123
KSEMP8300FDS80B1M	H110, H120
KSEMP8400FDS80A1M	H106, H117, H123
KSEMP8400FDS80B1M	H110, H120
KSEMP8500FDS80A1M	H106, H117, H123
KSEMP8500FDS80B1M	H110, H120
KSEMP8600FDS80A1M	H106, H117, H123
KSEMP8600FDS80B1M	H110, H120
KSEMP8700FDS80A1M	H106, H117, H123
KSEMP8700FDS80B1M	H110, H120
KSEMP8800FDS80A1M	H106, H117, H123
KSEMP8800FDS80B1M	H110, H120
KSEMP8900FDS80A1M	H106, H117, H123
KSEMP8900FDS80B1M	H110, H120
KSEMP9000FDS90A1M	H106, H117, H123
KSEMP9000FDS90B1M	H110, H120
KSEMP9100FDS90A1M	H106, H117, H123
KSEMP9100FDS90B1M	H110, H120
KSEMP9200FDS90A1M	H106, H117, H123
KSEMP9200FDS90B1M	H110, H120
KSEMP9300FDS90A1M	H106, H117, H123
KSEMP9300FDS90B1M	H110, H120
KSEMP9400FDS90A1M	H106, H117, H123
KSEMP9400FDS90B1M	H110, H120
KSEMP9500FDS90A1M	H106, H117, H123
KSEMP9500FDS90B1M	H110, H120
KSEMP9600FDS90A1M	H106, H117, H123
KSEMP9600FDS90B1M	H110, H120
KSEMP9700FDS90A1M	H106, H117, H123

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KSEMP9700FDS90B1M	H110, H120
KSEMP9800FDS90A1M	H106, H117, H123
KSEMP9800FDS90B1M	H110, H120
KSEMP9900FDS90A1M	H106, H117, H123
KSEMP9900FDS90B1M	H110, H120
KSHR1000HN5345C10	S20
KSHR1000HN7545C10	S24
KSHR1000HN7545M10	S24
KSHR100D02C075HN06L480	S9
KSHR100D02W075HN06	S8
KSHR100D03C075HN06L480	S9
KSHR100D03C100HN06L800	S9
KSHR100D03W075HN06	S8
KSHR1200HN5345C10	S20
KSHR125D03C100HN06L520	S9
KSHR125D03W100HN06	S8
KSHR125D04C100HN06L520	S9
KSHR125D04W100HN06	S8
KSHR150HN4345F2	S10
KSHR150HN4345M3	S10
KSHR200HN4345C3	S10
KSHR200HN4345F3	S10
KSHR200HN4345M3	S10
KSHR200HN5345C3	S20
KSHR200HN5345M3	S20
KSHR250HN4345C3	S10
KSHR250HN4345F3	S10
KSHR250HN4345M3	S10
KSHR250HN5345C3	S20
KSHR250HN5345M3	S20
KSHR250HN5345XC3	S20
KSHR300HN4345C4	S10
KSHR300HN4345F4	S10
KSHR300HN4345M4	S10
KSHR300HN5345C4	S20
KSHR300HN5345M4	S20
KSHR300HN5345XC4	S20
KSHR300HN7545M4	S24
KSHR400HN4345C6	S10
KSHR400HN4345F6	S10
KSHR400HN4345M6	S10
KSHR400HN5345C5	S20
KSHR400HN5345M5	S20
KSHR400HN5345XC5	S20
KSHR400HN7545M5	S24
KSHR500HN4345C6	S10
KSHR500HN4345F6	S10
KSHR500HN4345M6	S10
KSHR500HN5345C6	S20
KSHR500HN5345M6	S20
KSHR500HN5345XC6	S20
KSHR500HN7545M6	S24
KSHR600HN5345C8	S20
KSHR600HN5345M8	S20
KSHR600HN5345XC8	S20
KSHR600HN7545M8	S24
KSHR800HN5345C10	S20
KSHR800HN7545M10	S24
KSHRHD150HN43F2	S14
KSHRHD150HN43M2	S14
KSHRHD200HN43C3	S14
KSHRHD200HN43M3	S14
KSHRHD250HN43M3	S14
KSHRHD300HN43C4	S14
KSHRHD300HN43M4	S14
KSHRHD400HN43C6	S14
KSHRHD500HN43C6	S14
KSHRHD500HN43M6	S14
KSHRHF100D02C075HN43L480	S4
KSHRHF100D03C075HN43L480	S4
KSHRHF125D04C100HN43L520	S4
KSHRHF150HN43F3	S5
KSHRHF200HN43M3	S5
KSHRHF200HN5315C3	S17
KSHRHF250HN43M3	S5
KSHRHF250HN5315C3	S17
KSHRHF300HN43M4	S5
KSHRHF300HN5315C4	S17
KSHRHF400HN5315C5	S17
KSHRHF500HN5315C6	S17
KSHRHF600HN5315C8	S17
KSOM1250F5345F5	S44
KSOM1250F5345M3	S44
KSOM125Z03C1000F53X	S44
KSOM1500F5345F3	S44
KSOM1500F5345M3	S44
KSOM150Z040F53S050X	S45
KSOM2000F5345M3	S45
KSOM200Z060F53S075X	S45
KSOM2500F5345M3	S45
KSOM2500F6445F3	S50
KSOM2500F6445M3	S50
KSOM250Z070F53S075X	S45
KSOM3000F5345M4	S45
KSOM3000F6445F4	S50
KSOM3000F6445M4	S50
KSOM300Z090F53S100X	S45
KSOM4000F5345M5	S45
KSOM4000F6445F5	S50
KSOM4000F6445M5	S50
KSOM5000F5345F6	S45
KSOM5000F5345M6	S45
KSOM5000F6445F6	S50
KSOM5000F6445M6	S50
KSOM6000F6445F8	S50
KSOM6000F6445M8	S50
KSRM125R4302C125L600	V82
KSRM125R4303C125L1000	V82
KSRM125R4303M16L150	V81
KSRM150R4304C125L1000	V82
KSRM150R4304C125L600	V82
KSRM150R4304M16L150	V81
KSRM200R4303S075L197	V83
KSRM200R4305S075L197	V83
KSRM250R4304S075L197	V83
KSRM250R4306S075L197	V83
KSRM300R4305S100L197	V83
KSRM300R4307S100L197	V83
KSSC551-630L	U28–29
KSSC551-630R	U28–29
KSSC630-709L	U28
KSSC630-709R	U28
KSSC709-813L	U35, U37
KSSC709-813R	U35, U37
KSSC709813LX	U35
KSSC709813RX	U35
KSSC813-917L	U36
KSSC813-917R	U36
KSSC813917LX	U36
KSSC813917RX	U36
KSSCP551-709	U28–29
KSSCP709-917	U35–37
KSSISR1000SD430M10	T113
KSSISR197SE44345C3	S39
KSSISR197SE44345M3	S39
KSSISR200SD430C3	T113
KSSISR200SD430F3	T113
KSSISR200SD430M3	T113
KSSISR248SE44345C4	S39
KSSISR248SE44345M4	S39
KSSISR250SD430F4	T113
KSSISR250SD430M4	T113
KSSISR300SD430C4	T113
KSSISR300SD430F4	T113
KSSISR300SD430M4	T113
KSSISR315SE44345C4	S39
KSSISR315SE44345M4	S39
KSSISR394SE44345C5	S39
KSSISR394SE44345M5	S39
KSSISR400SD430C5	T113
KSSISR400SD430C6	T113
KSSISR400SD430F5	T113
KSSISR400SD430F6	T113
KSSISR400SD430M5	T113
KSSISR400SD430M6	T113
KSSISR492SE44345C6	S39
KSSISR492SE44345M6	S39
KSSISR500SD430C6	T113
KSSISR500SD430F6	T113
KSSISR500SD430M6	T113
KSSISR600SD430C6	T113
KSSISR600SD430C8	T113
KSSISR600SD430F6	T113
KSSISR600SD430M6	T113
KSSISR600SD430M8	T113
KSSISR630SE44345C6	S39
KSSISR630SE44345M6	S39
KSSISR787SE44345C10	S39
KSSISR787SE44345M10	S39
KSSISR800SD430C10	T113
KSSISR800SD430F10	T113
KSSISR800SD430M10	T113
KSSM87D200SN440S075Z05	S58
KSSM87D300SN440S100Z07	S58
KSSM87D300SN440S100Z09	S58
KSSM87D400SN440S150Z08	S58
KSSM87D400SN440S150Z11	S58
KSSM87D600SN440S150Z12	S58
KSSM87D600SN440S150Z16	S58
KSSM88D200SN3125S075Z05	S56
KSSM88D200SN3125S075Z06	S56
KSSM88D300SN3125S100Z07	S56
KSSM88D300SN3125S100Z09	S56
KSSM88D400SN3125S150Z08	S56
KSSP200R3SD43L125	T120
KSSP200R3SD43L168	T120
KSSP200R3SD43L200HC	T120
KSSP200R3SD43W125L169	T119
KSSP250R3SD43L200	T120
KSSP300R4SD43L240	T120
KSSP300R5SD43L400HC	T120
KSSR150SP10T30F2	T109
KSSR200SP10T30F3	T109
KSSR250SN434M3	S88
KSSR250SP10T30F4	T109
KSSR300SN434M4	S88
KSSR300SP10T30F4	T109
KSSR400SN434M5	S88
KSSR400SP10T30F5	T109
KSSS1000ASD43N709-813	U35
KSSS1000ASD43N750	U33
KSSS1000ASD43R750	U32
KSSS1200ASD43N709-813	U35
KSSS1200ASD43N813-917	U36
KSSS1200ASP10N630-709	U28
KSSS1200BSD43N709-813	U37
KSSS400ASP10L625	U25
KSSS400ASP10N551-630	U28
KSSS400ASP10N625	U26
KSSS400ASP10R625	U25
KSSS400BSP10N551-630	U29
KSSS400BSP10N625	U27
KSSS500ASD43N709-813	U35
KSSS500ASP10L625	U25
KSSS500ASP10N625	U26
KSSS500ASP10N630-709	U28
KSSS500BSD43N709-813	U37
KSSS500BSP10N625	U27
KSSS600ASD43L750	U32
KSSS600ASD43N709-813	U35
KSSS600ASD43N750	U33
KSSS600ASD43N813-917	U36
KSSS600ASD43R750	U32
KSSS600ASP10N551-630	U28
KSSS600ASP10N625	U26
KSSS600BSD43N750	U34
KSSS800ASD43L750	U32
KSSS800ASD43N750	U33
KSSS800ASD43N813-917	U36
KSSS800ASD43R750	U32
KSSS800ASP10N551-630	U28
KSSS800BSD43N750	U34
KSSS800BSP10N625	U27
KSSW551-630	U28–29
KSSW630-709	U28
KSSW709-813	U35, U37
KSSW813-917	U36
KSSZR200SD430C3A04	V141
KSSZR200SD430M3A05	V141
KSSZR250SD430C3A05	V141
KSSZR250SD430M3A06	V141
KSSZR300SD430C4A05	V141
KSSZR300SD430F4A07	V141
KSSZR300SD430M4A06	V141
KSSZR400SD430C5A07	V141
KSSZR400SD430C6A07	V141
KSSZR400SD430F5A09	V141
KSSZR400SD430F6A09	V141
KSSZR400SD430M5A08	V141
KSSZR400SD430M6A08	V141
KSSZR500SD430M6A09	V141
KST115115AS	K42
KST135155AS	K42
KST175200AS	K42
KST175200RK	K43
KST175CS	K43
KST200CS	K43
KST250250AS	K42
KST250250RK	K43
KST250CS	K43
KST300350AS	K42
KST300350RK	K43
KST300CS	K43
KST350CS	K43
KT15	K76, K89–90, S122–123, V121–123
KT20	V121–123, V132–133
KT25	C143, C145
KT27	K77–78, K88
KT30	V121–123, V132
KT30L	C143, C145
KT6	V123
KT8	K76, V122–123
KT9	S64, S67, S70
KTFS0237R03SS031	H20
KTFS0237R05SS031	H20
KTFS0237R08SS031	H20
KTFS0249R03SS031	H20
KTFS0249R05SS031	H20
KTFS0249R08SS031	H20
KTFS0260R03SS031	H20
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KTFS0260R08SS031	H20
KTFS0276R03SS031	H20
KTFS0276R05SS031	H20
KTFS0276R08SS031	H20
KTFS0296R03SS031	H20
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KTFS0296R08SS031	H20
KTFS0315R03SS038	H20
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KTFS0434R08SS044	H20
KTFS0453R03SS050	H20
KTFS0453R05SS050	H20
KTFS0453R08SS050	H20
KTFS0473R03SS050	H20
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KTFS0493R03SS050	H20
KTFS0493R05SS050	H20
KTFS0493R08SS050	H20
KTFS0512R03SS056	H20
KTFS0512R05SS056	H20
KTFS0512R08SS056	H20
KTFS0532R03SS056	H20
KTFS0532R05SS056	H20
KTFS0532R08SS056	H20
KTFS0552R03SS056	H20
KTFS0552R05SS056	H20
KTFS0552R08SS056	H20
KTFS0571R03SS063	H20

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KTFS0571R05SS063	H20
KTFS0571R08SS063	H20
KTFS0591R03SS063	H20
KTFS0591R05SS063	H20
KTFS0591R08SS063	H20
KTFS060R01SS08M	H18
KTFS060R03SS08M	H18
KTFS060R05SS08M	H18
KTFS060R08SS08M	H18
KTFS060R12SF12M	H18
KTFS0630R03SS063	H20
KTFS0630R05SS063	H20
KTFS0630R08SS063	H20
KTFS063R01SS08M	H18
KTFS063R03SS08M	H18
KTFS063R05SS08M	H18
KTFS063R08SS08M	H18
KTFS063R12SF12M	H18
KTFS066R01SS08M	H18
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KTFS100R08SCF16M	H19
KTFS100R08SS12M	H18
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KTFS115R12SF16M	H18
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KTFS160R12SF20M	H18
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KTFS170R03SCF20M	H19
KTFS170R03SS20M	H18
KTFS170R05SCF20M	H19
KTFS170R05SS20M	H18
KTFS170R08SCF20M	H19
KTFS170R08SS20M	H18
KTFS170R12SF20M	H18
KTFS180R01SS20M	H18
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KTFS180R12SF25M	H18
KTFS190R01SS20M	H18
KTFS190R03SCF25M	H19
KTFS190R03SS20M	H18
KTFS190R05SCF25M	H19
KTFS190R05SS20M	H18
KTFS190R08SCF25M	H19
KTFS190R08SS20M	H18
KTFS190R12SF25M	H18
KTFS200R01SCF25M	H19
KTFS200R03SCF25M	H19
KTFS200R05SCF25M	H19
KTFS200R08SCF25M	H19
KTFS200R12SCF25M	H19
KTFS210R01SCF25M	H19
KTFS210R03SCF25M	H19
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KTFS210R08SCF25M	H19
KTFS210R12SCF25M	H19
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KTFS250R03SCF25M	H19
KTFS250R05SCF25M	H19
KTFS250R08SCF25M	H19
KTFS250R12SCF25M	H19
KTFSS02500HPG KCP15A	H8
KTFSS02610HPG KCP15A	H8
KTFSS02656HPG KCP15A	H8
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KTFSS02900HPG KCP15A	H8
KTFSS02969HPG KCP15A	H8
KTFSS03125HPG KCP15A	H8
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KTFSS08125HPG KCP15A	H10
KTFSS08300HPGM KCP15A	H8
KTFSS08400HPGM KCP15A	H8
KTFSS08438HPG KCP15A	H10

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KTFSS08500HPGM KCP15A	H8
KTFSS08594HPG KCP15A	H10
KTFSS08600HPGM KCP15A	H8
KTFSS08700HPGM KCP15A	H8
KTFSS08750HPG KCP15A	H10
KTFSS08800HPGM KCP15A	H8
KTFSS08900HPGM KCP15A	H8
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KTFSS09219HPG KCP15A	H10
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KTFSS13000HPGM KCP15A	H9
KTFSS13200HPGM KCP15A	H9
KTFSS13280HPGM KCP15A	H9
KTFSS13300HPGM KCP15A	H9
KTFSS13380HPGM KCP15A	H9
KTFSS13400HPGM KCP15A	H9
KTFSS13500HPGM KCP15A	H9
KTFSS13600HPGM KCP15A	H9
KTFSS13700HPGM KCP15A	H9
KTFSS13800HPGM KCP15A	H9
KTFSS13940HPGM KCP15A	H9
KTFSS14000HPGM KCP15A	H9
KTFSS14100HPGM KCP15A	H9
KTFSS14200HPGM KCP15A	H9
KTFSS14300HPGM KCP15A	H9
KTFSS14400HPGM KCP15A	H9
KTFSS14500HPGM KCP15A	H9
KTFSS14600HPGM KCP15A	H9
KTFSS14700HPGM KCP15A	H9
KTFSS14800HPGM KCP15A	H9
KTFSS14900HPGM KCP15A	H9
KTFSS15000HPGM KCP15A	H9
KTFSS15100HPGM KCP15A	H9
KTFSS15200HPGM KCP15A	H9
KTFSS15300HPGM KCP15A	H9
KTFSS15380HPGM KCP15A	H9
KTFSS15400HPGM KCP15A	H9
KTFSS15500HPGM KCP15A	H9
KTFSS15600HPGM KCP15A	H9
KTFSS15700HPGM KCP15A	H9
KTFSS15800HPGM KCP15A	H9
KTFSS15900HPGM KCP15A	H9
KTFSS16000HPGM KCP15A	H9
KTFSS16080HPGM KCP15A	H9
KTFSS16100HPGM KCP15A	H9
KTFSS16200HPGM KCP15A	H9
KTFSS16300HPGM KCP15A	H9
KTFSS16400HPGM KCP15A	H9
KTFSS16500HPGM KCP15A	H9
KTFSS16600HPGM KCP15A	H9
KTFSS16700HPGM KCP15A	H9
KTFSS16800HPGM KCP15A	H9
KTFSS16900HPGM KCP15A	H9
KTFSS17000HPGM KCP15A	H9
KTFSS17100HPGM KCP15A	H9
KTFSS17200HPGM KCP15A	H9
KTFSS17300HPGM KCP15A	H9
KTFSS17400HPGM KCP15A	H9
KTFSS17480HPGM KCP15A	H9
KTFSS17500HPGM KCP15A	H9
KTFSS17600HPGM KCP15A	H9
KTFSS17700HPGM KCP15A	H9
KTFSS17800HPGM KCP15A	H9
KTFSS17900HPGM KCP15A	H9
KTFSS18000HPGM KCP15A	H9
KTFSS18100HPGM KCP15A	H9
KTFSS18200HPGM KCP15A	H9
KTFSS18300HPGM KCP15A	H9
KTFSS18400HPGM KCP15A	H9
KTFSS18500HPGM KCP15A	H9
KTFSS18600HPGM KCP15A	H9
KTFSS18700HPGM KCP15A	H9
KTFSS18800HPGM KCP15A	H9
KTFSS18900HPGM KCP15A	H9
KTFSS19000HPGM KCP15A	H9
KTFSS19100HPGM KCP15A	H9
KTFSS19200HPGM KCP15A	H9
KTFSS19300HPGM KCP15A	H9
KTFSS19400HPGM KCP15A	H10
KTFSS19460HPGM KCP15A	H10
KTFSS19500HPGM KCP15A	H10
KTFSS19600HPGM KCP15A	H10
KTFSS19700HPGM KCP15A	H10
KTFSS19800HPGM KCP15A	H10
KTFSS19900HPGM KCP15A	H10
KTFSS20000HPGM KCP15A	H10
KTFSS20100HPGM KCP15A	H10
KTFSS20200HPGM KCP15A	H10
KTFSS20300HPGM KCP15A	H10
KTFSS20500HPGM KCP15A	H10
KTFSS20600HPGM KCP15A	H10
KTFSS20700HPGM KCP15A	H10
KTFSS20800HPGM KCP15A	H10
KTFSS20900HPGM KCP15A	H10
KTFSS20990HPGM KCP15A	H10
KTFSS21000HPGM KCP15A	H10
KTFSS21100HPGM KCP15A	H10
KTFSS21200HPGM KCP15A	H10
KTFSS21300HPGM KCP15A	H10
KTFSS21400HPGM KCP15A	H10
KTFSS21500HPGM KCP15A	H10
KTFSS21700HPGM KCP15A	H10
KTFSS21800HPGM KCP15A	H10
KTFSS21900HPGM KCP15A	H10
KTFSS22000HPGM KCP15A	H10
KTFSS22100HPGM KCP15A	H10
KTFSS22200HPGM KCP15A	H10
KTFSS22400HPGM KCP15A	H10
KTFSS22500HPGM KCP15A	H10
KTFSS22600HPGM KCP15A	H10
KTFSS22700HPGM KCP15A	H10
KTFSS22800HPGM KCP15A	H10
KTFSS22900HPGM KCP15A	H10
KTFSS23000HPGM KCP15A	H10
KTFSS23100HPGM KCP15A	H10
KTFSS23200HPGM KCP15A	H10
KTFSS23300HPGM KCP15A	H10
KTFSS23400HPGM KCP15A	H10
KTFSS23500HPGM KCP15A	H10
KTFSS23600HPGM KCP15A	H10
KTFSS23700HPGM KCP15A	H10
KTFSS23800HPGM KCP15A	H10
KTFSS23900HPGM KCP15A	H10
KTFSS24000HPGM KCP15A	H10
KTFSS24100HPGM KCP15A	H10
KTFSS24200HPGM KCP15A	H10
KTFSS24300HPGM KCP15A	H10
KTFSS24400HPGM KCP15A	H10
KTFSS24500HPGM KCP15A	H10
KTFSS24600HPGM KCP15A	H10
KTFSS24700HPGM KCP15A	H10
KTFSS24800HPGM KCP15A	H10
KTFSS24900HPGM KCP15A	H10
KTFSS25000HPGM KCP15A	H10
KTFSS25100HPGM KCP15A	H10
KTFSS25200HPGM KCP15A	H10
KTFSS25250HPGM KCP15A	H10
KTFSS25300HPGM KCP15A	H10
KTFSS25500HPGM KCP15A	H10
KTFSS25540HPGM KCP15A	H10
KTFSS25600HPGM KCP15A	H10
KTFSS25700HPGM KCP15A	H10
KTFSS25800HPGM KCP15A	H10
KTFSS25900HPGM KCP15A	H10
KTFSS26000HPGM KCP15A	H10
KTFST02500HPC KC7410	H12
KTFST02500HPL KCMS15	H15
KTFST02610HPL KCMS15	H15
KTFST02656HPC KC7410	H12
KTFST02813HPC KC7410	H12
KTFST03125HPC KC7410	H12
KTFST03125HPL KCMS15	H15
KTFST03230HPC KC7410	H12
KTFST03230HPL KCMS15	H15
KTFST03281HPL KCMS15	H15
KTFST03438HPC KC7410	H12
KTFST03750HPC KC7410	H12
KTFST03763HPL KCMS15	H15
KTFST03906HPC KC7410	H12
KTFST03946HPC KC7410	H12
KTFST04063HPC KC7410	H12
KTFST04063HPL KCMS15	H15
KTFST04219HPC KC7410	H12
KTFST04375HPC KC7410	H12
KTFST04375HPL KCMS15	H15
KTFST04688HPC KC7410	H12
KTFST04688HPL KCMS15	H15
KTFST04844HPC KC7410	H12
KTFST04844HPL KCMS15	H15
KTFST05000HPC KC7410	H12
KTFST05000HPL KCMS15	H15
KTFST05156HPC KC7410	H12
KTFST05156HPL KCMS15	H15
KTFST05312HPC KC7410	H12
KTFST05312HPL KCMS15	H15
KTFST05469HPC KC7410	H12
KTFST05469HPL KCMS15	H15
KTFST05471HPL KCMS15	H15
KTFST05625HPC KC7410	H12
KTFST05625HPL KCMS15	H15
KTFST05781HPC KC7410	H12
KTFST05781HPL KCMS15	H15
KTFST05938HPC KC7410	H12
KTFST06000HPCM KC7410	H12
KTFST06000HPLM KCMS15	H15
KTFST06200HPCM KC7410	H12
KTFST06250HPC KC7410	H13
KTFST06250HPL KCMS15	H16
KTFST06340HPC KC7410	H13
KTFST06340HPL KCMS15	H16
KTFST06406HPC KC7410	H13
KTFST06406HPL KCMS15	H16
KTFST06500HPCM KC7410	H12
KTFST06500HPLM KCMS15	H15
KTFST06530HPCM KC7410	H12
KTFST06563HPC KC7410	H13
KTFST06563HPL KCMS15	H16
KTFST06700HPCM KC7410	H12
KTFST06719HPC KC7410	H13
KTFST06800HPCM KC7410	H12
KTFST06800HPLM KCMS15	H15
KTFST06875HPC KC7410	H13
KTFST06875HPL KCMS15	H16
KTFST07000HPCM KC7410	H12
KTFST07000HPLM KCMS15	H15
KTFST07188HPC KC7410	H13
KTFST07188HPL KCMS15	H16
KTFST07300HPCM KC7410	H12
KTFST07344HPL KCMS15	H16
KTFST07500HPC KC7410	H13
KTFST07500HPCM KC7410	H12
KTFST07500HPL KCMS15	H16
KTFST07500HPLM KCMS15	H15
KTFST07570HPL KCMS15	H16
KTFST07580HPL KCMS15	H16
KTFST07590HPC KC7410	H13
KTFST07590HPL KCMS15	H16
KTFST07600HPCM KC7410	H12
KTFST07620HPL KCMS15	H16
KTFST07656HPC KC7410	H13
KTFST07656HPL KCMS15	H16
KTFST07800HPCM KC7410	H12
KTFST07800HPLM KCMS15	H15
KTFST07813HPL KCMS15	H16
KTFST07969HPC KC7410	H13
KTFST08000HPCM KC7410	H12
KTFST08000HPLM KCMS15	H15
KTFST08100HPCM KC7410	H12
KTFST08100HPLM KCMS15	H15
KTFST08125HPC KC7410	H13
KTFST08125HPL KCMS15	H16
KTFST08400HPLM KCMS15	H15
KTFST08438HPC KC7410	H13
KTFST08500HPCM KC7410	H12
KTFST08500HPLM KCMS15	H15
KTFST08600HPCM KC7410	H12
KTFST08600HPLM KCMS15	H15
KTFST08700HPCM KC7410	H12
KTFST08700HPLM KCMS15	H15
KTFST08750HPC KC7410	H13
KTFST08750HPL KCMS15	H16
KTFST08800HPLM KCMS15	H15
KTFST08900HPLM KCMS15	H15
KTFST09000HPCM KC7410	H12
KTFST09000HPLM KCMS15	H15
KTFST09100HPCM KC7410	H12
KTFST09100HPLM KCMS15	H15
KTFST09200HPLM KCMS15	H15
KTFST09219HPC KC7410	H13
KTFST09375HPC KC7410	H13
KTFST09375HPL KCMS15	H16
KTFST09400HPLM KCMS15	H15
KTFST09500HPCM KC7410	H12
KTFST09500HPLM KCMS15	H15
KTFST09600HPCM KC7410	H12
KTFST09600HPLM KCMS15	H15
KTFST09688HPC KC7410	H13
KTFST09700HPCM KC7410	H12
KTFST09700HPLM KCMS15	H15
KTFST09800HPCM KC7410	H12
KTFST09800HPLM KCMS15	H15
KTFST09900HPLM KCMS15	H15
KTFST10000HPC KC7410	H13
KTFST10000HPCM KC7410	H12
KTFST10000HPL KCMS15	H16
KTFST10000HPLM KCMS15	H15
KTFST10100HPLM KCMS15	H15
KTFST10110HPC KC7410	H13
KTFST10110HPL KCMS15	H16
KTFST10160HPC KC7410	H13
KTFST10160HPL KCMS15	H16
KTFST10200HPCM KC7410	H12
KTFST10200HPLM KCMS15	H15
KTFST10300HPCM KC7410	H12
KTFST10300HPLM KCMS15	H15
KTFST10400HPLM KCMS15	H15
KTFST10500HPCM KC7410	H12
KTFST10500HPLM KCMS15	H15
KTFST10600HPCM KC7410	H12
KTFST10600HPLM KCMS15	H15
KTFST10700HPCM KC7410	H12
KTFST10700HPLM KCMS15	H15
KTFST10800HPCM KC7410	H12
KTFST10800HPLM KCMS15	H15
KTFST10900HPLM KCMS15	H15
KTFST11000HPCM KC7410	H12
KTFST11000HPLM KCMS15	H15

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KTFST11100HPCM KC7410	H12
KTFST11100HPLM KCMS15	H15
KTFST11200HPLM KCMS15	H15
KTFST11400HPCM KC7410	H12
KTFST11400HPLM KCMS15	H15
KTFST11500HPCM KC7410	H12
KTFST11500HPLM KCMS15	H15
KTFST11600HPLM KCMS15	H15
KTFST11800HPCM KC7410	H12
KTFST11800HPLM KCMS15	H15
KTFST12000HPCM KC7410	H12
KTFST12000HPLM KCMS15	H15
KTFST12200HPLM KCMS15	H15
KTFST12500HPCM KC7410	H12
KTFST12500HPLM KCMS15	H15
KTFST12800HPLM KCMS15	H15
KTFST12900HPLM KCMS15	H15
KTFST13000HPCM KC7410	H12
KTFST13000HPLM KCMS15	H15
KTFST13200HPCM KC7410	H12
KTFST13200HPLM KCMS15	H15
KTFST13300HPCM KC7410	H12
KTFST13500HPCM KC7410	H12
KTFST13500HPLM KCMS15	H15
KTFST13600HPCM KC7410	H12
KTFST13800HPCM KC7410	H12
KTFST13800HPLM KCMS15	H15
KTFST14000HPCM KC7410	H12
KTFST14000HPLM KCMS15	H15
KTFST14100HPCM KC7410	H12
KTFST14100HPLM KCMS15	H15
KTFST14200HPLM KCMS15	H15
KTFST14300HPLM KCMS15	H15
KTFST14400HPLM KCMS15	H15
KTFST14500HPCM KC7410	H12
KTFST14500HPLM KCMS15	H15
KTFST14600HPCM KC7410	H12
KTFST14800HPCM KC7410	H12
KTFST14800HPLM KCMS15	H16
KTFST15000HPCM KC7410	H12
KTFST15000HPLM KCMS15	H16
KTFST15100HPCM KC7410	H12
KTFST15100HPLM KCMS15	H16
KTFST15200HPCM KC7410	H12
KTFST15200HPLM KCMS15	H16
KTFST15300HPCM KC7410	H12
KTFST15500HPCM KC7410	H13
KTFST15500HPLM KCMS15	H16
KTFST15600HPCM KC7410	H13
KTFST15800HPCM KC7410	H13
KTFST16000HPCM KC7410	H13
KTFST16000HPLM KCMS15	H16
KTFST16100HPCM KC7410	H13
KTFST16100HPLM KCMS15	H16
KTFST16150HPLM KCMS15	H16
KTFST16200HPCM KC7410	H13
KTFST16300HPCM KC7410	H13
KTFST16500HPCM KC7410	H13
KTFST16500HPLM KCMS15	H16
KTFST16550HPCM KC7410	H13
KTFST16600HPCM KC7410	H13
KTFST17000HPCM KC7410	H13
KTFST17000HPLM KCMS15	H16
KTFST17100HPCM KC7410	H13
KTFST17200HPCM KC7410	H13
KTFST17300HPCM KC7410	H13
KTFST17480HPLM KCMS15	H16
KTFST17500HPCM KC7410	H13
KTFST17500HPLM KCMS15	H16
KTFST17550HPCM KC7410	H13
KTFST17600HPCM KC7410	H13
KTFST17700HPCM KC7410	H13
KTFST17700HPLM KCMS15	H16
KTFST17800HPCM KC7410	H13
KTFST18000HPCM KC7410	H13
KTFST18000HPLM KCMS15	H16
KTFST18100HPCM KC7410	H13
KTFST18500HPCM KC7410	H13
KTFST18500HPLM KCMS15	H16
KTFST18600HPCM KC7410	H13
KTFST18700HPCM KC7410	H13
KTFST19000HPCM KC7410	H13
KTFST19000HPLM KCMS15	H16
KTFST19200HPLM KCMS15	H16
KTFST19460HPLM KCMS15	H16
KTFST19500HPCM KC7410	H13
KTFST19500HPLM KCMS15	H16
KTFST19800HPCM KC7410	H13
KTFST19850HPLM KCMS15	H16
KTFST20000HPCM KC7410	H13
KTFST20000HPLM KCMS15	H16
KTFST20300HPCM KC7410	H13
KTFST20500HPCM KC7410	H13
KTFST20500HPLM KCMS15	H16
KTFST21000HPCM KC7410	H13
KTFST21000HPLM KCMS15	H16
KTFST21150HPLM KCMS15	H16
KTFST21500HPCM KC7410	H13
KTFST21500HPLM KCMS15	H16
KTFST22000HPCM KC7410	H13
KTFST22000HPLM KCMS15	H16
KTFST22440HPCM KC7410	H13
KTFST22500HPCM KC7410	H13
KTFST22500HPLM KCMS15	H16
KTFST23000HPCM KC7410	H13
KTFST23000HPLM KCMS15	H16
KTFST23500HPCM KC7410	H13
KTFST23500HPLM KCMS15	H16
KTFST24000HPCM KC7410	H13
KTFST24000HPLM KCMS15	H16
KTFST24500HPCM KC7410	H13
KTFST24500HPLM KCMS15	H16
KTFST25000HPCM KC7410	H13
KTFST25000HPLM KCMS15	H16
KTFST25070HPCM KC7410	H13
KTFST25500HPCM KC7410	H13
KTFST25500HPLM KCMS15	H16
KTFST25600HPLM KCMS15	H16
KTFST25650HPLM KCMS15	H16
KTFST26000HPCM KC7410	H13
KTFST26000HPLM KCMS15	H16
KTIP03125FEG KCPM45	H36
KTIP03125HP KCP15	H32
KTIP0313R12SS038	H39
KTIP0313R3SCF050	H41
KTIP0313R3SS038	H39
KTIP0313R5SCF050	H41
KTIP0313R5SS038	H39
KTIP0313R8SCF050	H41
KTIP0313R8SS038	H39
KTIP03214HP KCP15	H32
KTIP03230HP KCP15	H32
KTIP03281HP KCP15	H32
KTIP03320HP KCP15	H32
KTIP0335R12SS038	H39
KTIP0335R3SCF050	H41
KTIP0335R3SS038	H39
KTIP0335R5SCF050	H41
KTIP0335R5SS038	H39
KTIP0335R8SCF050	H41
KTIP0335R8SS038	H39
KTIP03390HP KCP15	H32
KTIP03438HP KCP15	H32
KTIP03480HP KCP15	H32
KTIP0354R12SS038	H39
KTIP0354R3SCF050	H41
KTIP0354R3SS038	H39
KTIP0354R5SCF050	H41
KTIP0354R5SS038	H39
KTIP0354R8SCF050	H41
KTIP0354R8SS038	H39
KTIP03580HP KCP15	H32
KTIP03594FEG KCPM45	H36
KTIP03594HP KCP15	H32
KTIP03680HP KCP15	H32
KTIP0374R12SS038	H39
KTIP0374R12SS044	H39
KTIP0374R3SCF050	H41
KTIP0374R3SS038	H39
KTIP0374R3SS044	H39
KTIP0374R5SCF050	H41
KTIP0374R5SS038	H39
KTIP0374R5SS044	H39
KTIP0374R8SCF050	H41
KTIP0374R8SS038	H39
KTIP0374R8SS044	H39
KTIP03750HP KCP15	H32
KTIP03763HP KCP15	H32
KTIP03770HP KCP15	H32
KTIP03820HP KCP15	H32
KTIP03860HP KCP15	H32
KTIP03906HP KCP15	H32
KTIP03946HP KCP15	H32
KTIP0394R12SS044	H39
KTIP0394R3SCF063	H41
KTIP0394R3SS044	H39
KTIP0394R5SCF063	H41
KTIP0394R5SS044	H39
KTIP0394R8SCF063	H41
KTIP0394R8SS044	H39
KTIP03970HP KCP15	H32
KTIP04040HP KCP15	H32
KTIP04063HP KCP15	H32
KTIP04130HP KCP15	H32
KTIP0413R12SS044	H39
KTIP0413R3SCF063	H41
KTIP0413R3SS044	H39
KTIP0413R5SCF063	H41
KTIP0413R5SS044	H39
KTIP0413R8SCF063	H41
KTIP0413R8SS044	H39
KTIP04219HP KCP15	H32
KTIP0433R12SS044	H39
KTIP0433R3SCF063	H41
KTIP0433R3SS044	H39
KTIP0433R5SCF063	H41
KTIP0433R5SS044	H39
KTIP0433R8SCF063	H41
KTIP0433R8SS044	H39
KTIP04375HP KCP15	H32
KTIP04531HP KCP15	H32
KTIP0453R12SS050	H39
KTIP0453R3SCF063	H41
KTIP0453R3SS050	H39
KTIP0453R5SCF063	H41
KTIP0453R5SS050	H39
KTIP0453R8SCF063	H41
KTIP0453R8SS050	H39
KTIP04571HP KCP15	H32
KTIP04688HP KCP15	H33
KTIP0472R12SS050	H39
KTIP0472R3SCF063	H41
KTIP0472R3SS050	H39
KTIP0472R5SCF063	H41
KTIP0472R5SS050	H39
KTIP0472R8SCF063	H41
KTIP0472R8SS050	H39
KTIP04844HP KCP15	H33
KTIP04911HP KCP15	H33
KTIP0492R12SS050	H39
KTIP0492R12SS056	H39
KTIP0492R3SCF063	H41
KTIP0492R3SS050	H39
KTIP0492R3SS056	H39
KTIP0492R5SCF063	H41
KTIP0492R5SS050	H39
KTIP0492R5SS056	H39
KTIP0492R8SCF063	H41
KTIP0492R8SS050	H39
KTIP0492R8SS056	H39
KTIP05000FEG KCPM45	H36
KTIP05000HP KCP15	H33
KTIP05080HP KCP15	H33
KTIP0512R12SS056	H39
KTIP0512R3SCF063	H41
KTIP0512R3SS056	H39
KTIP0512R5SCF063	H41
KTIP0512R5SS056	H39
KTIP0512R8SCF063	H41
KTIP0512R8SS056	H39
KTIP05156HP KCP15	H33
KTIP05312HP KCP15	H33
KTIP0532R12SS056	H39
KTIP0532R3SCF063	H41
KTIP0532R3SS056	H39
KTIP0532R5SCF063	H41
KTIP0532R5SS056	H39
KTIP0532R8SCF063	H41
KTIP0532R8SS056	H39
KTIP05469HP KCP15	H33
KTIP05471HP KCP15	H33
KTIP0551R12SS056	H39
KTIP0551R3SCF063	H41
KTIP0551R3SS056	H39
KTIP0551R5SCF063	H41
KTIP0551R5SS056	H39
KTIP0551R8SCF063	H41
KTIP0551R8SS056	H39
KTIP05625HP KCP15	H33
KTIP0571R12SS063	H39
KTIP0571R3SCF063	H41
KTIP0571R3SS063	H39
KTIP0571R5SCF063	H41
KTIP0571R5SS063	H39
KTIP0571R8SCF063	H41
KTIP0571R8SS063	H39
KTIP05774HP KCP15	H33
KTIP05781HP KCP15	H33
KTIP0591R12SS063	H39
KTIP0591R3SCF075	H41
KTIP0591R3SS063	H39
KTIP0591R5SCF075	H41
KTIP0591R5SS063	H39
KTIP0591R8SCF075	H41
KTIP0591R8SS063	H39
KTIP05938HP KCP15	H33
KTIP06094HP KCP15	H33
KTIP06250HP KCP15	H33
KTIP0630R12SS069	H39
KTIP0630R3SCF075	H41
KTIP0630R3SS069	H39
KTIP0630R5SCF075	H41
KTIP0630R5SS069	H39
KTIP0630R8SCF075	H41
KTIP0630R8SS069	H39
KTIP06310HP KCP15	H33
KTIP06330HP KCP15	H33
KTIP06406HP KCP15	H33
KTIP06563HP KCP15	H33
KTIP0669R12SS069	H39
KTIP0669R3SCF075	H41
KTIP0669R3SS069	H39
KTIP0669R5SCF075	H41
KTIP0669R5SS069	H39
KTIP0669R8SCF075	H41
KTIP0669R8SS069	H39
KTIP06719HP KCP15	H33
KTIP06875HP KCP15	H33
KTIP07031HP KCP15	H33
KTIP0709R12SS075	H39
KTIP0709R3SCF075	H41
KTIP0709R3SS075	H39
KTIP0709R5SCF075	H41
KTIP0709R5SS075	H39
KTIP0709R8SCF075	H41
KTIP0709R8SS075	H39
KTIP07188HP KCP15	H33
KTIP07344HP KCP15	H33
KTIP0748R12SS075	H39
KTIP0748R3SCF075	H41
KTIP0748R3SS075	H39
KTIP0748R5SCF075	H41
KTIP0748R5SS075	H39
KTIP0748R8SCF075	H41
KTIP0748R8SS075	H39
KTIP07500FEG KCPM45	H36
KTIP07500HP KCP15	H33
KTIP07570HP KCP15	H33
KTIP07580HP KCP15	H33
KTIP07620HP KCP15	H33
KTIP07656HP KCP15	H33
KTIP07813HP KCP15	H34
KTIP0787R12SS081	H39
KTIP0787R3SCF100	H41
KTIP0787R3SS081	H39
KTIP0787R5SCF100	H41
KTIP0787R5SS081	H39
KTIP0787R8SCF100	H41

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KTIP0787R8SS081	H39
KTIP07969HP KCP15	H34
KTIP0800FEGM KCPM45	H36
KTIP0800HPM KCP15	H32
KTIP080R12SS10M	H38
KTIP080R1SCF12M	H40
KTIP080R1SS10M	H38
KTIP080R3BF08M	I11
KTIP080R3BF09M	I11
KTIP080R3SCF12M	H40
KTIP080R3SS10M	H38
KTIP080R4BF09M	I12
KTIP080R5BF09M	I13
KTIP080R5SCF12M	H40
KTIP080R5SS10M	H38
KTIP080R8SCF12M	H40
KTIP080R8SS10M	H38
KTIP0810HPM KCP15	H32
KTIP08125HP KCP15	H34
KTIP0827R12SS088	H39
KTIP0827R3SCF100	H41
KTIP0827R3SS088	H39
KTIP0827R5SCF100	H41
KTIP0827R5SS088	H39
KTIP0827R8SCF100	H41
KTIP0827R8SS088	H39
KTIP0830HPM KCP15	H32
KTIP0840HPM KCP15	H32
KTIP08438HP KCP15	H34
KTIP0850FEGM KCPM45	H36
KTIP0850HPM KCP15	H32
KTIP0852FEGM KCPM45	H36
KTIP085R12SS10M	H38
KTIP085R1SCF12M	H40
KTIP085R1SS10M	H38
KTIP085R3BF09M	I11
KTIP085R3SCF12M	H40
KTIP085R3SS10M	H38
KTIP085R4BF09M	I12
KTIP085R5BF09M	I13
KTIP085R5SCF12M	H40
KTIP085R5SS10M	H38
KTIP085R8SCF12M	H40
KTIP085R8SS10M	H38
KTIP0860HPM KCP15	H32
KTIP0866R12SS088	H39
KTIP0866R3SCF100	H41
KTIP0866R3SS088	H39
KTIP0866R5SCF100	H41
KTIP0866R5SS088	H39
KTIP0866R8SCF100	H41
KTIP0866R8SS088	H39
KTIP0870HPM KCP15	H32
KTIP08750HP KCP15	H34
KTIP0880HPM KCP15	H32
KTIP0890HPM KCP15	H32
KTIP0900FEGM KCPM45	H36
KTIP0900HPM KCP15	H32
KTIP0906R12SS094	H39
KTIP0906R3SCF100	H41
KTIP0906R3SS094	H39
KTIP0906R5SCF100	H41
KTIP0906R5SS094	H39
KTIP0906R8SCF100	H41
KTIP0906R8SS094	H39
KTIP090R12SS10M	H38
KTIP090R1SCF12M	H40
KTIP090R1SS10M	H38
KTIP090R3BF09M	I11
KTIP090R3BF10M	I11
KTIP090R3SCF12M	H40
KTIP090R3SS10M	H38
KTIP090R4BF10M	I12
KTIP090R5BF10M	I13
KTIP090R5SCF12M	H40
KTIP090R5SS10M	H38
KTIP090R8SCF12M	H40
KTIP090R8SS10M	H38
KTIP0910HPM KCP15	H32
KTIP0920HPM KCP15	H32
KTIP0930HPM KCP15	H32
KTIP09375HP KCP15	H34
KTIP0940HPM KCP15	H32
KTIP0945R12SS100	H39
KTIP0945R3SCF100	H41
KTIP0945R3SS100	H39
KTIP0945R5SCF100	H41
KTIP0945R5SS100	H39
KTIP0945R8SCF100	H41
KTIP0945R8SS100	H39
KTIP0950FEGM KCPM45	H36
KTIP0950HPM KCP15	H32
KTIP095R12SS10M	H38
KTIP095R1SCF12M	H40
KTIP095R1SS10M	H38
KTIP095R3BF10M	I11
KTIP095R3SCF12M	H40
KTIP095R3SS10M	H38
KTIP095R4BF10M	I12
KTIP095R5BF10M	I13
KTIP095R5SCF12M	H40
KTIP095R5SS10M	H38
KTIP095R8SCF12M	H40
KTIP095R8SS10M	H38
KTIP0960HPM KCP15	H32
KTIP09688HP KCP15	H34
KTIP0983HPM KCP15	H32
KTIP0984R12SS100	H39
KTIP0984R3SCF100	H41
KTIP0984R3SS100	H39
KTIP0984R5SCF100	H41
KTIP0984R5SS100	H39
KTIP0984R8SCF100	H41
KTIP0984R8SS100	H39
KTIP0990HPM KCP15	H32
KTIP10000HP KCP15	H34
KTIP1000FEGM KCPM45	H36
KTIP1000HPM KCP15	H32
KTIP100R12SS12M	H38
KTIP100R1SCF16M	H40
KTIP100R1SS12M	H38
KTIP100R3BF10M	I11
KTIP100R3BF11M	I11
KTIP100R3SCF16M	H40
KTIP100R3SS12M	H38
KTIP100R4BF11M	I12
KTIP100R5BF11M	I13
KTIP100R5SCF16M	H40
KTIP100R5SS12M	H38
KTIP100R8SCF16M	H40
KTIP100R8SS12M	H38
KTIP1010FEGM KCPM45	H36
KTIP1010HPM KCP15	H32
KTIP10110HP KCP15	H34
KTIP10160HP KCP15	H34
KTIP1020HPM KCP15	H32
KTIP1024R12SS125	H39
KTIP1024R3SCF100	H41
KTIP1024R3SS125	H39
KTIP1024R5SCF100	H41
KTIP1024R5SS125	H39
KTIP1024R8SCF100	H41
KTIP1024R8SS125	H39
KTIP1030HPM KCP15	H32
KTIP10310HP KCP15	H34
KTIP1040HPM KCP15	H32
KTIP10469HP KCP15	H34
KTIP1050FEGM KCPM45	H36
KTIP1050HPM KCP15	H32
KTIP105R12SS12M	H38
KTIP105R1SCF16M	H40
KTIP105R1SS12M	H38
KTIP105R3BF11M	I11
KTIP105R3SCF16M	H40
KTIP105R3SS12M	H38
KTIP105R4BF11M	I12
KTIP105R5BF11M	I13
KTIP105R5SCF16M	H40
KTIP105R5SS12M	H38
KTIP105R8SCF16M	H40
KTIP105R8SS12M	H38
KTIP1060HPM KCP15	H32
KTIP1063R12SS125	H39
KTIP1063R3SCF100	H41
KTIP1063R3SS125	H39
KTIP1063R5SCF100	H41
KTIP1063R5SS125	H39
KTIP1063R8SCF100	H41
KTIP1063R8SS125	H39
KTIP1070HPM KCP15	H32
KTIP1080FEGM KCPM45	H36
KTIP1080HPM KCP15	H32
KTIP1090HPM KCP15	H32
KTIP10938HP KCP15	H34
KTIP1100FEGM KCPM45	H36
KTIP1100HPM KCP15	H32
KTIP110R12SS12M	H38
KTIP110R1SCF16M	H40
KTIP110R1SS12M	H38
KTIP110R3BF11M	I11
KTIP110R3BF12M	I11
KTIP110R3SCF16M	H40
KTIP110R3SS12M	H38
KTIP110R4BF12M	I12
KTIP110R5BF12M	I13
KTIP110R5SCF16M	H40
KTIP110R5SS12M	H38
KTIP110R8SCF16M	H40
KTIP110R8SS12M	H38
KTIP1110HPM KCP15	H32
KTIP1120HPM KCP15	H32
KTIP1130HPM KCP15	H32
KTIP1140HPM KCP15	H32
KTIP1150FEGM KCPM45	H36
KTIP1150HPM KCP15	H32
KTIP115R12SS12M	H38
KTIP115R1SCF16M	H40
KTIP115R1SS12M	H38
KTIP115R3BF12M	I11
KTIP115R3SCF16M	H40
KTIP115R3SS12M	H38
KTIP115R4BF12M	I12
KTIP115R5BF12M	I13
KTIP115R5SCF16M	H40
KTIP115R5SS12M	H38
KTIP115R8SCF16M	H40
KTIP115R8SS12M	H38
KTIP1160HPM KCP15	H32
KTIP1170FEGM KCPM45	H36
KTIP1170HPM KCP15	H32
KTIP1180HPM KCP15	H32
KTIP1190HPM KCP15	H32
KTIP1200FEGM KCPM45	H36
KTIP1200HPM KCP15	H33
KTIP120R12SS14M	H38
KTIP120R1SCF16M	H40
KTIP120R1SS14M	H38
KTIP120R3BF12M	I11
KTIP120R3BF13M	I11
KTIP120R3SCF16M	H40
KTIP120R3SS14M	H38
KTIP120R4BF13M	I12
KTIP120R5BF13M	I13
KTIP120R5SCF16M	H40
KTIP120R5SS14M	H38
KTIP120R8SCF16M	H40
KTIP120R8SS14M	H38
KTIP1210HPM KCP15	H33
KTIP1220HPM KCP15	H33
KTIP1240HPM KCP15	H33
KTIP1250FEGM KCPM45	H36
KTIP1250HPM KCP15	H33
KTIP125R12SS14M	H38
KTIP125R1SCF16M	H40
KTIP125R1SS14M	H38
KTIP125R3BF13M	I11
KTIP125R3SCF16M	H40
KTIP125R3SS14M	H38
KTIP125R4BF13M	I12
KTIP125R5BF13M	I13
KTIP125R5SCF16M	H40
KTIP125R5SS14M	H38
KTIP125R8SCF16M	H40
KTIP125R8SS14M	H38
KTIP1260HPM KCP15	H33
KTIP1280HPM KCP15	H33
KTIP1300FEGM KCPM45	H36
KTIP1300HPM KCP15	H33
KTIP130R12SS14M	H38
KTIP130R1SCF16M	H40
KTIP130R1SS14M	H38
KTIP130R3BF13M	I11
KTIP130R3BF14M	I11
KTIP130R3SCF16M	H40
KTIP130R3SS14M	H38
KTIP130R4BF14M	I12
KTIP130R5BF14M	I13
KTIP130R5SCF16M	H40
KTIP130R5SS14M	H38
KTIP130R8SCF16M	H40
KTIP130R8SS14M	H38
KTIP1320HPM KCP15	H33
KTIP1328HPM KCP15	H33
KTIP1330HPM KCP15	H33
KTIP1338HPM KCP15	H33
KTIP1340HPM KCP15	H33
KTIP1350FEGM KCPM45	H36
KTIP1350HPM KCP15	H33
KTIP135R12SS14M	H38
KTIP135R1SCF16M	H40
KTIP135R1SS14M	H38
KTIP135R3BF14M	I11
KTIP135R3SCF16M	H40
KTIP135R3SS14M	H38
KTIP135R4BF14M	I12
KTIP135R5BF14M	I13
KTIP135R5SCF16M	H40
KTIP135R5SS14M	H38
KTIP135R8SCF16M	H40
KTIP135R8SS14M	H38
KTIP1360HPM KCP15	H33
KTIP1370HPM KCP15	H33
KTIP1380HPM KCP15	H33
KTIP1394HPM KCP15	H33
KTIP1400FEGM KCPM45	H36
KTIP1400HPM KCP15	H33
KTIP140R12SS16M	H38
KTIP140R1SCF16M	H40
KTIP140R1SS16M	H38
KTIP140R3BF14M	I11
KTIP140R3BF15M	I11
KTIP140R3SCF16M	H40
KTIP140R3SS16M	H38
KTIP140R4BF15M	I12
KTIP140R5BF15M	I13
KTIP140R5SCF16M	H40
KTIP140R5SS16M	H38
KTIP140R8SCF16M	H40
KTIP140R8SS16M	H38
KTIP1410HPM KCP15	H33
KTIP1420HPM KCP15	H33
KTIP1430HPM KCP15	H33
KTIP1440HPM KCP15	H33
KTIP1450FEGM KCPM45	H36
KTIP1450HPM KCP15	H33
KTIP145R12SS16M	H38
KTIP145R1SCF16M	H40
KTIP145R1SS16M	H38
KTIP145R3BF15M	I11
KTIP145R3SCF16M	H40
KTIP145R3SS16M	H38
KTIP145R4BF15M	I12
KTIP145R5BF15M	I13
KTIP145R5SCF16M	H40
KTIP145R5SS16M	H38
KTIP145R8SCF16M	H40
KTIP145R8SS16M	H38
KTIP1460HPM KCP15	H33
KTIP1470HPM KCP15	H33
KTIP1480HPM KCP15	H33
KTIP1490FEGM KCPM45	H36
KTIP1490HPM KCP15	H33
KTIP1500FEGM KCPM45	H36
KTIP1500HPM KCP15	H33
KTIP150R12SS16M	H38
KTIP150R1SCF20M	H40
KTIP150R1SS16M	H38
KTIP150R3BF15M	I11

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
KTIP150R3BF16M	I11
KTIP150R3SCF20M	H40
KTIP150R3SS16M	H38
KTIP150R4BF16M	I12
KTIP150R5BF16M	I13
KTIP150R5SCF20M	H40
KTIP150R5SS16M	H38
KTIP150R8SCF20M	H40
KTIP150R8SS16M	H38
KTIP1510HPM KCP15	H33
KTIP1520HPM KCP15	H33
KTIP1530HPM KCP15	H33
KTIP1538HPM KCP15	H33
KTIP1540HPM KCP15	H33
KTIP1550FEGM KCPM45	H36
KTIP1550HPM KCP15	H33
KTIP1560HPM KCP15	H33
KTIP1570HPM KCP15	H33
KTIP1580HPM KCP15	H33
KTIP1595FEGM KCPM45	H36
KTIP1600FEGM KCPM45	H36
KTIP1600HPM KCP15	H33
KTIP160R12SS18M	H38
KTIP160R1SCF20M	H40
KTIP160R1SS18M	H38
KTIP160R3BF16M	I11
KTIP160R3BF17M	I11
KTIP160R3SCF20M	H40
KTIP160R3SS18M	H38
KTIP160R4BF17M	I12
KTIP160R5BF17M	I13
KTIP160R5SCF20M	H40
KTIP160R5SS18M	H38
KTIP160R8SCF20M	H40
KTIP160R8SS18M	H38
KTIP1610HPM KCP15	H33
KTIP1620HPM KCP15	H33
KTIP1630HPM KCP15	H33
KTIP1640HPM KCP15	H33
KTIP1650FEGM KCPM45	H36
KTIP1650HPM KCP15	H33
KTIP1660HPM KCP15	H33
KTIP1670HPM KCP15	H33
KTIP1680HPM KCP15	H33
KTIP1690HPM KCP15	H33
KTIP1700FEGM KCPM45	H36
KTIP1700HPM KCP15	H33
KTIP170R12SS18M	H38
KTIP170R1SCF20M	H40
KTIP170R1SS18M	H38
KTIP170R3BF17M	I11
KTIP170R3BF18M	I11
KTIP170R3SCF20M	H40
KTIP170R3SS18M	H38
KTIP170R4BF18M	I12
KTIP170R5BF18M	I13
KTIP170R5SCF20M	H40
KTIP170R5SS18M	H38
KTIP170R8SCF20M	H40
KTIP170R8SS18M	H38
KTIP1710HPM KCP15	H33
KTIP1720HPM KCP15	H33
KTIP1730HPM KCP15	H33
KTIP1740HPM KCP15	H33
KTIP1750FEGM KCPM45	H36
KTIP1750HPM KCP15	H33
KTIP1760HPM KCP15	H33
KTIP1770FEGM KCPM45	H36
KTIP1770HPM KCP15	H33
KTIP1780HPM KCP15	H33
KTIP1790HPM KCP15	H33
KTIP1800FEGM KCPM45	H36
KTIP1800HPM KCP15	H33
KTIP180R12SS20M	H38
KTIP180R1SCF25M	H40
KTIP180R1SS20M	H38
KTIP180R3BF18M	I11
KTIP180R3SCF25M	H40
KTIP180R3SS20M	H38
KTIP180R4BF18M	I12
KTIP180R5BF18M	I13
KTIP180R5SCF25M	H40
KTIP180R5SS20M	H38
KTIP180R8SCF25M	H40
KTIP180R8SS20M	H38
KTIP1810HPM KCP15	H33
KTIP1820HPM KCP15	H33
KTIP1830HPM KCP15	H33
KTIP1840HPM KCP15	H33
KTIP1850FEGM KCPM45	H36
KTIP1850HPM KCP15	H33
KTIP1860HPM KCP15	H33
KTIP1870HPM KCP15	H33
KTIP1880HPM KCP15	H33
KTIP1890HPM KCP15	H33
KTIP1900FEGM KCPM45	H36
KTIP1900HPM KCP15	H33
KTIP190R12SS20M	H38
KTIP190R1SCF25M	H40
KTIP190R1SS20M	H38
KTIP190R3SCF25M	H40
KTIP190R3SS20M	H38
KTIP190R5SCF25M	H40
KTIP190R5SS20M	H38
KTIP190R8SCF25M	H40
KTIP190R8SS20M	H38
KTIP1910HPM KCP15	H33
KTIP1920HPM KCP15	H33
KTIP1930HPM KCP15	H33
KTIP1940HPM KCP15	H33
KTIP1950FEGM KCPM45	H36
KTIP1950HPM KCP15	H33
KTIP1960HPM KCP15	H33
KTIP1970HPM KCP15	H34
KTIP1980HPM KCP15	H34
KTIP1990HPM KCP15	H34
KTIP2000FEGM KCPM45	H36
KTIP2000HPM KCP15	H34
KTIP200R12SS25M	H38
KTIP200R1SCF25M	H40
KTIP200R1SS25M	H38
KTIP200R3SCF25M	H40
KTIP200R3SS25M	H38
KTIP200R5SCF25M	H40
KTIP200R5SS25M	H38
KTIP200R8SCF25M	H40
KTIP200R8SS25M	H38
KTIP2010HPM KCP15	H34
KTIP2020HPM KCP15	H34
KTIP2030HPM KCP15	H34
KTIP2050HPM KCP15	H34
KTIP2060HPM KCP15	H34
KTIP2070HPM KCP15	H34
KTIP2080HPM KCP15	H34
KTIP2090HPM KCP15	H34
KTIP2099HPM KCP15	H34
KTIP2100HPM KCP15	H34
KTIP210R12SS25M	H38
KTIP210R1SCF25M	H40
KTIP210R1SS25M	H38
KTIP210R3SCF25M	H40
KTIP210R3SS25M	H38
KTIP210R5SCF25M	H40
KTIP210R5SS25M	H38
KTIP210R8SCF25M	H40
KTIP210R8SS25M	H38
KTIP2110HPM KCP15	H34
KTIP2150HPM KCP15	H34
KTIP2200HPM KCP15	H34
KTIP220R12SS25M	H38
KTIP220R1SCF25M	H40
KTIP220R1SS25M	H38
KTIP220R3SCF25M	H40
KTIP220R3SS25M	H38
KTIP220R5SCF25M	H40
KTIP220R5SS25M	H38
KTIP220R8SCF25M	H40
KTIP220R8SS25M	H38
KTIP2250HPM KCP15	H34
KTIP2280HPM KCP15	H34
KTIP2300HPM KCP15	H34
KTIP230R12SS25M	H38
KTIP230R1SCF25M	H40
KTIP230R1SS25M	H38
KTIP230R3SCF25M	H40
KTIP230R3SS25M	H38
KTIP230R5SCF25M	H40
KTIP230R5SS25M	H38
KTIP230R8SCF25M	H40
KTIP230R8SS25M	H38
KTIP2350HPM KCP15	H34
KTIP2400HPM KCP15	H34
KTIP240R12SS25M	H38
KTIP240R1SCF25M	H40
KTIP240R1SS25M	H38
KTIP240R3SCF25M	H40
KTIP240R3SS25M	H38
KTIP240R5SCF25M	H40
KTIP240R5SS25M	H38
KTIP240R8SCF25M	H40
KTIP240R8SS25M	H38
KTIP2450HPM KCP15	H34
KTIP2500HPM KCP15	H34
KTIP250R12SS32M	H38
KTIP250R1SCF25M	H40
KTIP250R1SS32M	H38
KTIP250R3SCF25M	H40
KTIP250R3SS32M	H38
KTIP250R5SCF25M	H40
KTIP250R5SS32M	H38
KTIP250R8SCF25M	H40
KTIP250R8SS32M	H38
KTIP2550HPM KCP15	H34
KTIP2599HPM KCP15	H34
KTIP2600HPM KCP15	H34
KTIP260R12SS32M	H38
KTIP260R1SCF25M	H40
KTIP260R1SS32M	H38
KTIP260R3SCF25M	H40
KTIP260R3SS32M	H38
KTIP260R5SCF25M	H40
KTIP260R5SS32M	H38
KTIP260R8SCF25M	H40
KTIP260R8SS32M	H38
KTIP2650HPM KCP15	H34
KTIP2700HPM KCP15	H34
KTIP270R12SS32M	H38
KTIP270R1SCF25M	H40
KTIP270R1SS32M	H38
KTIP270R3SCF25M	H40
KTIP270R3SS32M	H38
KTIP270R5SCF25M	H40
KTIP270R5SS32M	H38
KTIP270R8SCF25M	H40
KTIP270R8SS32M	H38
KTIP2750HPM KCP15	H34
KTIP2799HPM KCP15	H34
KTMDU11L0515N60 KC610M	W32
KTMDU11L0515N60 KC635M	W32
KTMDU11L1107N55 KC610M	W32
KTMDU11L1107N55 KC635M	W32
KTMDU11L1520N60 KC610M	W32
KTMDU11L1520N60 KC635M	W32
KTMDU11L1612N55 KC610M	W32
KTMDU11L1612N55 KC635M	W32
KTMDU11L2025N60 KC610M	W32
KTMDU11L2025N60 KC635M	W32
KTMDU11L2525N60 KC610M	W32
KTMDU11L2525N60 KC635M	W32
KTMDU11L2540N60 KC610M	W32
KTMDU11L2540N60 KC635M	W32
KTMDU11L4816N55 KC610M	W32
KTMDU11L4816N55 KC635M	W32
KTMDU16L0604N55 KC610M	W36
KTMDU16L0604N55 KC635M	W36
KTMDU16L1107N55 KC610M	W36
KTMDU16L1107N55 KC635M	W36
KTMDU16L1520N60 KC610M	W36
KTMDU16L1520N60 KC635M	W36
KTMDU16L1612N55 KC610M	W36
KTMDU16L2535N60 KC610M	W36
KTMDU16L2535N60 KC635M	W36
KTMDU16L4060N60 KC610M	W36
KTMDU16L4060N60 KC635M	W36
KTMDUCD058L236Z1	W30
KTMDUCD068L256Z2	W30
KTMDUCD081L315Z2	W30
KTMDUED091L300Z2	W31
KTMDUED102L415Z3	W31
KTMDUED122L452Z4	W31
KTMDUED144L512Z3	W34
KTMDUSCREW1	W29–31
KTMDUSD169L158Z4	W35
KTMDUSD209L158Z5	W35
KTMDUWD058L157Z1	W29
KTMDUWD081L236Z2	W29
KTMDUWD091L276Z2	W29
KTMDUWD102L315Z3	W29
KTMDUWD122L374Z4	W29
KTMDUWD144L374Z3	W34
KTMDUWD165L472Z4	W34
KTMS21S25SD06H	U3
KTMS25S25SD06H	U3
KTMS32S32SD08H	U3
KTMS40S32SD12H	U3
KTMS50S32SD12H	U3
KTSZR125SD430CM16A02	V139
KTSZR150SD430CM16A03	V139
KTSZR200SD430CM16A04	V139
KUAM20	B217–223, B245, B276–278
KUAM22	B72–74, B94, B115–119, B140–142, B174, B186–187, B394, B397–398
KUAM23	B198, B245, B249–251, B276–279, C196, D41
KUAM25	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
KUAM26	B74, C196, D41
KUAM27	B74, B115, B119, T91–92
KUAM28	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
KUAM30	B72, B115–119, B175–176, B186, B217, B220, B236–237, B254–255, B276–279, B395–397
KUAM31	B72–74, B94, B115–119, B140–142, B174, B186–187, B198, B245, B249–251, B276–279, B394, B397–398, C196, D41
KUAM32	B72–74, B94–95, B115–117, B119, B140–142, B186, B198, B249, B397
KUAM33	B119, B142, C196, D41
KUAM34	B217–223, B245, B276–278
KUAM35	B217, B220, B222–223
KVNS020630D	U7
KVNS021180D	U7
KVNS030630D	U7
KVNS030870D	U7
KVNS031180D	U7
KVNS031580D	U7
KVNS031970D	U8
KVNS032360D	U8
KVNS040630D	U7
KVNS040870D	U7
KVNS041180D	U7
KVNS041580D	U7
KVNS042360D	U8
KVNS050630D	U7
KVNS050870D	U7
KVNS051180D	U7
KVNS051580D	U7
KVNS060870D	U7
KVNS061180D	U7
KVNS081180D	U7
KVNS101180D	U7
KVNS102360D	U8
KW1008	V148–149
L05MNER1S	D37
L05MSCLPL2	B215
L05MSCLPR2	B215
L06MNER1S	D37
L06MSCFPR2	B213
L06MSCLPL2	B215
L06MSCLPR2	B215
L06MSDUPL2	B235
L06MSDUPR2	B235

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
L06MSTFPR2	B273
L08RNEL2	D37
L08RNER1S	D37
L08RNER2	D37
L08RSCFPL2	B213
L08RSCFPR2	B213
L08RSCLPL2	B215
L08RSCLPR2	B215
L08RSDUPL2	B235
L08RSDUPR2	B235
L08RSTFPR2	B273
L10RNER2	D37
L10RSCFPR2	B213
L10RSCLPL3	B215
L10RSCLPR2	B215
L10RSCLPR3	B215
L10RSDUPR2	B235
L10RSTFPR2	B273
L12RNER2	D37
L12RSCFPR3	B213
L12RSCLPL3	B215
L12RSCLPR3	B215
L12RSDUPR3	B235
L12RSTFPR3	B273
L16SNER3	D37
L16SSCFPR3	B213
L16SSCLPL3	B215
L16SSCLPR3	B215
LNEQ1235R03 4 KC725M	U20
LNEQ1235R03 4 KCK15	U20
LNEQ1240R03 4 KC725M	U20
LNEQ1240R03 4 KCPK30	U20
LNEQ1245R04 KC520M	U20
LNEQ1245R04 KC725M	U20
LNEQ1245R04 KCK15	U20
LNEQ1245R04 KCPK30	U20
LNEQ1250R04 KCK15	U20
LNEQ1255R04 KC725M	U20
LNEQ1255R04 KCK15	U20
LNEQ1260R04 KC725M	U20
LNEQ1260R04 KCK15	U20
LNEQ1260R04 KCPM40	U20
LNEU1235R03 4 KC520M	U19
LNEU1235R03 4 KC725M	U19
LNEU1235R03 4 KCPM40	U19
LNEU1235R03SGP 4 KC725M	U20
LNEU1240R03 4 KC520M	U19
LNEU1240R03 4 KC725M	U19
LNEU1240R03 4 KCPM40	U19
LNEU1240R03SGP 4 KC725M	U20
LNEU1240R08 4 KC520M	U19
LNEU1240R08 4 KC725M	U19
LNEU1240R08 4 KCPM40	U19
LNEU1240R16 4 KC725M	U19
LNEU1245R04 KC520M	U19
LNEU1245R04 KC725M	U19
LNEU1245R04 KCPK30	U19
LNEU1245R04 KCPM40	U19
LNEU1245R04SGP KC725M	U20
LNEU1245R08 KC520M	U19
LNEU1245R08 KC725M	U19
LNEU1245R08 KCPM40	U19
LNEU1245R08SGP KC725M	U20
LNEU1245R08SGP KCPM40	U20
LNEU1245R16 KC520M	U19
LNEU1245R16 KC725M	U19
LNEU1245R16SGP KC725M	U20
LNEU1245R32 KC520M	U19
LNEU1245R32 KC725M	U19
LNEU1250R04 KC725M	U19
LNEU1250R04 KCPM40	U19
LNEU1250R04SGP KC725M	U20
LNEU1250R08 KC725M	U19
LNEU1250R08 KCPM40	U19
LNEU1250R08SGP KC725M	U20
LNEU1255R04 KC725M	U19
LNEU1255R04 KCPM40	U19
LNEU1255R08 KC520M	U19
LNEU1255R08 KC725M	U19
LNEU1255R08 KCPM40	U19
LNEU1255R16 KC725M	U19
LNEU1255R32 KC725M	U19
LNEU1260R04 KC725M	U19
LNEU1260R04 KCPM40	U19
LNGU431ERGE KC522M	T9
LNGU431ERGE KC725M	T9
LNGU431ERGE KCPM40	T9
LNGU431ERLEJ KC422M	T8
LNGU431SRGE KC522M	T9
LNGU431SRGE KCPM40	T9
LNGU431SRGE KCSM40	T9
LNGU432ERGE KC522M	T9
LNGU432ERGE KC725M	T9
LNGU432ERGE KCPM40	T9
LNGU432ERGE KCSM30	T9
LNGU432ERGE KCSM40	T9
LNGU432ERLEJ KC422M	T8
LNGU432SRGE KC522M	T9
LNGU432SRGE KC725M	T9
LNGU432SRGE KCK15	T9
LNGU432SRGE KCPK30	T9
LNGU432SRGE KCPM40	T9
LNGU432SRGE KCSM40	T9
LNGU432SRGEM KC520M	T10
LNGU432SRGEM KC522M	T10
LNGU432SRGEM KCK15	T10
LNGU432SRGEM KCPK30	T10
LNGU432SRGEM KCPM40	T10
LNGU433ERGE KC522M	T9
LNGU433ERGE KCPM40	T9
LNGU433ERGE KCSM40	T9
LNGU433SRGEM KC520M	T10
LNGU433SRGEM KCK15	T10
LNGU433SRGEM KCPK30	T10
LNGU433SRGEM KCPM40	T10
LNGU434SRGEM KC520M	T10
LNGU434SRGEM KCK15	T10
LNGU434SRGEM KCPK30	T10
LNGU434SRGEM KCPM40	T10
LNGU541ERGE KC522M	T18
LNGU541ERGE KC725M	T18
LNGU541ERGE KCPM40	T18
LNGU541ERGE KCSM30	T18
LNGU541ERGEJ KC422M	T18
LNGU541SRGE KC520M	T19
LNGU541SRGE KC522M	T19
LNGU541SRGE KC725M	T19
LNGU541SRGE KCK15	T19
LNGU541SRGE KCPK30	T19
LNGU542ERGE KC522M	T18
LNGU542ERGE KC725M	T18
LNGU542ERGE KCPM40	T18
LNGU542ERGE KCSM30	T18
LNGU542ERGE KCSM40	T18
LNGU542ERGEJ KC422M	T18
LNGU542SRGE KC520M	T19
LNGU542SRGE KC522M	T19
LNGU542SRGE KC725M	T19
LNGU542SRGE KCK15	T19
LNGU542SRGE KCPK30	T19
LNGU542SRGE KCSM40	T19
LNGU542SRGEH KCSM40	T20
LNGU542SRGEM KC520M	T19
LNGU542SRGEM KCK15	T19
LNGU542SRGEM KCPK30	T19
LNGU542SRGEM KCPM40	T19
LNGU543ERGE KC522M	T18
LNGU543ERGE KC725M	T18
LNGU543ERGE KCPM40	T18
LNGU543ERGE KCSM30	T18
LNGU543ERGE KCSM40	T18
LNGU543SRGE KC520M	T19
LNGU543SRGE KC522M	T19
LNGU543SRGE KC725M	T19
LNGU543SRGE KCK15	T19
LNGU543SRGE KCPK30	T19
LNGU543SRGE KCSM40	T19
LNGU543SRGEM KC520M	T19
LNGU543SRGEM KCK15	T19
LNGU543SRGEM KCPM40	T19
LNGU544ERGE KC725M	T18
LNGU544ERGE KCPM40	T18
LNGU544ERGE KCSM30	T18
LNGU544SRGE KC520M	T19
LNGU544SRGE KC522M	T19
LNGU544SRGE KC725M	T19
LNGU544SRGE KCK15	T19
LNGU544SRGE KCPK30	T19
LNGU544SRGEM KC520M	T19
LNGU544SRGEM KCK15	T19
LNGU544SRGEM KCPK30	T19
LNGU544SRGEM KCPM40	T19
LNGU545SRGEM KC520M	T19
LNGU545SRGEM KCK15	T19
LNGU545SRGEM KCPK30	T19
LNGU545SRGEM KCPM40	T19
LNPU432SRGE KC520M	T10
LNPU432SRGE KC522M	T10
LNPU432SRGE KC725M	T10
LNPU432SRGE KCK15	T10
LNPU432SRGE KCPK30	T10
LNPU432SRGE KCPM40	T10
LNPU433SRGE KC520M	T10
LNPU433SRGE KC522M	T10
LNPU433SRGE KC725M	T10
LNPU433SRGE KCK15	T10
LNPU433SRGE KCPK30	T10
LNPU433SRGE KCPM40	T10
LNPU434SRGE KC520M	T10
LNPU434SRGE KC522M	T10
LNPU434SRGE KC725M	T10
LNPU434SRGE KCPK30	T10
LNPU434SRGE KCPM40	T10
LNPU541SRGE KC520M	T19
LNPU541SRGE KC522M	T19
LNPU541SRGE KC725M	T19
LNPU541SRGE KCK15	T19
LNPU541SRGE KCPK30	T19
LNPU542SRGE KC520M	T19
LNPU542SRGE KC522M	T19
LNPU542SRGE KC725M	T19
LNPU542SRGE KCK15	T19
LNPU542SRGE KCPK30	T19
LNPU542SRGE KCPM40	T19
LNPU543SRGE KC520M	T19
LNPU543SRGE KC522M	T19
LNPU543SRGE KC725M	T19
LNPU543SRGE KCPK30	T19
LNPU543SRGE KCPM40	T19
LNPU544SRGE KC520M	T19
LNPU544SRGE KC522M	T19
LNPU544SRGE KC725M	T19
LNPU544SRGE KCK15	T19
LNPU544SRGE KCPK30	T19
LNPU544SRGE KCPM40	T19
LNPU545SRGE KC522M	T19
LNPU545SRGE KC725M	T19
LNPU545SRGE KCK15	T19
LNPU545SRGE KCPK30	T19
LNPU545SRGE KCPM40	T19
LNPU763PNSLHD2 KC520M	S99, S101
LNPU763PNSLHD2 KCPK30	S99, S101
LNPU763PNSLHD2 KCPM40	S99, S101
LNPU763PNSRHD KC725M	S99, S101
LNPU763PNSRHD KCK15	S99, S101
LNPU763PNSRHD KCPK30	S99, S101
LNPU763PNSRHD KCPM40	S99, S101
LNPU763PNSRHD2 KCPK30	S99, S101
LNPU763PNSRHD2 KCPM40	S99, S101
LNPU763PNSRHD2 KCSM40	S99, S101
LNPU863ANSLHD KCPK30	S95
LNPU863ANSLHD KCPM40	S95
LNPU863ANSLHD2 KCPK30	S95
LNPU863ANSLHD2 KCPM40	S95
LNPU863ANSRHD KC725M	S95
LNPU863ANSRHD KCK15	S95
LNPU863ANSRHD KCPK30	S95
LNPU863ANSRHD2 KCPK30	S95
LNPU863ANSRHD2 KCPM40	S95
LNPU863ANSRHD2 KCSM40	S95
LNUX191940RRF KCP10	E57
LNUX191940RRF KCP25	E57
LNUX191940RRH KCP10	E57
LNUX191940RRH KCP25	E57
LNUX191940RRP KCP10	E58
LNUX191940RRP KCP25	E58
LNUX191940RRSM KCP25B	E58
LNUX191940S-WT5 KCP25B	E59
LNUX191950RRF KCP10B	E54
LNUX191950RRF KCP25B	E54
LNUX191950RRP KCP10B	E54
LNUX191950RRP KCP25B	E54
LNUX301940RRF KCP10	E57
LNUX301940RRH KCP10B	E57
LNUX301940RRH KCP25	E57
LNUX301940RRP KCP25	E58
LNUX301940RRSM KCP10B	E58
LNUX301960RRP KCP10B	E54
LNUX301960RRP KCP25B	E54
LS103	S104
LSASL103	D71
LSASL123	D71
LSASL163	D71
LSASL164	D71
LSASL83	D71
LSASR103	D71
LSASR123	D71
LSASR163	D71
LSASR164	D71
LSASR203	D71
LSASR83	D71
LSSL123D	D71
LSSL163D	D71
LSSL164D	D71
LSSR123D	D71
LSSR163D	D71
LSSR164D	D71
LSSR203D	D71
LSSR204D	D71
LSSRDH123C	D72
LSSRDH164D	D72
LT11NL10ISO KC5025	D63
LT11NL15ISO KC5025	D63
LT11NL32UN KC5025	D67
LT11NLA60 KC5025	D60
LT11NR05ISO KC5025	D63
LT11NR075ISO KC5025	D63
LT11NR075ISOCB KC5025	D64
LT11NR10ISO KC5025	D63
LT11NR10ISOCB KC5025	D64
LT11NR125ISO KC5025	D63
LT11NR125ISOCB KC5025	D64
LT11NR14BSPT KC5025	D62
LT11NR14NPT KC5010	D64
LT11NR14NPT KC5025	D64
LT11NR14NPTF KC5025	D65
LT11NR14UNJ KC5025	D68
LT11NR14W KC5025	D69
LT11NR15ISO KC5010	D63
LT11NR15ISO KC5025	D63
LT11NR15ISOCB KC5025	D64
LT11NR16UN KC5010	D67
LT11NR16UN KC5025	D67
LT11NR16UNCB KC5025	D68
LT11NR16UNJ KC5025	D68
LT11NR175ISO KC5025	D63
LT11NR18NPT KC5025	D64
LT11NR18UN KC5025	D67
LT11NR18UNCB KC5025	D68
LT11NR18UNJ KC5025	D68
LT11NR19W KC5025	D69
LT11NR20ISO KC5025	D63
LT11NR20UN KC5025	D67
LT11NR20UNCB KC5025	D68
LT11NR24UN KC5025	D67
LT11NR24UNCB KC5025	D68
LT11NR28UN KC5025	D67
LT11NR32UN KC5025	D67
LT11NR32UNCB KC5025	D68
LT11NR40UN KC5025	D67
LT11NRA55 KC5025	D60
LT11NRA60 KC5010	D60
LT11NRA60 KC5025	D60
LT11NRA60CB KC5025	D61
LT16EL05ISO KC5025	D54
LT16EL075ISO KC5025	D54
LT16EL10ISO KC5025	D54
LT16EL11W KC5025	D59

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
LT16EL125ISO KC5025	D54
LT16EL12UN KC5025	D57
LT16EL14UN KC5025	D57
LT16EL14W KC5025	D59
LT16EL15ISO KC5010	D54
LT16EL15ISO KC5025	D54
LT16EL16UN KC5025	D57
LT16EL16UNJ KC5025	D58
LT16EL175ISO KC5025	D54
LT16EL18UN KC5025	D57
LT16EL20ISO KC5025	D54
LT16EL20UN KC5025	D57
LT16EL24UN KC5025	D57
LT16EL25ISO KC5025	D54
LT16EL28UN KC5025	D57
LT16EL30ISO KC5025	D54
LT16EL8APIRD KC5025	D53
LT16EL8UN KC5025	D57
LT16ELA60 KC5025	D51
LT16ELAG55 KC5025	D51
LT16ELAG60 KC5025	D51
LT16ELG60 KC5025	D51
LT16ER05ISO KC5025	D54
LT16ER05ISOCB KC5010	D54
LT16ER05ISOCB KC5025	D54
LT16ER075ISO KC5025	D54
LT16ER075ISOCB KC5010	D54
LT16ER075ISOCB KC5025	D54
LT16ER10ACME KC5025	D52
LT16ER10APIRD KC5025	D53
LT16ER10ISO KC5010	D54
LT16ER10ISO KC5025	D54
LT16ER10ISOCB KC5010	D54
LT16ER10ISOCB KC5025	D54
LT16ER10STACME KC5025	D56
LT16ER10UN KC5025	D57
LT16ER10UNCB KC5025	D58
LT16ER10W KC5025	D59
LT16ER115NPT KC5010	D55
LT16ER115NPT KC5025	D55
LT16ER115NPTF KC5025	D55
LT16ER115NPTFCB KC5025	D56
LT16ER11BSPT KC5025	D53
LT16ER11W KC5010	D59
LT16ER11W KC5025	D59
LT16ER11WCB KC5025	D59
LT16ER125ISO KC5010	D54
LT16ER125ISO KC5025	D54
LT16ER125ISOCB KC5010	D54
LT16ER125ISOCB KC5025	D54
LT16ER12ACME KC5025	D52
LT16ER12STACME KC5025	D56
LT16ER12UN KC5010	D57
LT16ER12UN KC5025	D57
LT16ER12UNCB KC5010	D58
LT16ER12UNCB KC5025	D58
LT16ER12UNJ KC5010	D58
LT16ER12UNJ KC5025	D58
LT16ER12W KC5025	D59
LT16ER14BSPT KC5025	D53
LT16ER14NPT KC5010	D55
LT16ER14NPT KC5025	D55
LT16ER14NPTCB KC5010	D55
LT16ER14NPTCB KC5025	D55
LT16ER14NPTF KC5025	D55
LT16ER14UN KC5010	D57
LT16ER14UN KC5025	D57
LT16ER14UNCB KC5010	D58
LT16ER14UNCB KC5025	D58
LT16ER14UNJ KC5010	D58
LT16ER14UNJ KC5025	D58
LT16ER14W KC5010	D59
LT16ER14W KC5025	D59
LT16ER14WCB KC5010	D59
LT16ER14WCB KC5025	D59
LT16ER15ISO KC5010	D54
LT16ER15ISO KC5025	D54
LT16ER15ISOCB KC5010	D54
LT16ER15ISOCB KC5025	D54
LT16ER16ACME KC5025	D52
LT16ER16STACME KC5025	D56
LT16ER16UN KC5010	D57
LT16ER16UN KC5025	D57
LT16ER16UNCB KC5010	D58
LT16ER16UNCB KC5025	D58
LT16ER16UNJ KC5010	D58
LT16ER16UNJ KC5025	D58
LT16ER16W KC5025	D59
LT16ER175ISO KC5010	D54
LT16ER175ISO KC5025	D54
LT16ER175ISOCB KC5010	D54
LT16ER175ISOCB KC5025	D54
LT16ER18NPT KC5010	D55
LT16ER18NPT KC5025	D55
LT16ER18UN KC5010	D57
LT16ER18UN KC5025	D57
LT16ER18UNCB KC5010	D58
LT16ER18UNCB KC5025	D58
LT16ER18UNJ KC5010	D58
LT16ER18UNJ KC5025	D58
LT16ER18W KC5025	D59
LT16ER19W KC5010	D59
LT16ER19W KC5025	D59
LT16ER20ISO KC5010	D54
LT16ER20ISO KC5025	D54
LT16ER20ISOCB KC5010	D54
LT16ER20ISOCB KC5025	D54
LT16ER20UN KC5010	D57
LT16ER20UN KC5025	D57
LT16ER20UNCB KC5010	D58
LT16ER20UNCB KC5025	D58
LT16ER20UNJ KC5010	D58
LT16ER20UNJ KC5025	D58
LT16ER20W KC5025	D59
LT16ER24UN KC5010	D57
LT16ER24UN KC5025	D57
LT16ER24UNCB KC5010	D58
LT16ER24UNCB KC5025	D58
LT16ER24UNJ KC5025	D58
LT16ER24W KC5025	D59
LT16ER25ISO KC5010	D54
LT16ER25ISO KC5025	D54
LT16ER25ISOCB KC5025	D54
LT16ER27NPT KC5025	D55
LT16ER28UN KC5010	D57
LT16ER28UN KC5025	D57
LT16ER28UNCB KC5010	D58
LT16ER28UNCB KC5025	D58
LT16ER28UNJ KC5025	D58
LT16ER28W KC5025	D59
LT16ER2TR KC5025	D57
LT16ER30ISO KC5010	D54
LT16ER30ISO KC5025	D54
LT16ER30ISOCB KC5010	D54
LT16ER30ISOCB KC5025	D54
LT16ER32UN KC5010	D57
LT16ER32UN KC5025	D57
LT16ER32UNCB KC5010	D58
LT16ER32UNCB KC5025	D58
LT16ER32UNJ KC5025	D58
LT16ER36UN KC5025	D57
LT16ER3TR KC5025	D57
LT16ER40UN KC5025	D57
LT16ER48UN KC5025	D57
LT16ER6STACME KC5025	D56
LT16ER8ACME KC5025	D52
LT16ER8APIRD KC5025	D53
LT16ER8NPT KC5025	D55
LT16ER8RD KC5025	D56
LT16ER8STACME KC5025	D56
LT16ER8UN KC5025	D57
LT16ER8UNCB KC5010	D58
LT16ER8UNCB KC5025	D58
LT16ER8W KC5025	D59
LT16ER9W KC5025	D59
LT16ERA55 KC5025	D51
LT16ERA60 KC5010	D51
LT16ERA60 KC5025	D51
LT16ERAG55 KC5010	D51
LT16ERAG55 KC5025	D51
LT16ERAG60 KC5010	D51
LT16ERAG60 KC5025	D51
LT16ERAG60CB KC5010	D51
LT16ERAG60CB KC5025	D51
LT16ERAG60K KU25T	D52
LT16ERG55 KC5025	D51
LT16ERG60 KC5010	D51
LT16ERG60 KC5025	D51
LT16NL10ISO KC5025	D63
LT16NL10UN KC5025	D67
LT16NL11W KC5025	D69
LT16NL12UN KC5025	D67
LT16NL15ISO KC5025	D63
LT16NL16UN KC5025	D67
LT16NL20ISO KC5025	D63
LT16NL25ISO KC5025	D63
LT16NL30ISO KC5025	D63
LT16NLA60 KC5025	D60
LT16NLAG60 KC5025	D60
LT16NLG60 KC5025	D60
LT16NR05ISO KC5025	D63
LT16NR075ISO KC5025	D63
LT16NR10ACME KC5025	D61
LT16NR10APIRD KC5025	D62
LT16NR10ISO KC5010	D63
LT16NR10ISO KC5025	D63
LT16NR10ISOCB KC5025	D64
LT16NR10STACME KC5025	D66
LT16NR10UN KC5025	D67
LT16NR10UNCB KC5025	D68
LT16NR10W KC5025	D69
LT16NR115NPT KC5010	D64
LT16NR115NPT KC5025	D64
LT16NR115NPTCB KC5025	D65
LT16NR11BSPT KC5025	D62
LT16NR11W KC5010	D69
LT16NR11W KC5025	D69
LT16NR11WCB KC5025	D69
LT16NR125ISO KC5025	D63
LT16NR12ACME KC5025	D61
LT16NR12STACME KC5025	D66
LT16NR12UN KC5010	D67
LT16NR12UN KC5025	D67
LT16NR12UNCB KC5025	D68
LT16NR12UNJ KC5025	D68
LT16NR12W KC5025	D69
LT16NR14BSPT KC5025	D62
LT16NR14NPT KC5025	D64
LT16NR14NPTCB KC5025	D65
LT16NR14NPTF KC5025	D65
LT16NR14STACME KC5025	D66
LT16NR14UN KC5025	D67
LT16NR14UNCB KC5025	D68
LT16NR14W KC5025	D69
LT16NR14WCB KC5025	D69
LT16NR15ISO KC5010	D63
LT16NR15ISO KC5025	D63
LT16NR15ISOCB KC5025	D64
LT16NR16STACME KC5025	D66
LT16NR16UN KC5025	D67
LT16NR16UNCB KC5025	D68
LT16NR16UNJ KC5025	D68
LT16NR16W KC5025	D69
LT16NR175ISO KC5025	D63
LT16NR18UN KC5025	D67
LT16NR18UNCB KC5025	D68
LT16NR19W KC5025	D69
LT16NR20ISO KC5010	D63
LT16NR20ISO KC5025	D63
LT16NR20ISOCB KC5025	D64
LT16NR20UN KC5025	D67
LT16NR20UNCB KC5025	D68
LT16NR20W KC5025	D69
LT16NR24UN KC5025	D67
LT16NR25ISO KC5025	D63
LT16NR25ISOCB KC5025	D64
LT16NR28UN KC5025	D67
LT16NR2TR KC5025	D66
LT16NR30ISO KC5010	D63
LT16NR30ISO KC5025	D63
LT16NR32UN KC5025	D67
LT16NR3TR KC5025	D66
LT16NR6STACME KC5025	D66
LT16NR8ACME KC5025	D61
LT16NR8APIRD KC5025	D62
LT16NR8NPT KC5025	D64
LT16NR8RD KC5025	D65
LT16NR8STACME KC5025	D66
LT16NR8UN KC5025	D67
LT16NR8UNCB KC5025	D68
LT16NR8W KC5025	D69
LT16NRA55 KC5025	D60
LT16NRA60 KC5010	D60
LT16NRA60 KC5025	D60
LT16NRAG55 KC5025	D60
LT16NRAG60 KC5010	D60
LT16NRAG60 KC5025	D60
LT16NRAG60CB KC5025	D61
LT16NRAG60K KU25T	D61
LT16NRG55 KC5025	D60
LT16NRG60 KC5010	D60
LT16NRG60 KC5025	D60
LT16NRG60CB KC5025	D61
LT22EL35ISO KC5025	D54
LT22ELN60 KC5025	D51
LT22ER35ISO KC5025	D54
LT22ER40ISO KC5025	D54
LT22ER45ISO KC5025	D54
LT22ER4API382 KC5025	D52
LT22ER4API502 KC5010	D52
LT22ER4API502 KC5025	D52
LT22ER4API503 KC5010	D52
LT22ER4TR KC5025	D57
LT22ER50ISO KC5025	D54
LT22ER5ACME KC5025	D52
LT22ER5API403 KC5010	D52
LT22ER5BUT75 KC5025	D53
LT22ER5STACME KC5025	D56
LT22ER5TR KC5025	D57
LT22ER6ACME KC5025	D52
LT22ER6RD KC5025	D56
LT22ER6W KC5025	D59
LT22ER7W KC5025	D59
LT22ERN55 KC5025	D51
LT22ERN60 KC5025	D51
LT22NLN60 KC5025	D60
LT22NR35ISO KC5025	D63
LT22NR40ISO KC5025	D63
LT22NR45ISO KC5025	D63
LT22NR4API382 KC5025	D62
LT22NR4API502 KC5025	D62
LT22NR4TR KC5025	D66
LT22NR50ISO KC5025	D63
LT22NR5ACME KC5025	D61
LT22NR5API403 KC5025	D62
LT22NR5BUT1 KC5025	D63
LT22NR5BUT75 KC5025	D63
LT22NR5TR KC5025	D66
LT22NR6ACME KC5025	D61
LT22NR6RD KC5025	D65
LT22NR7W KC5025	D69
LT22NRN55 KC5025	D60
LT22NRN60 KC5025	D60
LT27ER4API382 KC5025	D52
LT27ER4API502 KC5025	D52
LT27NR4API382 KC5025	D62
LT27NR4API502 KC5025	D62
M-13-M8-CA.625-3.543 S	V32
M-13-M8-CA.625-4.331 S	V32
M-13-M8-CA.625-5.118 S	V32
M-13-M8-CA.625-6.693 S	V32
M-18-M10-CA.750-4.331 S	V32
M-18-M10-CA.750-5.118 S	V32
M-18-M10-CA.750-6.693 S	V32
M-21-M12-CA1-5.157 S	V32
M-21-M12-CA1-6.142 S	V32
M-21-M12-CA1-7.126 S	V32
M-21-M12-CA1-8.110 S	V32
M-21-M12-CA1-9.094 S	V32
M-29-M16-CA1.25-10.2 S	V32
M-29-M16-CA1.25-12.2 S	V32
M-29-M16-CA1.25-6.3 S	V32
M-29-M16-CA1.25-8.27 S	V32
M10-JIC	C83
M1D050E0702C050L400	T24
M1D050E1001C062L350	T31
M1D062E0703C062L500	T24
M1D062E1002C062L670	T31

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
M1D062E1002C062L670R	T32
M1D062E1002C075L400	T31
M1D062E1002CM08	T29
M1D062E1002W075L100	T30
M1D062E1401W075L150	T49
M1D075E0705C075L600	T24
M1D075E1002C075L450	T31
M1D075E1002C075L670	T31
M1D075E1002CM10	T29
M1D075E1002W075L110	T30
M1D075E1003C075L450	T31
M1D075E1003C075L670	T31
M1D075E1003C075L670R	T32
M1D075E1003CM10	T29
M1D075E1003W075L110	T30
M1D075E1402C075L650	T52
M1D075E1402C075L800	T52
M1D075E1402W075L175	T49
M1D075E1402W075L175DE	T51
M1D088E1003C075L670	T31
M1D088E1402W100L175	T49
M1D097E1403W100L175	T49
M1D097E1802W100L175	T75
M1D100E1003C075L480	T31
M1D100E1003C100L480	T31
M1D100E1003C100L800	T31
M1D100E1003C100L800R	T32
M1D100E1003CM12	T29
M1D100E1003W075L125	T30
M1D100E1003W100L125	T30
M1D100E1004C075L480	T31
M1D100E1004C100L480	T31
M1D100E1004C100L800	T31
M1D100E1004C100L800R	T32
M1D100E1004CM12	T29
M1D100E1004W075L125	T30
M1D100E1004W100L125	T30
M1D100E1402C100L1000	T52
M1D100E1402W100L175	T49
M1D100E1403C100L750	T52
M1D100E1403CV40L300	T54
M1D100E1403W075L175	T50
M1D100E1403W100L175	T49
M1D100E1403W100L175DE	T51
M1D100E1403W100L175R	T50
M1D100E1802BT40L450	T80
M1D100E1802C100L1000	T77
M1D100E1802C100L800	T77
M1D100E1802CV40L250	T79
M1D100E1802CV40L450	T79
M1D100E1802W075L175	T76
M1D100E1802W100L175	T75
M1D100E1802W100L175R	T75
M1D100E1802W100L375	T75
M1D100E1802W100L375R	T75
M1D110E1004C100L800	T31
M1D125E1004C125L520	T31
M1D125E1004C125L800	T31
M1D125E1004W125L160	T30
M1D125E1005C125L520	T31
M1D125E1005C125L800	T31
M1D125E1005C125L800R	T32
M1D125E1005CM16	T29
M1D125E1005W125L160	T30
M1D125E1403C125L1000	T52
M1D125E1403W100L225	T50
M1D125E1404C125L800	T52
M1D125E1404CV40L300	T54
M1D125E1404S050L157	T53
M1D125E1404W100L225	T50
M1D125E1404W125L225	T49
M1D125E1404W125L225R	T50
M1D125E1802C125L1000	T77
M1D125E1802C125L800	T77
M1D125E1802W100L225	T76
M1D125E1803CV40L288	T79
M1D125E1803CV40L488	T79
M1D125E1803W100L225	T76
M1D125E1803W125L225	T75
M1D125E1803W125L225R	T75
M1D125E1803W125L425	T75
M1D125E1803W125L425R	T75
M1D150E1004S075L157	T33
M1D150E1006CM16	T29
M1D150E1006S075L157	T33
M1D150E1403C125L1000	T52
M1D150E1404C125L1000	T52
M1D150E1404W125L225	T50
M1D150E1405C125L800	T52
M1D150E1405CV40L300	T54
M1D150E1405S075L157	T53
M1D150E1405W125L225	T50
M1D150E1405W125L225R	T50
M1D150E1803C125L1000	T77
M1D150E1803C125L1000AL	T77
M1D150E1803C125L800	T77
M1D150E1803W125L225	T76
M1D150E1803W125L425	T76
M1D150E1803W125L425R	T76
M1D150E1804BT40L488	T80
M1D150E1804CV40L288	T79
M1D150E1804CV40L488	T79
M1D150E1804W125L225	T76
M1D150E1804W125L225R	T76
M1D150K2502C125L200	T89
M1D150K2502C125L400	T89
M1D150K2502HSK63L477	T91
M1D150K2502W125L200	T89
M1D200E1005S075L157	T33
M1D200E1008S075L157	T33
M1D200E1403S075L157	T53
M1D200E1405S075L157	T53
M1D200E1406S075L157	T53
M1D200E1803S075L157	T78
M1D200E1803S075L157AL	T78
M1D200E1805S075L157	T78
M1D200E1805W125L225	T76
M1D200K2502S075L200	T90
M1D200K2503C125L200	T89
M1D200K2503CV50L700	T92
M1D250E1006S075L157	T33
M1D250E1009S075L157	T33
M1D250E1405S075L157	T53
M1D250E1407S075L157	T53
M1D250E1804S075L157AL	T78
M1D250E1806S075L157	T78
M1D250K2503S100L225	T90
M1D300E1008S100L175	T33
M1D300E1010S100L175	T33
M1D300E1404S100L175	T53
M1D300E1406S100L175	T53
M1D300E1408S100L175	T53
M1D300E1804S100L175AL	T78
M1D300E1805S100L175	T78
M1D300E1807S100L175	T78
M1D300K2503S100L225	T90
M1D400E1008S150L200	T33
M1D400E1408S150L200	T53
M1D400E1410S150L200	T53
M1D400E1806S150L200	T78
M1D400E1808S150L200	T78
M1D400K2504S125L225	T90
M1D500E1809S150L200	T78
M1D600E1808S150L200	T78
M1D600E1808S200L200	T78
M1D800E1812S250L250	T78
M1HR075ED10C075Z2L110C4	T42
M1HR075ED10W075Z2L140C6	T41
M1HR100ED10C100Z2L110C4	T42
M1HR100ED10W100Z2L180C8	T41
M1HR125E14W125Z2L200C4	T63, T72
M1HR125ED10M16Z2L160C4	T40
M1HR125ED10M16Z3L160C6	T40
M1HR125ED10W125Z2L210C10	T41
M1HR125ED10W125Z3L210C15	T41
M1HR150E14W125Z3L200C6	T63, T72
M1HR150E14W125Z3L250C9	T63, T72
M1HR150E14W125Z3L300C12	T63, T72
M1HR150ED10S075Z3L200C12	T43
M1HR150ED10S075Z5L200C20	T43
M1HR200E14S075Z3L200C6	T64, T72
M1HR200E14S075Z3L250C9	T64, T72
M1HR200E14W150Z3L300C12	T63, T72
M1HR200ED10S075Z3L240C15	T43
M1HR200ED10S075Z5L240C25	T43
M1HR250E14S100Z3L250C9	T64, T72
M1HR250E14S100Z3L300C12	T64, T72
M1HR250E14S100Z4L250C12	T64, T72
M4-11KITD062Z2C062SGEKC725M	T11
M4-11KITD062Z2C062SGEKCPM40	T11
M4-11KITD062Z2W062SGEKC725M	T11
M4-11KITD062Z2W062SGEKCPM40	T11
M4-11KITD075Z2W075SGEKCPM40	T11
M4-11KITD075Z3C075SGEKC725M	T11
M4-11KITD075Z3C075SGEKCPM40	T11
M4-11KITD075Z3W075SGEKC725M	T11
M4-11KITD075Z3W075SGEKCPM40	T11
M4-11KITD100Z3W100SGEKC725M	T11
M4-11KITD100Z3W100SGEKCPM40	T11
M4-11KITD100Z4C100SGEKC725M	T11
M4-11KITD100Z4C100SGEKCPM40	T11
M4-11KITD125Z4W125SGEKC725M	T11
M4-11KITD125Z4W125SGEKCPM40	T11
M4-11KITD125Z5C125SGEKC725M	T11
M4-11KITD125Z5C125SGEKCPM40	T11
M4-11KITD150Z5S050SGEKC725M	T11
M4-11KITD150Z5S050SGEKCPM40	T11
M4-11KITD200Z5S075SGEKC725M	T11
M4-11KITD200Z5S075SGEKCPM40	T11
M4-11KITD200Z7S075SGEKC725M	T11
M4-11KITD200Z7S075SGEKCPM40	T11
M4D062L1102C062L400	T6, T11
M4D062L1102C062L600	T6
M4D062L1102W062L100	T5, T11
M4D075L1102C075L600	T6
M4D075L1102W075L110	T5, T11
M4D075L1103C075L400	T6, T11
M4D075L1103C075L600	T6
M4D075L1103M10L110	T4
M4D075L1103W075L110	T5, T11
M4D100L1103C100L700	T6
M4D100L1103W075L175	T5
M4D100L1103W100L175	T5, T11
M4D100L1104C075L450	T6
M4D100L1104C100L450	T6, T11
M4D100L1104C100L700	T6
M4D100L1104M12L125	T4
M4D100L1502C100L1000	T16
M4D100L1502C100L800	T16
M4D100L1502M12L125	T14
M4D100L1502W075L175	T15
M4D100L1502W100L175	T15
M4D125L1104C125L800	T6
M4D125L1104W125L225	T5, T11
M4D125L1105C100L500	T6
M4D125L1105C125L500	T6, T11
M4D125L1105M16L175	T4
M4D125L1503C125L1000	T16
M4D125L1503C125L800	T16
M4D125L1503M16L175	T14
M4D125L1503W100L225	T15
M4D125L1503W125L225	T15
M4D150L1105S050L157	T7, T11
M4D150L1105W125L225	T5
M4D150L1106S050L157	T7
M4D150L1503W125L225	T15
M4D150L1504C125L1000	T16
M4D150L1504C125L800	T16
M4D150L1504M16L175	T14
M4D150L1504W125L225	T15
M4D150L1505S050L157	T17
M4D200L1105S075L157	T7, T11
M4D200L1107S075L157	T7, T11
M4D200L1504S075L175	T17
M4D200L1505S075L157	T17
M4D200L1506S075L157	T17
M4D250L1107S075L157	T7
M4D250L1107S100L157	T7
M4D250L1505S075L157	T17
M4D250L1506S075L157	T17
M4D250L1507S100L175	T17
M4D300L1108S100L175	T7
M4D300L1108S125L175	T7
M4D300L1505S100L175	T17
M4D300L1507S100L175	T17
M4D300L1508S125L200	T17
M4D300L1509S100L175	T17
M4D400L1506S150L200	T17
M4D400L1508S150L200	T17
M4D400L1511S150L200	T17
M4D500L1507S150L238	T17
M4D500L1509S150L238	T17
M4D500L1512S150L238	T17
M4D600L1508S200L238	T17
M4D600L1510S200L238	T17
M4D600L1512S200L238	T17
M4KITD100Z02C100EGEKC725M	T21
M4KITD100Z02W100SGEKCPM40	T21
M4KITD100Z02W100SGEMKC520M	T21
M4KITD125Z03C125EGEKC725M	T21
M4KITD125Z03W100SGEKCPM40	T21
M4KITD125Z03W100SGEMKC520M	T21
M4KITD150Z04W125SGEKCPM40	T21
M4KITD150Z05S050EGEKC725M	T21
M4KITD150Z05S050SGEKCPM40	T21
M4KITD150Z05S050SGEMKC520M	T21
M4KITD200Z05S075EGEKC725M	T21
M4KITD200Z05S075SGEKCPM40	T21
M4KITD200Z06S075EGEKC725M	T21
M4KITD200Z06S075SGEKCPM40	T21
M4KITD200Z06S075SGEMKC520M	T21
M4KITD250Z06S075EGEKC725M	T21
M4KITD250Z06S075SGEKCPM40	T21
M4KITD250Z07S075SGEMKC520M	T21
M4KITD300Z07S100EGEKC725M	T21
M4KITD300Z07S100SGEKCPM40	T21
M4KITD300Z09S100SGEMKC520M	T21
M4KITD400Z08S150SGEKCPM40	T21
M4KITD400Z11S150SGEMKC520M	T21
M6-JIC	C83
M8-JIC	C83
MB115RBHT12F	K124
MB115RBHT16LF	K124
MB115RBHT16LK	K125
MB24RBHT06F	K124
MB24RBHT06K	K125
MB30RBHT06F	K124
MB30RBHT06K	K125
MB40RBHT09F	K124
MB40RBHT09K	K125
MB50RBHT09F	K124
MB50RBHT09K	K125
MB66RBHT12F	K124
MB66RBHT12K	K125
MB66RBHT12LF	K124
MB66RBHT12LK	K125
MB87RBHT12F	K124
MB87RBHT12K	K125
MB87RBHT16LF	K124
MB87RBHT16LK	K125
MCC080001	V88, V91
MCC0800HP	V88, V91
MCFNL10CA3	B72
MCFNL12CA4	B72
MCFNL164D	B60
MCFNR10CA3	B72
MCFNR124B	B60
MCFNR12CA4	B72
MCFNR164C	B60
MCFNR164D	B60
MCFNR16CA4	B72
MCFNR20CA4	B72
MCGNL124B	B61
MCGNL164C	B61
MCGNL164D	B61
MCGNR124B	B61
MCGNR164C	B61
MCGNR164D	B61
MCHNN164C	B61
MCHNN205D	B61
MCHNN246D	B61
MCKNL124B	B62
MCKNL12CA4	B73
MCKNL164C	B62
MCKNL164D	B62
MCKNL165D	B62
MCKNL204D	B62
MCKNL205D	B62

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
MCKNL206D	B62
MCKNL246D	B62
MCKNR124B	B62
MCKNR12CA4	B73
MCKNR164C	B62
MCKNR164D	B62
MCKNR165D	B62
MCKNR16CA4	B73
MCKNR204D	B62
MCKNR205D	B62
MCKNR206D	B62
MCKNR246D	B62
MCLNL083A	B63
MCLNL103A	B63
MCLNL123B	B63
MCLNL124A	B63
MCLNL124B	B63
MCLNL12CA4	B74
MCLNL164C	B63
MCLNL164D	B63
MCLNL165C	B63
MCLNL165D	B63
MCLNL166C	B63
MCLNL166D	B63
MCLNL16CA4	B74
MCLNL204D	B63
MCLNL20CA4	B74
MCLNL244D	B64
MCLNL245D	B64
MCLNL245E	B64
MCLNL246D	B64
MCLNL246E	B64
MCLNL248E	B64
MCLNL25CA6	B74
MCLNL326F	B64
MCLNL854D	B64
MCLNL866E	B64
MCLNR083A	B63
MCLNR103A	B63
MCLNR123B	B63
MCLNR124A	B63
MCLNR124B	B63
MCLNR12CA4	B74
MCLNR163C	B63
MCLNR163D	B63
MCLNR164C	B63
MCLNR164D	B63
MCLNR165C	B63
MCLNR165D	B63
MCLNR166C	B63
MCLNR166D	B63
MCLNR16CA4	B74
MCLNR204D	B63
MCLNR205D	B63
MCLNR206D	B63
MCLNR20CA4	B74
MCLNR244D	B63
MCLNR245D	B63
MCLNR245E	B63
MCLNR246D	B63
MCLNR246E	B63
MCLNR248E	B63
MCLNR25CA4	B74
MCLNR25CA5	B74
MCLNR25CA6	B74
MCLNR326F	B63
MCLNR854D	B63
MCLNRC164D	B66, B371
MCMNN124B	B64
MCMNN164C	B64
MCMNN164D	B64
MCMNN166D	B64
MCMNN204D	B64
MCMNN206D	B64
MCMNN246D	B64
MCMNN246E	B64
MCRNL124B	B65
MCRNL164C	B65
MCRNL164D	B65
MCRNL165D	B65
MCRNL166D	B65
MCRNL204D	B65
MCRNL205D	B65
MCRNL206D	B65
MCRNL246D	B65
MCRNL246E	B65
MCRNR124B	B65
MCRNR164C	B65
MCRNR164D	B65
MCRNR165D	B65
MCRNR166D	B65
MCRNR204D	B65
MCRNR205D	B65
MCRNR206D	B65
MCRNR246D	B65
MCRNR246E	B65
MDJNL123B	B89
MDJNL124A	B89
MDJNL124B	B89
MDJNL12CA3	B94
MDJNL163C	B89
MDJNL163D	B89
MDJNL164C	B89
MDJNL164D	B89
MDJNL16CA4	B94
MDJNL203D	B89
MDJNL204D	B89
MDJNL205D	B89
MDJNL245D	B89
MDJNL245E	B89
MDJNR123B	B89
MDJNR124A	B89
MDJNR124B	B89
MDJNR12CA3	B94
MDJNR163C	B89
MDJNR163D	B89
MDJNR164C	B89
MDJNR164D	B89
MDJNR165D	B89
MDJNR16CA4	B94
MDJNR203D	B89
MDJNR204D	B89
MDJNR205D	B89
MDJNR20CA4	B94
MDJNR245D	B89
MDJNR245E	B89
MDJNR854D	B89
MDPNN123B	B90
MDPNN163D	B90
MDPNN164D	B90
MDPNN205D	B90
MDPNN245D	B90
MDQNL124B	B90
MDQNL164C	B90
MDQNL164D	B90
MDQNL16CA4	B95
MDQNL204D	B90
MDQNL20CA4	B95
MDQNL244D	B90
MDQNL244E	B90
MDQNR124B	B90
MDQNR164C	B90
MDQNR164D	B90
MDQNR16CA4	B95
MDQNR204D	B90
MDQNR20CA4	B95
MDQNR244D	B90
MDQNR244E	B90
MDRHEC100S5150 KCPM15	P91
MDRHEC250S3025 KCPM15	P91
MDRHEC250S3075 KCPM15	P91
MDRHEC250S4025 KCPM15	P91
MDRHEC250S4075 KCPM15	P91
MDRHEC312S4081 KCPM15	P91
MDRHEC375S4038 KCPM15	P91
MDRHEC375S4088 KCPM15	P91
MDRHEC500S4050 KCPM15	P91
MDRHEC500S4100 KCPM15	P91
MDRHEC625S4063 KCPM15	P91
MDRHEC625S4125 KCPM15	P91
MDRHEC750S4075 KCPM15	P91
MDRHEC750S4150 KCPM15	P91
MEGA45D1000LN863C10	S94
MEGA45D1000LN863M10	S94
MEGA45D1200LN863C10	S94
MEGA45D1200LN863M10	S94
MEGA45D500LN863M6	S94
MEGA45D800LN863M10	S94
MEGA60D1200LN76M10	S98
MEGA60D500LN76M6	S98
MEGA60D600LN76M8	S98
MEGA60D800LN76M10	S98
MEGA90D1000LN76C10	S100
MEGA90D1200LN76C10	S100
MEGA90D1200LN76M10	S100
MEGA90D500LN76M6	S100
MEGA90D600LN76M8	S100
MILL16E1000Z120N08SC	S32
MILL16E1000Z240N08W	S30
MILL16E1000Z340N08W	S30
MILL16E1200Z420N08WSC	S31
MILL16E1400Z480N08WSC	S31
MILL16E1600Z560N08WSC	S31
MILL16E2000Z700N08WSC	S31
MILL16E200Z040N08SC	S32
MILL16E200Z050N08W	S30
MILL16E250Z040N08SC	S32
MILL16E250Z060N08W	S30
MILL16E300Z050N08SC	S32
MILL16E300Z080N08W	S30
MILL16E300Z100N08W	S30
MILL16E400Z060N08SC	S32
MILL16E400Z100N08W	S30
MILL16E400Z140N08W	S30
MILL16E500Z080N08SC	S32
MILL16E500Z140N08W	S30
MILL16E500Z180N08W	S30
MILL16E600Z100N08SC	S32
MILL16E600Z160N08W	S30
MILL16E600Z220N08W	S30
MILL16E800Z100N08SC	S32
MILL16E800Z200N08W	S30
MILL16E800Z280N08W	S30
MRGNL164D	B98
MRGNL166D	B98
MRGNL204D	B98
MRGNL206D	B98
MRGNL246D	B98
MRGNL248E	B98
MRGNLC164D	B99, B371
MRGNLC204D	B99, B371
MRGNLC244D	B99, B371
MRGNR123B	B98
MRGNR124B	B98
MRGNR163D	B98
MRGNR164C	B98
MRGNR164D	B98
MRGNR166D	B98
MRGNR204D	B98
MRGNR206D	B98
MRGNR246D	B98
MRGNR248E	B98
MRGNRC164D	B99, B371
MRGNRC204D	B99, B371
MRGNRC244D	B99, B371
MS-1896	K85
MS-2071	T14–17, V75–77
MS1025	C196, D41
MS1027	B209–212, B216
MS1028	B210–211
MS1034	C190
MS1152	B273, B276–278, J25, J27, J29, J31, J33, J35, J37, J39
MS1153	B193–197, B209–215, B217–223, B227–230, B234–237, B243–245, B259–262, B270–279, B282–285, B287, B289–290, B292, K78–80, K85, K89–90
MS1155	B193, B195–198, B212–215, B217, B220, B227–230, B234–235, B237, B245, B254–255, B261–262, B271–279, B282–285, B287, B289–290
MS1156	B193–196, B227–229, B243–244, B259–260, B282, C127–128
MS1157	B198, B249–251
MS1158	B194, B243
MS1160	C34–45, C52–57, C122–129, C134
MS1162	C52–57, C65–73, C143–151, S94, S98, S100, V87–88, V91
MS1163	C65–73, C143–151
MS1200	C183, C185, C188, C192–193, D30
MS1234CG	V62
MS125	B186, B397
MS1273	C52–55, T119–120
MS1276	J91
MS1281	U17–18
MS1282	U17–18
MS1284	U17–18
MS1285	C52–55
MS1294CG	V62
MS1321	B168–169, B386–387
MS1374	T89–92
MS1375	K89–90
MS1438	B290–291
MS1454	B203, K79
MS1488	D31, D33, D39–40
MS1489	D31–33, D39
MS1490	C34–41, C47–48, C50–51, C122–125, C130, D32
MS1571	C135–136
MS1595	C34–41, C46–47, C49–50, C52–55, C122–126, C129, C131–133
MS1861	H100
MS1933	B214–215, B217, B220, B222–223, B271–272
MS1939	B197, B212–215, B287, B289
MS1944	C38–41, C122–125, C127–128
MS1970	C34–41, C46–51, C122–126, C129–133
MS2002	C65–73, C143–151
MS2038	V62
MS2038CG	V62
MS2055	B197
MS2060	S32
MS2066	B197
MS2077	U35–37, V68–70
MS2078	S39, T113, U32–34
MS2085	T120, V81–83
MS2089	C132–133
MS2090	C130–131
MS2091	C34–41, C122–125, C127–128, C130–131
MS2111	C183, C185, C188–189, C192, D30
MS2126	T75–80
MS2148	T63–64, T107–109, U25–29
MS2166	T49–54
MS2167	T49, T51–52
MS2173	B217, B220, B222–223
MS2175	B217–223, B245, B276–278
MS2191C00	T63, T65, V139–140, V142
MS2191C06	T63, T65, V139–140, V142
MS2191C08	T63, T65, V139–142
MS2191C12	T63, T65, V139–142
MS2191C14	T63, T65, V139–140, V142
MS2191C16	T63–65, V139–140, V142
MS2191C18	T63, T65, V139–140, V142
MS2191C20	T63–65, V139–140, V142
MS2197	V139–141
MS2205	T29–33, T40–43
MS2206	U3
MS2207	U3
MS2208	U3
MS2219	V36–38
MS2236	V123
MS2260	V58
MS2263	T4–7
MS364	B74, B115, B119
MS412	C196, D41
MS5006	W12, W19
MS5007	W12–13
MS5008	W12, W18, W25
MS5009	W18, W25
MS9000	W17–19, W24–25
MSDNN083	B111
MSDNN103	B111
MSDNN123	B111
MSDNN124	B111
MSDNN164	B111

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
MSDNN206	B111
MSDNN246	B111
MSDNN854	B111
MSDNN855	B111
MSDNN856	B111
MSKNL12CA4	B115
MSKNL205D	B111
MSKNL206D	B111
MSKNL20CA5	B115
MSKNL246D	B111
MSKNR10CA3	B115
MSKNR124B	B111
MSKNR12CA4	B115
MSKNR164C	B111
MSKNR164D	B111
MSKNR16CA4	B115
MSKNR205D	B111
MSKNR206D	B111
MSKNR20CA5	B115
MSKNR248	B111
MSKNR25CA6	B115
MSRNL124B	B112
MSRNL12CA4	B116
MSRNL164C	B112
MSRNL164D	B112
MSRNL165C	B112
MSRNL16CA4	B116
MSRNL204D	B112
MSRNL205D	B112
MSRNL206D	B112
MSRNL20CA5	B116
MSRNL246D	B112
MSRNL246E	B112
MSRNL854D	B112
MSRNR10CA3	B116
MSRNR124B	B112
MSRNR12CA4	B116
MSRNR164C	B112
MSRNR164D	B112
MSRNR165C	B112
MSRNR16CA4	B116
MSRNR205D	B112
MSRNR206D	B112
MSRNR246D	B112
MSRNR246E	B112
MSRNR248	B112
MSRNR328	B112
MSRNR856D	B112
MSSNL10CA3	B117
MSSNL12CA4	B117
MSSNL164C	B113
MSSNL164D	B113
MSSNL165D	B113
MSSNL205D	B113
MSSNL206D	B113
MSSNL246D	B113
MSSNL854D	B113
MSSNR10CA3	B117
MSSNR123B	B113
MSSNR124B	B113
MSSNR12CA4	B117
MSSNR164C	B113
MSSNR164D	B113
MSSNR165D	B113
MSSNR16CA4	B117
MSSNR205D	B113
MSSNR206D	B113
MSSNR20CA5	B117
MSSNR246D	B113
MSSNR854D	B113
MSTNR10CA3	B118
MSTNR12CA4	B118
MSYNL10CA3	B119
MSYNL12CA4	B119
MSYNL20CA15	B119
MSYNR10CA3	B119
MSYNR12CA4	B119
MSYNR16CA4	B119
MSYNR25CA19	B119
MTANL103B	B132
MTANL123B	B132
MTANL164D	B132
MTANLS123	B133
MTANLS163	B133
MTANLS164	B133
MTANLS205	B133
MTANR082B	B132
MTANR103B	B132
MTANR123B	B132
MTANR164D	B132
MTANRS123	B133
MTANRS163	B133
MTANRS164	B133
MTANRS205	B133
MTCNN083	B133
MTCNN124	B133
MTCNN443	B133
MTCNN644	B133
MTENNS082	B134
MTENNS103	B134
MTENNS123	B134
MTENNS163	B134
MTENNS164	B134
MTENNS205	B134
MTENNS246	B134
MTENNS854	B134
MTFNL123B	B134
MTFNL12CA3	B140
MTFNL164C	B134
MTFNL164D	B134
MTFNL16CA3	B140
MTFNL204D	B134
MTFNL20CA4	B140
MTFNL245D	B134
MTFNL246E	B134
MTFNL854D	B134
MTFNLS164	B135
MTFNR123B	B134
MTFNR12CA3	B140
MTFNR164C	B134
MTFNR164D	B134
MTFNR16CA3	B140
MTFNR204D	B134
MTFNR205D	B134
MTFNR20CA4	B140
MTFNR246E	B134
MTFNRS164	B135
MTGNL103B	B135
MTGNL123B	B135
MTGNL124B	B135
MTGNL12CA3	B141
MTGNL164C	B135
MTGNL164D	B135
MTGNL204D	B135
MTGNL205D	B135
MTGNL20CA4	B141
MTGNR082B	B135
MTGNR103B	B135
MTGNR123B	B135
MTGNR124B	B135
MTGNR12CA3	B141
MTGNR164C	B135
MTGNR164D	B135
MTGNR165C	B135
MTGNR16CA3	B141
MTGNR204D	B135
MTGNR205D	B135
MTJNL082B	B136
MTJNL103B	B136
MTJNL123B	B136
MTJNL163C	B136
MTJNL163D	B136
MTJNL164D	B136
MTJNL204D	B136
MTJNL205D	B136
MTJNLS123	B137
MTJNLS124	B137
MTJNLS163	B137
MTJNLS164	B137
MTJNLS165	B137
MTJNLS204	B137
MTJNLS205	B137
MTJNLS246	B137
MTJNR082B	B136
MTJNR103B	B136
MTJNR123B	B136
MTJNR163C	B136
MTJNR163D	B136
MTJNR164D	B136
MTJNR204D	B136
MTJNR205D	B136
MTJNRS123	B137
MTJNRS124	B137
MTJNRS163	B137
MTJNRS164	B137
MTJNRS165	B137
MTJNRS204	B137
MTJNRS205	B137
MTJNRS246	B137
MTJNRS864	B137
MTRNR164D	B138
MTUNL12CA3	B142
MTUNL16CA3	B142
MTUNR20CA4	B142
MVJNL123A	B152
MVJNL123B	B152
MVJNL163C	B152
MVJNL163D	B152
MVJNL164C	B152
MVJNL164D	B152
MVJNL203D	B152
MVJNL204D	B152
MVJNL244D	B152
MVJNR123A	B152
MVJNR123B	B152
MVJNR124B	B152
MVJNR163C	B152
MVJNR163D	B152
MVJNR164C	B152
MVJNR164D	B152
MVJNR203D	B152
MVJNR204D	B152
MVJNR243D	B152
MVJNR244D	B152
MVUNL204D	B153
MVUNL244D	B153
MVUNR204C	B153
MVUNR204D	B153
MVUNR244D	B153
MVVNN123B	B153
MVVNN163C	B153
MVVNN163D	B153
MVVNN164D	B153
MVVNN203D	B153
MVVNN204D	B153
MVVNN244E	B153
MW25	U28–29, V148–149
MW3	U35–37
NA3L10 KC5025	D11
NA3L10 KCU25	D11
NA3L12 KC5010	D11
NA3L12 KC5025	D11
NA3L16 KCU10	D11
NA3L4 K68	D11
NA3L4 KC5010	D11
NA3L4 KC5025	D11
NA3L4 KCU10	D11
NA3L4 KCU25	D11
NA3L5 KC5010	D11
NA3L5 KC5025	D11
NA3L5 KCU25	D11
NA3L6 KC5010	D11
NA3L6 KC5025	D11
NA3L6 KCU25	D11
NA3L8 KC5010	D11
NA3L8 KC5025	D11
NA3L8 KCU10	D11
NA3L8 KCU25	D11
NA3R10 KC5010	D11
NA3R10 KC5025	D11
NA3R10 KCU10	D11
NA3R10 KCU25	D11
NA3R12 KC5025	D11
NA3R12 KCU10	D11
NA3R16 KCU10	D11
NA3R4 KC5010	D11
NA3R4 KC5025	D11
NA3R4 KCU25	D11
NA3R5 KC5010	D11
NA3R5 KC5025	D11
NA3R5 KCU10	D11
NA3R5 KCU25	D11
NA3R6 KC5010	D11
NA3R6 KC5025	D11
NA3R6 KCU10	D11
NA3R6 KCU25	D11
NA3R8 KC5010	D11
NA3R8 KC5025	D11
NA3R8 KCU10	D11
NA3R8 KCU25	D11
NA4L4 KC5025	D11
NA4L4 KCU10	D11
NA4L5 KC5025	D11
NA4L6 KC5025	D11
NA4L8 KCU25	D11
NA4R4 KC5010	D11
NA4R4 KC5025	D11
NA4R4 KCU25	D11
NA4R5 KC5025	D11
NA4R6 KC5025	D11
NA6L2 KC5010	D11
NA6L2 KC5025	D11
NA6L2 KCU25	D11
NA6L25 KCU25	D11
NA6L3 KC5025	D11
NA6L3 KCU25	D11
NA6R2 KC5010	D11
NA6R2 KC5025	D11
NA6R2 KCU10	D11
NA6R2 KCU25	D11
NA6R25 KC5025	D11
NA6R3 KC5025	D11
NA6R3 KCU25	D11
NAS3L10 KC5025	D12
NAS3L10 KCU10	D12
NAS3L12 KC5025	D12
NAS3L4 KC5025	D12
NAS3L4 KCU25	D12
NAS3L5 KC5025	D12
NAS3L5 KCU10	D12
NAS3L6 KC5010	D12
NAS3L6 KC5025	D12
NAS3L6 KCU10	D12
NAS3L6 KCU25	D12
NAS3L8 KC5010	D12
NAS3L8 KC5025	D12
NAS3L8 KCU10	D12
NAS3L8 KCU25	D12
NAS3R10 KC5010	D12
NAS3R10 KC5025	D12
NAS3R10 KCU10	D12
NAS3R12 KC5025	D12
NAS3R12 KCU25	D12
NAS3R16 KC5025	D12
NAS3R4 KC5025	D12
NAS3R4 KCU25	D12
NAS3R5 KC5025	D12
NAS3R5 KCU10	D12
NAS3R6 KC5010	D12
NAS3R6 KC5025	D12
NAS3R6 KCU10	D12
NAS3R8 KC5010	D12
NAS3R8 KC5025	D12
NAS3R8 KCU10	D12
NAS3R8 KCU25	D12
NASL062D	C185, D25
NASL082D	C185, D25
NASL083D	C185, D25
NASL1010M2Q	C185
NASL102B	C185, D25
NASL103B	C185, D25
NASL1212M2Q	C185
NASL1616K3Q	C185
NASR062D	C185, D25
NASR082D	C185, D25
NASR083D	C185, D25
NASR1010M2Q	C185
NASR102B	C185, D25

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NASR103B	C185, D25
NASR1212M2Q	C185
NASR1616K3Q	C185
NB2L K313	C176
NB2R K313	C176
NB3L K313	C176
NB3R K313	C176
NB4L K313	C176
NB4R K313	C176
NBD2R K313	C177
NBD3L K313	C177
NBD3R K313	C177
ND3038L KC5025	D12
ND3038R KC5025	D12
ND3040L KCU25	D12
ND3040R KC5025	D12
ND4050R KCU25	D12
NDC3040L3 KC5010	D13
NDC3040R3 KC5025	D13
NDC310RDL75 KC5025	D13
NDC310RDR75 KC5025	D13
NDC3115VL75 KC5010	D14
NDC3115VL75 KCU10	D14
NDC3115VR75 KC5010	D14
NDC3115VR75 KCU10	D14
NDC314VR75 KCU10	D14
NDC327VR75 KCU10	D14
NDC38RDL75 KC5010	D13
NDC38RDL75 KC5025	D13
NDC38RDL75 KCU25	D13
NDC38RDR75 KC5010	D13
NDC38RDR75 KC5025	D13
NDC38RDR75 KCU25	D13
NDC38VL75 KC5010	D14
NDC38VR75 KC5010	D14
NDC4038L2 KC5025	D13
NDC4038R2 KC5025	D13
NDC4040R3 KC5025	D13
NDC4050L2 KC5025	D13
NDC4050R2 KC5025	D13
NDC4050R3 KC5025	D13
NDC68RDR75M KCU10	D13
NDC8115VR75M KCU10	D14
NDC88VL75M KC5010	D14
NDC88VR75M KC5010	D14
NDC88VR75M KCU10	D14
NDLPL164D	E40
NDLPR164D	E40
NDPPN164D	E40
NEL062	C187, D26
NEL082V	C187, D26
NEL102B	C187, D26
NEL122B	C187, D26
NEL123B	C187, D26
NEL12CA2	C196, D41
NEL1616H2	C188
NEL162C	C187, D26
NEL163C	C187, D26
NEL163D	C187, D26
NEL164C	C187, D26
NEL164D	C187, D26
NEL2020K2	C188
NEL203D	C187, D26
NEL204D	C187, D26
NEL205D	C187, D26
NEL206D	C187, D26
NEL243D	C187, D26
NEL244D	C187, D26
NEL2525M2	C188
NEL2525M3	C188
NEL2525M4	C188
NEL25CA3	C196, D41
NEL3225P3	C188
NEL3225P4	C188
NEL3232P4	C188
NEL853D	C187, D26
NER062	C187, D26
NER082V	C187, D26
NER102B	C187, D26
NER122B	C187, D26
NER123B	C187, D26
NER12CA2	C196, D41
NER1616H2	C188
NER162C	C187, D26
NER163C	C187, D26
NER163D	C187, D26
NER164C	C187, D26
NER164D	C187, D26
NER2020K2	C188
NER203D	C187, D26
NER204D	C187, D26
NER205D	C187, D26
NER206D	C187, D26
NER243D	C187, D26
NER244D	C187, D26
NER2525M2	C188
NER2525M3	C188
NER2525M4	C188
NER3225P3	C188
NER3225P4	C188
NER3232P4	C188
NER853D	C187, D26
NF3125L K313	C175
NF3125LK KC5025	C173
NF3125LK KCU25	C173
NF3125R K313	C175
NF3125RK KC5025	C173
NF3125RK KCU25	C173
NF3156LK KCU25	C173
NF3156RK KCU25	C173
NF3188L KCU25	C175
NF3188R KCU25	C175
NF3M200LK KC5025	C173
NF3M200RK KC5025	C173
NF3M300LK KC5025	C173
NF3M300RK KC5025	C173
NFD3125LK KC5025	C174
NFD3125LK KCU25	C174
NFD3125LKI KCU25	C174
NFD3125RK KC5025	C174
NFD3125RK KCU25	C174
NFD3125RKI KC5025	C174
NFD3125RKI KCU25	C174
NFD3189LKI KCU25	C174
NFD3189RKI KCU25	C174
NFD3M300LK KC5025	C174
NFD3M300RK KC5025	C174
NFD4189LK KC5025	C174
NFD4189LK KCU25	C174
NFD4189RK KCU25	C174
NFD4250LK KCU25	C174
NFD4250RK KCU25	C174
NG1031L KCU25	C170
NG1047L KC5025	C170
NG1047L KCU25	C170
NG1062L KC5025	C170
NG1062L KCU25	C170
NG1094L KC5025	C170
NG1094L KCU25	C170
NG2031L K313	C170
NG2031L KC5010	C170
NG2031L KCK20B	C170
NG2031L KCU10	C170
NG2031L KCU25	C170
NG2031LK KC5010	C163
NG2031LK KC5025	C163
NG2031LK KCP10B	C163
NG2031LK KCP25B	C163
NG2031LK KCU10	C163
NG2031LK KCU25	C163
NG2031R K313	C170
NG2031R KC5010	C170
NG2031R KC5025	C170
NG2031R KCK20B	C170
NG2031R KCU10	C170
NG2031R KCU25	C170
NG2031RK KC5010	C162
NG2031RK KC5025	C162
NG2031RK KCP10B	C162
NG2031RK KCP25B	C162
NG2031RK KCU10	C162
NG2031RK KCU25	C162
NG2031RK KT315	C162
NG2041L KC5010	C170
NG2041L KC5025	C170
NG2041L KCK20B	C170
NG2041L KCU25	C170
NG2041R K313	C170
NG2041R KC5010	C170
NG2041R KC5025	C170
NG2041R KCK20B	C170
NG2041R KCU10	C170
NG2041R KCU25	C170
NG2047L KC5010	C170
NG2047L KCU10	C170
NG2047L KCU25	C170
NG2047LK KC5010	C163
NG2047LK KC5025	C163
NG2047LK KCP10B	C163
NG2047LK KCP25B	C163
NG2047LK KCU10	C163
NG2047LK KCU25	C163
NG2047R KC5010	C170
NG2047R KCK20B	C170
NG2047R KCU10	C170
NG2047R KCU25	C170
NG2047RK KC5010	C162
NG2047RK KC5025	C162
NG2047RK KCP10B	C162
NG2047RK KCP25B	C162
NG2047RK KCU10	C162
NG2047RK KCU25	C162
NG2047RK KT315	C162
NG2058L KCU25	C170
NG2058R KC5025	C170
NG2058R KCU25	C170
NG2062L K313	C170
NG2062L KC5010	C170
NG2062L KC5025	C170
NG2062L KCK20B	C170
NG2062L KCU10	C170
NG2062L KCU25	C170
NG2062LK KC5010	C163
NG2062LK KC5025	C163
NG2062LK KCP10B	C163
NG2062LK KCP25B	C163
NG2062LK KCU10	C163
NG2062LK KCU25	C163
NG2062R K313	C170
NG2062R KC5010	C170
NG2062R KC5025	C170
NG2062R KCK20B	C170
NG2062R KCU10	C170
NG2062R KCU25	C170
NG2062RK KC5010	C162
NG2062RK KC5025	C162
NG2062RK KCP10B	C162
NG2062RK KCP25B	C162
NG2062RK KCU10	C162
NG2062RK KCU25	C162
NG2062RK KT315	C162
NG2094L K313	C170
NG2094L KC5010	C170
NG2094L KCK20B	C170
NG2094L KCU10	C170
NG2094L KCU25	C170
NG2094LK KC5010	C163
NG2094LK KC5025	C163
NG2094LK KCP10B	C163
NG2094LK KCP25B	C163
NG2094LK KCU10	C163
NG2094LK KCU25	C163
NG2094R K313	C170
NG2094R KC5010	C170
NG2094R KCK20B	C170
NG2094R KCU10	C170
NG2094R KCU25	C170
NG2094RK KC5010	C162
NG2094RK KC5025	C162
NG2094RK KCP10B	C162
NG2094RK KCP25B	C162
NG2094RK KCU10	C162
NG2094RK KCU25	C162
NG2094RK KT315	C162
NG2125L KC5010	C170
NG2125L KCK20B	C170
NG2125L KCU10	C170
NG2125L KCU25	C170
NG2125LK KC5010	C163
NG2125LK KC5025	C163
NG2125LK KCP10B	C163
NG2125LK KCP25B	C163
NG2125LK KCU10	C163
NG2125LK KCU25	C163
NG2125R KC5010	C170
NG2125R KCU10	C170
NG2125R KCU25	C170
NG2125RK KC5010	C162
NG2125RK KC5025	C162
NG2125RK KCP10B	C162
NG2125RK KCP25B	C162
NG2125RK KCU10	C162
NG2125RK KCU25	C162
NG2125RK KT315	C162
NG2M050LK KC5010	C163
NG2M050LK KCP25B	C163
NG2M050LK KCU10	C163
NG2M050LK KCU25	C163
NG2M050RK KC5010	C162
NG2M050RK KCP25B	C162
NG2M050RK KCU10	C162
NG2M050RK KCU25	C162
NG2M080LK KC5025	C163
NG2M080LK KCP10B	C163
NG2M080LK KCP25B	C163
NG2M080LK KCU10	C163
NG2M080LK KCU25	C163
NG2M080RK KC5025	C162
NG2M080RK KCP10B	C162
NG2M080RK KCP25B	C162
NG2M080RK KCU10	C162
NG2M080RK KCU25	C162
NG2M100LK KC5010	C163
NG2M100LK KC5025	C163
NG2M100LK KCP10B	C163
NG2M100LK KCP25B	C163
NG2M100LK KCU10	C163
NG2M100LK KCU25	C163
NG2M100RK KC5010	C162
NG2M100RK KC5025	C162
NG2M100RK KCP10B	C162
NG2M100RK KCP25B	C162
NG2M100RK KCU10	C162
NG2M100RK KCU25	C162
NG2M120LK KC5010	C163
NG2M120LK KC5025	C163
NG2M120LK KCP10B	C163
NG2M120LK KCP25B	C163
NG2M120LK KCU10	C163
NG2M120LK KCU25	C163
NG2M120RK KC5010	C162
NG2M120RK KC5025	C162
NG2M120RK KCP10B	C162
NG2M120RK KCP25B	C162
NG2M120RK KCU10	C162
NG2M120RK KCU25	C162
NG2M140LK KC5025	C163
NG2M140LK KCP10B	C163
NG2M140LK KCP25B	C163
NG2M140LK KCU10	C163
NG2M140LK KCU25	C163
NG2M140RK KC5010	C162
NG2M140RK KC5025	C162
NG2M140RK KCP10B	C162
NG2M140RK KCP25B	C162
NG2M140RK KCU10	C162
NG2M140RK KCU25	C162
NG2M150LK KC5025	C163
NG2M150LK KCP25B	C163
NG2M150LK KCU25	C163
NG2M150RK KC5025	C162
NG2M150RK KCP25B	C162
NG2M150RK KCU25	C162
NG2M170LK KC5010	C163
NG2M170LK KC5025	C163
NG2M170LK KCP10B	C163
NG2M170LK KCP25B	C163
NG2M170LK KCU25	C163

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NG2M170RK KC5010	C162
NG2M170RK KC5025	C162
NG2M170RK KCP10B	C162
NG2M170RK KCP25B	C162
NG2M170RK KCU10	C162
NG2M170RK KCU25	C162
NG2M175LK KC5025	C163
NG2M175LK KCP25B	C163
NG2M175LK KCU25	C163
NG2M175RK KCP25B	C162
NG2M175RK KCU25	C162
NG2M195LK KC5010	C163
NG2M195LK KCP10B	C163
NG2M195LK KCP25B	C163
NG2M195LK KCU25	C163
NG2M195RK KC5010	C162
NG2M195RK KC5025	C162
NG2M195RK KCP10B	C162
NG2M195RK KCP25B	C162
NG2M195RK KCU10	C162
NG2M195RK KCU25	C162
NG2M200LK KC5010	C163
NG2M200LK KC5025	C163
NG2M200LK KCP10B	C163
NG2M200LK KCP25B	C163
NG2M200LK KCU10	C163
NG2M200LK KCU25	C163
NG2M200RK KC5010	C162
NG2M200RK KC5025	C162
NG2M200RK KCP10B	C162
NG2M200RK KCP25B	C162
NG2M200RK KCU10	C162
NG2M200RK KCU25	C162
NG2M200RK KT315	C162
NG2M220LK KCP25B	C163
NG2M220LK KCU25	C163
NG2M220RK KC5025	C162
NG2M220RK KCP25B	C162
NG2M220RK KCU25	C162
NG2M225LK KC5025	C163
NG2M225LK KCP10B	C163
NG2M225LK KCP25B	C163
NG2M225LK KCU10	C163
NG2M225LK KCU25	C163
NG2M225RK KC5025	C162
NG2M225RK KCP10B	C162
NG2M225RK KCP25B	C162
NG2M225RK KCU10	C162
NG2M225RK KCU25	C162
NG2M250LK KC5025	C163
NG2M250LK KCP25B	C163
NG2M250LK KCU25	C163
NG2M250RK KC5025	C162
NG2M250RK KCP25B	C162
NG2M250RK KCU25	C162
NG2M275LK KC5010	C163
NG2M275LK KCP25B	C163
NG2M275LK KCU10	C163
NG2M275LK KCU25	C163
NG2M275RK KC5025	C162
NG2M275RK KCP10B	C162
NG2M275RK KCP25B	C162
NG2M275RK KCU10	C162
NG2M275RK KCU25	C162
NG2M300LK KC5010	C163
NG2M300LK KC5025	C163
NG2M300LK KCP10B	C163
NG2M300LK KCP25B	C163
NG2M300LK KCU10	C163
NG2M300LK KCU25	C163
NG2M300RK KC5010	C162
NG2M300RK KC5025	C162
NG2M300RK KCP10B	C162
NG2M300RK KCP25B	C162
NG2M300RK KCU10	C162
NG2M300RK KCU25	C162
NG2M320RK KCP25B	C162
NG2M325LK KCP25B	C163
NG2M325LK KCU25	C163
NG2M325RK KC5025	C162
NG2M325RK KCP25B	C162
NG2M325RK KCU25	C162
NG3047L K313	C170
NG3047L KC5010	C170
NG3047L KCK20B	C170
NG3047L KCU10	C170
NG3047L KCU25	C170
NG3047LK KC5010	C163
NG3047LK KC5025	C163
NG3047LK KCP10B	C163
NG3047LK KCP25B	C163
NG3047LK KCU10	C163
NG3047LK KCU25	C163
NG3047R K313	C170
NG3047R KC5010	C170
NG3047R KC5025	C170
NG3047R KCK20B	C170
NG3047R KCU10	C170
NG3047R KCU25	C170
NG3047RK KC5010	C162
NG3047RK KC5025	C162
NG3047RK KCP10B	C162
NG3047RK KCP25B	C162
NG3047RK KCU10	C162
NG3047RK KCU25	C162
NG3062L K313	C170
NG3062L KC5010	C170
NG3062L KC5025	C170
NG3062L KCK20B	C170
NG3062L KCU10	C170
NG3062L KCU25	C170
NG3062LEST KB1630	C177
NG3062LEST KD1425	C177
NG3062LK KC5010	C163
NG3062LK KC5025	C163
NG3062LK KCU10	C163
NG3062LK KCU25	C163
NG3062R K313	C170
NG3062R KC5010	C170
NG3062R KC5025	C170
NG3062R KCK20B	C170
NG3062R KCU10	C170
NG3062R KCU25	C170
NG3062REST KB1630	C177
NG3062REST KD1425	C177
NG3062RK KC5010	C162
NG3062RK KC5025	C162
NG3062RK KCP10B	C162
NG3062RK KCP25B	C162
NG3062RK KCU10	C162
NG3062RK KCU25	C162
NG3062RK KT315	C162
NG3072L KC5010	C170
NG3072L KCU10	C170
NG3072LK KC5010	C163
NG3072LK KC5025	C163
NG3072LK KCP10B	C163
NG3072LK KCP25B	C163
NG3072LK KCU10	C163
NG3072LK KCU25	C163
NG3072R KC5010	C170
NG3072R KCK20B	C170
NG3072R KCU10	C170
NG3072RK KC5010	C162
NG3072RK KC5025	C162
NG3072RK KCP10B	C162
NG3072RK KCP25B	C162
NG3072RK KCU10	C162
NG3072RK KCU25	C162
NG3078L KCU10	C170
NG3078LK KC5010	C163
NG3078LK KC5025	C163
NG3078LK KCP10B	C163
NG3078LK KCP25B	C163
NG3078LK KCU10	C163
NG3078LK KCU25	C163
NG3078R KC5010	C170
NG3078R KCK20B	C170
NG3078R KCU10	C170
NG3078RK KC5010	C162
NG3078RK KC5025	C162
NG3078RK KCP10B	C162
NG3078RK KCP25B	C162
NG3078RK KCU10	C162
NG3078RK KCU25	C162
NG3088L KC5010	C170
NG3088L KCU10	C170
NG3088L KCU25	C170
NG3088R KC5010	C170
NG3088R KCK20B	C170
NG3088R KCU10	C170
NG3088R KCU25	C170
NG3094L K313	C170
NG3094L KC5010	C170
NG3094L KC5025	C170
NG3094L KCK20B	C170
NG3094L KCU10	C170
NG3094L KCU25	C170
NG3094LEST KB1630	C177
NG3094LEST KD1425	C177
NG3094LK KC5010	C164
NG3094LK KC5025	C164
NG3094LK KCP10B	C164
NG3094LK KCP25B	C164
NG3094LK KCU10	C164
NG3094LK KCU25	C164
NG3094LK KT315	C164
NG3094R K313	C170
NG3094R KC5010	C170
NG3094R KC5025	C170
NG3094R KCK20B	C170
NG3094R KCU10	C170
NG3094R KCU25	C170
NG3094REST KB1630	C177
NG3094REST KD1425	C177
NG3094RK KC5010	C162
NG3094RK KC5025	C162
NG3094RK KCP10B	C162
NG3094RK KCU10	C162
NG3094RK KCU25	C162
NG3094RK KT315	C162
NG3097L KCU10	C171
NG3097L KCU25	C171
NG3097R KC5010	C170
NG3097R KCK20B	C170
NG3097R KCU10	C170
NG3097R KCU25	C170
NG3105L KC5010	C171
NG3105L KCU10	C171
NG3105L KCU25	C171
NG3105R KC5010	C170
NG3105R KC5025	C170
NG3105R KCK20B	C170
NG3105R KCU10	C170
NG3105R KCU25	C170
NG3110L KC5025	C171
NG3110L KCU25	C171
NG3110R KC5025	C170
NG3110R KCU25	C170
NG3122L KCU25	C171
NG3122R KCU25	C170
NG3125L K313	C171
NG3125L KC5010	C171
NG3125L KC5025	C171
NG3125L KCK20B	C171
NG3125L KCU10	C171
NG3125L KCU25	C171
NG3125LEST KB1630	C177
NG3125LK KC5010	C164
NG3125LK KC5025	C164
NG3125LK KCP10B	C164
NG3125LK KCP25B	C164
NG3125LK KCU10	C164
NG3125LK KCU25	C164
NG3125LS0820ST KB1630	C177
NG3125R K313	C170
NG3125R KC5010	C170
NG3125R KC5025	C170
NG3125R KCK20B	C170
NG3125R KCU10	C170
NG3125R KCU25	C170
NG3125REST KB1630	C177
NG3125REST KD1425	C177
NG3125RK KC5010	C162
NG3125RK KC5025	C162
NG3125RK KCP10B	C162
NG3125RK KCP25B	C162
NG3125RK KCU10	C162
NG3125RK KCU25	C162
NG3125RK KT315	C162
NG3125RS0820ST KB1630	C177
NG3125RS0820ST KB5625	C177
NG3142L KCU10	C171
NG3142L KCU25	C171
NG3142R KC5010	C170
NG3142R KCU25	C170
NG3156L KC5025	C171
NG3156L KCU25	C171
NG3156LK KC5010	C164
NG3156LK KC5025	C164
NG3156LK KCP10B	C164
NG3156LK KCP25B	C164
NG3156LK KCU10	C164
NG3156LK KCU25	C164
NG3156R KC5010	C170
NG3156R KC5025	C170
NG3156R KCK20B	C170
NG3156R KCU10	C170
NG3156R KCU25	C170
NG3156RK KC5010	C162
NG3156RK KC5025	C162
NG3156RK KCP10B	C162
NG3156RK KCP25B	C162
NG3156RK KCU10	C162
NG3156RK KCU25	C162
NG3178L KCU25	C171
NG3178R KC5025	C170
NG3185L KC5025	C171
NG3185R KCU25	C170
NG3189L KC5010	C171
NG3189L KC5025	C171
NG3189L KCK20B	C171
NG3189L KCU10	C171
NG3189L KCU25	C171
NG3189LK KC5010	C164
NG3189LK KC5025	C164
NG3189LK KCP10B	C164
NG3189LK KCP25B	C164
NG3189LK KCU10	C164
NG3189LK KCU25	C164
NG3189R K313	C170
NG3189R KC5010	C170
NG3189R KC5025	C170
NG3189R KCK20B	C170
NG3189R KCU10	C170
NG3189R KCU25	C170
NG3189REST KD1425	C177
NG3189RK KC5010	C163
NG3189RK KC5025	C163
NG3189RK KCP10B	C163
NG3189RK KCP25B	C163
NG3189RK KCU10	C163
NG3189RK KCU25	C163
NG3M100LK KC5025	C163
NG3M100LK KCP25B	C163
NG3M100LK KCU25	C163
NG3M100RK KC5025	C162
NG3M100RK KCP25B	C162
NG3M100RK KCU25	C162
NG3M120LK KC5025	C163
NG3M120LK KCP10B	C163
NG3M120LK KCP25B	C163
NG3M120LK KCU10	C163
NG3M120LK KCU25	C163
NG3M120RK KC5025	C162
NG3M120RK KCP10B	C162
NG3M120RK KCP25B	C162
NG3M120RK KCU10	C162
NG3M120RK KCU25	C162
NG3M150LK KC5025	C163
NG3M150LK KCP25B	C163
NG3M150LK KCU25	C163
NG3M150RK KC5025	C162
NG3M150RK KCP25B	C162
NG3M150RK KCU25	C162
NG3M175LK KC5025	C163
NG3M175LK KCP25B	C163
NG3M175LK KCU25	C163

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NG3M175RK KC5025	C162
NG3M175RK KCP25B	C162
NG3M175RK KCU25	C162
NG3M200LK KC5025	C163
NG3M200LK KCP25B	C163
NG3M200LK KCU25	C163
NG3M200LS02020ST KB5625	C177
NG3M200RK KC5025	C162
NG3M200RK KCP25B	C162
NG3M200RK KCU25	C162
NG3M200RK KT315	C162
NG3M200RS02020ST KB1630	C177
NG3M200RS02020ST KB5625	C177
NG3M220LK KC5025	C164
NG3M220LK KCP25B	C164
NG3M220LK KCU25	C164
NG3M220RK KC5025	C162
NG3M220RK KCP25B	C162
NG3M220RK KCU25	C162
NG3M225LK KCP10B	C164
NG3M225LK KCP25B	C164
NG3M225LK KCU10	C164
NG3M225LK KCU25	C164
NG3M225RK KC5010	C162
NG3M225RK KC5025	C162
NG3M225RK KCP10B	C162
NG3M225RK KCP25B	C162
NG3M225RK KCU10	C162
NG3M225RK KCU25	C162
NG3M250LK KC5025	C164
NG3M250LK KCP25B	C164
NG3M250LK KCU25	C164
NG3M250RK KC5025	C162
NG3M250RK KCP25B	C162
NG3M250RK KCU25	C162
NG3M275LK KC5025	C164
NG3M275LK KCP10B	C164
NG3M275LK KCP25B	C164
NG3M275LK KCU10	C164
NG3M275LK KCU25	C164
NG3M275RK KC5010	C162
NG3M275RK KC5025	C162
NG3M275RK KCP10B	C162
NG3M275RK KCP25B	C162
NG3M275RK KCU10	C162
NG3M275RK KCU25	C162
NG3M300LK KC5010	C164
NG3M300LK KC5025	C164
NG3M300LK KCP10B	C164
NG3M300LK KCP25B	C164
NG3M300LK KCU10	C164
NG3M300LK KCU25	C164
NG3M300RK KC5010	C162
NG3M300RK KC5025	C162
NG3M300RK KCP10B	C162
NG3M300RK KCP25B	C162
NG3M300RK KCU10	C162
NG3M300RK KCU25	C162
NG3M300RS02020ST KB1630	C177
NG3M300RS02020ST KB5625	C177
NG3M320LK KC5025	C164
NG3M320LK KCP25B	C164
NG3M320LK KCU25	C164
NG3M320RK KC5025	C162
NG3M320RK KCP25B	C162
NG3M320RK KCU25	C162
NG3M325LK KC5025	C164
NG3M325LK KCP25B	C164
NG3M325LK KCU25	C164
NG3M325RK KC5025	C162
NG3M325RK KCP25B	C162
NG3M325RK KCU25	C162
NG3M350LK KC5025	C164
NG3M350LK KCP25B	C164
NG3M350LK KCU25	C164
NG3M350RK KC5025	C162
NG3M350RK KCP25B	C162
NG3M350RK KCU25	C162
NG3M400LK KC5025	C164
NG3M400LK KCP10B	C164
NG3M400LK KCP25B	C164
NG3M400LK KCU10	C164
NG3M400LK KCU25	C164
NG3M400RK KC5010	C162
NG3M400RK KC5025	C162
NG3M400RK KCP10B	C162
NG3M400RK KCP25B	C162
NG3M400RK KCU10	C162
NG3M400RK KCU25	C162
NG3M400RS02020ST KB5625	C177
NG3M425LK KCP10B	C164
NG3M425LK KCP25B	C164
NG3M425LK KCU10	C164
NG3M425LK KCU25	C164
NG3M425RK KC5025	C163
NG3M425RK KCP10B	C163
NG3M425RK KCP25B	C163
NG3M425RK KCU10	C163
NG3M425RK KCU25	C163
NG3M450LK KCP25B	C164
NG3M450LK KCU25	C164
NG3M450RK KCP25B	C163
NG3M450RK KCU25	C163
NG4125L K313	C171
NG4125L KCU10	C171
NG4125L KCU25	C171
NG4125LK KCP10B	C164
NG4125LK KCP25B	C164
NG4125LK KCU10	C164
NG4125LK KCU25	C164
NG4125R K313	C170
NG4125R KCK20B	C170
NG4125R KCU10	C170
NG4125R KCU25	C170
NG4125RK KC5010	C163
NG4125RK KCP10B	C163
NG4125RK KCP25B	C163
NG4125RK KCU10	C163
NG4125RK KCU25	C163
NG4189L KC5010	C171
NG4189L KCK20B	C171
NG4189L KCU10	C171
NG4189L KCU25	C171
NG4189LEST KB1630	C171, C177
NG4189LK KC5010	C164
NG4189LK KC5025	C164
NG4189LK KCP10B	C164
NG4189LK KCP25B	C164
NG4189LK KCU10	C164
NG4189LK KCU25	C164
NG4189R K313	C170
NG4189R KC5010	C170
NG4189R KCK20B	C170
NG4189R KCU10	C170
NG4189R KCU25	C170
NG4189REST KB1630	C177
NG4189RK KC5010	C163
NG4189RK KC5025	C163
NG4189RK KCP10B	C163
NG4189RK KCP25B	C163
NG4189RK KCU10	C163
NG4189RK KCU25	C163
NG4213R KCU25	C170
NG4250L KC5010	C171
NG4250L KC5025	C171
NG4250L KCK20B	C171
NG4250L KCU10	C171
NG4250L KCU25	C171
NG4250LK KC5010	C164
NG4250LK KC5025	C164
NG4250LK KCP10B	C164
NG4250LK KCP25B	C164
NG4250LK KCU10	C164
NG4250LK KCU25	C164
NG4250R KC5010	C170
NG4250R KC5025	C170
NG4250R KCK20B	C170
NG4250R KCU10	C170
NG4250R KCU25	C170
NG4250RK KC5010	C163
NG4250RK KC5025	C163
NG4250RK KCP10B	C163
NG4250RK KCP25B	C163
NG4250RK KCU25	C163
NG4M300LK KCP25B	C164
NG4M300LK KCU25	C164
NG4M300RK KCP25B	C163
NG4M300RK KCU25	C163
NG4M320LK KCP25B	C164
NG4M350LK KCP25B	C164
NG4M350LK KCU25	C164
NG4M350RK KCP25B	C163
NG4M350RK KCU25	C163
NG4M400LK KCP10B	C164
NG4M400LK KCP25B	C164
NG4M400LK KCU10	C164
NG4M400LK KCU25	C164
NG4M400RK KC5010	C163
NG4M400RK KC5025	C163
NG4M400RK KCP10B	C163
NG4M400RK KCP25B	C163
NG4M400RK KCU25	C163
NG4M450LK KC5025	C164
NG4M450LK KCP25B	C164
NG4M450LK KCU25	C164
NG4M450RK KCP25B	C163
NG4M450RK KCU25	C163
NG4M500LK KC5010	C164
NG4M500LK KCP10B	C164
NG4M500LK KCP25B	C164
NG4M500LK KCU10	C164
NG4M500LK KCU25	C164
NG4M500RK KCP10B	C163
NG4M500RK KCP25B	C163
NG4M500RK KCU10	C163
NG4M500RK KCU25	C163
NG4M550LK KCP25B	C164
NG4M550RK KCP25B	C163
NG4M600LK KCP25B	C164
NG4M600LK KCU25	C164
NG4M600RK KCP25B	C163
NG4M600RK KCU25	C163
NG5312R KCU25	C170
NG6375R KCU25	C170
NGC2C130L055K KCU25	C168
NGC2C130R055K KCU25	C168
NGC2C185L125K KCU25	C168
NGC2C215L150K KCU25	C168
NGC2C215R150K KCU25	C168
NGD2M150LK KC5025	C165
NGD2M150LK KCU10	C165
NGD2M150LK KCU25	C165
NGD2M150RK KC5010	C165
NGD2M150RK KC5025	C165
NGD2M150RK KCU10	C165
NGD2M150RK KCU25	C165
NGD2M200LK KC5010	C165
NGD2M200LK KC5025	C165
NGD2M200LK KCU10	C165
NGD2M200LK KCU25	C165
NGD2M200RK KC5010	C165
NGD2M200RK KC5025	C165
NGD2M200RK KCU10	C165
NGD2M200RK KCU25	C165
NGD2M250LK KC5010	C165
NGD2M250LK KC5025	C165
NGD2M250LK KCU10	C165
NGD2M250LK KCU25	C165
NGD2M250RK KC5025	C165
NGD2M250RK KCU10	C165
NGD2M250RK KCU25	C165
NGD3062LK KC5010	C165
NGD3062LK KC5025	C165
NGD3062LK KCU10	C165
NGD3062LK KCU25	C165
NGD3062RK K313	C165
NGD3062RK KC5010	C165
NGD3062RK KC5025	C165
NGD3062RK KCU10	C165
NGD3062RK KCU25	C165
NGD3094LK K313	C165
NGD3094LK KC5010	C165
NGD3094LK KC5025	C165
NGD3094LK KCU10	C165
NGD3094LK KCU25	C165
NGD3094RK K313	C165
NGD3094RK KC5010	C165
NGD3094RK KC5025	C165
NGD3094RK KCU10	C165
NGD3094RK KCU25	C165
NGD3125LK K313	C165
NGD3125LK KC5010	C165
NGD3125LK KC5025	C165
NGD3125LK KCU10	C165
NGD3125LK KCU25	C165
NGD3125RK K313	C165
NGD3125RK KC5010	C165
NGD3125RK KC5025	C165
NGD3125RK KCU10	C165
NGD3125RK KCU25	C165
NGD3189L K313	C171
NGD3189L KC5010	C171
NGD3189L KCU10	C171
NGD3189LK KC5010	C165
NGD3189LK KC5025	C165
NGD3189LK KCU10	C165
NGD3189LK KCU25	C165
NGD3189R K313	C171
NGD3189R KCU10	C171
NGD3189RK KC5010	C165
NGD3189RK KC5025	C165
NGD3189RK KCU10	C165
NGD3189RK KCU25	C165
NGD3M200LK KC5025	C165
NGD3M200LK KCU25	C165
NGD3M200RK KC5010	C165
NGD3M200RK KC5025	C165
NGD3M200RK KCU10	C165
NGD3M200RK KCU25	C165
NGD3M250LK KC5025	C165
NGD3M250LK KCU25	C165
NGD3M250RK KC5010	C165
NGD3M250RK KC5025	C165
NGD3M250RK KCU25	C165
NGD3M300LK KC5010	C165
NGD3M300LK KC5025	C165
NGD3M300LK KCU10	C165
NGD3M300LK KCU25	C165
NGD3M300RK KC5010	C165
NGD3M300RK KC5025	C165
NGD3M300RK KCU10	C165
NGD3M300RK KCU25	C165
NGD3M350LK KC5025	C165
NGD3M350LK KCU25	C165
NGD3M400LK KC5025	C165
NGD3M400LK KCU10	C165
NGD3M400LK KCU25	C165
NGD3M400RK KC5010	C165
NGD3M400RK KC5025	C165
NGD3M400RK KCU10	C165
NGD3M400RK KCU25	C165
NGD4125LK KC5010	C165
NGD4125LK KC5025	C165
NGD4125LK KCU10	C165
NGD4125LK KCU25	C165
NGD4125RK KC5010	C165
NGD4125RK KC5025	C165
NGD4125RK KCU10	C165
NGD4125RK KCU25	C165
NGD4189LK KC5010	C165
NGD4189LK KC5025	C165
NGD4189LK KCU10	C165
NGD4189LK KCU25	C165
NGD4189RK KC5010	C165
NGD4189RK KC5025	C165
NGD4189RK KCU10	C165
NGD4189RK KCU25	C165
NGD4250L K313	C171
NGD4250L KC5010	C171
NGD4250L KCU10	C171
NGD4250LK KC5025	C165
NGD4250LK KCU10	C165
NGD4250LK KCU25	C165
NGD4250R K313	C171
NGD4250R KCU10	C171
NGD4250RK KC5010	C165
NGD4250RK KC5025	C165
NGD4250RK KCU10	C165

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NGD4250RK KCU25	C165
NGD4M400LK KCU25	C165
NGD4M500LK KCU25	C165
NGD4M550RK KCU25	C165
NGP2031L KCU10	C168
NGP2031R KC5010	C168
NGP2031R KCU10	C168
NGP2062L KCU10	C168
NGP2062R KC5010	C168
NGP2062R KCU10	C168
NGP2125L KCU10	C168
NGP2125R KCU10	C168
NGP3088L KCU10	C168
NGP3088R KCU10	C168
NGP3088R KD1425	C168
NGP3125L KC5010	C168
NGP3125R KC5010	C168
NGP3125R KCU10	C168
NGP3125R KD1425	C168
NGP3156R KCU10	C168
NGP4189R KCU10	C168
NGP4250L KCU10	C168
NGP4250R KC5010	C168
NJ3010L16 KC5025	D15
NJ3010R16 K68	D15
NJ3010R16 KC5025	D15
NJ3010R16 KCU25	D15
NJ3014L12 KC5010	D15
NJ3014L12 KC5025	D15
NJ3014R12 KC5010	D15
NJ3014R12 KC5025	D15
NJ3014R12 KCU10	D15
NJ3014R12 KCU25	D15
NJ3020L8 KC5025	D15
NJ3020R8 KC5010	D15
NJ3020R8 KC5025	D15
NJF3005R32 KC5010	D15
NJF3005R32 KCU10	D15
NJF3006R28 KC5010	D15
NJF3006R28 KC5025	D15
NJF3007L24 KC5010	D15
NJF3007R24 KC5010	D15
NJF3007R24 KC5025	D15
NJF3008L20 KC5010	D15
NJF3008R20 KC5010	D15
NJF3008R20 KC5025	D15
NJF3009R18 K68	D15
NJF3009R18 KC5010	D15
NJF3009R18 KC5025	D15
NJF3009R18 KCU25	D15
NJF3010L16 KC5010	D15
NJF3010R16 KC5010	D15
NJF3010R16 KC5025	D15
NJF3012R14 KC5010	D15
NJF3012R14 KC5025	D15
NJF3012R14 KCU25	D15
NJK3005L32 KC5025	D16
NJK3005R32 KC5010	D16
NJK3005R32 KC5025	D16
NJK3006L28 KC5025	D16
NJK3006R28 KC5010	D16
NJK3006R28 KCU25	D16
NJK3007R24 KC5010	D16
NJK3007R24 KC5025	D16
NJK3007R24 KCU25	D16
NJK3008R20 KC5010	D16
NJK3008R20 KC5025	D16
NJK3008R20 KCU10	D16
NJK3008R20 KCU25	D16
NJK3009R18 KC5010	D16
NJK3009R18 KC5025	D16
NJK3010R16 KC5010	D16
NJK3010R16 KC5025	D16
NJK3010R16 KCU25	D16
NJK3012R14 KC5010	D16
NJK3012R14 KC5025	D16
NJP3010L16 KC5025	D16
NJP3010R16 KC5010	D16
NJP3010R16 KC5025	D16
NJP3010R16 KCU10	D16
NJP3014L12 KC5010	D16
NJP3014R12 K68	D16
NJP3014R12 KC5010	D16
NJP3014R12 KC5025	D16
NJP3014R12 KCU10	D16
NJP3014R12 KCU25	D16
NJP3020L8 KC5025	D16
NJP3020R8 KC5010	D16
NJP3020R8 KC5025	D16
NJP3020R8 KCU25	D16
NKLCL0805V	E41
NKLCL1005B	E41
NKLCL1205A	E41
NKLCL1205B	E41
NKLCL1605C	E41
NKLCLF0805D	E42
NKLCR0805V	E41
NKLCR1005B	E41
NKLCR1205A	E41
NKLCR1205B	E41
NKLCR1605C	E41
NKLCRF0805D	E42
NKLCRF1005B	E42
NKLNL121B	E41
NKLNL161C	E41
NKLNR121B	E41
NKLNR161C	E41
NKPCN1205B	E42
NLW-0.375 S	T128, T131
NLW12SP	T131
NP2002RK KC5010	C167
NP2002RK KC5025	C167
NP2002RK KCU10	C167
NP2002RK KCU25	C167
NP2012RK KCU25	C167
NP3002RK KC5010	C167
NP3002RK KCU10	C167
NP3002RK KCU25	C167
NP3012RK KC5025	C167
NP3012RK KCU25	C167
NPD2002RK KC5010	C167
NPD2002RK KCU25	C167
NPD3002RK KCU25	C167
NPD3012RK KC5010	C167
NPD3012RK KCU10	C167
NPD3012RK KCU25	C167
NPGR51L K68	E33
NPGR51L KC5010	E33
NPGR51L KC5025	E33
NPGR51L KCU10	E33
NPGR51L KCU25	E33
NPGR51L KT315	E33
NPGR51LFP KCM25	E33
NPGR51LFP KCP10	E33
NPGR51LFP KCP25	E33
NPGR51LFP KCU25	E33
NPGR51R K68	E33
NPGR51R KC5010	E33
NPGR51R KC5025	E33
NPGR51R KCU10	E33
NPGR51R KCU25	E33
NPGR51R KD1425	E33
NPGR51R KT315	E33
NPGR51RFP KCM25	E33
NPGR51RFP KCP10	E33
NPGR51RFP KCP25	E33
NPGR52L KC5025	E33
NPGR52L KCM15B	E33
NPGR52L KCU10	E33
NPGR52L KCU25	E33
NPGR52L KD1425	E33
NPGR52LFP KCP10	E33
NPGR52LFP KCP25	E33
NPGR52R KCU10	E33
NPGR52R KCU25	E33
NPGR52R KT315	E33
NPGR52RFP KCP10	E33
NPGR52RFP KCU10	E33
NPL131F KC5010	E34
NPL131F KCU25	E34
NPL132F K68	E34
NPL132F KC5010	E34
NPL132F KCU25	E34
NPL13M05N K68	E35
NPL13M05N KCU10	E35
NPL13M10N K68	E35
NPL13M10N KCU10	E35
NPL332F KCU10	E34
NPL505 K313	E35
NPL505 K68	E35
NPL505 KC5010	E35
NPL505 KCU25	E35
NPL505 KD1425	E35
NPL508 K313	E35
NPL508 KCU10	E35
NPL508 KCU25	E35
NPL508 KD1425	E35
NPL51 K313	E35
NPL51 K68	E35
NPL51 KC5010	E35
NPL51 KC5025	E35
NPL51 KCU10	E35
NPL51 KCU25	E35
NPL51 KD1425	E35
NPL52 K313	E35
NPL52 K68	E35
NPL52 KC5010	E35
NPL52 KCU25	E35
NPL5M02 K68	E36
NPL5M02 KC5010	E36
NPL5M02 KCU10	E36
NPL5M05 K68	E36
NPL5M05 KC5010	E36
NPL5M05 KCU10	E36
NPR1305 K68	E34
NPR1305 KCU10	E34
NPR1308 KCU10	E34
NPR131F KC5010	E34
NPR131F KCU25	E34
NPR132F KC5010	E34
NPR132F KCU10	E34
NPR132F KCU25	E34
NPR13M05F KC5010	E35
NPR13M05F KCP25B	E36
NPR13M05F KCU10	E35
NPR13M05N K68	E35
NPR13M05N KCP25B	E35
NPR13M10N K68	E35
NPR13M10N KCU10	E35
NPR331N KCU25	E34
NPR332 KCU10	E34
NPR505 K313	E35
NPR505 K68	E35
NPR505 KC5010	E35
NPR505 KC5025	E35
NPR505 KCU10	E35
NPR505 KD1425	E35
NPR508 K313	E35
NPR508 KC5010	E35
NPR508 KCU10	E35
NPR508 KCU25	E35
NPR508 KD1425	E35
NPR508 KT315	E35
NPR51 K313	E35
NPR51 K68	E35
NPR51 KC5010	E35
NPR51 KC5025	E35
NPR51 KC5410	E35
NPR51 KCU10	E35
NPR51 KCU25	E35
NPR51 KD1425	E35
NPR51 KT315	E35
NPR52 K68	E35
NPR52 KC5010	E35
NPR52 KC5025	E35
NPR52 KCU10	E35
NPR52 KT315	E35
NPR5M02 K68	E36
NPR5M02 KC5010	E36
NPR5M05 K68	E36
NPR5M05 KC5010	E36
NPR5M05 KCP25B	E36
NPR5M05 KCU10	E36
NR2031L KC5010	C172
NR2031L KC5025	C172
NR2031L KCU10	C172
NR2031L KCU25	C172
NR2031R KC5010	C172
NR2031R KC5025	C172
NR2031R KCU10	C172
NR2031R KCU25	C172
NR2047L KCU25	C172
NR2047R KCU25	C172
NR2062L KC5010	C172
NR2062L KCU10	C172
NR2062L KCU25	C172
NR2062R KC5010	C172
NR2062R KCU10	C172
NR2062R KCU25	C172
NR2M050L KC5010	C172
NR2M050L KCU10	C172
NR2M050L KCU25	C172
NR2M050R KC5010	C172
NR2M050R KC5025	C172
NR2M050R KCU10	C172
NR2M050R KCU25	C172
NR2M075R KC5010	C172
NR2M075R KCU10	C172
NR2M100L KC5025	C172
NR2M100R KC5010	C172
NR2M100R KC5025	C172
NR2M100R KCU10	C172
NR2M125R KC5025	C172
NR2M150L KC5025	C172
NR2M150R KC5025	C172
NR2M175R KC5025	C172
NR3031L K313	C172
NR3031L KC5010	C172
NR3031L KC5025	C172
NR3031L KCU10	C172
NR3031L KCU25	C172
NR3031LK KC5010	C166
NR3031LK KC5025	C166
NR3031LK KCU10	C166
NR3031LK KCU25	C166
NR3031R K313	C172
NR3031R KC5010	C172
NR3031R KC5025	C172
NR3031R KCU10	C172
NR3031R KCU25	C172
NR3031RK KC5010	C166
NR3031RK KC5025	C166
NR3031RK KCU10	C166
NR3031RK KCU25	C166
NR3047L K313	C172
NR3047L KC5010	C172
NR3047L KCU10	C172
NR3047L KCU25	C172
NR3047LK KC5010	C166
NR3047LK KC5025	C166
NR3047LK KCU10	C166
NR3047LK KCU25	C166
NR3047R K313	C172
NR3047R KC5010	C172
NR3047R KCU10	C172
NR3047R KCU25	C172
NR3047RK KC5010	C166
NR3047RK KC5025	C166
NR3047RK KCU10	C166
NR3047RK KCU25	C166
NR3062L K313	C172
NR3062L KC5010	C172
NR3062L KC5025	C172
NR3062L KCU10	C172
NR3062L KCU25	C172
NR3062LK KC5010	C166
NR3062LK KC5025	C166
NR3062LK KCU10	C166
NR3062LK KCU25	C166
NR3062R K313	C172
NR3062R KC5010	C172
NR3062R KC5025	C172
NR3062R KCU10	C172
NR3062R KCU25	C172
NR3062RK KC5010	C166
NR3062RK KC5025	C166
NR3062RK KCU10	C166
NR3062RK KCU25	C166

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NR3078LK KC5010	C166
NR3078LK KC5025	C166
NR3078LK KCU25	C166
NR3078R K313	C172
NR3078RK KC5010	C166
NR3078RK KCU10	C166
NR3078RK KCU25	C166
NR3094L K313	C172
NR3094L KC5010	C172
NR3094L KC5025	C172
NR3094L KCU25	C172
NR3094R KC5010	C172
NR3094R KC5025	C172
NR3094R KCU10	C172
NR3094R KCU25	C172
NR3M100L KC5025	C172
NR3M100R KC5025	C172
NR3M150L KC5010	C172
NR3M150L KC5025	C172
NR3M150L KCU10	C172
NR3M150R KC5025	C172
NR3M200L KC5025	C172
NR3M200R KC5025	C172
NR4062LK KC5010	C166
NR4062LK KCU10	C166
NR4062LK KCU25	C166
NR4062RK KC5010	C166
NR4062RK KCU10	C166
NR4062RK KCU25	C166
NR4094LK KC5010	C166
NR4094LK KC5025	C166
NR4094LK KCU10	C166
NR4094LK KCU25	C166
NR4094R K313	C172
NR4094RK KC5010	C166
NR4094RK KCU10	C166
NR4094RK KCU25	C166
NR4125L KC5010	C172
NR4125L KCU25	C172
NR4125LK KC5010	C166
NR4125LK KCU10	C166
NR4125LK KCU25	C166
NR4125R KC5010	C172
NR4125R KCU10	C172
NR4125R KCU25	C172
NR4125RK KC5010	C166
NR4125RK KC5025	C166
NR4125RK KCU10	C166
NR4125RK KCU25	C166
NRD3031L KC5010	C173
NRD3031L KC5025	C173
NRD3031L KCU10	C173
NRD3031L KCU25	C173
NRD3031R KC5010	C173
NRD3031R KC5025	C173
NRD3031R KCU10	C173
NRD3031R KCU25	C173
NRD3062L KC5010	C173
NRD3062L KC5025	C173
NRD3062L KCU10	C173
NRD3062L KCU25	C173
NRD3062R KC5010	C173
NRD3062R KC5025	C173
NRD3062R KCU10	C173
NRD3062R KCU25	C173
NRD4062L KC5010	C173
NRD4062L KC5025	C173
NRD4062L KCU10	C173
NRD4062L KCU25	C173
NRD4062R KC5010	C173
NRD4062R KCU10	C173
NRD4062R KCU25	C173
NRD4094L KC5010	C173
NRD4094L KCU10	C173
NRD4094L KCU25	C173
NRD4094R KC5010	C173
NRD4094R KCU10	C173
NRD4125L KC5010	C173
NRD4125L KC5025	C173
NRD4125L KCU10	C173
NRD4125L KCU25	C173
NRD4125R KC5010	C173
NRD4125R KCU25	C173
NRL123B	C189
NRL163C	C189
NRL163D	C189
NRL2020K3	C189
NRL203D	C189
NRL2525M3	C189
NRL3225P3	C189
NRP3031L KC5010	C169
NRP3031L KCU10	C169
NRP3031R KC5010	C169
NRP3031R KCU10	C169
NRP3047L KC5010	C169
NRP3047L KCU10	C169
NRP3047R K313	C169
NRP3047R KC5010	C169
NRP3047R KCU10	C169
NRP3062L KC5010	C169
NRP3062R KC5010	C169
NRP3062R KCU10	C169
NRP3094L KC5010	C169
NRP3094L KCU10	C169
NRP3094R KC5010	C169
NRP3094R KCU10	C169
NRR123B	C189
NRR163C	C189
NRR163D	C189
NRR2020K3	C189
NRR203D	C189
NRR243D	C189
NRR2525M3	C189
NRR3225P3	C189
NSL062	C182, D27
NSL082V	C182, D27
NSL1010E2	C183
NSL102B	C182, D27
NSL1212F2	C183
NSL122B	C182, D27
NSL123A	C182, D27
NSL123B	C182, D27
NSL1616H2	C183
NSL162C	C182, D27
NSL163C	C182, D27
NSL163D	C182, D27
NSL164C	C184, D28
NSL164D	C184, D28
NSL166D	C184, D28
NSL2020K2	C183
NSL2020K3	C183
NSL203D	C182, D27
NSL204C	C184, D28
NSL204D	C184, D28
NSL205D	C182, D27
NSL206D	C184, D28
NSL243D	C182, D27
NSL243E	C182, D27
NSL244D	C184, D28
NSL244E	C184, D28
NSL246D	C184, D28
NSL2525M2	C183
NSL2525M3	C183
NSL2525M4	C183
NSL3225P3	C183
NSL3225P4	C183
NSL3232P3	C183
NSL3232P4	C183
NSL853D	C182, D27
NSL854D	C184, D28
NSLDH203D	C186, D29
NSR062	C182, D27
NSR082V	C182, D27
NSR1010E2	C183
NSR102B	C182, D27
NSR1212F2	C183
NSR122B	C182, D27
NSR123A	C182, D27
NSR123B	C182, D27
NSR1616H2	C183
NSR162C	C182, D27
NSR163C	C182, D27
NSR163D	C182, D27
NSR164C	C184, D28
NSR164D	C184, D28
NSR166D	C184, D28
NSR168D	C184, D28
NSR2020K2	C183
NSR2020K3	C183
NSR203D	C182, D27
NSR204C	C184, D28
NSR204D	C184, D28
NSR205D	C182, D27
NSR206D	C184, D28
NSR243D	C182, D27
NSR243E	C182, D27
NSR244D	C184, D28
NSR244E	C184, D28
NSR245D	C182, D27
NSR246D	C184, D28
NSR2525M2	C183
NSR2525M3	C183
NSR2525M4	C183
NSR3225P3	C183
NSR3225P4	C183
NSR3232P3	C183
NSR3232P4	C183
NSR853D	C182, D27
NSR854D	C184, D28
NSR864E	C184, D28
NSRDH122B	C186, D29
NSRDH123A	C186, D29
NSRDH162C	C186, D29
NSRDH163C	C186, D29
NSRDH163D	C186, D29
NSRDH203D	C186, D29
NSRDH204D	C186, D29
NST1	B168–169, B386–387
NST2	B168–169, B386–387
NST3	B168–169, B386–387
NSUL164D	D29
NSUR124C	D29
NSUR164D	D29
NT1L K68	D23
NT1L KC5010	D23
NT1L KC5025	D23
NT1L KCU10	D23
NT1L KCU25	D23
NT2L K313	D17
NT2L K68	D17
NT2L KC5010	D17
NT2L KC5025	D17
NT2L KCU10	D17
NT2L KCU25	D17
NT2LK KC5010	D22
NT2LK KC5025	D22
NT2LK KCU10	D22
NT2LK KCU25	D22
NT2R K313	D17
NT2R K68	D17
NT2R KC5010	D17
NT2R KC5025	D17
NT2R KCU10	D17
NT2R KCU25	D17
NT2RK KC5010	D22
NT2RK KC5025	D22
NT2RK KCU10	D22
NT2RK KCU25	D22
NT3L K68	D17
NT3L KC5010	D17
NT3L KC5025	D17
NT3L KCU10	D17
NT3L KCU25	D17
NT3LCK KC5010	D19
NT3LCK KC5025	D19
NT3LCK KCU10	D19
NT3LCK KCU25	D19
NT3LK KC5010	D22
NT3LK KC5025	D22
NT3LK KCU10	D22
NT3LK KCU25	D22
NT3R K313	D17
NT3R K68	D17
NT3R KC5010	D17
NT3R KC5025	D17
NT3R KCU10	D17
NT3R KCU25	D17
NT3RCK KC5010	D19
NT3RCK KC5025	D19
NT3RCK KCU10	D19
NT3RCK KCU25	D19
NT3RK KC5010	D22
NT3RK KC5025	D22
NT3RK KCU10	D22
NT3RK KCU25	D22
NT4L K68	D17
NT4L KC5010	D17
NT4L KC5025	D17
NT4L KCU10	D17
NT4L KCU25	D17
NT4LCK KC5025	D19
NT4LCK KCU25	D19
NT4LK KC5010	D22
NT4LK KC5025	D22
NT4LK KCU10	D22
NT4LK KCU25	D22
NT4R K68	D17
NT4R KC5010	D17
NT4R KC5025	D17
NT4R KCU10	D17
NT4R KCU25	D17
NT4RCK KC5010	D19
NT4RCK KC5025	D19
NT4RCK KCU25	D19
NT4RK KC5010	D22
NT4RK KC5025	D22
NT4RK KCU10	D22
NT4RK KCU25	D22
NTB2LB KC5010	D18
NTB2LB KCU10	D18
NTB2RA K68	D17
NTB2RB KC5010	D18
NTB3L12B KC5010	D18
NTB3LA K68	D17
NTB3LA KC5010	D17
NTB3LA KC5025	D17
NTB3LB K68	D18
NTB3LB KC5010	D18
NTB3LB KC5025	D18
NTB3LB KCU10	D18
NTB3R12B KC5010	D18
NTB3RA KC5025	D17
NTB3RA KCU10	D17
NTB3RB K68	D18
NTB3RB KC5010	D18
NTB3RB KC5025	D18
NTB3RB KCU10	D18
NTB3RB KCU25	D18
NTB4LB KC5010	D18
NTB4LB KC5025	D18
NTB4RA KCU10	D17
NTB4RB KC5010	D18
NTB4RB KC5025	D18
NTB4RB KCU10	D18
NTC3L10E KCU10	D20
NTC3L10I KC5025	D18
NTC3L12E KCU10	D20
NTC3L12I KC5025	D18
NTC3L14I KC5025	D18
NTC3L16E KCU10	D20
NTC3L16I KC5025	D18
NTC3L8E KC5010	D20
NTC3L8I KC5025	D18
NTC3MR150E KC5010	D19
NTC3MR150E KC5025	D19
NTC3MR150E KCU10	D19
NTC3MR200E KC5010	D19
NTC3R10E KC5010	D20
NTC3R10E KC5025	D20
NTC3R11E KC5025	D20
NTC3R11E KCU10	D20
NTC3R12E KC5010	D20
NTC3R12E KC5025	D20
NTC3R12E KCU25	D20
NTC3R12I KC5025	D18
NTC3R13E KC5010	D20
NTC3R13E KC5025	D20
NTC3R14E KC5010	D20

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
NTC3R14E KC5025	D20
NTC3R16E KC5010	D20
NTC3R16E KC5025	D20
NTC3R18E KC5010	D20
NTC3R18E KC5025	D20
NTC3R18E KCU25	D20
NTC3R20E KC5010	D20
NTC3R20E KC5025	D20
NTC3R20E KCU10	D20
NTC3R24E KC5010	D20
NTC3R24E KC5025	D20
NTC3R28E KC5025	D20
NTC3R32E KC5025	D20
NTC3R32E KCU10	D20
NTC3R7E KC5025	D20
NTC3R8E KC5010	D20
NTC3R8E KC5025	D20
NTC3R8E KCU10	D20
NTC3R9E KCU10	D20
NTF2L K68	D21
NTF2L KC5010	D21
NTF2L KC5025	D21
NTF2L KCU10	D21
NTF2L KCU25	D21
NTF2R K68	D21
NTF2R KC5010	D21
NTF2R KC5025	D21
NTF2R KCU10	D21
NTF2R KCU25	D21
NTF3L K68	D21
NTF3L KC5010	D21
NTF3L KC5025	D21
NTF3L KCU10	D21
NTF3L KCU25	D21
NTF3R K68	D21
NTF3R KC5010	D21
NTF3R KC5025	D21
NTF3R KCU10	D21
NTF3R KCU25	D21
NTF4R KC5025	D21
NTK2L K68	D21
NTK2L KC5010	D21
NTK2L KC5025	D21
NTK2L KCU10	D21
NTK2L KCU25	D21
NTK2R K68	D21
NTK2R KC5010	D21
NTK2R KC5025	D21
NTK2R KCU10	D21
NTK2R KCU25	D21
NTK3L K68	D21
NTK3L KC5010	D21
NTK3L KC5025	D21
NTK3L KCU10	D21
NTK3L KCU25	D21
NTK3R K68	D21
NTK3R KC5010	D21
NTK3R KC5025	D21
NTK3R KCU10	D21
NTK3R KCU25	D21
NTP2L K68	D22
NTP2L KC5010	D22
NTP2L KC5025	D22
NTP2L KCU10	D22
NTP2L KCU25	D22
NTP2R K68	D22
NTP2R KC5010	D22
NTP2R KC5025	D22
NTP2R KCU10	D22
NTP2R KCU25	D22
NTP3L K68	D22
NTP3L KC5010	D22
NTP3L KC5025	D22
NTP3L KCU10	D22
NTP3L KCU25	D22
NTP3R K68	D22
NTP3R KC5010	D22
NTP3R KC5025	D22
NTP3R KC5410	D22
NTP3R KCU10	D22
NTP3R KCU25	D22
NTP4L KC5010	D22
NTP4L KC5025	D22
NTP4R KC5010	D22
NTP4R KC5025	D22
NTP4R KCU10	D22
NTP4R KCU25	D22
NTU4R KC5025	D22
NTU4R KCU25	D22
NU3094L KC5025	C175
NU3094L KCU25	C175
NU3094R KC5025	C175
NU3125L KC5025	C175
NU3125R KCU25	C175
NU3156L KC5025	C175
NUFRL	E64
NUFRR	E64
NUWTC	E65
NV3RJ KCU25	C176
NV4LL KCU25	C176
NV4RL KCU25	C176
NVLCL123B	E43
NVLCL163D	E43
NVLCL203D	E43
NVLCL243D	E43
NVLCR123B	E43
NVLCR163D	E43
NVLCR203D	E43
NVLCR243D	E43
NVVCN163D	E43
NWC3L11I KC5025	D23
NWC3R11E KC5010	D23
NWC3R11E KC5025	D23
NWC3R14E KC5010	D23
NWC3R14E KCU25	D23
ODC1063IEGD KMF	U9
ODC2087IEGD KMF	U9
ODC3125IEGD KMF	U9
ODC4158IEGD KMF	U9
ODG1063ISGB KC735M	U9
ODG1063ISGB KCPK30	U9
ODG1063ISGD KC735M	U9
ODG1063ISGD KCPK30	U9
ODG2087ISGB KC735M	U9
ODG2087ISGB KCPK30	U9
ODG2087ISGD KC735M	U9
ODG2087ISGD KCPK30	U9
ODG3125ISGB KC735M	U9
ODG3125ISGB KCPK30	U9
ODG3125ISGD KC735M	U9
ODG3125ISGD KCPK30	U9
ODG4158ISGB KC735M	U9
ODG4158ISGB KCPK30	U9
ODG4158ISGD KC735M	U9
ODG4158ISGD KCPK30	U9
ODG5197ISGB KC735M	U10
ODG6236ISGB KC735M	U10
ODG6236ISGB KCPK30	U10
OFKT53AFEN4GB KC520M	S47
OFKT53AFEN4GB KC522M	S47
OFKT53AFEN4GB KC725M	S47
OFKT53AFEN4GB KCK15	S47
OFKT53AFEN4GB KCPK30	S47
OFKT53AFEN4GB KCPM40	S47
OFKT53AFEN4GB KCSM40	S47
OFKT53AFEN4LBJ KC422M	S46
OFKT53AFEN6LB KC522M	S47
OFKT53AFEN6LB KC725M	S47
OFKT53AFEN6LB KCK15	S47
OFKT53AFEN6LB KCPK30	S47
OFKT53AFEN6LB KCSM40	S47
OFKT53AFFN4LBJ KC410M	S46
OFKT53AFFN4LNJ KC410M	S46
OFKT53AFSN4HB KC522M	S47
OFKT53AFSN4HB KC725M	S47
OFKT53AFSN4HB KCPK30	S47
OFKT53AFSN4HB KCSM40	S47
OFKT53AFSN6LB KC520M	S47
OFKT53AFSN6LB KC522M	S47
OFKT53AFSN6LB KC725M	S47
OFKT53AFSN6LB KCPK30	S47
OFKT64AFEN6GB KC520M	S52
OFKT64AFEN6GB KC522M	S52
OFKT64AFEN6GB KC725M	S52
OFKT64AFEN6GB KCPK30	S52
OFKT64AFEN6GB KCPM40	S52
OFKT64AFEN6GB KCSM30	S52
OFKT64AFEN6GB KCSM40	S52
OFKT64AFEN6LB KC522M	S51
OFKT64AFEN6LB KC725M	S51
OFKT64AFEN6LB KCPK30	S51
OFKT64AFEN6LB KCSM40	S51
OFKT64AFFN6LNJ KC410M	S51
OFKT64AFSN6HB KC520M	S52
OFKT64AFSN6HB KC522M	S52
OFKT64AFSN6HB KC725M	S52
OFKT64AFSN6HB KCPK30	S52
OFKT64AFSN6HB KCPM40	S52
OFKT64AFSN6HB KCSM40	S52
OFKT64AFSN6LB KC725M	S51
OFKT64AFSN6LB KCPK30	S51
OFPT53AFEN4GB KC520M	S48
OFPT53AFEN4GB KC725M	S48
OFPT53AFEN4GB KCK15	S48
OFPT53AFEN4GB KCPK30	S48
OFPT53AFEN4GB KCPM40	S48
OFPT53AFSN4HB KC520M	S48
OFPT53AFSN4HB KC725M	S48
OFPT53AFSN4HB KCK15	S48
OFPT53AFSN4HB KCPK30	S48
OFPT53AFSN4HB KCSM40	S48
OFPT64AFEN6GB KC520M	S52
OFPT64AFEN6GB KC522M	S52
OFPT64AFEN6GB KC725M	S52
OFPT64AFEN6GB KCK15	S52
OFPT64AFEN6GB KCPK30	S52
OFPT64AFEN6GB KCPM40	S52
OFPT64AFSN6HB KC522M	S52
OFPT64AFSN6HB KC725M	S52
OFPT64AFSN6HB KCK15	S52
OFPT64AFSN6HB KCPK30	S52
OFPT64AFSN6HB KCSM40	S52
ONGX642SNHB KC514M	S34
ONGX642SNHB KCK15	S34
ONGX645ENLE KC514M	S33
ONGX645ENLE KCK15	S33
ONGX645ENLE KCK20	S33
ONGX645SNGP KC514M	S33
ONGX645SNGP KCK15	S33
ONGX645SNGP KCK20	S33
ONGX645SNGP KCPK30	S33
ONGX645SNHB KC514M	S34
ONGX645SNHB KCK15	S34
ONGX645SNHB KCK20	S34
ONGX645SNHB KCPK30	S34
ONGX648SNHB KC514M	S34
ONGX648SNHB KCK15	S34
ONGX648SNHB KCK20	S34
ONGX64ANENLE KC514M	S33
ONGX64ANENLE KCK15	S33
ONGX64ANENLE KCK20	S33
ONGX64ANSNGP KC514M	S33
ONGX64ANSNGP KCK15	S33
ONGX64ANSNGP KCK20	S33
ONPX642SNGP KCK15	S34
ONPX642SNGP KCK20	S34
ONPX642SNGP KCPK30	S34
ONPX645SNHB KCK15	S34
ONPX645SNHB KCK20	S34
ONPX645SNHB KCPK30	S34
PDC251A04763DA KD1415	G106
PDC251A06350DA KD1415	G106
PDC251A07938DA KD1415	G106
PDC251A09525DA KD1415	G106
PDC251A11113DA KD1415	G106
PDC251A12700DA KD1415	G106
PKG-8001	K132–134
PKG0002	K145
PKG0011	K130
PKG1402	K130
PKG1565	K141–143
PKG156502	K143–144
PKG1602	K130
PKG1802	K130
PKG2025	K134, K136
PKG3242	K134, K136
PKG7001	K128
PKG7994	K145
PMT04525	C71, C149
PROON164D	B170, B385
PROON204D	B170, B385
PROON206D	B170, B385
PROON208D	B170, B385
PROON244D	B170, B385
PROON246	B170, B385
PSC40KGMEL50C	C73, C151
PSC40KGMER50C	C73, C151
PSC40KGMSL50C	C72, C150
PSC40KGMSR50C	C72, C150
PSC50KGMEL50C	C73, C151
PSC50KGMEL65C	C73, C151
PSC50KGMER50C	C73, C151
PSC50KGMER65C	C73, C151
PSC50KGMSL50C	C72, C150
PSC50KGMSL65C	C72, C150
PSC50KGMSR50C	C72, C150
PSC50KGMSR65C	C72, C150
PSC63DL10200	052
PSC63DL12200	052
PSC63DL16225	052
PSC63DL20225	052
PSC63DL25238	052
PSC63DL32275	052
PSC63KGMEL50C	C73, C151
PSC63KGMEL65C	C73, C151
PSC63KGMER50C	C73, C151
PSC63KGMER65C	C73, C151
PSC63KGMSL50C	C72, C150
PSC63KGMSL65C	C72, C150
PSC63KGMSR50C	C72, C150
PSC63KGMSR65C	C72, C150
PSC80KGMEL50C	C73, C151
PSC80KGMEL65C	C73, C151
PSC80KGMER50C	C73, C151
PSC80KGMER65C	C73, C151
PSC80KGMSL50C	C72, C150
PSC80KGMSL65C	C72, C150
PSC80KGMSR50C	C72, C150
PSC80KGMSR65C	C72, C150
PT00163	E60
QC21	B265
QTM20 WG	B292
R125FBHS09	K140
R24FBHS06	K140
R24FBHS06LF	K140
R30FBHS06	K140
R31FBHS06	K140
R31FBHS06LF	K140
R38FBHS06	K140
R40FBHS06	K140
R40FBHS06LF	K140
R48FBHS06	K140
R51FBHS06	K140
R51FBHS06LF	K140
R65FBHS06	K140
R67FBHS06	K140
R67FBHS09	K140
R67FBHS09LF	K140
R82154	K78
R85FBHS06	K140
R85FBHS09	K140
RCGH43 KC5010	B238
RCGH43 KCU10	B238
RCGH43MP KCS10	B238
RCGK152FS KCU10	E69
RCGK152HP K313	E69
RCGK152HP KC5010	E69
RCGK152HP KCU10	E69
RCGK23FS KC5010	E69
RCGK23FS KCU10	E69
RCGK23HP KC5010	E69
RCGK23HP KC5410	E69
RCGK23HP KCU10	E69
RCGK35FS KC5010	E69
RCGK35FS KC5025	E69
RCGK35FS KCU10	E69
RCGK35HP KC5410	E69
RCGK35HP KCU10	E69

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
RCGK46FS KCU10	E69
RCGK46HP KC5410	E69
RCGK46HP KCU10	E69
RCGN33T0415 KBK45	B308
RCGT0602M0RP KCP25B	B239
RCGT0803M0HP K313	B238
RCGT0803M0HP K68	B238
RCGT0803M0HP KC5010	B238
RCGT0803M0HP KC5410	B238
RCGT0803M0HP KCU25	B238
RCGT0803M0MS KC5010	B239
RCGT0803M0MS KCU10	B239
RCGT0803M0RP KCP25B	B239
RCGT10T3M0HP K313	B238
RCGT10T3M0HP KC5010	B238
RCGT10T3M0HP KC5025	B238
RCGT10T3M0HP KC5410	B238
RCGT10T3M0HP KCU10	B238
RCGT10T3M0HP KCU25	B238
RCGT1204M0HP K313	B238
RCGT1204M0HP KC5010	B238
RCGT1204M0HP KC5025	B238
RCGT1204M0HP KCU10	B238
RCGT1204M0MS KC5010	B239
RCGT1204M0MS KCU10	B239
RCGT1204M0MS KCU25	B239
RCGT1204M0RP KCP25	B239
RCGT1606M0MS KCU10	B239
RCGT1606M0MS KCU25	B239
RCGT64ELF KC725M	V89
RCGT64ELF KCPK30	V89
RCGT64ELF KCSM40	V89
RCGT64ELFJ KCSM30	V89
RCGT64SGF KC522M	V89
RCGT64SGF KC725M	V89
RCGT64SGFJ KCPM40	V89
RCGT64SHF KC725M	V89
RCGT64SHF KCPK30	V89
RCGT64SHF KCSM40	V89
RCGT64SHFJ KCPM40	V89
RCGT86ELF KC725M	V92
RCGT86ELF KCPK30	V92
RCGT86ELF KCSM40	V92
RCGT86SGF KC522M	V92
RCGT86SGF KC725M	V92
RCGT86SGFJ KCPM40	V92
RCGT86SHF KC725M	V92
RCGT86SHF KCPK30	V92
RCGT86SHF KCSM40	V92
RCGT86SHFJ KCPM40	V92
RCGV23 KC5010	B166
RCGV23 KCU10	B166
RCGV23E KYS25	B351
RCGV23E KYS30	B351
RCGV23MP KCS10	B166
RCGV35 KC5010	B166
RCGV35E KYS25	B351
RCGV35E KYS30	B351
RCGV35T0225 KYS30	B351
RCGV35T0420 KY1615	B335
RCGV35T0420 KYS25	B351
RCGV35T0420 KYS30	B351
RCGV35T0820 KY1615	B335
RCGV35T4015 KY1615	B335
RCGV35T8015 KY1615	B335
RCGV45 K313	B166
RCGV45 KC5010	B166
RCGV45E KYS25	B351
RCGV45E KYS30	B351
RCGV45MP KCS10	B166
RCGV45T0420 KYS25	B351
RCGV45T0420 KYS30	B351
RCGV45T0425 KYS25	B351
RCGV45T0425 KYS30	B351
RCGV45T0820 KY1615	B335
RCGV45T4015 KY1615	B335
RCGV45T8015 KY1615	B335
RCGV88T8015 KY1615	B335
RCGW1204M0T01020 KY1615	B336
RCGX0907-001 KY1615	B336
RCGX151000T20015 KY1615	B335
RCGX191000T20015 KY1615	B335
RCMH2507M0RU KCP25	E66
RCMH2507M0TUPG KCP10B	E66
RCMH2507M0TUPG KCP25B	E66
RCMH3209M0RU KCP25	E66
RCMH3209M0TUPG KCP10B	E66
RCMH3209M0TUPG KCP25B	E66
RCMH64K KCP10B	B239
RCMK152 K313	E69
RCMK152 KC5010	E69
RCMK23 K313	E69
RCMK23 KC5010	E69
RCMK23 KCU10	E69
RCMK23MP KCS10	E69
RCMK35 K313	E69
RCMK35 KC5010	E69
RCMK35MP KCS10	E69
RCMK46 KC5010	E69
RCMK46MP KCS10	E69
RCMT0602M0 K313	B240
RCMT0602M0 K68	B240
RCMT0602M0 KC5010	B240
RCMT0602M0 KCM25	B240
RCMT0602M0 KCP25	B240
RCMT0602M0 KCP30	B240
RCMT0602M0 KCU10	B240
RCMT0803M0 K313	B240
RCMT0803M0 KC5010	B240
RCMT0803M0 KCK20B	B240
RCMT0803M0 KCM25	B240
RCMT0803M0 KCP25	B240
RCMT0803M0MP KCS10	B240
RCMT10T3M0 KC5010	B240
RCMT10T3M0 KCK20B	B240
RCMT10T3M0 KCM25	B240
RCMT10T3M0 KCP25	B240
RCMT10T3M0 KCP30	B240
RCMT10T3M0 KCU10	B240
RCMT10T3M0MP KCS10	B240
RCMT1204M0 K313	B240
RCMT1204M0 KC5010	B240
RCMT1204M0 KCK15B	B240
RCMT1204M0 KCK20	B240
RCMT1204M0 KCK20B	B240
RCMT1204M0 KCM25	B240
RCMT1204M0 KCM25B	B240
RCMT1204M0 KCP30	B240
RCMT1204M0 KCU10	B240
RCMT1204M0MP KCS10	B240
RCMT1204M0RP KCK15	B242
RCMT1204M0RP KCK20	B242
RCMT1204M0RP KCP10	B242
RCMT1204M0RP KCP10B	B242
RCMT1204M0RP KCP25	B242
RCMT1204M0RP KCP25B	B242
RCMT1605M0 K313	B240
RCMT1605M0 KC5010	B240
RCMT1605M0 KCK20	B240
RCMT1605M0 KCM25	B240
RCMT1605M0 KCP25	B240
RCMT1605M0 KCU10	B240
RCMT1606M0MP KCS10	B240
RCMT1606M0RP KCK15	B242
RCMT1606M0RP KCP25	B242
RCMT1606M0RP KCP25B	B242
RCMT1606M0UPG KCK15B	E66
RCMT1606M0UPG KCP10B	E66
RCMT1606M0UPG KCP25B	E66
RCMT1606M0UPG KCPK05	E66
RCMT2006M0 K313	B240
RCMT2006M0 KC5010	B240
RCMT2006M0 KCK20B	B240
RCMT2006M0 KCM25	B240
RCMT2006M0 KCP25	B240
RCMT2006M0 KCU10	B240
RCMT2006M0RH KCP10	B241
RCMT2006M0RH KCP25	B241
RCMT2006M0RM KCP25	B241
RCMT2006M0RP KCK20	B242
RCMT2006M0RP KCK20B	B242
RCMT2006M0RP KCP25	B242
RCMT2006M0UPG KCK15B	E66
RCMT2006M0UPG KCP10B	E66
RCMT2006M0UPG KCP25B	E66
RCMT2006M0UPG KCPK05	E66
RCMT215 KC5010	B240
RCMT215 KCP25	B240
RCMT215 KCU10	B240
RCMT325 K313	B240
RCMT325 KC5010	B240
RCMT325 KCP25	B240
RCMT325 KCU10	B240
RCMT43 KC5010	B240
RCMT43 KCK20	B240
RCMT43 KCM25	B240
RCMT43 KCP10B	B240
RCMT43MP KCS10	B240
RCMX1003M0RP KCP10B	B242
RCMX1003M0RP KCP25B	B242
RCMX2507M076 KCP25B	E59
RCMX2507M0RH KCP10	B241
RCMX2507M0RH KCP25	B241
RCMX2507M0RP KCP25	B242
RCMX2507M0RP KCP30	B242
RCMX2507M0RU KCK20	E67
RCMX2507M0TUPG KCP10B	E67
RCMX2507M0TUPG KCP25B	E67
RCMX3209M0RH KCP25	B241
RCMX3209M0RU KCK20	E67
RCMX3209M0RU KCP10	E67
RCMX3209M0TUPG KCP10B	E67
RCMX3209M0TUPG KCP25B	E67
RHM14000KST115H7HF KT325	K33
RHM14000KST115H7HF KT6215	K33
RHM14000KST115H7SF KT325	K31
RHM14000KST115H7SF KT6215	K31
RHM14288KST115H7HF KT325	K33
RHM14288KST115H7HF KT6215	K33
RHM14288KST115H7SF KT325	K31
RHM14288KST115H7SF KT6215	K31
RHM15000KST115H7SF KT325	K31
RHM15875KST115H7HF KT325	K33
RHM15875KST115H7SF KT325	K31
RHM15875KST115H7SF KT6215	K31
RHM16000KST135H7HF KT325	K33
RHM16000KST135H7HF KT6215	K33
RHM16000KST135H7SF KT325	K31
RHM16000KST135H7SF KT6215	K31
RHM17000KST135H7HF KT325	K33
RHM17000KST135H7HF KT6215	K33
RHM17000KST135H7SF KT325	K31
RHM17000KST135H7SF KT6215	K31
RHM17463KST135H7HF KT325	K33
RHM17463KST135H7HF KT6215	K33
RHM17463KST135H7SF KT325	K31
RHM18000KST155H7HF KT325	K33
RHM18000KST155H7HF KT6215	K33
RHM18000KST155H7SF KT325	K31
RHM18000KST155H7SF KT6215	K31
RHM19000KST155H7HF KT325	K33
RHM19000KST155H7HF KT6215	K33
RHM19000KST155H7SF KT325	K31
RHM19050KST155H7HF KT325	K33
RHM19050KST155H7HF KT6215	K33
RHM19050KST155H7SF KT6215	K31
RHM20000KST175H7HF KT325	K33
RHM20000KST175H7HF KT6215	K33
RHM20000KST175H7SF KT325	K31
RHM20000KST175H7SF KT6215	K31
RHM20640KST175H7HF KT325	K33
RHM20640KST175H7HF KT6215	K33
RHM20640KST175H7SF KT325	K31
RHM20640KST175H7SF KT6215	K31
RHM21000KST175H7HF KT325	K33
RHM21000KST175H7HF KT6215	K33
RHM21000KST175H7SF KT325	K31
RHM21000KST175H7SF KT6215	K31
RHM22000KST175H7HF KT325	K33
RHM22000KST175H7HF KT6215	K33
RHM22000KST175H7SF KT6215	K31
RHM22230KST175H7HF KT325	K33
RHM22230KST175H7HF KT6215	K33
RHM22230KST175H7SF KT325	K31
RHM22230KST175H7SF KT6215	K31
RHM22500KST200H7HF KT325	K33
RHM22500KST200H7HF KT6215	K33
RHM22500KST200H7SF KT325	K31
RHM22500KST200H7SF KT6215	K31
RHM23000KST200H7HF KT325	K33
RHM23000KST200H7HF KT6215	K33
RHM23000KST200H7SF KT325	K31
RHM23000KST200H7SF KT6215	K31
RHM23810KST200H7HF KT325	K33
RHM23810KST200H7HF KT6215	K33
RHM23810KST200H7SF KT325	K31
RHM23810KST200H7SF KT6215	K31
RHM24000KST200H7HF KT325	K33
RHM24000KST200H7HF KT6215	K33
RHM24000KST200H7SF KT325	K31
RHM24000KST200H7SF KT6215	K31
RHM25000KST200H7HF KT325	K33
RHM25000KST200H7HF KT6215	K33
RHM25000KST200H7SF KT325	K31
RHM25000KST200H7SF KT6215	K31
RHM25400KST200H7HF KT325	K33
RHM25400KST200H7HF KT6215	K33
RHM25400KST200H7SF KT325	K31
RHM25400KST200H7SF KT6215	K31
RHM26000KST200H7HF KT325	K33
RHM26000KST200H7HF KT325	K31
RHM26990KST200H7HF KT325	K33
RHM26990KST200H7HF KT6215	K33
RHM26990KST200H7SF KT325	K31
RHM26990KST200H7SF KT6215	K31
RHM27000KST200H7HF KT325	K33
RHM27000KST200H7HF KT6215	K33
RHM27000KST200H7SF KT325	K31
RHM27000KST200H7SF KT6215	K31
RHM27500KST250H7HF KT325	K33
RHM27500KST250H7HF KT6215	K33
RHM27500KST250H7SF KT325	K32
RHM27500KST250H7SF KT6215	K32
RHM28000KST250H7HF KT325	K34
RHM28000KST250H7HF KT6215	K34
RHM28000KST250H7SF KT325	K32
RHM28000KST250H7SF KT6215	K32
RHM28580KST250H7HF KT325	K34
RHM28580KST250H7SF KT325	K32
RHM28580KST250H7SF KT6215	K32
RHM29000KST250H7HF KT325	K34
RHM29000KST250H7HF KT6215	K34
RHM29000KST250H7SF KT325	K32
RHM29000KST250H7SF KT6215	K32
RHM30000KST250H7HF KT325	K34
RHM30000KST250H7HF KT6215	K34
RHM30000KST250H7SF KT325	K32
RHM30000KST250H7SF KT6215	K32
RHM30160KST250H7HF KT325	K34
RHM30160KST250H7HF KT6215	K34
RHM30160KST250H7SF KT325	K32
RHM31000KST250H7HF KT325	K34
RHM31000KST250H7HF KT6215	K34
RHM31000KST250H7SF KT325	K32
RHM31000KST250H7SF KT6215	K32
RHM31750KST250H7HF KT325	K34
RHM31750KST250H7HF KT6215	K34
RHM31750KST250H7SF KT325	K32
RHM31750KST250H7SF KT6215	K32
RHM32000KST250H7HF KT325	K34
RHM32000KST250H7HF KT6215	K34
RHM32000KST250H7SF KT325	K32
RHM32500KST300H7HF KT325	K34
RHM32500KST300H7HF KT6215	K34
RHM32500KST300H7SF KT325	K32
RHM32500KST300H7SF KT6215	K32
RHM33000KST300H7HF KT325	K34
RHM33000KST300H7HF KT6215	K34
RHM33000KST300H7SF KT325	K32
RHM33000KST300H7SF KT6215	K32
RHM33340KST300H7HF KT325	K34
RHM33340KST300H7HF KT6215	K34
RHM33340KST300H7SF KT325	K32
RHM33340KST300H7SF KT6215	K32
RHM34000KST300H7HF KT6215	K34
RHM34000KST300H7SF KT325	K32
RHM34930KST300H7HF KT325	K34
RHM34930KST300H7HF KT6215	K34

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
RHM34930KST300H7SF KT325	K32
RHM34930KST300H7SF KT6215	K32
RHM35000KST300H7HF KT325	K34
RHM35000KST300H7HF KT6215	K34
RHM35000KST300H7SF KT325	K32
RHM35000KST300H7SF KT6215	K32
RHM36000KST300H7HF KT325	K34
RHM36000KST300H7SF KT325	K32
RHM36000KST300H7SF KT6215	K32
RHM36510KST300H7HF KT325	K34
RHM36510KST300H7HF KT6215	K34
RHM36510KST300H7SF KT325	K32
RHM36510KST300H7SF KT6215	K32
RHM37000KST300H7HF KT325	K34
RHM37000KST300H7HF KT6215	K34
RHM37000KST300H7SF KT325	K32
RHM37500KST350H7HF KT325	K34
RHM37500KST350H7HF KT6215	K34
RHM37500KST350H7SF KT325	K32
RHM37500KST350H7SF KT6215	K32
RHM38000KST350H7SF KT325	K32
RHM38000KST350H7SF KT6215	K32
RHM38100KST350H7HF KT325	K34
RHM38100KST350H7SF KT325	K32
RHM38100KST350H7SF KT6215	K32
RHM39000KST350H7HF KT325	K34
RHM39000KST350H7HF KT6215	K34
RHM39000KST350H7SF KT325	K32
RHM39000KST350H7SF KT6215	K32
RHM39690KST350H7HF KT325	K34
RHM39690KST350H7HF KT6215	K34
RHM39690KST350H7SF KT325	K32
RHM39690KST350H7SF KT6215	K32
RHM40000KST350H7HF KT325	K34
RHM40000KST350H7HF KT6215	K34
RHM40000KST350H7SF KT6215	K32
RHM41000KST350H7HF KT325	K34
RHM41000KST350H7HF KT6215	K34
RHM41000KST350H7SF KT325	K32
RHM41000KST350H7SF KT6215	K32
RHM41280KST350H7HF KT325	K34
RHM41280KST350H7HF KT6215	K34
RHM41280KST350H7SF KT325	K32
RHM41280KST350H7SF KT6215	K32
RHM42000KST350H7HF KT325	K34
RHM42000KST350H7HF KT6215	K34
RHM42000KST350H7SF KT325	K32
RHM42000KST350H7SF KT6215	K32
RHME14000KST115H6HF KC6005	K36
RHME14000KST115H6HF KC6305	K36
RHME14000KST115H6SF KC6005	K35
RHME14000KST115H6SF KC6305	K35
RHME14288KST115H6HF KC6005	K36
RHME14288KST115H6HF KC6305	K36
RHME14288KST115H6SF KC6005	K35
RHME14288KST115H6SF KC6305	K35
RHME15000KST115H6HF KC6005	K36
RHME15000KST115H6HF KC6305	K36
RHME15000KST115H6SF KC6005	K35
RHME15000KST115H6SF KC6305	K35
RHME16000KST135H6HF KC6005	K36
RHME16000KST135H6HF KC6305	K36
RHME16000KST135H6SF KC6005	K35
RHME16000KST135H6SF KC6305	K35
RHME17000KST135H6HF KC6005	K36
RHME17000KST135H6HF KC6305	K36
RHME17000KST135H6SF KC6005	K35
RHME17000KST135H6SF KC6305	K35
RHME17463KST135H6HF KC6005	K36
RHME17463KST135H6HF KC6305	K36
RHME17463KST135H6SF KC6005	K35
RHME17463KST135H6SF KC6305	K35
RHME18000KST155H6HF KC6005	K36
RHME18000KST155H6HF KC6305	K36
RHME18000KST155H6SF KC6005	K35
RHME18000KST155H6SF KC6305	K35
RHME19000KST155H6HF KC6005	K36
RHME19000KST155H6HF KC6305	K36
RHME19000KST155H6SF KC6005	K35
RHME19000KST155H6SF KC6305	K35
RHME19050KST155H6HF KC6005	K36
RHME19050KST155H6HF KC6305	K36
RHME19050KST155H6SF KC6005	K35
RHME19050KST155H6SF KC6305	K35
RHME20000KST175H6HF KC6005	K36
RHME20000KST175H6HF KC6305	K36
RHME20000KST175H6SF KC6005	K35
RHME20000KST175H6SF KC6305	K35
RHME21000KST175H6HF KC6005	K36
RHME21000KST175H6HF KC6305	K36
RHME21000KST175H6SF KC6005	K35
RHME21000KST175H6SF KC6305	K35
RHME22000KST175H6HF KC6005	K36
RHME22000KST175H6HF KC6305	K36
RHME22000KST175H6SF KC6005	K35
RHME22000KST175H6SF KC6305	K35
RHME22225KST175H6HF KC6005	K36
RHME22225KST175H6HF KC6305	K36
RHME22225KST175H6SF KC6005	K35
RHME22225KST175H6SF KC6305	K35
RHME23000KST200H6HF KC6005	K36
RHME23000KST200H6HF KC6305	K36
RHME23000KST200H6SF KC6005	K35
RHME23000KST200H6SF KC6305	K35
RHME23813KST200H6HF KC6005	K36
RHME23813KST200H6HF KC6305	K36
RHME23813KST200H6SF KC6005	K35
RHME23813KST200H6SF KC6305	K35
RHME24000KST200H6HF KC6005	K36
RHME24000KST200H6HF KC6305	K36
RHME24000KST200H6SF KC6005	K35
RHME24000KST200H6SF KC6305	K35
RHME25000KST200H6HF KC6005	K36
RHME25000KST200H6HF KC6305	K36
RHME25000KST200H6SF KC6005	K35
RHME25000KST200H6SF KC6305	K35
RHME25400KST200H6HF KC6005	K36
RHME25400KST200H6HF KC6305	K36
RHME25400KST200H6SF KC6005	K35
RHME25400KST200H6SF KC6305	K35
RHME26000KST200H6HF KC6005	K36
RHME26000KST200H6HF KC6305	K36
RHME26000KST200H6SF KC6005	K35
RHME26000KST200H6SF KC6305	K35
RHME27000KST200H6HF KC6005	K36
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RHME28000KST250H6HF KC6305	K36
RHME28000KST250H6SF KC6005	K35
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RHME32000KST250H6HF KC6005	K36
RHME32000KST250H6HF KC6305	K36
RHME32000KST250H6SF KC6005	K35
RHME32000KST250H6SF KC6305	K35
RHME34000KST300H6HF KC6005	K36
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RHME38000KST350H6SF KC6005	K35
RHME38000KST350H6SF KC6305	K35
RHME40000KST350H6HF KC6005	K36
RHME40000KST350H6HF KC6305	K36
RHME40000KST350H6SF KC6005	K35
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RHME42000KST350H6HF KC6005	K36
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RHME42000KST350H6SF KC6305	K35
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RHR42000KST350H7HF KCU05	K30
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RIQ06E1300 KC6005	K58
RIQ06E1300 KC6105	K58
RIQ06E1300 KC6305	K58
RIQ06E1306 KC6005	K58
RIQ06E1306 KC6105	K58
RIQ06E1306 KC6305	K58
RIQ06E1312 KC6005	K58
RIQ06E1312 KC6105	K58
RIQ06E1312 KC6305	K58
RIQ06EDR00 KC6005	K59
RIQ06EDR00 KC6105	K59
RIQ06EDR00 KC6305	K59
RIQ06EDR06 KC6005	K59
RIQ06EDR06 KC6105	K59
RIQ06EDR06 KC6305	K59
RIQ06EDR06 KD1415	K59
RIQ06EDR12 KC6005	K59
RIQ06EDR12 KC6105	K59
RIQ06EDR12 KC6305	K59
RIQ06EGR00 KC6005	K59
RIQ06EGR00 KC6105	K59
RIQ06EGR00 KC6305	K59
RIQ06EGR06 KC6005	K59
RIQ06EGR06 KC6105	K59
RIQ06EGR06 KC6305	K59
RIQ06EGR06 KD1415	K59
RIQ06EGR12 KC6005	K59
RIQ06EGR12 KC6105	K59
RIQ06EGR12 KC6305	K59
RIQ06R0200 KD1415	K57
RIQ06R0400FB KT6225	K58
RIQ06R0400S KB1610	K57
RIQ06R0500FT KT6315	K58
RIQ07C4500S KBHK10	K59
RIQ07C4500S KBHK15	K59
RIQ08C4500S KBHK10	K59
RIQ08C4500S KBHK15	K59
RIQ09C4500S KBHK10	K59
RIQ09C4500S KBHK15	K59
RIQ09E1300 KC6005	K58
RIQ09E1300 KC6105	K58
RIQ09E1300 KC6305	K58
RIQ09E1306 KC6005	K58
RIQ09E1306 KC6105	K58
RIQ09E1306 KC6305	K58
RIQ09E1312 KC6005	K58
RIQ09E1312 KC6105	K58
RIQ09E1312 KC6305	K58
RIQ09EDR00 KC6005	K59
RIQ09EDR00 KC6105	K59
RIQ09EDR00 KC6305	K59
RIQ09EDR06 KC6005	K59
RIQ09EDR06 KC6105	K59
RIQ09EDR06 KC6305	K59
RIQ09EDR06 KD1415	K59
RIQ09EDR12 KC6005	K59
RIQ09EDR12 KC6105	K59
RIQ09EDR12 KC6305	K59
RIQ09EGR00 KC6005	K59
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RIQ09EGR06 KC6005	K59
RIQ09EGR06 KC6105	K59
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RIQ09EGR06 KD1415	K59
RIQ09EGR12 KC6005	K59
RIQ09EGR12 KC6105	K59
RIQ09EGR12 KC6305	K59
RIQ09R0400FB KT6225	K58
RIQ09R0400S KB1610	K57
RIQ09R0506FT KT6315	K58
RIQB6C4500S KBHK10	K59
RIQB6C4500S KBHK15	K59
RIQB7C4500S KBHK10	K59
RIQB7C4500S KBHK15	K59
RIR01E1306 KC6105	K56
RIR01E1312 KC6105	K56
RIR01EGU00 KC6105	K56
RIR02E1312 KC6105	K56
RIR02E1312 KC6305	K56
RIR03E1312 KC6305	K56
RIR04E1312 KC6005	K56
RIR04E1312 KC6105	K56
RIR04EDS06 KD1415	K56
RIR05EGU00 KC6105	K56
RIRT4C4512 KC6005	K57
RKDF0375Y4CQA KCSM15	035
RKDF0500Y4CQB KCSM15	035
RKDF0625Y4CQB KCSM15	035
RKDF0750Y6CQB KCSM15	035
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RMB19000H7SF KT6215	K17
RMB20000H7HF KT6215	K18
RMB20000H7SF KT6215	K17
RMBE14000H6HF KC6005	K20
RMBE14000H6HF KC6305	K20

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
RMBE14000H6SF KC6005	K19
RMBE14000H6SF KC6305	K19
RMBE15000H6HF KC6005	K20
RMBE15000H6HF KC6305	K20
RMBE15000H6SF KC6005	K19
RMBE15000H6SF KC6305	K19
RMBE16000H6HF KC6005	K20
RMBE16000H6HF KC6305	K20
RMBE16000H6SF KC6005	K19
RMBE16000H6SF KC6305	K19
RMBE17000H6HF KC6005	K20
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RMBE17000H6SF KC6005	K19
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RMBE20000H6SF KC6305	K19
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RMS05000H7HF K605	K9
RMS05000H7HF KC6305	K9
RMS05000H7SF K605	K8
RMS05000H7SF KC6305	K8
RMS05500H7HF K605	K9
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RMS14000H7HF KC6305	K9
RMS14000H7SF K605	K8
RMS14000H7SF KC6305	K8
RNG32S0815C KB5630	B337
RNG32T0820 KY1615	B336
RNG33T0820 KY1615	B336
RNG42T0820 KY1615	B336
RNG43T0420 KYS30	B352
RNG43T0820 KY1615	B336
RNG43T0820 KY3500	B318
RNG43T0820 KYK10	B318
RNG45T0225 KYS30	B352
RNG45T0420 KYS30	B352
RNG45T0425 KYS25	B352
RNG45T0425 KYS30	B352
RNG45T0820 KY1615	B336
RNG45T0820 KY3500	B318
RNG45T4015 KY1615	B336
RNG45T8015 KY1615	B336
RNG65T0420 KYS30	B352
RNG65T0820 KY1615	B336
RNG65T0820 KY3500	B318
RNGA32T0820 KY1615	B336
RNGA43T0820 KY1615	B336
RNGJ10T3M0ELDJ KC725M	V48
RNGJ10T3M0ELDJ KCSM40	V48
RNGJ10T3M0FLDJ KC422M	V48
RNGJ10T3M0SGDJ KC725M	V49
RNGJ10T3M0SGDJ KCSM30	V49
RNGJ1204M0ELD KC522M	V55
RNGJ1204M0ELD KC725M	V55
RNGJ1204M0ELD KCPK30	V55
RNGJ1204M0ELDJ KCSM30	V55
RNGJ1204M0ENLDJX KC522M	V63
RNGJ1204M0FLDJ KC422M	V55
RNGJ1204M0SGD KC522M	V55
RNGJ1204M0SGD KC725M	V55
RNGJ1204M0SGD KCPK30	V55
RNGJ1204M0SGDJ KCSM40	V55
RNGJ1204M0SHD KC725M	V56
RNGJ1204M0SHD KCPK30	V56
RNGJ1204M0SNGDJX KC725M	V63
RNGJ1605M0ELDJ KC522M	V59
RNGJ1605M0ELDJ KC725M	V59
RNGN33S0820 KBK45	B304
RNGN43EGN KYS30	V150
RNGN43EGN KYSP30	V150
RNGN43S0820 KBK45	B304
RNGN43TGN KYS30	V150
RNGN43TGN KYSP30	V150
RNGX43S0820 KBK45	B307
RNM32S0820 KB1340	B305
RNM42S0820 KB1340	B305
RNM43S0820 KB1340	B305
RNMA43 K68	B97
RNMA54 K68	B97
RNMG32RN KCP25	B97
RNMG32RN KCP25B	B97
RNMG43RN KC5010	B97
RNMG43RN KCP10	B97
RNMG43RN KCP10B	B97
RNMG43RN KCP25B	B97
RNMG43RN KCP30	B97
RNMG43RN KCU10	B97
RNMG43UN KCK15B	B97
RNMG43UN KCK20	B97
RNMG54RN KCP25B	B97
RNMG54RN KCP30	B97
RNMG64 K313	B97
RNMG64 KCP25	B97
RNMG64 KCP40	B97
RNMG64RN KC5010	B97
RNMG64RN KCP25	B97
RNMG64RN KCP25B	B97
RNMG64RN KCP40B	B97
RNMG64RN KCU10	B97
RNMG86RN KCP10	B97
RNMG86RN KCP25	B97
RNPJ10T3M0SGD KC522M	V49
RNPJ10T3M0SGD KCPK30	V49
RNPJ10T3M0SGD KCPM40	V49
RNPJ10T3M0SHD KC725M	V49
RNPJ10T3M0SHD KCK15	V49
RNPJ10T3M0SHD KCPK30	V49
RNPJ10T3M0SHD KCPM40	V49
RNPJ1204M0SGD KC522M	V56
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RNPJ1605M0SGD KCSM40	V59
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RNPJ1605M0SHD KCPM40	V59
RPET1204M0ELE KC725M	V71
RPET1204M0ELE KCPK30	V71
RPET1204M0ELEJ KC422M	V71
RPET1204M0ELEJ KC522M	V71
RPET1204M0ELEJ KC725M	V71
RPET1204M0ELEJ KCSM30	V71
RPET1204M0SGE KCPK30	V72
RPET1204M0SGEJ KC522M	V71
RPET1204M0SGEJ KC725M	V71
RPET1204M0SGEJ KCSM30	V71
RPET1605M0ELE KCPK30	V78
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RPET1605M0SGEJ KC522M	V78
RPET1605M0SGEJ KC725M	V78
RPET1605M0SGEJ KCSM30	V78
RPET43SGEJ KC725M	V85
RPEX10T3M0F701X4 GH1	V99
RPEX10T3M0F701X4 SP4019	V99
RPEX1204M0E701X4 X500	V104
RPEX1204M0F701X4 GH1	V104
RPG2150E KYS30	B352, V157
RPG2150E KYSP30	V157
RPG32E KYS30	B352, V157
RPG32E KYSP30	V157
RPG32T0420 KYS30	B352, V157
RPG42 K313	B166
RPG43E KYS30	B352, V157
RPG43E KYSP30	V157
RPG43T0420 KYS30	B352, V157
RPGT23MP KCS10	B245
RPGV23 KC5010	B167
RPGV23MP KCS10	B167
RPGV35 KC5010	B167
RPGV35E KYS25	B352
RPGV35E KYS30	B352
RPGV35MP KCS10	B167
RPGV35T0420 KYS30	B352
RPGV45 KC5010	B167
RPGV45E KYS25	B352
RPGV45E KYS30	B352
RPGV45MP KC5010	B167
RPGV45MP KCS10	B167
RPGV45T0420 KYS30	B352
RPHT10T3M0E421X4 X500	V99
RPHT10T3M0E421X4 X700	V99
RPHT10T3M0E422X4 SP6519	V99
RPHT10T3M0E422X4 X500	V99
RPHT10T3M0E422X4 X700	V99
RPHT10T3M0E422X8 SP6519	V99
RPHT10T3M0E422X8 X500	V99
RPHT10T3M0E422X8 X700	V99
RPHT10T3M0TX4 SP6519	V100
RPHT10T3M0TX4 X500	V100
RPHT1204M0E421X4 X500	V104
RPHT1204M0E421X4 X700	V105
RPHT1204M0E442X4 X500	V105
RPHT1204M0E442X4 X700	V105
RPHT1204M0E442X5 SC6525	V104
RPHT1204M0E442X5 SP6519	V104
RPHT1204M0E442X5 X500	V104
RPHT1204M0E442X5 X700	V104
RPHT1204M0E442X8 SC6525	V105
RPHT1204M0SGDX5 KCM40	V105
RPHT1204M0SGDX8 KCM40	V105
RPHT1204M0TX4 SP6519	V105
RPHT1204M0TX4 X500	V105
RPHT1204M0TX4 X700	V105
RPMT10T3M0E41X4 MP91M	V100
RPMT10T3M0E41X4 SP6519	V100
RPMT10T3M0E41X4 X500	V100
RPMT1204M0E41X4 MP91M	V104
RPMT1204M0E41X4 SP6519	V104
RPMT1204M0E41X4 X500	V104
RPMW10T3M0TX4 X500	V100
RPMW1204M0TX4 MP91M	V105
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RPMW1204M0TX4 X500	V105
RPPT10T3M0E432X5 SC6525	V100
RPPT10T3M0E432X5 SP6519	V100
RPPT10T3M0E432X5 X500	V100
RPPT10T3M0E432X5 X700	V100
RPPT1204M0E432X4 SC6525	V106
RPPT1204M0E432X4 X500	V106
RPPT1204M0E432X4 X700	V106
RPPT1204M0E432X5 SC6525	V106
RPPT1204M0E432X5 SP6519	V106
RPPT1204M0E432X5 X500	V106
RPPT1204M0E432X5 X700	V106
RPPT1204M0E432X8 SP6519	V106
RPPT1204M0E432X8 X500	V106
RPPT1204M0E432X8 X700	V106
RPPT1204M0SGDX KC725M	V72
RPPT1204M0SGDX KCPM40	V72
RPPT1204M0SGDX4 KCM40	V106
RPPT1204M0SGDX5 KCM40	V106
RPPT1204M0SGDX8 KCM40	V106
RPPT1204M0SGP KC725M	V72
RPPT1204M0SGP KCPK30	V72
RPPT1204M0SGP KCPM40	V72
RPPT1605M0SHP KC725M	V79
RPPT1605M0SHP KCPK30	V79
RPPT1605M0SHP KCPM40	V79
RPPT43EGE KC725M	V84
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RPPT43SGE KC725M	V84
RPPT43SGE KCPK30	V84
RQBB0375Y4CN KCPM15	O36
RQBB0500Y4CN KCPM15	O36
RQBB0625Y4CN KCPM15	O36
RQBB0750Y4CN KCPM15	O36
RQBB1000Y4CN KCPM15	O36
RQDB0375Y4CV KCPM15	O34
RQDB0500Y4CV KCPM15	O34
RQDB0625Y4CV KCPM15	O34
RQDB0750Y4CV KCPM15	O34
RQDB1000Y5CV KCPM15	O34
RS1605	K129
RS1606	K129
RS1608	K129
RS1610	K129
RS1612	K129
S-2165-C	S56
S0612LSEL2	D74
S0612LSER2	D74
S0812LSEL2	D74
S0812LSER2	D74
S1006PKG	E65
S1012LSEL3	D74
S1012LSER3	D74
S111	B165, B172–173, B179–182, B184, B188, B372–382, B390, B393, C184, D28, D38, E40, E48–49
S112	C184, D28
S1212LSEL3	D74
S1212LSER3	D74
S125	B172–173, B179–184, B188, B375–382, B389–390, B393
S1620LSEL3	D74
S1620LSEL4	D74
S1620LSER3	D74

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
S1620LSER4	D74
S19	B165, B183, B376, B389
S2020LSER3	D74
S2020LSER4	D74
S2043	S39
S2044	S39, U27
S2044CG	T53, T78
S2112	C182, C184–187, C189, C191, C194–195, D25–29, D35, D37–38
S2160	V87, V91
S2162C	S17, S20, S24, S45, S50, V70, V77, V88, V141
S2163C	S10, S14, S58, V77, V88, V91, V141
S2164C	T90, V91
S2165C	S10, S14, S58, T17, T53, T78
S2172CG	V54, V58
S2192C	T17
S304	C190, D36–37
S310	C182, C185–187, C191, C193, D25–27, D29, D35–37
S316	B409
S319PKG	B406–407
S321	B409
S322	B406–407
S325	B409
S327	B406–407, B409
S329	B409
S330	B406–407, B409
S337	B406–407, B409
S340	B406–407, B409
S350	B406–407, B409
S352	C182, C187, C191, D26–27, D35
S353	B406–407, B409
S39	C191, C193, D35–37
S411	B285
S412	B407–408, C184, C187, C193, C195, D26, D28, D36, D38, E43, E47, E49
S415	B407–408
S422	B408, C184, C195, D28, D38, T109, V47, V54
S422CG	T53, V54, V70
S424	S10, S14, S45, T7, V38, V70
S425	B408, S122
S432	B408
S435	B408
S4416W	B406
S4420W	B406
S4424W	B406
S4428W	B406
S4432W	B406
S4440W	B406
S4440W48	B406
S445	S5, S10, S14, S17, S20, S32, S45, S50, S56, S58, S64, S67, S121–123, T7, T33, T109, T113, V38, V47, V54
S445CG	S17, S20, T53, T78, T90, V54, V88, V91, V141
S446	S67, S121–122, V58, V70, V77, V83, V149
S446CG	V70, V77
S447	T64
S449	T64
S458	S5, S10, S14, S17, S20, S24, S32, S45, S50, S56, S58, S64, S67, S121–123, T7, T33, T113, U18, U29, V38, V54, V58
S458CG	S17, S20, S24, T90, V54, V88, V141
S459	V70, V77, V83, V149
S459CG	T90, V70
S464	T64
S467	T7, U27, U37, V54, V58
S518	E44–46
S524	E41–42, E44–46
S532	E40, E48–49
S625	E41, E45
S959	E41–47, E49
S965	D29
SALS25	S104
SALS30	S104
SALS40	S104
SALS50	S104
SALS6150	S104
SB3230	T131
SB3232	T131
SB3413	T128
SB3621	T128
SCACL062D	B193
SCACL083D	B193
SCACL103B	B193
SCACR052D	B193
SCACR062D	B193
SCACR083D	B193
SCACR103B	B193
SCAPL052D	B209
SCAPL083D	B209
SCAPR052D	B209
SCAPR062D	B209
SCAPR083D	B209
SCFCL082	B193
SCFCR082	B193
SCFPL083V	B209
SCFPL08CA06	B217
SCFPR06CA05	B217
SCFPR083V	B209
SCFPR08CA06	B217
SCFPR10CA09	B217
SCG332FW KY3500	B320
SCGCL123	B194
SCGCL163	B194
SCGCR062	B194
SCGCR082	B194
SCGCR102	B194
SCGCR103	B194
SCGCR123	B194
SCGCR163	B194
SCGN332S0415WCB KBK45	B309
SCGN332S0415WCC KBK45	B309
SCGPL062	B210
SCGPL083V	B210
SCGPL123B	B210
SCGPR062	B210
SCGPR083V	B210
SCGPR08CA06	B218
SCGPR123B	B210
SCKPL08CA06	B219
SCKPR08CA06	B219
SCLCL052	B194
SCLCL062	B194
SCLCL082	B194
SCLCL102	B194
SCLCL103	B194
SCLCL123	B194
SCLCL124B	B194
SCLCL12CA12	B198
SCLCL163	B194
SCLCL164D	B194
SCLCLF062D	B195
SCLCLF082D	B195
SCLCLF083D	B195
SCLCLF103B	B195
SCLCR052	B194
SCLCR062	B194
SCLCR082	B194
SCLCR102	B194
SCLCR103	B194
SCLCR123	B194
SCLCR124B	B194
SCLCR12CA12	B198
SCLCR163	B194
SCLCR164D	B194
SCLCR16CA12	B198
SCLCRF062D	B195
SCLCRF082D	B195
SCLCRF083D	B195
SCLCRF103B	B195
SCLCRF523Z	B195
SCLPL062	B210
SCLPL083V	B210
SCLPL08CA06	B220
SCLPL10CA09	B220
SCLPL123B	B210
SCLPLF062D	B211
SCLPLF083D	B211
SCLPR062	B210
SCLPR06CA05	B220
SCLPR083V	B210
SCLPR08CA06	B220
SCLPR10CA09	B220
SCLPR123B	B210
SCLPRF062D	B211
SCLPRF083D	B211
SCMCN062	B195
SCMCN082	B195
SCMCN083	B195
SCMCN103	B195
SCMCN123	B195
SCMCN163	B195
SCMPN062	B211
SCMPN083V	B211
SCMPN123B	B211
SCMT325111 KT315	B246
SCMT3251FP KCM25	B246
SCMT3251FP KCP10	B246
SCMT3251FP KCP25	B246
SCMT3251FP KCU10	B246
SCMT3251FP KCU25	B246
SCMT3251LF KC5010	B246
SCMT3251LF KC5025	B246
SCMT3251LF KCK05	B246
SCMT3251LF KCK15B	B246
SCMT3251LF KCK20	B246
SCMT3251LF KCM25	B246
SCMT3251LF KCP10	B246
SCMT3251LF KCP10B	B246
SCMT3251LF KCP25	B246
SCMT3251LF KCP25B	B246
SCMT3251LF KCP30	B246
SCMT3251LF KT315	B246
SCMT3251MP KCK20	B247
SCMT3251MP KCM15	B247
SCMT3251MP KCM25	B247
SCMT3251MP KCP25	B247
SCMT3251MP KCU10	B247
SCMT325211 KT315	B246
SCMT3252FP KCK20	B246
SCMT3252FP KCM15	B246
SCMT3252FP KCP10	B246
SCMT3252FP KCP25	B246
SCMT3252FP KCP25B	B246
SCMT3252FP KCU10	B246
SCMT3252FP KCU25	B246
SCMT3252FP KTP10	B246
SCMT3252LF KC5010	B246
SCMT3252LF KC5025	B246
SCMT3252LF KCK05	B246
SCMT3252LF KCK05B	B246
SCMT3252LF KCK15	B246
SCMT3252LF KCK15B	B246
SCMT3252LF KCK20	B246
SCMT3252LF KCK20B	B246
SCMT3252LF KCM25	B246
SCMT3252LF KCP10	B246
SCMT3252LF KCP10B	B246
SCMT3252LF KCP25	B246
SCMT3252LF KCP25B	B246
SCMT3252LF KCP30	B246
SCMT3252MF KCK15	B247
SCMT3252MF KCK15B	B247
SCMT3252MF KCK20	B247
SCMT3252MF KCK20B	B247
SCMT3252MF KCM25	B247
SCMT3252MF KCM25B	B247
SCMT3252MF KCP10	B247
SCMT3252MF KCP10B	B247
SCMT3252MF KCP25	B247
SCMT3252MF KCP25B	B247
SCMT3252MP KCK20B	B247
SCMT3252MP KCM15	B247
SCMT3252MP KCM25	B247
SCMT3252MP KCM25B	B247
SCMT3252MP KCP10	B247
SCMT3252MP KCP25	B247
SCMT3252MP KCP25B	B247
SCMT3252MP KCU10	B247
SCMT3252UF KC5010	B247
SCMT3252UF KCP05	B247
SCMT3252UF KCP10	B247
SCMT3253MF KCP25B	B247
SCMT43111 KT315	B246
SCMT431FP KCP25	B246
SCMT431FP KCU10	B246
SCMT431LF KC5010	B246
SCMT431LF KCM25B	B246
SCMT431LF KCP10	B246
SCMT431LF KCP25	B246
SCMT431LF KCP30	B246
SCMT431MP KCM25	B247
SCMT431MP KCU10	B247
SCMT43211 KT315	B246
SCMT432FP KCM25	B246
SCMT432FP KCP25B	B246
SCMT432FP KCU10	B246
SCMT432LF KC5010	B246
SCMT432LF KC5025	B246
SCMT432LF KCK05	B246
SCMT432LF KCK15	B246
SCMT432LF KCK15B	B246
SCMT432LF KCK20	B246
SCMT432LF KCK20B	B246
SCMT432LF KCM15	B246
SCMT432LF KCM25	B246
SCMT432LF KCM25B	B246
SCMT432LF KCP10B	B246
SCMT432LF KCP25	B246
SCMT432LF KCP25B	B246
SCMT432LF KCP30	B246
SCMT432MF KCK15	B247
SCMT432MF KCK15B	B247
SCMT432MF KCK20	B247
SCMT432MF KCK20B	B247
SCMT432MF KCM15	B247
SCMT432MF KCM25	B247
SCMT432MF KCM25B	B247
SCMT432MF KCM35	B247
SCMT432MF KCP10	B247
SCMT432MF KCP25	B247
SCMT432MF KCP25B	B247
SCMT432MF KCP30	B247
SCMT432MP KCK20	B247
SCMT432MP KCK20B	B247
SCMT432MP KCM25	B247
SCMT432MP KCM25B	B247
SCMT432MP KCP10	B247
SCMT432MP KCP25	B247
SCMT432MP KCU10	B247
SCMT433FP KCP25	B246
SCMT433FP KCU10	B246
SCMT433LF KC5010	B246
SCMT433LF KCK20	B246
SCMT433LF KCP10B	B246
SCMT433LF KCP25B	B246
SCMT433MF KCK15	B247
SCMT433MF KCK15B	B247
SCMT433MF KCK20	B247
SCMT433MF KCK20B	B247
SCMT433MF KCP10	B247
SCMT433MF KCP25	B247
SCMT433MF KCP25B	B247
SCMT433MP KCM25	B247
SCMT433MP KCP25	B247
SCMW3251 KCK20	B248
SCMW3252 KCK20	B248
SCMW3252 KCK20B	B248
SCMW432 KCK20	B248
SCMW432 KCK20B	B248
SCMW433 KCK20	B248
SCMW433 KCK20B	B248
SCRCL083	B196
SCRCR083	B196
SCRCR103	B196
SCRPL062	B212
SCRPL083V	B212
SCRPR062	B212
SCRPR083V	B212
SCRPR08CA06	B221
SCSPL06CA05	B222
SCSPL08CA06	B222
SCSPR06CA05	B222
SCSPR08CA06	B222

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
SCTPL08CA06	B223
SCTPR06CA05	B223
SCTPR08CA06	B223
SCW5E	C58
SCW8E	C58
SDACL062D	B227
SDACL082D	B227
SDACL083D	B227
SDACL103B	B227
SDACR062D	B227
SDACR082D	B227
SDACR083D	B227
SDACR103B	B227
SDB115RBHT12F	K126
SDB115RBHT16LF	K126
SDB24RBHT06F	K126
SDB30RBHT06F	K126
SDB40RBHT09F	K126
SDB50RBHT09F	K126
SDB66RBHT12F	K126
SDB66RBHT12LF	K126
SDB87RBHT12F	K126
SDB87RBHT16LF	K126
SDCT4316ENLD2 KC725M	T115, T122, U38
SDCT4316ENLD2 KCSM40	T115, T122, U38
SDCT431PDEL8LD2 KC725M	T115, T122, U38
SDCT431PDER8LD2 KC725M	T115, T122, U38
SDCT431PDFL8LE KC410M	T114, T121, U38, V143
SDCT431PDFR8LE KC410M	T114, T121, U38, V143
SDCT433PDEL8LD2 KC725M	T115, T122, U38
SDCT433PDER8LD2 KC725M	T115, T122, U38
SDCT433PDER8LD2 KCSM40	T115, T122
SDCT433PDFL8LE KC410M	T114, T121, U38, V143
SDCT433PDFR8LE KC410M	T114, T121, U38, V143
SDCT434ENLD2 KC725M	T115, T122, U38
SDCT434ENLD2 KCSM40	T115, T122, U38
SDCT434FNLE KC410M	T114, T121, U38, V143
SDCT435ENLD2 KC725M	T115, T122, U38
SDCT435FNLE KC410M	T114, T121, U38, V143
SDCT436ENLD2 KC725M	T115, T122, U38
SDCT436FNLE KC410M	T114, T121, U38, V143
SDCT438ENLD2 KC522M	T115, T122, U38
SDCT438ENLD2 KC725M	T115, T122, U38
SDCT438ENLD2 KCSM30	T115, T122
SDCT438ENLD2 KCSM40	T115, T122
SDCT438FNLE KC410M	T114, T121, U38, V143
SDCT43PDEL8LD2 KC725M	T115, T122, U38
SDCT43PDER8LD2 KC520M	T115, T122, U38
SDCT43PDER8LD2 KC725M	T115, T122, U38
SDCT43PDER8LD2 KCPM40	T115, T122, U38
SDCT43PDER8LD2 KCSM40	T115, T122, U38
SDCT43PDFL8LE KC410M	T114, T121, U38, V143
SDCT43PDFR8LE KC410M	T114, T121, U38, V143
SDCW433PDSR8GN KY3500	T117, T124
SDCW43EDSR8GN KY3500	T117, T124
SDCW43PDSR8GN KY3500	T117, T124
SDET4312ENGB KC725M	T116, T123, U39
SDET4312ENGB KCSM40	T116, T123, U39
SDET4312SNGB KC725M	T116, T123, U39
SDET4312SNGB KCSM40	T116, T123, U39
SDET4316ENGB KC725M	T116, T123, U39
SDET4316ENGB KCSM40	T116, T123, U39
SDET4316SNGB KC725M	T116, T123, U39
SDET4316SNGB KCPK30	T116, T123, U39
SDET4316SNGB KCSM30	T116, T123, U39
SDET4316SNGB KCSM40	T116, T123, U39
SDET4316SNGB2 KCPK30	T115, T122, U39
SDET433PDEL8GB2 KC520M	T115, T122, U39
SDET433PDEL8GB2 KC725M	T115, T122, U39
SDET433PDEL8GB2 KCK15	T115, T122, U39
SDET433PDENGDZ KC725M	V143
SDET433PDENGDZ KCPK30	V143
SDET433PDENGDZ KCPM40	V143
SDET433PDER8GB KC725M	T116, T123, U39
SDET433PDER8GB KCPM40	T116, T123, U39
SDET433PDER8GB KCSM40	T116, T123, U39
SDET433PDER8GB2 KC520M	T115, T122, U39
SDET433PDER8GB2 KC725M	T115, T122, U39
SDET433PDER8GB2 KCK15	T115, T122, U39
SDET433PDER8GB2 KCPK30	T115, T122, U39
SDET433PDER8GB2 KCPM40	T115, T122, U39
SDET433PDSNGDZ KC522M	V143
SDET433PDSNGDZ KC725M	V143
SDET433PDSNGDZ KCPK30	V143
SDET433PDSNGDZ KCPM40	V143
SDET433PDSR8GB KC725M	T116, T123, U39
SDET433PDSR8GB KCSM40	T116, T123, U39
SDET434ENGB KCSM40	T116, T123, U39
SDET434SNGB KC725M	T116, T123, U39
SDET434SNGB KCSM40	T116, T123, U39
SDET434SNGB2 KC520M	T115, T122, U39
SDET434SNGB2 KC725M	T115, T122, U39
SDET434SNGB2 KCK15	T115, T122, U39
SDET434SNGB2 KCPK30	T115, T122, U39
SDET435SNGB2 KC520M	T115, T122, U39
SDET435SNGB2 KC725M	T115, T122, U39
SDET435SNGB2 KCK15	T115, T122, U39
SDET435SNGB2 KCPK30	T115, T122, U39
SDET435SNGB2 KCPM40	T115, T122, U39
SDET436ENGB KC725M	T116, T123, U39
SDET436ENGB KCSM40	T116, T123, U39
SDET436SNGB KC725M	T116, T123, U39
SDET436SNGB KCSM40	T116, T123, U39
SDET436SNGB2 KC725M	T115, T122, U39
SDET436SNGB2 KCK15	T115, T122, U39
SDET436SNGB2 KCPK30	T115, T122, U39
SDET438ENGB KC725M	T116, T123, U39
SDET438ENGB KCSM40	T116, T123, U39
SDET438SNGB KCSM40	T116, T123, U39
SDET438SNGB2 KC520M	T115, T122, U39
SDET438SNGB2 KC725M	T115, T122, U39
SDET438SNGB2 KCK15	T115, T122, U39
SDET438SNGB2 KCPK30	T115, T122, U39
SDET438XENGB2 KC725M	T115, T122, U39
SDET43PDEL8GB2 KC520M	T115, T122, U39
SDET43PDEL8GB2 KC725M	T115, T122, U39
SDET43PDEL8GB2 KCK15	T115, T122, U39
SDET43PDEL8GB2 KCPK30	T115, T122, U39
SDET43PDER8GB KC520M	T116, T123, U39
SDET43PDER8GB KCSM40	T116, T123, U39
SDET43PDER8GB2 KC520M	T115, T122, U39
SDET43PDER8GB2 KC725M	T115, T122, U39
SDET43PDER8GB2 KCK15	T115, T122, U39
SDET43PDER8GB2 KCPK30	T115, T122, U39
SDET43PDER8GB2 KCPM40	T115, T122, U39
SDET43PDER8GB2 KCSM40	T115, T122, U39
SDET43PDSL8GB2 KC725M	T115, T122, U39
SDET43PDSL8GB2 KCPK30	T115, T122, U39
SDET43PDSR8GB KC725M	T116, T123, U39
SDET43PDSR8GB KCPK30	T116, T123, U39
SDET43PDSR8GB KCPM40	T116, T123, U39
SDET43PDSR8GB KCSM30	T116, T123, U39
SDET43PDSR8GB KCSM40	T116, T123, U39
SDET43PDSR8GB2 KC520M	T115, T122, U39
SDET43PDSR8GB2 KC725M	T115, T122, U39
SDET43PDSR8GB2 KCK15	T115, T122, U39
SDET43PDSR8GB2 KCPK30	T115, T122, U39
SDET43PDSR8GB2 KCPM40	T115, T122, U39
SDHT09T308EN422 KCSM40	T129
SDHT09T308EN422 SP6519	T129
SDHT09T308EN422 X500	T129
SDHT09T308EN423 KCSM40	T129
SDHT09T308EN423 SP6519	T129
SDHT09T308EN423 X500	T129
SDHT09T3AEEN422 SP6519	T129
SDHT120412EN422 KCSM40	T132
SDHT120412EN422 SP6519	T132
SDHT120412EN422 X500	T132
SDHT120412EN423 KCSM40	T132
SDHT120412EN423 SP6519	T132
SDHT120412EN423 X500	T132
SDJCL062	B228
SDJCL082	B228
SDJCL083	B228
SDJCL102	B228
SDJCL103	B228
SDJCL123	B228
SDJCL163	B228
SDJCLF062D	B228
SDJCLF082D	B228
SDJCLF083D	B228
SDJCLF103B	B228
SDJCR062	B228
SDJCR082	B228
SDJCR083	B228
SDJCR102	B228
SDJCR103	B228
SDJCR123	B228
SDJCR163	B228
SDJCRF062D	B228
SDJCRF082D	B228
SDJCRF083D	B228
SDJCRF103B	B228
SDJPL10CA07	B236
SDJPR10CA07	B236
SDMT060304EGG KC730M	U4
SDMT060304EGG KC735M	U4
SDMT080308EGG KC505M	U4
SDMT080308EGG KC730M	U4
SDMT080308EGG KC735M	U4
SDMT09T308EN41 KCSM40	T130
SDMT09T308EN41 MP91M	T130
SDMT09T308EN41 SP6519	T130
SDMT09T308EN41 X500	T130
SDMT120408EGG KC505M	U4
SDMT120408EGG KC730M	U4
SDMT120408EGG KC735M	U4
SDMT120412EN41 KCSM40	T133
SDMT120412EN41 MP91M	T133
SDMT120412EN41 SP6519	T133
SDMT120412EN41 X500	T133
SDMW09T308TN KCSM40	T130
SDMW120412TN KCSM40	T133
SDMW120412TN SP6519	T133
SDPCN062D	B229
SDPCN082D	B229
SDPCN083D	B229
SDPCN103B	B229
SDPT433PDENHPZ KC725M	V143
SDPT433PDENHPZ KCPK30	V143
SDPT433PDENHPZ KCPM40	V143
SDPT433PDSNHPZ KC725M	V143
SDPT433PDSNHPZ KCPK30	V143
SDPT433PDSNHPZ KCPM40	V143
SDPT43PDER8GB2 KC725M	T116, T123, U39
SDPT43PDER8GB2 KCK15	T116, T123, U39
SDPT43PDER8GB2 KCPK30	T116, T123, U39
SDPT43PDER8GB2 KCPM40	T116, T123, U39
SDPT43PDER8GB2 KCSM40	T116, T123, U39
SDPT43PDSR8GB2 KC725M	T116, T123, U39
SDPT43PDSR8GB2 KCK15	T116, T123, U39
SDPT43PDSR8GB2 KCPK30	T116, T123, U39
SDPT43PDSR8GB2 KCPM40	T116, T123, U39
SDPT43PDSR8GB2 KCSM40	T116, T123, U39
SDSW66	V91
SDUCL082	B229
SDUCL083	B229
SDUCL103	B229
SDUCR082	B229
SDUCR083	B229
SDUCR103	B229
SDUPR10CA07	B237
SECT443AEEN7LD2 KC725M	S40
SECT443AEFN7LE KC410M	S40
SECW443AEEN22GNW KC725M	S41
SECW443AESN7GN KY3500	S41
SEF040060RSS075M	I26
SEF060080RSS075M	I26
SEF080100RSS100M	I26
SEF100120RSS125M	I26
SEF120140RSS125M	I26
SEF140160RSS125M	I26
SEF156187RSS075	I25
SEF160180RSS125M	I26
SEF180200RSS125M	I26
SEF218250RSS075	I25
SEF265312RSS075	I25
SEF328375RSS075	I25
SEF390437RSS100	I25
SEF453500RSS100	I25
SEF500562RSS100	I25
SEF562625RSS125	I25
SEF625687RSS125	I25
SEF687750RSS125	I25
SEF750812RSS125	I25
SEF812875RSS150	I25
SEF875937RSS150	I25
SEF9371010RSS150	I25
SEKT443AEEN7GP2 KC520M	S40
SEKT443AEEN7GP2 KC725M	S40
SEKT443AEEN7GP2 KCK15	S40
SEKT443AEEN7GP2 KCPK30	S40
SEKT443AEEN7GP2 KCPM40	S40
SEKT443AESN7GP2 KC520M	S40
SEKT443AESN7GP2 KC725M	S40
SEKT443AESN7GP2 KCK15	S40
SEKT443AESN7GP2 KCPK30	S40
SEKT443AESN7GP2 KCPM40	S40
SEPT443AEEN7GB2 KC725M	S41
SEPT443AEEN7GB2 KCK15	S41
SEPT443AEEN7GB2 KCPK30	S41
SEPT443AESN7GB2 KC725M	S41
SEPT443AESN7GB2 KCK15	S41
SEPT443AESN7GB2 KCPK30	S41
SF075FBHS24	K138
SF075RBHT24	K123
SF100FBH01660	K129
SF100FBHS31	K138
SF100FBHS51	K138
SF100RBHT30	K123
SF100RBHT50	K123
SF125FBHS40	K138
SF125FBHS67	K138
SF125RBHT40	K123
SF125RBHT66	K123
SF150FBH01660	K129
SF150FBHS87	K138
SF150RBHT87	K123
SF200FBHS116	K138
SF200RBHT115	K123
SF300M1LA1RA	K68
SF300M1RS	K68
SF750M1LA1RA	K68
SF750M1RS	K68
SFCPS	K70
SFCR20	K71
SFCR20S	K71
SFCRHSK3263	K71
SFCRHSK63100	K71
SFEBCH	K70
SFEBS	K70
SFMGS	K71
SFRHEC100S3150 KC625M	P131
SFRHEC100S3225 K600	P131
SFRHEC100S3225 KC625M	P131
SFRHEC250S3075 K600	P131
SFRHEC312S3075 KC625M	P131
SFRHEC375S3088 K600	P131
SFRHEC375S3088 KC625M	P131
SFRHEC500S3100 K600	P131
SFRHEC500S3100 KC625M	P131
SFRHEC500S3200 K600	P131
SFRHEC500S3200 KC625M	P131
SFRHEC625S3225 K600	P131
SFRHEC625S3225 KC625M	P131
SFRHEC750S3150 K600	P131
SFRHEC750S3150 KC625M	P131
SFRHEC750S3225 K600	P131
SFRHEC750S3225 KC625M	P131
SFSB450	K70
SFSB900	K70
SFSLLA	K69
SFSLLS	K69
SFSLRA	K69
SFSLRS	K69
SFSLSS	K69
SFVB	K69
SIF100HC12090M	K51
SIF100HC20100M	K51
SIF100HC25100M	K51
SIF70HC12090M	K51
SIF70HC20100M	K51
SIF80HC12090M	K51
SIF80HC20100M	K51
SIF80HC25100M	K51
SKCP343 K9	B193–196
SKCP453 K9	B194
SKDP343 K9	B227–229

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
SKSN566K K9	B115–117, B119
SKTP343 K9	B259–260
SKVN343 K9	B282
SL344	B170, B172, B179, B181–182, B372–374, B376, B378, B381–382, B393, C184, D28, E41, E45
SM-906 KC720	S94, S98, S100
SM-906LH KC720	S94, S98, S100
SM119 K9	B179, B181–182, B378, B381–382
SM120 K9	B172, B376
SM216 K9	B375
SM218 K9	B373
SM26 K9	B375
SM271 K9	E41, E45
SM272 K9	E41
SM285 K9	E41–42, E44–46
SM286 K9	E41–42, E44–46
SM36 K9	B172–173, B376–378
SM369 K9	B165, B376, B389
SM37 K9	B179–184, B188, B378–382, B389–390, B393
SM396 K9	B372
SM40 K9	B172–173, B376–378
SM41 K9	B179–184, B188, B378–382, B389–390, B393
SM412 K9	E43, E47, E49
SM414 K9	E40, E48–49
SM416 K9	C184, D28
SM417 K9	B210–211
SM419 K9	C184, D28
SM420 K9	C184, D28
SM427 K9	D38
SM432 K9	B372–373
SM434 K9	B374
SM437 K9	B170, B374, B393
SM449 K9	T113
SM45 K9	B373
SM455 K9	S39
SM46 K9	B373
SM47 K9	B374
SM48 K9	B375
SM837 K9	B186, B397
SMRN42B K9	B170, B385
SMRN63B K9	B170, B385
SMRN84B K9	B170, B385
SMYE3 K9	D71–72, D74–75, D77–79
SMYE4 K9	D71–72, D74, D77–78
SMYE5 K9	D78
SMYI3 K9	D71, D74–79
SMYI4 K9	D71, D74–79
SMYI5 K9	D76, D78–79
SN2TPKG	W40, W42–43
SN3TM	W40, W42
SN3TPKG	D74–75, W40–43
SN5TM	W40–43
SN7T	W40
SNG322T0820 KY1615	B337
SNG322T0820 KY3500	B318
SNG432T0220 KY1615	B337
SNG432T0420 KYS30	B353
SNG432T0820 KY1615	B337
SNG432T0820 KY3500	B318
SNG432T0820 KYK25	B318
SNG433T0420 KYS30	B353
SNG433T0820 KY1615	B337
SNG433T0820 KY3500	B318
SNG433T0820 KYK25	B318
SNG434T0420 KYS25	B353
SNG434T0420 KYS30	B353
SNG434T0820 KY1615	B337
SNG434T0820 KY3500	B318
SNG438T0820 KY3500	B318
SNG451T0820 KY1615	B337
SNG452T0820 KY1615	B337
SNG453T0820 KY1615	B337
SNG453T0820 KYK25	B318
SNG454T0420 KYS30	B353
SNG454T0820 KY1615	B337
SNG454T0820 KY3500	B318
SNG455T0820 KY1615	B337
SNG455T4015 KY1615	B337
SNG455T8015 KY1615	B337
SNG554T0820 KY1615	B337
SNG634T0820 KY3500	B318
SNG644E KYS25	B353
SNG644T0420 KYS30	B353
SNG656E KYS30	B353
SNGA432S0415MT KBH10	B337
SNGA432S0525MT KBH10	B337
SNGA432S0525MT KBH20	B337
SNGA432T0820 KY1615	B337
SNGA432T0820 KY3500	B314
SNGA432T0820 KYK10	B314
SNGA432T0820 KYK25	B314
SNGA433S0525MT KBH10	B337
SNGA433S0525MT KBH20	B337
SNGA433T0420 KYS25	B353
SNGA433T0420 KYS30	B353
SNGA433T0820 KY1615	B337
SNGA433T0820 KY3500	B314
SNGA433T0820 KYK25	B314
SNGA434T0820 KY3500	B314
SNGA543T KY3500	B314
SNGA543T0820 KYK25	B314
SNGA544T KY3500	B314
SNGA643T0820 KY3500	B314
SNGN332S0415WCB KBK45	B306
SNGN332S0415WCC KBK45	B306
SNGN432T0820 KBK45	B305
SNGN433S0820 KBK45	B305
SNGN434S0820 KBK45	B305
SNGP431 KC5010	B100
SNGP432 KC5010	B100
SNGX432T0820 KBK45	B308
SNGX433S0820 KBK45	B308
SNGX434S0820 KB1340	B308
SNGX434S0820 KBK45	B308
SNGX453T0420 KYS30	B353
SNGX453T0820 KY1615	B338
SNGX453T0820 KY3500	B318
SNGX453T0820 KYK10	B318
SNGX453T0820 KYK25	B318
SNGX454T0420 KYS30	B353
SNGX454T0820 KY3500	B318
SNGX454T0820 KYK10	B318
SNGX454T0820 KYK25	B318
SNGX554T0820 KY3500	B318
SNGX556T0820 KY3500	B318
SNHJ31252ENLD KC520M	S57
SNHJ31252ENLD KC725M	S57
SNHJ31252ENLD KCK15	S57
SNHJ31252ENLD KCPK30	S57
SNHJ31253ENLD KC725M	S57
SNHJ31253ENLD KCK15	S57
SNHJ442ENLD KC520M	S59
SNHJ442ENLD KC725M	S59
SNHJ442ENLD KCK15	S59
SNHJ442ENLD KCPK30	S59
SNHJ442SNGD KC520M	S59
SNHJ442SNGD KC522M	S59
SNHJ442SNGD KCK15	S59
SNHJ442SNGD KCPK30	S59
SNHJ442SNGD KCPM40	S59
SNHJ442SNGD KCSM40	S59
SNHJ444ENLD KC520M	S59
SNHJ444ENLD KC725M	S59
SNHJ444ENLD KCK15	S59
SNHJ444ENLD KCPK30	S59
SNHX1102PZTNGP K110M	U15
SNHX1102PZTNGP KC725M	U15
SNHX1102PZTNGP KCPK30	U15
SNHX1102PZTNGP KCPM40	U15
SNHX1102T KC725M	U14
SNHX1102T KCPM40	U14
SNHX1103T KC725M	U14
SNHX1103T KCPK30	U14
SNHX1103T KCPM40	U14
SNHX11T3PZFNGE KC510M	U14
SNHX11T3PZTNGP KC725M	U15
SNHX11T3PZTNGP KCPM40	U15
SNHX1203PZFNGE KC510M	U14
SNHX1203PZTNGP K110M	U15
SNHX1203PZTNGP KC725M	U15
SNHX1203PZTNGP KCPK30	U15
SNHX1203PZTNGP KCPM40	U15
SNHX1203T KC725M	U14
SNHX1203T KCPM40	U14
SNHX12045T KC725M	U14
SNHX1204T KC725M	U14
SNHX1205T KC725M	U14
SNHX12L4PZTNGP KCPK30	U15
SNHX12L5PZFNGE K110M	U14
SNHX12L5PZFNGE KC510M	U14
SNHX12L5PZTNGP K110M	U15
SNHX12L5PZTNGP KC725M	U15
SNHX12L5PZTNGP KCPK30	U15
SNM322S0820 KB1340	B306
SNM324S0820 KB1340	B306
SNM424S0820 KB1340	B306
SNM434S0820 KB1340	B306
SNMA432 K68	B100
SNMA432 KCK15B	B100
SNMA432 KCK20	B100
SNMA432 KCK20B	B100
SNMA433 KCK15	B100
SNMA433 KCK15B	B100
SNMA433 KCK20	B100
SNMA433 KCK20B	B100
SNMA433S0820 KB1340	B310
SNMA543 KCK15B	B100
SNMA543 KCK20	B100
SNMA643 K68	B100
SNMA643 KCK20	B100
SNMA644 KCK20	B100
SNMG321FF KC5010	B101
SNMG321FF KCU10	B101
SNMG322FF KC5010	B101
SNMG322FF KCP10	B101
SNMG322FF KCU10	B101
SNMG322FF KT315	B101
SNMG322FN KCK05	B101
SNMG322FN KCK15B	B101
SNMG322FN KCP10	B101
SNMG322MN KCP10	B102
SNMG322MN KCP10B	B102
SNMG322MN KCP25	B102
SNMG322MN KCP25B	B102
SNMG322MN KCP30	B102
SNMG323MN KCP10	B102
SNMG323MN KCP25	B102
SNMG333RN KCP10	B105
SNMG431FN KCK05	B101
SNMG431FN KCP05	B101
SNMG431FN KCP10B	B101
SNMG431FP KCM15	B101
SNMG431FP KCU10	B101
SNMG431MN KCP10B	B102
SNMG431MN KCP25B	B102
SNMG432 K313	B100
SNMG432FF KC5010	B101
SNMG432FN KCP10	B101
SNMG432FN KCP10B	B101
SNMG432FN KT315	B101
SNMG432FP KCM15	B101
SNMG432FP KCM25B	B101
SNMG432FP KCU10	B101
SNMG432FW KCP05	B102
SNMG432FW KCP10	B102
SNMG432MN KCP10	B102
SNMG432MN KCP10B	B102
SNMG432MN KCP25	B102
SNMG432MN KCP25B	B102
SNMG432MN KCP30	B102
SNMG432MN KCP30B	B102
SNMG432MN KCP40	B102
SNMG432MN KCP40B	B102
SNMG432MP KC5010	B102
SNMG432MP KCM15	B102
SNMG432MP KCM15B	B102
SNMG432MP KCM25	B102
SNMG432MP KCM25B	B102
SNMG432MP KCM35B	B102
SNMG432MP KCU10	B102
SNMG432MR KCM25B	B103
SNMG432MR KCP25B	B103
SNMG432MR KCU10	B103
SNMG432MS KC5010	B103
SNMG432MS KC5025	B103
SNMG432MS KCU10	B103
SNMG432MS KCU25	B103
SNMG432MW KCP25	B104
SNMG432RN KCP10	B105
SNMG432RN KCP25	B105
SNMG432RN KCP25B	B105
SNMG432RN KCP30B	B105
SNMG432RN KCP40B	B105
SNMG432RP KC5010	B105
SNMG432RP KC5025	B105
SNMG432RP KCK20	B105
SNMG432RP KCK20B	B105
SNMG432RP KCM25	B105
SNMG432RP KCM35	B105
SNMG432RP KCP05	B105
SNMG432RP KCP10	B105
SNMG432RP KCP25	B105
SNMG432RP KCP25B	B105
SNMG432RP KCU10	B105
SNMG432RP KCU25	B105
SNMG432UN KCK15	B106
SNMG432UN KCK15B	B106
SNMG432UN KCK20	B106
SNMG432UN KCK20B	B106
SNMG432UP KC5010	B106
SNMG432UP KCM35	B106
SNMG433 K68	B100
SNMG433FN KCP10	B101
SNMG433FN KCP25	B101
SNMG433FW KCP10	B102
SNMG433FW KT315	B102
SNMG433MN KCP10	B102
SNMG433MN KCP10B	B102
SNMG433MN KCP25	B102
SNMG433MN KCP25B	B102
SNMG433MN KCP30	B102
SNMG433MN KCP40	B102
SNMG433MP KC5010	B102
SNMG433MP KCM15	B102
SNMG433MP KCM25	B102
SNMG433MP KCM25B	B102
SNMG433MP KCM35	B102
SNMG433MP KCU10	B102
SNMG433MP KCU25	B102
SNMG433MR KCM25	B103
SNMG433MR KCP10B	B103
SNMG433MR KCP25B	B103
SNMG433MR KCU10	B103
SNMG433MS KC5010	B103
SNMG433MS KCU10	B103
SNMG433MS KCU25	B103
SNMG433MW KCP10	B104
SNMG433P KCU10	B104
SNMG433RN KCP10	B105
SNMG433RN KCP10B	B105
SNMG433RN KCP25	B105
SNMG433RN KCP25B	B105
SNMG433RN KCP30B	B105
SNMG433RN KCP40	B105
SNMG433RN KCP40B	B105
SNMG433RN KCPK05	B105
SNMG433RP KC5010	B105
SNMG433RP KC5025	B105
SNMG433RP KCK05	B105
SNMG433RP KCK15	B105
SNMG433RP KCK15B	B105
SNMG433RP KCK20	B105
SNMG433RP KCM25	B105
SNMG433RP KCM25B	B105
SNMG433RP KCP05	B105
SNMG433RP KCP10	B105
SNMG433RP KCP10B	B105
SNMG433RP KCP25	B105
SNMG433RP KCP25B	B105
SNMG433RP KCP30	B105
SNMG433RP KCP40	B105
SNMG433RP KCU10	B105
SNMG433RP KCU25	B105
SNMG433UN KCK05B	B106

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
SNMG433UN KCK15B	B106
SNMG433UN KCK20	B106
SNMG433UN KCK20B	B106
SNMG433UP KCM25	B106
SNMG433UP KCM35	B106
SNMG434FN KCP10	B101
SNMG434MG KCP25B	B103
SNMG434MN KCP25	B102
SNMG434MN KCP25B	B102
SNMG434MP KCM25B	B102
SNMG434MP KCM35	B102
SNMG434RN KCP10B	B105
SNMG434RN KCP25	B105
SNMG434RN KCP25B	B105
SNMG434RN KCP40	B105
SNMG434RN KCP40B	B105
SNMG434RP KC5025	B105
SNMG434RP KCP10	B105
SNMG434RP KCU10	B105
SNMG434UN KCK20	B106
SNMG434UN KCK20B	B106
SNMG542MP KCM25B	B102
SNMG542MS KCU25	B103
SNMG542RN KCP10	B105
SNMG542RN KCP25	B105
SNMG543MN KCP10B	B102
SNMG543MN KCP25	B102
SNMG543MN KCP25B	B102
SNMG543MP KC5010	B102
SNMG543MP KCM15	B102
SNMG543MP KCM25	B102
SNMG543MP KCM25B	B102
SNMG543MP KCU10	B102
SNMG543MR KCM15B	B103
SNMG543MR KCPK05	B103
SNMG543MS KCU25	B103
SNMG543RN KCP10B	B105
SNMG543RN KCP25	B105
SNMG543RN KCP25B	B105
SNMG543RN KCP40	B105
SNMG543RN KCP40B	B105
SNMG543RN KCPK05	B105
SNMG543RP KCM35	B105
SNMG543RP KCP10B	B105
SNMG543RP KCP25	B105
SNMG543RP KCP25B	B105
SNMG543RP KCP40	B105
SNMG543RP KCU10	B105
SNMG543RP KCU25	B105
SNMG543UN KCK15B	B106
SNMG543UN KCK20	B106
SNMG543UP KCM15	B106
SNMG543UP KCM25	B106
SNMG543UP KCU10	B106
SNMG544MN KCP25B	B102
SNMG544MP KCM25	B102
SNMG544MP KCU10	B102
SNMG544RN KCP25	B105
SNMG544RN KCP25B	B105
SNMG544RN KCP30B	B105
SNMG544RN KCPK05	B105
SNMG544RP KCM15B	B105
SNMG544RP KCM25B	B105
SNMG544RP KCP10B	B105
SNMG544RP KCP25	B105
SNMG544RP KCU25	B105
SNMG544UN KCK15	B106
SNMG544UN KCK20	B106
SNMG642RN KCP25B	B105
SNMG642RN KCP30	B105
SNMG643 KCU10	B100
SNMG643MN KCP10	B102
SNMG643MN KCP25B	B102
SNMG643MP KCM15	B102
SNMG643MP KCM25	B102
SNMG643MP KCM25B	B102
SNMG643MP KCM35	B102
SNMG643MS KC5025	B103
SNMG643MS KCU25	B103
SNMG643RN KCP10B	B105
SNMG643RN KCP25	B105
SNMG643RN KCP25B	B105
SNMG643RN KCP30B	B105
SNMG643RN KCP40	B105
SNMG643RP KC5010	B105
SNMG643RP KC5025	B105
SNMG643RP KCM25B	B105
SNMG643RP KCM35	B105
SNMG643RP KCP10	B105
SNMG643RP KCP25B	B105
SNMG643RP KCP40B	B105
SNMG643RP KCU10	B105
SNMG643RP KCU25	B105
SNMG643UN KCK15	B106
SNMG643UN KCK20	B106
SNMG644 KCP40	B100
SNMG644MN KCP25	B102
SNMG644MP KC5010	B102
SNMG644RN KCP10	B105
SNMG644RN KCP25	B105
SNMG644RN KCP25B	B105
SNMG644RN KCP30B	B105
SNMG644RN KCP40B	B105
SNMG644RN KCPK05	B105
SNMG644RP KC5025	B105
SNMG644RP KCK20	B105
SNMG644RP KCM25	B105
SNMG644RP KCM25B	B105
SNMG644RP KCP10	B105
SNMG644RP KCP40	B105
SNMG644RP KCPK05	B105
SNMG644RP KCU10	B105
SNMG644RP KCU25	B105
SNMG644UN KCK20	B106
SNMG646RN KCP25	B105
SNMG646RN KCP30	B105
SNMG866 KCP25	B100
SNMG866 KCP40	B100
SNMG866 KCU10	B100
SNMG866RM KC5010	B104
SNMG866RM KCP25	B104
SNMG866RM KCU10	B104
SNMG866RN KCP40B	B105
SNMM432RM KCP25	B107
SNMM432RM KCM35	B107
SNMM432RP KCP25	B107
SNMM433RM KCP25	B107
SNMM433RP KCM25	B107
SNMM433RP KCP25	B107
SNMM543RM KCP10	B107
SNMM543RM KCP25	B107
SNMM543RM KCP25B	B107
SNMM543RP KCP25	B107
SNMM544RM KCP10	B107
SNMM544RM KCP25	B107
SNMM544RM KCP25B	B107
SNMM544RP KCM25	B107
SNMM544RP KCP10	B107
SNMM643RH KCP25B	B106
SNMM643RH KCP30	B106
SNMM643RM KCP10	B107
SNMM643RM KCP25	B107
SNMM643RM KCP25B	B107
SNMM643RM KCP40	B107
SNMM643RP KCP25	B107
SNMM643RP KCP40	B107
SNMM644RH KCP10	B106
SNMM644RH KCP25	B106
SNMM644RH KCP25B	B106
SNMM644RH KCP30	B106
SNMM644RH KCP40	B106
SNMM644RM KCP10	B107
SNMM644RM KCP25	B107
SNMM644RM KCP25B	B107
SNMM644RM KCP40B	B107
SNMM644RP KCM25	B107
SNMM644RP KCM25B	B107
SNMM644RP KCP40	B107
SNMM646RH KCP10	B106
SNMM646RH KCP25	B106
SNMM646RH KCP25B	B106
SNMM646RH KCP30	B106
SNMM646RH KCP40B	B106
SNMM646RM KCP25	B107
SNMM646RM KCP25B	B107
SNMM646RM KCP40B	B107
SNMM646RP KCM25	B107
SNMM646RP KCP25	B107
SNMM646RP KCP25B	B107
SNMM646RW KCP25B	B107
SNMM856RH KCP10	B106
SNMM856RH KCP10B	B106
SNMM856RH KCP25	B106
SNMM856RH KCP25B	B106
SNMM856RH KCP30	B106
SNMM856RH KCP40	B106
SNMM856RH KCP40B	B106
SNMM856RM KCP10	B107
SNMM856RM KCP25	B107
SNMM856RP KCM25	B107
SNMM856RP KCP25	B107
SNMM856RP KCP40	B107
SNMM856RW KCP25B	B107
SNMM866RH KCP10	B106
SNMM866RH KCP10B	B106
SNMM866RH KCP25	B106
SNMM866RH KCP25B	B106
SNMM866RH KCP30	B106
SNMM866RH KCP40	B106
SNMM866RH KCP40B	B106
SNMM866RM KCP25	B107
SNMM866RM KCP30	B107
SNMM866RM KCP40	B107
SNMM866RP KCM25	B107
SNMM866RP KCM25B	B107
SNMM866RP KCP25	B107
SNMP432K KCP25	B108
SNMP643 K313	B108
SNMP643 K68	B108
SNMS432 K68	B108
SNMS643 K68	B108
SNMS643 KC5410	B108
SNMX190640S-WT5 KCP25B	E59
SNMX453T0820 KY3500	B319
SNMX454T0820 KY3500	B319
SNMX554T0820 KY3500	B319
SNPJ31252SNGD KC520M	S57
SNPJ31252SNGD KCK15	S57
SNPJ31252SNGD KCPK30	S57
SNPJ31252SNGD KCPM40	S57
SNPJ31253SNGD KCK15	S57
SNPJ31253SNGD KCPM40	S57
SNPJ442SNGD KC520M	S60
SNPJ442SNGD KCK15	S60
SNPJ442SNGD KCPK30	S60
SNPJ442SNGD KCPM40	S60
SNPJ444SNGD KCK15	S60
SNPJ444SNGD KCPK30	S60
SNPJ444SNGD KCPM40	S60
SNXF433AMSN KY3500	S90
SNXF433ENLD KC514M	S89
SNXF433ENLD KC524M	S89
SNXF433ENLD KCK15	S89
SNXF433ENLD KCK20	S89
SNXF433ENLD KCPK30	S89
SNXF433SNGP KC514M	S89
SNXF433SNGP KC524M	S89
SNXF433SNGP KCK15	S89
SNXF433SNGP KCK20	S89
SNXF433SNGP KCPK30	S89
SNXF433SNHE KC524M	S89
SNXF433SNHE KCK15	S89
SNXF433SNHE KCK20	S89
SNXF433SNHE KCPK30	S89
SNXF43ZNAMSN KY3500	S90
SNXF43ZNENLD KC514M	S89
SNXF43ZNENLD KC524M	S89
SNXF43ZNENLD KCK15	S89
SNXF43ZNENLD KCK20	S89
SNXF43ZNENLD KCPK30	S89
SNXF43ZNSNGP KC514M	S89
SNXF43ZNSNGP KC524M	S89
SNXF43ZNSNGP KCK15	S89
SNXF43ZNSNGP KCK20	S89
SNXF43ZNSNGP KCPK30	S89
SNXF43ZNSNHE KC514M	S89
SNXF43ZNSNHE KCK15	S89
SNXF43ZNSNHE KCK20	S89
SNXF43ZNSNHE KCPK30	S89
SPCT31251PPEL8LD2 KC725M	T111, U30
SPCT31251PPER8LD2 KC725M	T111, U30
SPCT31251PPFL8LE KC410M	T110, U30
SPCT31251PPFR8LE KC410M	T110, U30
SPCT31253PPEL8LD2 KC725M	T111, U30
SPCT31253PPER8LD2 KC725M	T111, U30
SPCT31253PPFR8LE KC410M	T110, U30
SPCT31254ENLD2 KC725M	T111, U30
SPCT31254ENLD2 KCSM30	T111, U30
SPCT31255ENLD2 KC725M	T111, U30
SPCT31255FNLE KC410M	T110, U30
SPCT3125PPEL8LD2 KC725M	T111, U30
SPCT3125PPER8LD2 KC520M	T111, U30
SPCT3125PPER8LD2 KC725M	T111, U30
SPCT3125PPER8LD2 KCPM40	T111, U30
SPCT3125PPFL8LE KC410M	T110, U30
SPCT3125PPFR8LE KC410M	T110, U30
SPET31251PPEL8GB2 KC725M	T111, U31
SPET31251PPEL8GB2 KCK15	T111, U31
SPET31251PPEL8GB2 KCPK30	T111, U31
SPET31251PPER8GB2 KC725M	T111, U31
SPET31251PPER8GB2 KCK15	T111, U31
SPET31251PPER8GB2 KCPK30	T111, U31
SPET3125PPEL8GB2 KC520M	T111, U31
SPET3125PPEL8GB2 KC725M	T111, U31
SPET3125PPEL8GB2 KCK15	T111, U31
SPET3125PPEL8GB2 KCPK30	T111, U31
SPET3125PPER8GB2 KC520M	T111, U31
SPET3125PPER8GB2 KC725M	T111, U31
SPET3125PPER8GB2 KCK15	T111, U31
SPET3125PPER8GB2 KCPK30	T111, U31
SPET3125PPER8GB2 KCPM40	T111, U31
SPET3125PPSL8GB2 KC725M	T111, U31
SPET3125PPSL8GB2 KCPK30	T111, U31
SPET3125PPSR8GB2 KC520M	T111, U31
SPET3125PPSR8GB2 KC725M	T111, U31
SPET3125PPSR8GB2 KCK15	T111, U31
SPET3125PPSR8GB2 KCPK30	T111, U31
SPG321 K68	B171
SPG321 KC5010	B171
SPG322 K68	B171
SPG322 KC5010	B171
SPG322 KCK15	B171
SPG322T0420 KY1615	B338
SPG421 K68	B171
SPG421 KC5010	B171
SPG421 KCU10	B171
SPG422 K313	B171
SPG422 K68	B171
SPG422 KC5010	B171
SPG422 KCU10	B171
SPG422T0420 KY1615	B338
SPG423 K68	B171
SPG424 KC5010	B171
SPG433 KCU10	B171
SPG632 K68	B171
SPG633 K313	B171
SPG633 KCU10	B171
SPGF322 KC5010	B171
SPGF322 KCU10	B171
SPGF422 KCP25B	B171
SPGT3251LF KC5010	B252
SPGT3251LF KC5025	B252
SPGT3251LF KCU10	B252
SPGT3252LF KC5010	B252
SPGT3252LF KC5025	B252
SPGT3252LF KC5410	B252
SPGT3252LF KCU10	B252
SPGX050204HP KC7140	J103
SPGX050204HP KCU25	J103
SPGX050204HP KCU40	J103
SPGX050204LP KCU40	J104
SPGX050204MD KC7140	J103
SPGX050204MD KCU25	J103
SPGX050204MD KCU40	J103
SPGX060304FP KCPK10	J104
SPGX060304FP KCU25	J104
SPGX060304FP KCU40	J104
SPGX060304LP KCU40	J104

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
SPGX060304MD KC7140	J103
SPGX060304MD KCPK10	J103
SPGX060304MD KCU25	J103
SPGX060304MD KCU40	J103
SPGX060304RHP KC7140	J103
SPGX060304RHP KCU25	J103
SPGX060304RHP KCU40	J103
SPGX070304FP KCPK10	J104
SPGX070304FP KCU25	J104
SPGX070304FP KCU40	J104
SPGX070304MD KC7140	J103
SPGX070304MD KCPK10	J103
SPGX070304MD KCU25	J103
SPGX070304MD KCU40	J103
SPGX070304RHP KC7140	J103
SPGX070304RHP KCU25	J103
SPGX070304RHP KCU40	J103
SPGX070308FP KCPK10	J104
SPGX070308FP KCU25	J104
SPGX070308FP KCU40	J104
SPGX070308HP KCPK10	J103
SPGX070308HP KCU25	J103
SPGX070308HP KCU40	J103
SPGX070308MD KCPK10	J103
SPGX070308MD KCU25	J103
SPGX070308MD KCU40	J103
SPHX060202R20 KC7215	J115
SPHX060202R21 KC7215	J116
SPHX060204R20 KC7140	J115
SPHX060204R20 KCU25	J115
SPHX060204R20 KCU40	J115
SPHX060204R21 KCPK10	J116
SPHX060204R21 KCU25	J116
SPHX060204R21 KCU40	J116
SPHX060204R21 KM1	J116
SPHX060204R22 KM1	J117
SPHX060206R20 KC7215	J115
SPHX060206R21 KC7215	J116
SPHX060208R20 KC7215	J115
SPHX060208R21 KC7215	J116
SPHX070302R20 KC7215	J115
SPHX070304R20 KC7140	J115
SPHX070304R20 KCU25	J115
SPHX070304R20 KCU40	J115
SPHX070304R21 KCPK10	J116
SPHX070304R21 KCU25	J116
SPHX070304R21 KCU40	J116
SPHX070304R21 KM1	J116
SPHX070304R22 KM1	J117
SPHX070306R20 KC7215	J115
SPHX070306R21 KC7215	J116
SPHX070308R20 KC7215	J115
SPHX070308R21 KCPK10	J116
SPHX070308R21 KCU40	J116
SPHX070310R20 KC7215	J115
SPHX070310R21 KC7215	J116
SPHX070312R20 KC7215	J115
SPHX090304R20 KC7140	J115
SPHX090304R20 KC7215	J115
SPHX090304R20 KCU25	J115
SPHX090304R20 KCU40	J115
SPHX090304R21 KCPK10	J116
SPHX090304R21 KCU25	J116
SPHX090304R21 KCU40	J116
SPHX090304R21 KM1	J116
SPHX090304R22 KM1	J117
SPHX090308R20 KCU25	J115
SPHX090308R20 KCU40	J115
SPHX090308R21 KCPK10	J116
SPHX090308R21 KCU25	J116
SPHX090308R21 KCU40	J116
SPHX090310R20 KC7215	J115
SPHX090310R21 KC7215	J116
SPHX090312R20 KC7215	J115
SPHX090312R21 KC7215	J116
SPHX090316R20 KC7215	J115
SPHX090316R21 KC7215	J116
SPHX120404R20 KC7140	J115
SPHX120404R20 KCU25	J115
SPHX120404R20 KCU40	J115
SPHX120404R21 KCPK10	J116
SPHX120404R21 KCU25	J116
SPHX120404R21 KCU40	J116
SPHX120404R21 KM1	J116
SPHX120404R22 KM1	J117
SPHX120408R20 KCU25	J115
SPHX120408R20 KCU40	J115
SPHX120408R21 KC7215	J116
SPHX120410R20 KC7215	J115
SPHX120410R21 KC7215	J116
SPHX120412R20 KC7215	J115
SPHX120412R21 KC7215	J116
SPHX120416R20 KC7215	J115
SPHX120416R21 KC7215	J116
SPHX120420R20 KC7215	J115
SPHX120420R21 KC7215	J116
SPHX120508PCSRGP KCK15	S68
SPHX1205PCELGPB KCK15	S68–69
SPHX1205PCER-GP1WB KC520M	S69
SPHX1205PCER-GP1WB KCK15	S69
SPHX1205PCERGN1WB KCPK30	S69
SPHX1205PCERGNT1WB KB1340	S69
SPHX1205PCERGP4SB KC520M	S68
SPHX1205PCERGP4SB KCK15	S68
SPHX1205PCERGPB KC520M	S68
SPHX1205PCERGPB KCK15	S68
SPHX1205PCERGPB KCPK30	S68
SPHX1205PCFLGN1WB KCK15	S69
SPHX1205PCFRGN1WB KC520M	S69
SPHX1205PCFRGN1WB KC725M	S69
SPHX1205PCFRGN1WB KCK15	S69
SPHX1205PCFRGN1WB KTPK20	S69
SPHX1205PCFRGN1WBK KY3500	S69
SPHX1205PCSRGPB KC725M	S68
SPHX1205PCSRGPB KCK15	S68
SPHX1205PCSRGPB KCPK30	S68
SPHX1205PCTLGPBK KY3500	S68
SPHX1205PCTR-GP1WBK KY3500	S69
SPHX1205PCTRGP4SBK KY3500	S68
SPHX1205PCTRGPB KTPK20	S68
SPHX1205PCTRGPBK KY3500	S68
SPHX1205ZCELGP KC520M	S65
SPHX1205ZCELGP KCK15	S65
SPHX1205ZCER-GP1W KC520M	S66
SPHX1205ZCER-GP1W KCK15	S66
SPHX1205ZCERGNT1W KB1340	S66
SPHX1205ZCERGP KC520M	S65
SPHX1205ZCERGP KCK15	S65
SPHX1205ZCERGP KCPK30	S65
SPHX1205ZCERGP4S KCK15	S65
SPHX1205ZCFRGN1W KC520M	S66
SPHX1205ZCFRGN1W KCK15	S66
SPHX1205ZCFRGN1WK KY3500	S66
SPHX1205ZCSRGP KCK15	S65
SPHX1205ZCSRGP KCPK30	S65
SPHX1205ZCTLGPK KY3500	S65
SPHX1205ZCTR-GP1WK KY3500	S66
SPHX1205ZCTRGP KTPK20	S65
SPHX1205ZCTRGP4SK KY3500	S65
SPHX1205ZCTRGPK KY3500	S65
SPHX150504R20 KCU25	J115
SPHX150504R20 KCU40	J115
SPHX150504R21 KM1	J116
SPHX150504R22 KM1	J117
SPHX150508R20 KCU25	J115
SPHX150508R20 KCU40	J115
SPHX150512R20 KC7215	J115
SPHX150516R20 KC7215	J115
SPHX150520R20 KC7215	J115
SPHX15T6ZCERGP KCK15	S71
SPHX15T6ZCERGP KCPK30	S71
SPHX15T6ZCERGP4S KCK15	S71
SPHX15T6ZCFRGN1W KCK15	S72
SPHX15T6ZCSRGP K110M	S71
SPHX15T6ZCSRGP KCPK30	S71
SPHX15T6ZCTRGP4SK KY3500	S71
SPHX15T6ZCTRGPK KY3500	S71
SPMT3251FP KCP25	B252
SPMT3251FP KCU10	B252
SPMT3251FP KCU25	B252
SPMT3251LF KC5010	B252
SPMT3251LF KC5025	B252
SPMT3251LF KCK15B	B252
SPMT3251LF KCK20	B252
SPMT3251LF KCP10	B252
SPMT3251LF KCP25	B252
SPMT3251LF KT315	B252
SPMT3251UF KC5010	B253
SPMT3251UF KCP10B	B253
SPMT3252FP KCU10	B252
SPMT3252LF K68	B252
SPMT3252LF KC5010	B252
SPMT3252LF KC5025	B252
SPMT3252LF KCK15	B252
SPMT3252LF KCK15B	B252
SPMT3252LF KCK20	B252
SPMT3252LF KCK20B	B252
SPMT3252LF KCP10B	B252
SPMT3252LF KCP25	B252
SPMT3252LF KCP25B	B252
SPMT3252MF KCK15	B253
SPMT3252MF KCK15B	B253
SPMT3252MF KCK20	B253
SPMT3252MF KCM25B	B253
SPMT3252MF KCP10	B253
SPMT3252MF KCP25	B253
SPMT3252MF KCP25B	B253
SPMT3252MP KCK20	B253
SPMT3252MP KCM15	B253
SPMT3252MP KCU10	B253
SPMT432MF KCK15	B253
SPMT432MF KCK20	B253
SPMT432MF KCM25	B253
SPMT432MF KCP25	B253
SPMT432MF KCP30	B253
SPMT432MP KCP25	B253
SPMT432MP KCU10	B253
SPPT3125PPER8GB2 KCK15	T112, U31
SPPT3125PPER8GB2 KCPK30	T112, U31
SPPT3125PPSR8GB2 KCK15	T112, U31
SPPT3125PPSR8GB2 KCPK30	T112, U31
SPPT3125PPSR8GB2 KTPK20	T112, U31
SPPX070304LP KCU40	J104
SPPX09T308FP KCPK10	J104
SPPX09T308FP KCU25	J104
SPPX09T308FP KCU40	J104
SPPX09T308LP KCU40	J104
SPPX09T308MD KC7140	J103
SPPX09T308MD KCU25	J103
SPPX09T308MD KCU40	J103
SPPX09T308RHP KC7140	J103
SPPX09T308RHP KCU25	J103
SPPX09T308RHP KCU40	J103
SPPX09T310FP KCPK10	J104
SPPX09T310FP KCU25	J104
SPPX09T310FP KCU40	J104
SPPX09T310HP KCPK10	J103
SPPX09T310HP KCU25	J103
SPPX09T310HP KCU40	J103
SPPX09T310MD KCPK10	J103
SPPX09T310MD KCU25	J103
SPPX09T310MD KCU40	J103
SPPX120408FP KCPK10	J104
SPPX120408FP KCU25	J104
SPPX120408FP KCU40	J104
SPPX120408LP KCU40	J104
SPPX120408MD KC7140	J103
SPPX120408MD KCU25	J103
SPPX120408MD KCU40	J103
SPPX120408RHP KC7140	J103
SPPX120408RHP KCU25	J103
SPPX120408RHP KCU40	J103
SPPX120412FP KCPK10	J104
SPPX120412FP KCU25	J104
SPPX120412FP KCU40	J104
SPPX120412HP KCPK10	J103
SPPX120412HP KCU25	J103
SPPX120412HP KCU40	J103
SPPX120412MD KCPK10	J103
SPPX120412MD KCU25	J103
SPPX120412MD KCU40	J103
SPPX15T508FP KCPK10	J104
SPPX15T508FP KCU25	J104
SPPX15T508FP KCU40	J104
SPPX15T508MD KC7140	J103
SPPX15T508MD KCU25	J103
SPPX15T508MD KCU40	J103
SPPX15T508RHP KC7140	J103
SPPX15T508RHP KCU25	J103
SPPX15T508RHP KCU40	J103
SPPX15T512FP KCPK10	J104
SPPX15T512FP KCU25	J104
SPPX15T512FP KCU40	J104
SPPX15T512HP KCPK10	J103
SPPX15T512HP KCU25	J103
SPPX15T512HP KCU40	J103
SPPX15T512MD KCPK10	J103
SPPX15T512MD KCU25	J103
SPPX15T512MD KCU40	J103
SPU421 K68	B171
SPU421 KCP25B	B171
SPU422 K68	B171
SPU422 KCP25B	B171
SPU422T0220 KY1615	B338
SPU423 KCP25B	B171
SR3 KWH	B243–244
SR4	B243
SRACL162D	B243
SRACL164D	B243
SRACL202D	B243
SRACL203D	B243
SRACL204D	B243
SRACL244D	B243
SRACR162D	B243
SRACR163D	B243
SRACR164D	B243
SRACR202D	B243
SRACR203D	B243
SRACR204D	B243
SRACR244D	B243
SRCCL162D	B243
SRCCL163D	B243
SRCCL203D	B243
SRCCR122B	B243
SRCCR123B	B243
SRCCR162D	B243
SRCCR163D	B243
SRCCR203D	B243
SRGCL162	B244
SRGCL203	B244
SRGCR08CA06	B245
SRGCR122	B244
SRGCR12CA10	B245
SRGCR162	B244
SRGCR163	B244
SRGCR203	B244
SROCN102	B244
SROCN122	B244
SROCN123	B244
SROCN162	B244
SROCN163	B244
SROCN203	B244
SRS3	B193–196, B227–229, B259–260, B282, S39, T113
SRS4	B194
SS038DL100375	055
SS038SLDL100225	054
SS050DL100500	055
SS050DL120500	055
SS050SLDL100250	054
SS050SLDL120250	054
SS062DL100625	055
SS062DL120625	055
SS062DL160625	055
SS062SLDL100350	054
SS062SLDL120325	054
SS062SLDL160275	054
SS075DL100750	055
SS075DL120750	055
SS075DL160750	055
SS075DL200750	055
SS075SLDL100450	054
SS075SLDL120425	054
SS075SLDL160325	054
SS075SLDL200300	054
SS100DL161000	055
SS100DL201000	055
SS100DL251000	055

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
SS100SLDL160450	054
SS100SLDL200375	054
SS100SLDL250350	054
SS125DL251000	055
SS125DL321000	055
SS125SLDL250425	054
SS125SLDL320400	054
SS150DL321000	055
SS150SLDL320550	054
SS16KST115AR3M	K42
SS16KST115AR5M	K42
SS200DL321000	055
SS200SLDL320750	054
SS20FBHS24	K139
SS20KST135AR3M	K42
SS20KST135AR5M	K42
SS20KST155AR3M	K42
SS20KST155AR5M	K42
SS20KST175AR3M	K42
SS20KST175AR5M	K42
SS20KST175RR3M	K43
SS20KST175RR5M	K43
SS20KST200AR3M	K42
SS20KST200AR5M	K42
SS20KST200RR3M	K43
SS20KST200RR5M	K43
SS20RBHT24	K124
SS25FBHS31	K139
SS25KST250AR3M	K42
SS25KST250AR5M	K42
SS25KST250RR3M	K43
SS25KST250RR5M	K43
SS25RBHT30	K124
SS32KST300AR3M	K42
SS32KST300AR5M	K42
SS32KST300RR3M	K43
SS32KST300RR5M	K43
SS32KST350AR3M	K42
SS32KST350AR5M	K42
SS32KST350RR3M	K43
SS32KST350RR5M	K43
SSA3T	D71–72, D74–79
SSA4T	D71–72, D74–79
SSA5T	D76, D78–79
SSE075FBHS24	K139
SSE100FBHS31	K139
SSE125FBHS40	K139
SSF150FDS280299	H128
SSF150FDS280502	H128
SSF150FDS280746	H129
SSF150FDS281112	H129
SSF150FDS281356	H129
SSF150FDS320323	H128
SSF150FDS320573	H128
SSF150FDS320850	H129
SSF150FDS321263	H129
SSF150FDS321539	H129
SSF150FDS360362	H128
SSF150FDS360652	H128
SSF150FDS360960	H129
SSF150FDS361421	H129
SSF150FDS361728	H129
SSF150HTS130239	J89
SSF150HTS130450	J89
SSF150HTS130664	J89
SSF150HTS131114	J89
SSF150HTS131764	J89
SSF200FDS400394	H128
SSF200FDS400721	H128
SSF200FDS401066	H129
SSF200FDS401586	H129
SSF200FDS401933	H129
SSF200FDS450441	H128
SSF200FDS450809	H128
SSF200FDS451196	H129
SSF200FDS451775	H129
SSF200FDS452161	H129
SSF200FDS500480	H128
SSF200FDS500896	H128
SSF200FDS501330	H129
SSF200FDS501980	H129
SSF200FDS502413	H129
SSF200FDS560551	H128
SSF200FDS561020	H128
SSF200FDS561507	H129
SSF200FDS562240	H129
SSF200FDS562783	H129
SSF200FDS630606	H128
SSF200FDS631138	H128
SSF200FDS631688	H129
SSF200FDS632515	H129
SSF200FDS633066	H129
SSF200FDS710677	H128
SSF200FDS711150	H128
SSF200FDS711780	H129
SSF200FDS800756	H128
SSF200FDS801287	H128
SSF200FDS801996	H129
SSF200FDS900835	H128
SSF200FDS901425	H128
SSF200FDS902213	H129
SSF200HTS130239	J89
SSF200HTS130450	J89
SSF200HTS130664	J89
SSF200HTS131114	J89
SSF200HTS131764	J89
SSF200HTS160239	J89
SSF200HTS160450	J89
SSF200HTS160714	J89
SSF200HTS161214	J89
SSF200HTS161964	J89
SSF200HTS220297	J89
SSF200HTS220550	J89
SSF200HTS220922	J89
SSF200HTS221572	J89
SSF200HTS222572	J89
SSF200HTS270297	J89
SSF200HTS270550	J89
SSF200HTS271122	J89
SSF200HTS271922	J89
SSF200HTS273122	J89
SSF200HTS320305	J89
SSF200HTS320550	J89
SSF200HTS320805	J89
SSF200HTS321305	J89
SSF200HTS321805	J89
SSF250HTS400355	J89
SSF250HTS400650	J89
SSF250HTS401055	J89
SSF250HTS401555	J89
SSF250HTS402555	J89
SSF300HTS500413	J89
SSF300HTS500700	J89
SSF300HTS501313	J89
SSF300HTS502113	J89
SSF300HTS503113	J89
SSKCL12CA12	B249
SSKCR12CA12	B249
SSKCR16CA12	B249
SSKPR10CA09	B254
SSN2T	D74–75
SSP025016M	B58–60, B67–68, B87–88, B91–92, B98, B109–110, B113, B131, B138, B150–151, B154, B163
SSP025018M	B67–68
SSP8	S104
SSRCL12CA12	B250
SSRCR12CA12	B250
SSRPR10CA09	B254
SSSCL12CA12	B251
SSSCR12CA12	B251
SSSPL10CA09	B255
SSSPR10CA09	B255
SSY3T	D71–72, D74–79
SSY4T	D71–72, D74–79
SSY5T K9	D76, D78–79
STACR062D	B259
STACR082D	B259
STACR103B	B259
STC11	B71, B165, B180, B183–185, B372–373, B379–380, B389–390, B392
STC19	B63–64, B98, B111–112, B172, B376
STC20	B60–64, B66, B69–71, B75–76, B89–90, B92, B96, B98–99, B120, B155, B163, B371–372, B374
STC26	B165, B389
STC27	B183–185, B388–390, B392
STC4	B61–65, B69, B71, B75–76, B89–90, B93, B96, B98, B111–114, B120, B132–139, B143, B152–155, B165, B172–173, B179–184, B188, B373–382, B389–390, B393
STC5	B63, B71, B89–90, B93, B96, B98, B111, B113, B132–137, B163, B172, B179, B373, B376, B378
STC8	B165, B172–173, B179–184, B188, B376–382, B389–390, B393
STC9	B69, B76, B132–133, B135–136, B139, B143, B165, B170, B179, B181–185, B376, B378, B381–382, B388–390, B392–393
STCM11	U28–29, U35–36
STCM20	B74
STCM25	V148–149
STCM32	U28
STCM37	B140–142
STCM38	B72–74, B94, B115–119, B140–142, B174–176, B186–187, B394–398
STCM40	B74, B94, B115–117, B119
STCM8	B74, B115, B119, B186, B397
STCM9	B72–74, B94–95, B115–117, B119, B140–142
STFCL062	B259
STFCR062	B259
STFCR163	B259
STFPL08CA09	B276
STFPL10CA11	B276
STFPL12CA16	B276
STFPR062	B270
STFPR08CA09	B276
STFPR10CA11	B276
STFPR12CA16	B276
STGCL062	B260
STGCL082	B260
STGCL103	B260
STGCL123	B260
STGCL163	B260
STGCR062	B260
STGCR082	B260
STGCR103	B260
STGCR123	B260
STGCR163	B260
STGPL062	B270
STGPL082V	B270
STGPL08CA09	B277
STGPL10CA11	B277
STGPR062	B270
STGPR082V	B270
STGPR10CA11	B277
STGPR12CA16	B277
STJCRF062D	B261
STJCRF082D	B261
STJCRF102B	B261
STN10075ISOI KC635M	W45
STN10100ISOI KC620M	W45
STN10100ISOI KC635M	W45
STN10125ISOI KC635M	W45
STN10150ISOI KC635M	W45
STN1018UNI KC635M	W44
STN1020UNI KC635M	W44
STN11100ISOI KC635M	W45
STN1114UNI KC635M	W44
STN11150ISOI KC635M	W45
STN1116UNI KC635M	W44
STN1118NPT KC635M	W46
STN1118NPTF KC635M	W46
STN1118UNE KC635M	W44
STN1118UNI KC635M	W44
STN1119BSW KC635M	W46
STN1120UNI KC635M	W44
STN1124UNI KC635M	W44
STN16100ISOI KC635M	W45
STN16115NPS KC635M	W46
STN16115NPT KC635M	W46
STN16115NPTF KC635M	W46
STN1611BSW KC610M	W46
STN1611BSW KC635M	W46
STN1612BSW KC635M	W46
STN1612UNI KC635M	W44
STN1614BSW KC610M	W46
STN1614BSW KC635M	W46
STN1614NPS KC635M	W46
STN1614NPT KC635M	W46
STN1614NPTF KC635M	W46
STN1614UNE KC635M	W44
STN1614UNI KC635M	W44
STN16150ISOE KC610M	W45
STN16150ISOE KC620M	W45
STN16150ISOI KC635M	W45
STN1616UNE KC635M	W44
STN1616UNI KC610M	W44
STN16175ISOI KC635M	W45
STN16200ISOI KC635M	W45
STN1620UNE KC635M	W44
STN1624UNE KC635M	W44
STN1624UNI KC635M	W44
STN1627UNI KC635M	W44
STN1632UNI KC635M	W44
STN22300ISOIC KC610M	W45
STN2711BSW KC635M	W46
STN27200ISOE KC610M	W45
STN27350ISOIC KC610M	W45
STTPR08CA09	B278
STTPR10CA11	B278
STTPR12CA16	B278
STWPR10CA11	B279
STWPR12CA16	B279
SU3	E65
SUWTCL	E64
SUWTCR	E64
SVABL062D	B282
SVABL082D	B282
SVABL103B	B282
SVABR062D	B282
SVABR082D	B282
SVABR103B	B282
SVJBL062	B282
SVJBL082	B282
SVJBL102	B282
SVJBL123	B282
SVJBL163	B282
SVJBLF062D	B283
SVJBLF082D	B283
SVJBLF103B	B283
SVJBR062	B282
SVJBR082	B282
SVJBR102	B282
SVJBR123	B282
SVJBR163	B282
SVJBRF062D	B283
SVJBRF082D	B283
SVJBRF103B	B283
SVUBL082	B283
SVUBL102	B283
SVUBR082	B283
SVUBR102	B283
SWLCRF082D	B287
SWSM515	S104
SYB115RBHT16LF	K125
SYB24RBHT06F	K125
SYB30RBHT06F	K125
SYB40RBHT09F	K125
SYB50RBHT09F	K125
SYB66RBHT12F	K125
SYB66RBHT12LF	K125
SYB87RBHT12F	K125
SYB87RBHT16LF	K125
T15 S	T127–128, V9–12, V17–19, V102–103, V111–112
T20 S	T131, V111–112
T320M060X100R6HX KC7542	M4
T320M080X125R6HX KC7542	M4
T320M100X150R6HX KC7542	M4
T320M120X175R6HX KC7542	M4
T320M160X200R6HX KC7542	M4
T320MF140X150R6HX KC7542	M4
T320NC03750-16R3BX KC7542	M4

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T320NC04375-14R3BX KC7542	M4
T320NC05000-13R3BX KC7542	M4
T321M100X150R6HX KC7542	M5
T321M120X175R6HX KC7542	M5
T321M140X200R6HX KC7542	M5
T321M160X200R6HX KC7542	M5
T321MF120X150R6HX KC7542	M5
T321MF140X150R6HX KC7542	M5
T331M060X100R6HX KC7542	M45
T331M080X125R6HX KC7542	M45
T331M100X150R6HX KC7542	M45
T331M120X175R6HX KC7542	M45
T331M140X200R6HX KC7542	M45
T331M160X200R6HX KC7542	M45
T331MF120X150R6HX KC7542	M45
T331MF140X150R6HX KC7542	M45
T331NC2500-20R3BX KC7542	M44
T331NC3125-18R3BX KC7542	M44
T331NC3750-16R3BX KC7542	M44
T331NC4375-14R3BX KC7542	M44
T331NC5000-13R3BX KC7542	M44
T331NF2500-28R3BX KC7542	M44
T340M040X070R6HX KCK17	M109
T340M050X080R6HX KCK17	M109
T340M060X100R6HX KCK17	M109
T340M080X125R6HX KCK17	M109
T340M100X150R6HX KCK17	M109
T340M120X175R6HX KCK17	M109
T340M140X200R6HX KCK17	M109
T340M160X200R6HX KCK17	M109
T340M200X250R6HX KCK17	M109
T340MF100X100R6HX KCK17	M109
T340MF120X150R6HX KCK17	M109
T340MF140X150R6HX KCK17	M109
T340NC#10-24R3BX KCK17	M108
T340NC#6-32R3BX KCK17	M108
T340NC#8-32R3BX KCK17	M108
T340NC02500-20R3BX KCK17	M108
T340NC03125-18R3BX KCK17	M108
T340NC03750-16R3BX KCK17	M108
T340NC05000-13R3BX KCK17	M108
T340NF#10-32R3BX KCK17	M108
T340NF03750-24R3BX KCK17	M108
T340NF05000-20R3BX KCK17	M108
T340NF05625-18R3BX KCK17	M108
T351M040X070R6HX KCK17	M111
T351M050X080R6HX KCK17	M111
T351M060X100R6HX KCK17	M111
T351M060X100R6HX-D1 KCK17	M112
T351M070X100R6HX-D1 KCK17	M112
T351M080X125R6HX KCK17	M111
T351M080X125R6HX-D1 KCK17	M112
T351M090X125R6HX-D1 KCK17	M112
T351M100X150R6HX KCK17	M111
T351M100X150R6HX-D1 KCK17	M112
T351M120X175R6HX KCK17	M111
T351M120X175R6HX-D6 KCK17	M112
T351M140X200R6HX-D6 KCK17	M112
T351MF140X200R6HX KCK17	M111
T351MF160X200R6HX KCK17	M111
T351MF100X100R6HX KCK17	M111
T351MF100X100R6HX-D4 KCK17	M112
T351MF100X125R6HX-D4 KCK17	M112
T351MF120X125R6HX-D4 KCK17	M112
T351MF120X150R6HX KCK17	M111
T351MF120X150R6HX-D4 KCK17	M112
T351MF140X125R6HX-D4 KCK17	M112
T351MF140X150R6HX KCK17	M111
T351MF140X150R6HX-D4 KCK17	M112
T351NC#6-32R3BX KCK17	M110
T351NC#8-32R3BX KCK17	M110
T351NC02500-20R3BX KCK17	M110
T351NC03125-18R3BX KCK17	M110
T351NC03750-16R3BX KCK17	M110
T351NC04375-14R3BX KCK17	M110
T351NC05000-13R3BX KCK17	M110
T351NC06250-11R3BX KCK17	M110
T351NC07500-10R3BX KCK17	M110
T351NF#10-32R3BX KCK17	M110
T353M040X070R6HX-D1 KCK17	M113
T353M050X080R6HX-D1 KCK17	M113
T353M060X100R6HX-D1 KCK17	M113

Catalog No.	Page(s)
T353M080X125R6HX-D1 KCK17	M113
T353M100X150R6HX-D1 KCK17	M113
T353M120X175R6HX-D6 KCK17	M113
T353M140X200R6HX-D6 KCK17	M113
T410M030X050R6HX-D1 KCU36	M116
T410M040X070R6HX-D1 KCU36	M116
T410M050X080R6HX-D1 KCU36	M116
T410M060X100R6HX-D1 KCU36	M116
T410M080X125R6HX-D1 KCU36	M116
T410M100X150R6HX-D1 KCU36	M116
T410M120X175R6HX-D6 KCU36	M116
T410M140X200R6HX-D6 KCU36	M116
T410MF080X100R6HX-D4 KCU36	M116
T410MF100X100R6HX-D4 KCU36	M116
T410MF120X150R6HX-D4 KCU36	M116
T410MF140X150R6HX-D4 KCU36	M116
T410MF160X150R6HX-D4 KCU36	M116
T471M060X100R6HX KCN14	M114
T471M060X100R6HX-D1 KCN14	M115
T471M080X125R6HX KCN14	M114
T471M080X125R6HX-D1 KCN14	M115
T471M100X150R6HX KCN14	M114
T471M100X150R6HX-D1 KCN14	M115
T471M120X175R6HX KCN14	M114
T471M140X200R6HX KCN14	M114
T491M050X080R6HX KCN14	M138
T491M060X100R6HX KCN14	M138
T491M060X100R6HX-D74 KCN14	M138
T491M080X125R6HX KCN14	M138
T491M080X125R6HX-D74 KCN14	M138
T491M100X150R6HX KCN14	M138
T491M100X150R6HX-D74 KCN14	M138
T491M120X175R6HX KCN14	M138
T600M030X050R6HX-D1 KSP21	M22
T600M040X070R6HX-D1 KSP21	M22
T600M050X080R6HX-D1 KSP21	M22
T600M060X100R6HX-D1 KSP21	M22
T600M080X125R6HX-D1 KSP21	M22
T600M100X150R6HX-D1 KSP21	M22
T600M120X175R6HX-D6 KSP21	M22
T600M140X200R6HX-D6 KSP21	M22
T600M160X200R6HX-D6 KSP21	M22
T600M180X250R6HX-D6 KSP21	M22
T600M200X250R6HX-D6 KSP21	M22
T600MF080X100R6HX-D4 KSP21	M22
T600MF100X100R6HX-D4 KSP21	M22
T600MF100X125R6HX-D4 KSP21	M22
T600MF120X125R6HX-D4 KSP21	M22
T600MF120X150R6HX-D4 KSP21	M22
T600MF140X150R6HX-D4 KSP21	M22
T600MF160X150R6HX-D4 KSP21	M22
T604M030X050R6H-D1 KSH26	M73
T604M040X070R6H-D1 KSH26	M73
T604M050X080R6H-D1 KSH26	M73
T604M060X100R6H-D1 KSH26	M73
T604M080X125R6H-D1 KSH26	M73
T604M100X150R6H-D1 KSH26	M73
T604M120X175R6H-D6 KSH26	M73
T604M140X200R6H-D6 KSH26	M73
T604M160X200R6H-D6 KSH26	M73
T604M180X250R6H-D6 KSH26	M73
T604M200X250R6H-D6 KSH26	M73
T604MF080X100R6H-D4 KSH26	M73
T604MF100X100R6H-D4 KSH26	M73
T604MF100X125R6H-D4 KSH26	M73
T604MF120X125R6H-D4 KSH26	M73
T604MF120X150R6H-D4 KSH26	M73
T604MF140X150R6H-D4 KSH26	M73
T604MF160X150R6H-D4 KSH26	M73
T620M030X050R6HX-A KM6515	M10
T620M030X050R6HX-A KP6525	M10
T620M030X050R6HX-D1 KM6515	M11
T620M030X050R6HX-D1 KP6525	M11
T620M040X070R6HX-A KM6515	M10
T620M040X070R6HX-A KP6525	M10
T620M040X070R6HX-D1 KM6515	M11
T620M040X070R6HX-D1 KP6525	M11
T620M050X080R6HX-A KM6515	M10
T620M050X080R6HX-A KP6525	M10
T620M050X080R6HX-D1 KM6515	M11
T620M050X080R6HX-D1 KP6525	M11
T620M060X100R6HX-A KM6515	M10

Catalog No.	Page(s)
T620M060X100R6HX-A KP6525	M10
T620M060X100R6HX-D1 KM6515	M11
T620M060X100R6HX-D1 KP6525	M11
T620M080X100R6HX-A KP6525	M10
T620M080X125R6HX-A KM6515	M10
T620M080X125R6HX-A KP6525	M10
T620M080X125R6HX-D1 KM6515	M11
T620M080X125R6HX-D1 KP6525	M11
T620M100X150R6HX-A KM6515	M10
T620M100X150R6HX-A KP6525	M10
T620M100X150R6HX-D1 KM6515	M11
T620M100X150R6HX-D1 KP6525	M11
T620M120X175R6HX-A KM6515	M10
T620M120X175R6HX-A KP6525	M10
T620M120X175R6HX-D6 KM6515	M11
T620M120X175R6HX-D6 KP6525	M11
T620M140X200R6HX-D6 KM6515	M11
T620M140X200R6HX-D6 KP6525	M11
T620M160X200R6HX-D6 KM6515	M11
T620M160X200R6HX-D6 KP6525	M11
T620M200X250R6HX-D6 KM6515	M11
T620M200X250R6HX-D6 KP6525	M11
T620M240X300R6H-XL KP6525	M14
T620M240X300R6HX-D6 KP6525	M13
T620M300X350R6H-XL KP6525	M14
T620M300X350R6HX-D6 KP6525	M13
T620M330X350R6H-XL KP6525	M14
T620M330X350R6HX-D6 KP6525	M13
T620M360X400R6H-XL KP6525	M14
T620M360X400R6HX-D6 KP6525	M13
T620M420X450R6H-XL KP6525	M14
T620M420X450R6HX-D6 KP6525	M13
T620MF080X100R6HX-A KM6515	M10
T620MF080X100R6HX-D4 KM6515	M11
T620MF080X100R6HX-D4 KP6525	M11
T620MF100X100R6HX-D4 KM6515	M11
T620MF100X100R6HX-D4 KP6525	M11
T620MF100X125R6HX-D4 KP6525	M11
T620MF120X150R6HX-D4 KM6515	M11
T620MF120X150R6HX-D4 KP6525	M11
T620MF140X150R6HX-D4 KM6515	M11
T620MF140X150R6HX-D4 KP6525	M11
T620MF160X150R6HX-D4 KM6515	M11
T620MF160X150R6HX-D4 KP6525	M11
T620MF180X150R6HX-D4 KM6515	M11
T620MF180X150R6HX-D4 KP6525	M11
T620NC#02-56R2BX-A KM6515	M6
T620NC#02-56R2BX-A KP6525	M6
T620NC#02-56R3BX-A KM6515	M6
T620NC#02-56R3BX-A KP6525	M6
T620NC#04-40R2BX-A KM6515	M6
T620NC#04-40R2BX-A KP6525	M6
T620NC#04-40R3BX-A KM6515	M6
T620NC#04-40R3BX-A KP6525	M6
T620NC#05-40R3BX-A KM6515	M6
T620NC#05-40R3BX-A KP6525	M6
T620NC#06-32R2BX-A KM6515	M6
T620NC#06-32R2BX-A KP6525	M6
T620NC#06-32R2BX-D1 KP6525	M8
T620NC#06-32R3BX-A KM6515	M6
T620NC#06-32R3BX-A KP6525	M6
T620NC#08-32R2BX-A KM6515	M6
T620NC#08-32R2BX-A KP6525	M6
T620NC#08-32R2BX-D1 KP6525	M8
T620NC#08-32R3BX-A KM6515	M6
T620NC#08-32R3BX-A KP6525	M6
T620NC#10-24R2BX-D1 KP6525	M8
T620NC#10-24R3BX-A KM6515	M6
T620NC#10-24R3BX-A KP6525	M6
T620NC#12-24R3BX-A KM6515	M6
T620NC#12-24R3BX-A KP6525	M6
T620NC02500-20R2BX-A KM6515	M6
T620NC02500-20R2BX-A KP6525	M6
T620NC02500-20R3BX-A KM6515	M6
T620NC02500-20R3BX-A KP6525	M6
T620NC02500-20R3BX-D1 KP6525	M8
T620NC03125-18R2BX-A KM6515	M6
T620NC03125-18R2BX-A KP6525	M6
T620NC03125-18R3BX-A KM6515	M6
T620NC03125-18R3BX-A KP6525	M6
T620NC03125-18R3BX-D1 KP6525	M8
T620NC03750-16R2BX-A KM6515	M6

Catalog No.	Page(s)
T620NC03750-16R2BX-A KP6525	M6
T620NC03750-16R3BX-A KM6515	M6
T620NC03750-16R3BX-A KP6525	M6
T620NC03750-16R3BX-D1 KP6525	M8
T620NC04375-14R3BX-A KM6515	M7
T620NC04375-14R3BX-A KP6525	M7
T620NC04375-14R3BX-D6 KP6525	M8
T620NC05000-13R3BX-A KM6515	M7
T620NC05000-13R3BX-A KP6525	M7
T620NC05000-13R3BX-D6 KP6525	M8
T620NC06250-11R3BX-A KM6515	M7
T620NC06250-11R3BX-A KP6525	M7
T620NC07500-10R3BX-A KM6515	M7
T620NC07500-10R3BX-A KP6525	M7
T620NF#06-40R2BX-D1 KP6525	M8
T620NF#08-36R3BX-A KM6515	M6
T620NF#08-36R3BX-A KP6525	M6
T620NF#10-32R2BX-A KM6515	M6
T620NF#10-32R2BX-A KP6525	M6
T620NF#10-32R2BX-D1 KP6525	M8
T620NF#10-32R3BX-A KM6515	M6
T620NF#10-32R3BX-A KP6525	M6
T620NF02500-28R2BX-A KM6515	M6
T620NF02500-28R2BX-A KP6525	M6
T620NF02500-28R3BX-A KM6515	M6
T620NF02500-28R3BX-A KP6525	M6
T620NF02500-28R3BX-D1 KP6525	M8
T620NF03125-24R3BX-A KM6515	M6
T620NF03125-24R3BX-A KP6525	M6
T620NF03125-24R3BX-D1 KP6525	M8
T620NF03750-24R3BX-A KM6515	M6
T620NF03750-24R3BX-A KP6525	M6
T620NF03750-24R3BX-D1 KP6525	M8
T620NF04375-20R3BX-A KM6515	M7
T620NF04375-20R3BX-A KP6525	M7
T620NF04375-20R3BX-D6 KP6525	M8
T620NF05000-20R3BX-A KM6515	M7
T620NF05000-20R3BX-A KP6525	M7
T620NF05000-20R3BX-D6 KP6525	M8
T621M050X080R6HX-D1 KM6515	M12
T621M050X080R6HX-D1 KP6525	M12
T621M060X100R6HX-D1 KM6515	M12
T621M060X100R6HX-D1 KP6525	M12
T621M080X125R6HX-D1 KM6515	M12
T621M080X125R6HX-D1 KP6525	M12
T621M100X150R6HX-D1 KM6515	M12
T621M100X150R6HX-D1 KP6525	M12
T621M120X175R6HX-D6 KM6515	M12
T621M120X175R6HX-D6 KP6525	M12
T621M140X200R6HX-D6 KM6515	M12
T621M140X200R6HX-D6 KP6525	M12
T621M160X200R6HX-D6 KM6515	M12
T621M160X200R6HX-D6 KP6525	M12
T621M180X250R6HX-D6 KM6515	M12
T621M180X250R6HX-D6 KP6525	M12
T621MF080X100R6HX-D4 KM6515	M12
T621MF080X100R6HX-D4 KP6525	M12
T621MF100X100R6HX-D4 KM6515	M12
T621MF100X100R6HX-D4 KP6525	M12
T621MF100X125R6HX-D4 KM6515	M12
T621MF100X125R6HX-D4 KP6525	M12
T621MF120X125R6HX-D4 KP6525	M12
T621MF120X150R6HX-D4 KM6515	M12
T621MF120X150R6HX-D4 KP6525	M12
T621MF140X125R6HX-D4 KP6525	M12
T621MF140X150R6HX-D4 KM6515	M12
T621MF140X150R6HX-D4 KP6525	M12
T621MF160X150R6HX-D4 KM6515	M12
T621MF160X150R6HX-D4 KP6525	M12
T621MF180X150R6HX-D4 KM6515	M12
T621MF180X150R6HX-D4 KP6525	M12
T621NC02500-20R3BX-D1 KP6525	M9
T621NC03125-18R3BX-D1 KP6525	M9
T621NC03750-16R3BX-D1 KP6525	M9
T621NC04375-14R3BX-D6 KP6525	M9
T621NC05000-13R3BX-D6 KP6525	M9
T621NF02500-28R3BX-D1 KP6525	M9
T621NF03125-24R3BX-D1 KP6525	M9
T621NF03750-24R3BX-D1 KP6525	M9
T621NF04375-20R3BX-D6 KP6525	M9
T621NF05000-20R3BX-D6 KP6525	M9
T622M030X050R6HX-D74 KSN28	M139

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T622M030X050R6HX-D74 KSP21	M139
T622M040X070R6HX-D74 KSN28	M139
T622M040X070R6HX-D74 KSP21	M139
T622M050X080R6HX-D74 KSN28	M139
T622M050X080R6HX-D74 KSP21	M139
T622M060X100R6HX-D74 KSN28	M139
T622M060X100R6HX-D74 KSP21	M139
T622M080X125R6HX-D74 KSN28	M139
T622M080X125R6HX-D74 KSP21	M139
T622M100X150R6HX-D74 KSN28	M139
T622M100X150R6HX-D74 KSP21	M139
T622M120X175R6HX-D74 KSN28	M139
T622M120X175R6HX-D74 KSP21	M139
T622M160X200R6HX-D74 KSN28	M139
T622M160X200R6HX-D74 KSP21	M139
T622MF080X100R6HX-D74 KSN28	M139
T622MF080X100R6HX-D74 KSP21	M139
T622MF100X100R6HX-D74 KSN28	M139
T622MF100X100R6HX-D74 KSP21	M139
T622MF100X125R6HX-D74 KSN28	M139
T622MF100X125R6HX-D74 KSP21	M139
T622MF120X125R6HX-D74 KSN28	M139
T622MF120X125R6HX-D74 KSP21	M139
T622MF120X150R6HX-D74 KSN28	M139
T622MF120X150R6HX-D74 KSP21	M139
T622MF140X150R6HX-D74 KSN28	M139
T622MF140X150R6HX-D74 KSP21	M139
T622MF160X150R6HX-D74 KSN28	M139
T622MF160X150R6HX-D74 KSP21	M139
T623M050X080R6HX-D74 KSN28	M140
T623M050X080R6HX-D74 KSP21	M140
T623M060X100R6HX-D74 KSN28	M140
T623M060X100R6HX-D74 KSP21	M140
T623M080X125R6HX-D74 KSN28	M140
T623M080X125R6HX-D74 KSP21	M140
T623M100X150R6HX-D74 KSN28	M140
T623M100X150R6HX-D74 KSP21	M140
T623M120X175R6HX-D74 KSN28	M140
T623M120X175R6HX-D74 KSP21	M140
T623M160X200R6HX-D74 KSN28	M140
T623M160X200R6HX-D74 KSP21	M140
T623MF080X100R6HX-D74 KSN28	M140
T623MF080X100R6HX-D74 KSP21	M140
T623MF100X100R6HX-D74 KSN28	M140
T623MF100X100R6HX-D74 KSP21	M140
T623MF120X150R6HX-D74 KSN28	M140
T623MF120X150R6HX-D74 KSP21	M140
T623MF140X150R6HX-D74 KSN28	M140
T623MF140X150R6HX-D74 KSP21	M140
T623MF160X150R6HX-D74 KSN28	M140
T623MF160X150R6HX-D74 KSP21	M140
T624M030X050RD5-DA KSP27	M145
T624M040X070RD6-DA KSP27	M145
T624M060X100RD8-DA KSP27	M145
T624M080X125RD9-DA KSP27	M145
T624M100X150RD10-DA KSP27	M145
T624M120X175RD11-DA KSP27	M145
T624M140X200RD12-DA KSP27	M145
T624M160X200RD12-DA KSP27	M145
T624MF100X125RD9-DA KSP27	M145
T624MF120X125RD9-DA KSP27	M145
T624MF120X150RD9-DA KSP27	M145
T624MF140X150RD11-DA KSP27	M145
T624MF160X150RD11-DA KSP27	M145
T624NC#06-32RH3-DA KSP27	M141
T624NC#06-32RH5-DA KSP27	M141
T624NC#08-32RH3-DA KSP27	M141
T624NC#08-32RH5-DA KSP27	M141
T624NC#10-24RH4-DA KSP27	M141
T624NC#10-24RH6-DA KSP27	M141
T624NC02500-20RH4-DA KSP27	M141
T624NC02500-20RH6-DA KSP27	M141
T624NC03125-18RH5-DA KSP27	M141
T624NC03125-18RH7-DA KSP27	M141
T624NC03750-16RH5-DA KSP27	M141
T624NC03750-16RH7-DA KSP27	M141
T624NC05000-13RH5-DA KSP27	M141
T624NC05000-13RH7-DA KSP27	M141
T624NC06250-11RH10-DA KSP27	M141
T624NC06250-11RH7-DA KSP27	M141
T624NC07500-10RH10-DA KSP27	M141
T624NC07500-10RH7-DA KSP27	M141
T624NF#10-32RH4-DA KSP27	M141
T624NF#10-32RH6-DA KSP27	M141
T624NF02500-28RH4-DA KSP27	M141
T624NF02500-28RH6-DA KSP27	M141
T624NF03125-24RH5-DA KSP27	M141
T624NF03125-24RH7-DA KSP27	M141
T624NF03750-24RH5-DA KSP27	M141
T624NF03750-24RH7-DA KSP27	M141
T624NF05000-20RH5-DA KSP27	M141
T624NF05000-20RH7-DA KSP27	M141
T624NF06250-18RH10-DA KSP27	M141
T624NF06250-18RH7-DA KSP27	M141
T624NF07500-16RH10-DA KSP27	M141
T624NF07500-16RH7-DA KSP27	M141
T625M060X100RD8-DA KSP27	M146
T625M080X125RD9-DA KSP27	M146
T625M100X150RD10-DA KSP27	M146
T625M120X175RD11-DA KSP27	M146
T625M140X200RD12-DA KSP27	M146
T625M160X200RD12-DA KSP27	M146
T625MF100X125RD9-DA KSP27	M146
T625MF120X125RD9-DA KSP27	M146
T625MF120X150RD9-DA KSP27	M146
T625MF140X150RD11-DA KSP27	M146
T625MF160X150RD11-DA KSP27	M146
T625NC02500-20RH4-DA KSP27	M142
T625NC02500-20RH6-DA KSP27	M142
T625NC03125-18RH5-DA KSP27	M142
T625NC03125-18RH7-DA KSP27	M142
T625NC03750-16RH5-DA KSP27	M142
T625NC03750-16RH7-DA KSP27	M142
T625NC05000-13RH5-DA KSP27	M142
T625NC05000-13RH7-DA KSP27	M142
T625NC06250-11RH10-DA KSP27	M142
T625NC06250-11RH7-DA KSP27	M142
T625NC07500-10RH10-DA KSP27	M142
T625NC07500-10RH7-DA KSP27	M142
T625NF02500-28RH4-DA KSP27	M142
T625NF02500-28RH6-DA KSP27	M142
T625NF03125-24RH5-DA KSP27	M142
T625NF03125-24RH7-DA KSP27	M142
T625NF03750-24RH5-DA KSP27	M142
T625NF03750-24RH7-DA KSP27	M142
T625NF05000-20RH5-DA KSP27	M142
T625NF05000-20RH7-DA KSP27	M142
T625NF06250-18RH10-DA KSP27	M142
T625NF06250-18RH7-DA KSP27	M142
T625NF07500-16RH10-DA KSP27	M142
T625NF07500-16RH7-DA KSP27	M142
T626M030X050RD5-DA KSP27	M147
T626M035X060RD6-DA KSP27	M147
T626M040X070RD6-DA KSP27	M147
T626M050X080RD7-DA KSP27	M147
T626M060X100RD8-DA KSP27	M147
T626M080X125RD9-DA KSP27	M147
T626M100X150RD10-DA KSP27	M147
T626M120X175RD11-DA KSP27	M147
T626M140X200RD12-DA KSP27	M147
T626M160X200RD12-DA KSP27	M147
T626MF100X125RD9-DA KSP27	M147
T626MF120X125RD9-DA KSP27	M147
T626MF120X150RD9-DA KSP27	M147
T626MF140X150RD11-DA KSP27	M147
T626MF160X150RD11-DA KSP27	M147
T626NC#02-56RH3-DA KSP27	M143
T626NC#03-48RH3-DA KSP27	M143
T626NC#04-40RH3-DA KSP27	M143
T626NC#04-40RH5-DA KSP27	M143
T626NC#06-32RH3-DA KSP27	M143
T626NC#06-32RH5-DA KSP27	M143
T626NC#08-32RH3-DA KSP27	M143
T626NC#08-32RH5-DA KSP27	M143
T626NC#10-24RH4-DA KSP27	M143
T626NC#10-24RH6-DA KSP27	M143
T626NC02500-20RH4-DA KSP27	M143
T626NC02500-20RH6-DA KSP27	M143
T626NC03125-18RH5-DA KSP27	M143
T626NC03125-18RH7-DA KSP27	M143
T626NC03750-16RH5-DA KSP27	M143
T626NC03750-16RH7-DA KSP27	M143
T626NC05000-13RH5-DA KSP27	M143
T626NC05000-13RH7-DA KSP27	M143
T626NC06250-11RH10-DA KSP27	M143
T626NC06250-11RH7-DA KSP27	M143
T626NC07500-10RH10-DA KSP27	M143
T626NC07500-10RH7-DA KSP27	M143
T626NF#10-32RH4-DA KSP27	M143
T626NF#10-32RH6-DA KSP27	M143
T626NF02500-28RH4-DA KSP27	M143
T626NF02500-28RH6-DA KSP27	M143
T626NF03125-24RH5-DA KSP27	M143
T626NF03125-24RH7-DA KSP27	M143
T626NF03750-24RH5-DA KSP27	M143
T626NF03750-24RH7-DA KSP27	M143
T626NF05000-20RH5-DA KSP27	M143
T626NF05000-20RH7-DA KSP27	M143
T626NF06250-18RH10-DA KSP27	M143
T626NF06250-18RH7-DA KSP27	M143
T626NF07500-16RH10-DA KSP27	M143
T626NF07500-16RH7-DA KSP27	M143
T627M060X100RD8-DA KSP27	M148
T627M080X125RD9-DA KSP27	M148
T627M100X150RD10-DA KSP27	M148
T627M120X175RD11-DA KSP27	M148
T627M140X200RD12-DA KSP27	M148
T627M160X200RD12-DA KSP27	M148
T627MF100X125RD9-DA KSP27	M148
T627MF120X125RD9-DA KSP27	M148
T627MF120X150RD9-DA KSP27	M148
T627MF140X150RD11-DA KSP27	M148
T627MF160X150RD11-DA KSP27	M148
T627NC02500-20RH4-DA KSP27	M144
T627NC02500-20RH6-DA KSP27	M144
T627NC03125-18RH5-DA KSP27	M144
T627NC03125-18RH7-DA KSP27	M144
T627NC03750-16RH5-DA KSP27	M144
T627NC03750-16RH7-DA KSP27	M144
T627NC05000-13RH5-DA KSP27	M144
T627NC05000-13RH7-DA KSP27	M144
T627NC06250-11RH10-DA KSP27	M144
T627NC06250-11RH7-DA KSP27	M144
T627NC07500-10RH10-DA KSP27	M144
T627NC07500-10RH7-DA KSP27	M144
T627NF02500-28RH4-DA KSP27	M144
T627NF02500-28RH6-DA KSP27	M144
T627NF03125-24RH5-DA KSP27	M144
T627NF03125-24RH7-DA KSP27	M144
T627NF03750-24RH5-DA KSP27	M144
T627NF03750-24RH7-DA KSP27	M144
T627NF05000-20RH5-DA KSP27	M144
T627NF05000-20RH7-DA KSP27	M144
T627NF06250-18RH10-DA KSP27	M144
T627NF06250-18RH7-DA KSP27	M144
T627NF07500-16RH10-DA KSP27	M144
T627NF07500-16RH7-DA KSP27	M144
T630M030X050R6HX-A KM6515	M49
T630M030X050R6HX-A KP6525	M49
T630M030X050R6HX-D1 KM6515	M50
T630M030X050R6HX-D1 KP6525	M50
T630M040X070R6HX-A KM6515	M49
T630M040X070R6HX-A KP6525	M49
T630M040X070R6HX-D1 KM6515	M50
T630M040X070R6HX-D1 KP6525	M50
T630M050X080R6HX-A KM6515	M49
T630M050X080R6HX-A KP6525	M49
T630M050X080R6HX-D1 KM6515	M50
T630M050X080R6HX-D1 KP6525	M50
T630M060X100R6HX-A KM6515	M49
T630M060X100R6HX-A KP6525	M49
T630M060X100R6HX-D1 KM6515	M50
T630M060X100R6HX-D1 KP6525	M50
T630M080X125R6HX-A KM6515	M49
T630M080X125R6HX-A KP6525	M49
T630M080X125R6HX-D1 KM6515	M50
T630M080X125R6HX-D1 KP6525	M50
T630M100X150R6HX-A KM6515	M49
T630M100X150R6HX-A KP6525	M49
T630M100X150R6HX-D1 KM6515	M50
T630M100X150R6HX-D1 KP6525	M50
T630M120X175R6HX-A KM6515	M49
T630M120X175R6HX-A KP6525	M49
T630M120X175R6HX-D6 KM6515	M50
T630M120X175R6HX-D6 KP6525	M50
T630M140X200R6HX-A KM6515	M49
T630M140X200R6HX-A KP6525	M49
T630M140X200R6HX-D6 KM6515	M50
T630M140X200R6HX-D6 KP6525	M50
T630M160X200R6HX-A KM6515	M49
T630M160X200R6HX-A KP6525	M49
T630M160X200R6HX-D6 KM6515	M50
T630M160X200R6HX-D6 KP6525	M50
T630M180X250R6HX-D6 KM6515	M50
T630M180X250R6HX-D6 KP6525	M50
T630M240X300R6HX-D6 KP6525	M54
T630M240X300R6HX-XL KP6525	M56
T630M300X350R6HX-D6 KP6525	M54
T630M300X350R6HX-XL KP6525	M56
T630M330X350R6HX-D6 KP6525	M54
T630M330X350R6HX-XL KP6525	M56
T630M360X400R6HX-D6 KP6525	M54
T630M360X400R6HX-XL KP6525	M56
T630M420X450R6HX-D6 KP6525	M54
T630M420X450R6HX-XL KP6525	M56
T630MF080X100R6HX-D4 KM6515	M50
T630MF080X100R6HX-D4 KP6525	M50
T630MF100X100R6HX-D4 KM6515	M50
T630MF100X100R6HX-D4 KP6525	M50
T630MF100X125R6HX-D4 KM6515	M50
T630MF100X125R6HX-D4 KP6525	M50
T630MF120X150R6HX-D4 KM6515	M50
T630MF120X150R6HX-D4 KP6525	M50
T630MF140X150R6HX-D4 KM6515	M50
T630MF140X150R6HX-D4 KP6525	M50
T630MF160X150R6HX-D4 KM6515	M50
T630MF160X150R6HX-D4 KP6525	M50
T630MF180X150R6HX-D4 KM6515	M50
T630MF180X150R6HX-D4 KP6525	M50
T630NC#02-56R3BX-A KM6515	M46
T630NC#02-56R3BX-A KP6525	M46
T630NC#04-40R2BX-A KM6515	M46
T630NC#04-40R2BX-A KP6525	M46
T630NC#04-40R3BX-A KM6515	M46
T630NC#04-40R3BX-A KP6525	M46
T630NC#06-32R2BX-A KM6515	M46
T630NC#06-32R2BX-A KP6525	M46
T630NC#06-32R2BX-D1 KP6525	M47
T630NC#06-32R3BX-A KM6515	M46
T630NC#06-32R3BX-A KP6525	M46
T630NC#08-32R2BX-D1 KP6525	M47
T630NC#08-32R3BX-A KM6515	M46
T630NC#08-32R3BX-A KP6525	M46
T630NC#10-24R2BX-D1 KP6525	M47
T630NC#10-24R3BX-A KM6515	M46
T630NC#10-24R3BX-A KP6525	M46
T630NC02500-20R2BX-A KM6515	M46
T630NC02500-20R2BX-A KP6525	M46
T630NC02500-20R3BX-A KM6515	M46
T630NC02500-20R3BX-A KP6525	M46
T630NC02500-20R3BX-D1 KP6525	M47
T630NC03125-18R2BX-A KM6515	M46
T630NC03125-18R2BX-A KP6525	M46
T630NC03125-18R3BX-A KM6515	M46
T630NC03125-18R3BX-A KP6525	M46
T630NC03125-18R3BX-D1 KP6525	M47
T630NC03750-16R2BX-A KM6515	M46
T630NC03750-16R2BX-A KP6525	M46
T630NC03750-16R3BX-A KM6515	M46
T630NC03750-16R3BX-A KP6525	M46
T630NC03750-16R3BX-D1 KP6525	M47
T630NC04375-14R3BX-A KM6515	M46
T630NC04375-14R3BX-A KP6525	M46
T630NC04375-14R3BX-D6 KP6525	M47
T630NC05000-13R2BX-A KM6515	M46
T630NC05000-13R2BX-A KP6525	M46
T630NC05000-13R3BX-A KM6515	M46
T630NC05000-13R3BX-A KP6525	M46
T630NC05000-13R3BX-D6 KP6525	M47
T630NC06250-11R2BX-A KM6515	M46
T630NC06250-11R2BX-A KP6525	M46
T630NC06250-11R3BX-A KM6515	M46
T630NC06250-11R3BX-A KP6525	M46
T630NC07500-10R2BX-A KM6515	M46
T630NC07500-10R2BX-A KP6525	M46
T630NC07500-10R3BX-A KM6515	M46
T630NC07500-10R3BX-A KP6525	M46
T630NC10000-08R3BX-A KM6515	M46

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T630NC10000-08R3BX-A KP6525	M46
T630NF#06-40R2BX-D1 KP6525	M47
T630NF#10-32R2BX-A KM6515	M46
T630NF#10-32R2BX-A KP6525	M46
T630NF#10-32R2BX-D1 KP6525	M47
T630NF#10-32R3BX-A KM6515	M46
T630NF#10-32R3BX-A KP6525	M46
T630NF02500-28R2BX-A KM6515	M46
T630NF02500-28R2BX-A KP6525	M46
T630NF02500-28R3BX-A KM6515	M46
T630NF02500-28R3BX-A KP6525	M46
T630NF02500-28R3BX-D1 KP6525	M47
T630NF03125-24R2BX-A KM6515	M46
T630NF03125-24R2BX-A KP6525	M46
T630NF03125-24R3BX-A KM6515	M46
T630NF03125-24R3BX-A KP6525	M46
T630NF03125-24R3BX-D1 KP6525	M47
T630NF03750-24R3BX-A KM6515	M46
T630NF03750-24R3BX-A KP6525	M46
T630NF03750-24R3BX-D1 KP6525	M47
T630NF04375-20R3BX-A KM6515	M46
T630NF04375-20R3BX-A KP6525	M46
T630NF04375-20R3BX-D6 KP6525	M47
T630NF05000-20R3BX-A KM6515	M46
T630NF05000-20R3BX-A KP6525	M46
T630NF05000-20R3BX-D6 KP6525	M47
T631M050X080R6HX-D1 KM6515	M51
T631M050X080R6HX-D1 KP6525	M51
T631M060X100R6HX-D1 KM6515	M51
T631M060X100R6HX-D1 KP6525	M51
T631M080X125R6HX-D1 KM6515	M51
T631M080X125R6HX-D1 KP6525	M51
T631M100X150R6HX-D1 KM6515	M51
T631M100X150R6HX-D1 KP6525	M51
T631M120X175R6HX-D6 KM6515	M51
T631M120X175R6HX-D6 KP6525	M51
T631M140X200R6HX-D6 KM6515	M51
T631M140X200R6HX-D6 KP6525	M51
T631M160X200R6HX-D6 KM6515	M51
T631M160X200R6HX-D6 KP6525	M51
T631M180X250R6HX-D6 KM6515	M51
T631M180X250R6HX-D6 KP6525	M51
T631M240X300R6HX-D6 KP6525	M55
T631M240X300R6HX-XL KP6525	M57
T631M300X350R6HX-D6 KP6525	M55
T631M300X350R6HX-XL KP6525	M57
T631M330X350R6HX-D6 KP6525	M55
T631M330X350R6HX-XL KP6525	M57
T631M360X400R6HX-D6 KP6525	M55
T631M360X400R6HX-XL KP6525	M57
T631M420X450R6HX-D6 KP6525	M55
T631M420X450R6HX-XL KP6525	M57
T631MF080X100R6HX-D4 KM6515	M51
T631MF080X100R6HX-D4 KP6525	M51
T631MF100X100R6HX-D4 KM6515	M51
T631MF100X100R6HX-D4 KP6525	M51
T631MF100X125R6HX-D4 KM6515	M51
T631MF100X125R6HX-D4 KP6525	M51
T631MF120X125R6HX-D4 KM6515	M51
T631MF120X125R6HX-D4 KP6525	M51
T631MF120X150R6HX-D4 KM6515	M51
T631MF120X150R6HX-D4 KP6525	M51
T631MF140X125R6HX-D4 KM6515	M51
T631MF140X125R6HX-D4 KP6525	M51
T631MF140X150R6HX-D4 KM6515	M51
T631MF140X150R6HX-D4 KP6525	M51
T631MF160X150R6HX-D4 KM6515	M51
T631MF160X150R6HX-D4 KP6525	M51
T631MF180X150R6HX-D4 KM6515	M51
T631MF180X150R6HX-D4 KP6525	M51
T631NC02500-20R3BX-D1 KP6525	M48
T631NC03125-18R3BX-D1 KP6525	M48
T631NC03750-16R3BX-D1 KP6525	M48
T631NC04375-14R3BX-D6 KP6525	M48
T631NC05000-13R3BX-D6 KP6525	M48
T631NF02500-28R3BX-D1 KP6525	M48
T631NF03125-24R3BX-D1 KP6525	M48
T631NF03750-24R3BX-D1 KP6525	M48
T631NF04375-20R3BX-D6 KP6525	M48
T631NF05000-20R3BX-D6 KP6525	M48
T632M050X080R6HX-D1 KP6525	M52
T632M060X100R6HX-D1 KP6525	M52
T632M080X125R6HX-D1 KP6525	M52
T632M100X150R6HX-D1 KP6525	M52
T632M120X175R6HX-D6 KP6525	M52
T632M140X200R6HX-D6 KP6525	M52
T632MF120X150R6HX-D4 KP6525	M52
T632MF140X150R6HX-D4 KP6525	M52
T632MF160X150R6HX-D4 KP6525	M52
T633M050X080R6HX-D1 KP6525	M53
T633M060X100R6HX-D1 KP6525	M53
T633M080X125R6HX-D1 KP6525	M53
T633M100X150R6HX-D1 KP6525	M53
T633M120X175R6HX-D6 KP6525	M53
T633M140X200R6HX-D6 KP6525	M53
T633MF120X150R6HX-D4 KP6525	M53
T633MF140X150R6HX-D4 KP6525	M53
T633MF160X150R6HX-D4 KP6525	M53
T640M040X070R6HX-D1 KP6525	M120
T640M050X080R6HX-D1 KP6525	M120
T640M060X100R6HX-D1 KP6525	M120
T640M080X125R6HX-D1 KP6525	M120
T640M100X150R6HX-D1 KP6525	M120
T640M120X175R6HX-D6 KP6525	M120
T640M140X200R6HX-D6 KP6525	M120
T640M160X200R6HX-D6 KP6525	M120
T640M180X250R6HX-D6 KP6525	M120
T640M200X250R6HX-D6 KP6525	M120
T640M220X250R6HX-D6 KP6525	M120
T640NC#06-32R2BX-D1 KP6525	M118
T640NC#08-32R2BX-D1 KP6525	M118
T640NC#10-24R2BX-D1 KP6525	M118
T640NC#10-24R3BX-A KP6525	M117
T640NC02500-20R2BX-A KP6525	M117
T640NC02500-20R3BX-A KP6525	M117
T640NC02500-20R3BX-D1 KP6525	M118
T640NC03125-18R2BX-A KP6525	M117
T640NC03125-18R3BX-A KP6525	M117
T640NC03125-18R3BX-D1 KP6525	M118
T640NC03750-16R2BX-A KP6525	M117
T640NC03750-16R3BX-A KP6525	M117
T640NC03750-16R3BX-D1 KP6525	M118
T640NC04375-14R3BX-A KP6525	M117
T640NC04375-14R3BX-D6 KP6525	M118
T640NC05000-13R3BX-A KP6525	M117
T640NC05000-13R3BX-D6 KP6525	M118
T640NC06250-11R3BX-A KP6525	M117
T640NC07500-10R3BX-A KP6525	M117
T640NF#06-40R2BX-D1 KP6525	M118
T640NF#10-32R2BX-D1 KP6525	M118
T640NF#10-32R3BX-A KP6525	M117
T640NF02500-28R2BX-A KP6525	M117
T640NF02500-28R3BX-A KP6525	M117
T640NF02500-28R3BX-D1 KP6525	M118
T640NF03125-24R3BX-A KP6525	M117
T640NF03125-24R3BX-D1 KP6525	M118
T640NF03750-24R3BX-A KP6525	M117
T640NF03750-24R3BX-D1 KP6525	M118
T640NF04375-20R3BX-A KP6525	M117
T640NF04375-20R3BX-D6 KP6525	M118
T640NF05000-20R3BX-A KP6525	M117
T640NF05000-20R3BX-D6 KP6525	M118
T641M050X080R6HX-D1 KP6525	M121
T641M060X100R6HX-D1 KP6525	M121
T641M080X125R6HX-D1 KP6525	M121
T641M100X150R6HX-D1 KP6525	M121
T641M120X175R6HX-D6 KP6525	M121
T641M140X200R6HX-D6 KP6525	M121
T641M160X200R6HX-D6 KP6525	M121
T641M180X250R6HX-D6 KP6525	M121
T641M200X250R6HX-D6 KP6525	M121
T641NC02500-20R3BX-D1 KP6525	M119
T641NC03125-18R3BX-D1 KP6525	M119
T641NC03750-16R3BX-D1 KP6525	M119
T641NC04375-14R3BX-D6 KP6525	M119
T641NC05000-13R3BX-D6 KP6525	M119
T641NF02500-28R3BX-D1 KP6525	M119
T641NF03125-24R3BX-D1 KP6525	M119
T641NF03750-24R3BX-D1 KP6525	M119
T641NF04375-20R3BX-D6 KP6525	M119
T641NF05000-20R3BX-D6 KP6525	M119
T642M050X080R6HX-D1 KP6525	M122
T642M060X100R6HX-D1 KP6525	M122
T642M080X125R6HX-D1 KP6525	M122
T642M100X150R6HX-D1 KP6525	M122
T642M120X175R6HX-D6 KP6525	M122
T642M140X200R6HX-D6 KP6525	M122
T642MF120X150R6HX-D4 KP6525	M122
T642MF140X150R6HX-D4 KP6525	M122
T642MF160X150R6HX-D4 KP6525	M122
T643M050X080R6HX-D1 KP6525	M123
T643M060X100R6HX-D1 KP6525	M123
T643M080X125R6HX-D1 KP6525	M123
T643M100X150R6HX-D1 KP6525	M123
T643M120X175R6HX-D6 KP6525	M123
T643M140X200R6HX-D6 KP6525	M123
T643MF120X150R6HX-D4 KP6525	M123
T643MF140X150R6HX-D4 KP6525	M123
T643MF160X150R6HX-D4 KP6525	M123
T650M240X300R6HX-D6 KP6525	M58
T650M240X300R6HX-XL KP6525	M60
T650M300X350R6HX-D6 KP6525	M58
T650M300X350R6HX-XL KP6525	M60
T650M330X350R6HX-D6 KP6525	M58
T650M330X350R6HX-XL KP6525	M60
T650M360X400R6HX-D6 KP6525	M58
T650M360X400R6HX-XL KP6525	M60
T650M420X450R6HX-D6 KP6525	M58
T650M420X450R6HX-XL KP6525	M60
T651M240X300R6HX-D6 KP6525	M59
T651M240X300R6HX-XL KP6525	M61
T651M300X350R6HX-D6 KP6525	M59
T651M300X350R6HX-XL KP6525	M61
T651M330X350R6HX-D6 KP6525	M59
T651M330X350R6HX-XL KP6525	M61
T651M360X400R6HX-D6 KP6525	M59
T651M360X400R6HX-XL KP6525	M61
T651M420X450R6HX-D6 KP6525	M59
T651M420X450R6HX-XL KP6525	M61
T660M025X045RD3-A KSS20	M19
T660M025X045RD3-A KSSM24	M19
T660M030X050RD3-A KSS20	M19
T660M030X050RD3-A KSSM24	M19
T660M040X070RD4-A KSS20	M19
T660M040X070RD4-A KSSM24	M19
T660M050X080RD4-A KSS20	M19
T660M050X080RD4-A KSSM24	M19
T660M060X100RD5-A KSS20	M19
T660M060X100RD5-A KSSM24	M19
T660M070X100RD5-A KSS20	M19
T660M070X100RD5-A KSSM24	M19
T660M080X125RD5-A KSS20	M19
T660M080X125RD5-A KSSM24	M19
T660M100X150RD6-A KSS20	M19
T660M100X150RD6-A KSSM24	M19
T660M120X175RD6-A KSS20	M19
T660M120X175RD6-A KSSM24	M19
T660MF100X125RD5-A KSS20	M19
T660MF100X125RD5-A KSSM24	M19
T660NC#02-56RH2-A KSS20	M18
T660NC#02-56RH2-A KSSM24	M18
T660NC#04-40RH2-A KSS20	M18
T660NC#04-40RH2-A KSSM24	M18
T660NC#06-32RH2-A KSS20	M18
T660NC#06-32RH2-A KSSM24	M18
T660NC#06-32RH3-A KSS20	M18
T660NC#06-32RH3-A KSSM24	M18
T660NC#08-32RH2-A KSS20	M18
T660NC#08-32RH2-A KSSM24	M18
T660NC#08-32RH3-A KSS20	M18
T660NC#08-32RH3-A KSSM24	M18
T660NC#10-24RH3-A KSS20	M18
T660NC#10-24RH3-A KSSM24	M18
T660NC02500-20RH3-A KSS20	M18
T660NC02500-20RH3-A KSSM24	M18
T660NC02500-20RH5-A KSS20	M18
T660NC02500-20RH5-A KSSM24	M18
T660NC03125-18RH3-A KSS20	M18
T660NC03125-18RH3-A KSSM24	M18
T660NC03125-18RH5-A KSS20	M18
T660NC03125-18RH5-A KSSM24	M18
T660NC03750-16RH3-A KSS20	M18
T660NC03750-16RH3-A KSSM24	M18
T660NC03750-16RH5-A KSS20	M18
T660NC03750-16RH5-A KSSM24	M18
T660NC04375-14RH3-A KSS20	M18
T660NC04375-14RH3-A KSSM24	M18
T660NC05000-13RH3-A KSS20	M18
T660NC05000-13RH3-A KSSM24	M18
T660NC06250-11RH3-A KSSM24	M18
T660NC07500-10RH5-A KSSM24	M18
T660NC10000-08RH5-A KSSM24	M18
T660NF#06-40RH2-A KSS20	M18
T660NF#06-40RH2-A KSSM24	M18
T660NF#08-36RH2-A KSS20	M18
T660NF#08-36RH2-A KSSM24	M18
T660NF#10-32RH2-A KSS20	M18
T660NF#10-32RH2-A KSSM24	M18
T660NF#10-32RH3-A KSS20	M18
T660NF#10-32RH3-A KSSM24	M18
T660NF02500-28RH3-A KSS20	M18
T660NF02500-28RH3-A KSSM24	M18
T660NF02500-28RH4-A KSS20	M18
T660NF02500-28RH4-A KSSM24	M18
T660NF03125-24RH3-A KSS20	M18
T660NF03125-24RH3-A KSSM24	M18
T660NF03125-24RH4-A KSS20	M18
T660NF03125-24RH4-A KSSM24	M18
T660NF03750-24RH3-A KSS20	M18
T660NF03750-24RH3-A KSSM24	M18
T660NF03750-24RH4-A KSS20	M18
T660NF03750-24RH4-A KSSM24	M18
T660NF04375-20RH3-A KSS20	M18
T660NF04375-20RH3-A KSSM24	M18
T660NF05000-20RH3-A KSS20	M18
T660NF05000-20RH3-A KSSM24	M18
T660NF05625-18RH3-A KSSM24	M18
T660NF05625-18RH5-A KSSM24	M18
T660NF06250-18RH3-A KSSM24	M18
T660NF06250-18RH5-A KSSM24	M18
T660NF07500-16RH3-A KSSM24	M18
T660NF07500-16RH5-A KSSM24	M18
T662M025X045RD3-A KSS20	M68
T662M025X045RD3-A KSSM24	M68
T662M030X050RD3-A KSS20	M68
T662M030X050RD3-A KSSM24	M68
T662M040X070RD4-A KSS20	M68
T662M040X070RD4-A KSSM24	M68
T662M050X080RD4-A KSS20	M68
T662M050X080RD4-A KSSM24	M68
T662M060X100RD5-A KSS20	M68
T662M060X100RD5-A KSSM24	M68
T662M070X100RD5-A KSS20	M68
T662M070X100RD5-A KSSM24	M68
T662M080X125RD5-A KSS20	M68
T662M080X125RD5-A KSSM24	M68
T662M100X150RD6-A KSS20	M68
T662M100X150RD6-A KSSM24	M68
T662M120X175RD6-A KSS20	M68
T662M120X175RD6-A KSSM24	M68
T662MF100X125RD5-A KSS20	M68
T662MF100X125RD5-A KSSM24	M68
T662NC#02-56RH2-A KSS20	M66
T662NC#02-56RH2-A KSSM24	M66
T662NC#04-40RH2-A KSS20	M66
T662NC#04-40RH2-A KSSM24	M66
T662NC#06-32RH2-A KSS20	M66
T662NC#06-32RH2-A KSSM24	M66
T662NC#06-32RH3-A KSS20	M66
T662NC#06-32RH3-A KSSM24	M66
T662NC#08-32RH2-A KSS20	M66
T662NC#08-32RH2-A KSSM24	M66
T662NC#08-32RH3-A KSS20	M66
T662NC#08-32RH3-A KSSM24	M66
T662NC#10-24RH3-A KSS20	M66
T662NC#10-24RH3-A KSSM24	M66
T662NC02500-20RH3-A KSS20	M66
T662NC02500-20RH3-A KSSM24	M66
T662NC02500-20RH5-A KSS20	M66
T662NC02500-20RH5-A KSSM24	M66
T662NC03125-18RH3-A KSS20	M66
T662NC03125-18RH3-A KSSM24	M66
T662NC03125-18RH5-A KSS20	M66
T662NC03125-18RH5-A KSSM24	M66
T662NC03750-16RH3-A KSS20	M66
T662NC03750-16RH3-A KSSM24	M66
T662NC03750-16RH5-A KSS20	M66
T662NC03750-16RH5-A KSSM24	M66

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T662NC04375-14RH3-A KSS20	M66
T662NC04375-14RH3-A KSSM24	M66
T662NC04375-14RH5-A KSS20	M66
T662NC04375-14RH5-A KSSM24	M66
T662NC05000-13RH3-A KSS20	M67
T662NC05000-13RH3-A KSSM24	M67
T662NC05000-13RH5-A KSS20	M67
T662NC05000-13RH5-A KSSM24	M67
T662NC06250-11RH3-A KSSM24	M67
T662NC07500-10RH5-A KSSM24	M67
T662NC10000-08RH5-A KSSM24	M67
T662NF#06-40RH2-A KSS20	M66
T662NF#06-40RH2-A KSSM24	M66
T662NF#08-36RH2-A KSS20	M66
T662NF#08-36RH2-A KSSM24	M66
T662NF#10-32RH2-A KSS20	M66
T662NF#10-32RH2-A KSSM24	M66
T662NF#10-32RH3-A KSS20	M66
T662NF#10-32RH3-A KSSM24	M66
T662NF02500-28RH3-A KSS20	M66
T662NF02500-28RH3-A KSSM24	M66
T662NF02500-28RH4-A KSS20	M66
T662NF02500-28RH4-A KSSM24	M66
T662NF02500-28RH5-A KSS20	M66
T662NF02500-28RH5-A KSSM24	M66
T662NF03125-24RH3-A KSS20	M66
T662NF03125-24RH3-A KSSM24	M66
T662NF03125-24RH4-A KSS20	M66
T662NF03125-24RH4-A KSSM24	M66
T662NF03750-24RH3-A KSS20	M66
T662NF03750-24RH3-A KSSM24	M66
T662NF03750-24RH4-A KSS20	M66
T662NF03750-24RH4-A KSSM24	M66
T662NF04375-20RH3-A KSS20	M66
T662NF04375-20RH3-A KSSM24	M66
T662NF04375-20RH5-A KSS20	M66
T662NF04375-20RH5-A KSSM24	M66
T662NF05000-20RH3-A KSS20	M67
T662NF05000-20RH3-A KSSM24	M67
T662NF05000-20RH5-A KSS20	M67
T662NF05000-20RH5-A KSSM24	M67
T662NF05625-18RH3-A KSSM24	M67
T662NF05625-18RH5-A KSSM24	M67
T662NF06250-18RH3-A KSSM24	M67
T662NF06250-18RH5-A KSSM24	M67
T662NF07500-16RH3-A KSSM24	M67
T662NF07500-16RH5-A KSSM24	M67
T672M030X050R6H-DA KSMN34	M21
T672M035X060R6H-DA KSMN34	M21
T672M040X070R6H-DA KSMN34	M21
T672M050X080R6H-DA KSMN34	M21
T672M060X100R6H-DA KSMN34	M21
T672M070X100R6H-DA KSMN34	M21
T672M080X125R6H-DA KSMN34	M21
T672M100X150R6H-DA KSMN34	M21
T672M120X175R6H-DA KSMN34	M21
T672MF080X100R6H-DA KSMN34	M21
T672MF100X125R6H-DA KSMN34	M21
T672MF120X125R6H-DA KSMN34	M21
T672MF120X150R6H-DA KSMN34	M21
T672NC#02-56R2B-DA KSMN34	M20
T672NC#04-40R3B-DA KSMN34	M20
T672NC#05-40R3B-DA KSMN34	M20
T672NC#06-32R2B-DA KSMN34	M20
T672NC#08-32R2B-DA KSMN34	M20
T672NC#10-24R2B-DA KSMN34	M20
T672NC02500-20R2B-DA KSMN34	M20
T672NC02500-20R3B-DA KSMN34	M20
T672NC03125-18R2B-DA KSMN34	M20
T672NC03125-18R3B-DA KSMN34	M20
T672NC03750-16R2B-DA KSMN34	M20
T672NC03750-16R3B-DA KSMN34	M20
T672NC04375-14R2B-DA KSMN34	M20
T672NC04375-14R3B-DA KSMN34	M20
T672NC05000-13R2B-DA KSMN34	M20
T672NC05000-13R3B-DA KSMN34	M20
T672NF#10-32R2B-DA KSMN34	M20
T672NF02500-28R2B-DA KSMN34	M20
T672NF02500-28R3B-DA KSMN34	M20
T672NF03125-24R2B-DA KSMN34	M20
T672NF03125-24R3B-DA KSMN34	M20
T672NF03750-24R2B-DA KSMN34	M20
T672NF03750-24R3B-DA KSMN34	M20
T672NF04375-20R2B-DA KSMN34	M20
T672NF04375-20R3B-DA KSMN34	M20
T672NF05000-20R2B-DA KSMN34	M20
T672NF05000-20R3B-DA KSMN34	M20
T682M030X050R6H-DA KSMN34	M70
T682M035X060R6H-DA KSMN34	M70
T682M040X070R6H-DA KSMN34	M70
T682M050X080R6H-DA KSMN34	M70
T682M060X100R6H-DA KSMN34	M70
T682M070X100R6H-DA KSMN34	M70
T682M080X125R6H-DA KSMN34	M70
T682M100X150R6H-DA KSMN34	M70
T682M120X175R6H-DA KSMN34	M70
T682MF080X100R6H-DA KSMN34	M70
T682MF100X125R6H-DA KSMN34	M70
T682MF120X125R6H-DA KSMN34	M70
T682MF120X150R6H-DA KSMN34	M70
T682NC#02-56R2B-DA KSMN34	M69
T682NC#04-40R3B-DA KSMN34	M69
T682NC#05-40R3B-DA KSMN34	M69
T682NC#06-32R2B-DA KSMN34	M69
T682NC#08-32R2B-DA KSMN34	M69
T682NC#10-24R2B-DA KSMN34	M69
T682NC02500-20R2B-DA KSMN34	M69
T682NC02500-20R3B-DA KSMN34	M69
T682NC03125-18R2B-DA KSMN34	M69
T682NC03125-18R3B-DA KSMN34	M69
T682NC03750-16R2B-DA KSMN34	M69
T682NC03750-16R3B-DA KSMN34	M69
T682NC04375-14R2B-DA KSMN34	M69
T682NC04375-14R3B-DA KSMN34	M69
T682NC05000-13R2B-DA KSMN34	M69
T682NC05000-13R3B-DA KSMN34	M69
T682NF#10-32R2B-DA KSMN34	M69
T682NF02500-28R2B-DA KSMN34	M69
T682NF02500-28R3B-DA KSMN34	M69
T682NF03125-24R2B-DA KSMN34	M69
T682NF03125-24R3B-DA KSMN34	M69
T682NF03750-24R2B-DA KSMN34	M69
T682NF03750-24R3B-DA KSMN34	M69
T682NF04375-20R2B-DA KSMN34	M69
T682NF04375-20R3B-DA KSMN34	M69
T682NF05000-20R2B-DA KSMN34	M69
T682NF05000-20R3B-DA KSMN34	M69
T686M030X050R6H-DA KSMN34	M72
T686M040X070R6H-DA KSMN34	M72
T686M050X080R6H-DA KSMN34	M72
T686M060X100R6H-DA KSMN34	M72
T686M080X125R6H-DA KSMN34	M72
T686M100X150R6H-DA KSMN34	M72
T686MF120X150R6H-DA KSMN34	M72
T686NC#02-56R2B-DA KSMN34	M71
T686NC#04-40R3B-DA KSMN34	M71
T686NC#06-32R2B-DA KSMN34	M71
T686NC#08-32R2B-DA KSMN34	M71
T686NC#10-24R2B-DA KSMN34	M71
T686NC02500-20R3B-DA KSMN34	M71
T686NC03125-18R3B-DA KSMN34	M71
T686NC03750-16R3B-DA KSMN34	M71
T686NC04375-14R3B-DA KSMN34	M71
T686NC05000-13R3B-DA KSMN34	M71
T686NF#10-32R2B-DA KSMN34	M71
T686NF02500-28R3B-DA KSMN34	M71
T686NF03125-24R3B-DA KSMN34	M71
T686NF03750-24R3B-DA KSMN34	M71
T686NF04375-20R3B-DA KSMN34	M71
T686NF05000-20R3B-DA KSMN34	M71
T690M025X045RD3-A KSP27	M17
T690M025X045RD3-A KSS29	M17
T690M030X050RD3-A KSP27	M17
T690M030X050RD3-A KSS29	M17
T690M035X060RD4-A KSP27	M17
T690M035X060RD4-A KSS29	M17
T690M040X070RD4-A KSP27	M17
T690M040X070RD4-A KSS29	M17
T690M050X080RD4-A KSP27	M17
T690M050X080RD4-A KSS29	M17
T690M060X100RD5-A KSP27	M17
T690M060X100RD5-A KSS29	M17
T690M080X125RD5-A KSP27	M17
T690M080X125RD5-A KSS29	M17
T690M100X150RD6-A KSP27	M17
T690M100X150RD6-A KSS29	M17
T690M120X175RD6-A KSP27	M17
T690M120X175RD6-A KSS29	M17
T690MF080X100RD5-A KSP27	M17
T690MF080X100RD5-A KSS29	M17
T690NC#02-56RH2-A KSP27	M15
T690NC#02-56RH2-A KSS29	M15
T690NC#04-40RH2-A KSP27	M15
T690NC#04-40RH2-A KSS29	M15
T690NC#04-40RH3-A KSP27	M15
T690NC#04-40RH3-A KSS29	M15
T690NC#04-40RH4-A KSS29	M15
T690NC#05-40RH2-A KSP27	M15
T690NC#05-40RH2-A KSS29	M15
T690NC#06-32RH3-A KSP27	M15
T690NC#06-32RH3-A KSS29	M15
T690NC#06-32RH5-A KSP27	M15
T690NC#06-32RH5-A KSS29	M15
T690NC#08-32RH3-A KSP27	M15
T690NC#08-32RH3-A KSS29	M15
T690NC#08-32RH4-A KSP27	M15
T690NC#08-32RH4-A KSS29	M15
T690NC#08-32RH5-A KSS29	M15
T690NC#08-32RH6-A KSS29	M15
T690NC#10-24RH3-A KSP27	M15
T690NC#10-24RH3-A KSS29	M15
T690NC#10-24RH5-A KSS29	M15
T690NC02500-20RH3-A KSP27	M15
T690NC02500-20RH3-A KSS29	M15
T690NC02500-20RH5-A KSP27	M15
T690NC02500-20RH5-A KSS29	M15
T690NC03125-18RH3-A KSP27	M15
T690NC03125-18RH3-A KSS29	M15
T690NC03125-18RH5-A KSP27	M15
T690NC03125-18RH5-A KSS29	M15
T690NC03125-18RH7-A KSS29	M15
T690NC03750-16RH3-A KSP27	M16
T690NC03750-16RH3-A KSS29	M16
T690NC03750-16RH5-A KSP27	M16
T690NC03750-16RH5-A KSS29	M16
T690NC03750-16RH7-A KSS29	M16
T690NC04375-14RH3-A KSP27	M16
T690NC04375-14RH3-A KSS29	M16
T690NC05000-13RH3-A KSP27	M16
T690NC05000-13RH3-A KSS29	M16
T690NC05000-13RH5-A KSS29	M16
T690NC05000-13RH7-A KSS29	M16
T690NC06250-11RH3-A KSP27	M16
T690NC06250-11RH3-A KSS29	M16
T690NC07500-10RH3-A KSS29	M16
T690NF#04-48RH2-A KSP27	M15
T690NF#04-48RH2-A KSS29	M15
T690NF#06-40RH2-A KSS29	M15
T690NF#10-32RH2-A KSP27	M15
T690NF#10-32RH2-A KSS29	M15
T690NF#10-32RH3-A KSP27	M15
T690NF#10-32RH3-A KSS29	M15
T690NF#10-32RH4-A KSP27	M15
T690NF#10-32RH4-A KSS29	M15
T690NF#10-32RH5-A KSP27	M15
T690NF#10-32RH5-A KSS29	M15
T690NF#10-32RH6-A KSP27	M15
T690NF#10-32RH6-A KSS29	M15
T690NF02500-28RH3-A KSP27	M15
T690NF02500-28RH3-A KSS29	M15
T690NF02500-28RH4-A KSP27	M15
T690NF02500-28RH4-A KSS29	M15
T690NF02500-28RH5-A KSP27	M15
T690NF02500-28RH5-A KSS29	M15
T690NF02500-28RH6-A KSP27	M15
T690NF02500-28RH6-A KSS29	M15
T690NF02500-28RH7-A KSS29	M15
T690NF03125-24RH3-A KSP27	M15
T690NF03125-24RH3-A KSS29	M15
T690NF03125-24RH4-A KSS29	M15
T690NF03125-24RH5-A KSS29	M16
T690NF03125-24RH6-A KSS29	M16
T690NF03125-24RH7-A KSS29	M16
T690NF03750-24RH3-A KSP27	M16
T690NF03750-24RH3-A KSS29	M16
T690NF03750-24RH4-A KSS29	M16
T690NF03750-24RH5-A KSS29	M16
T690NF03750-24RH6-A KSS29	M16
T690NF03750-24RH7-A KSS29	M16
T690NF04375-20RH3-A KSP27	M16
T690NF04375-20RH3-A KSS29	M16
T690NF04375-20RH5-A KSP27	M16
T690NF04375-20RH5-A KSS29	M16
T690NF05000-20RH3-A KSP27	M16
T690NF05000-20RH3-A KSS29	M16
T690NF05000-20RH5-A KSS29	M16
T690NF05000-20RH7-A KSS29	M16
T690NF06250-18RH3-A KSP27	M16
T690NF06250-18RH3-A KSS29	M16
T690NF07500-16RH3-A KSS29	M16
T692M025X045RD3-A KSP27	M64
T692M025X045RD3-A KSS29	M64
T692M030X050RD3-A KSP27	M64
T692M030X050RD3-A KSS29	M64
T692M040X070RD4-A KSP27	M64
T692M040X070RD4-A KSS29	M64
T692M050X080RD4-A KSP27	M64
T692M050X080RD4-A KSS29	M64
T692M060X100RD5-A KSP27	M64
T692M060X100RD5-A KSS29	M64
T692M080X125RD5-A KSP27	M64
T692M080X125RD5-A KSS29	M64
T692M100X150RD6-A KSP27	M64
T692M100X150RD6-A KSS29	M64
T692M120X175RD6-A KSP27	M64
T692M120X175RD6-A KSS29	M64
T692MF080X100RD5-A KSP27	M64
T692MF080X100RD5-A KSS29	M64
T692MF100X125RD5-A KSP27	M64
T692MF100X125RD5-A KSS29	M64
T692NC#02-56RH2-A KSP27	M62
T692NC#02-56RH2-A KSS29	M62
T692NC#03-48RH2-A KSS29	M62
T692NC#04-40RH2-A KSP27	M62
T692NC#04-40RH2-A KSS29	M62
T692NC#04-40RH3-A KSP27	M62
T692NC#04-40RH3-A KSS29	M62
T692NC#05-40RH2-A KSS29	M62
T692NC#06-32RH2-A KSS29	M62
T692NC#06-32RH3-A KSP27	M62
T692NC#06-32RH3-A KSS29	M62
T692NC#06-32RH5-A KSS29	M62
T692NC#06-32RH7-A KSP27	M62
T692NC#06-32RH7-A KSS29	M62
T692NC#08-32RH2-A KSS29	M62
T692NC#08-32RH3-A KSP27	M62
T692NC#08-32RH3-A KSS29	M62
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T692NC02500-20RH5-A KSS29	M62
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T692NC03125-18RH3-A KSS29	M62
T692NC03125-18RH5-A KSP27	M62
T692NC03125-18RH5-A KSS29	M62
T692NC03125-18RH7-A KSS29	M62
T692NC03750-16RH3-A KSP27	M63
T692NC03750-16RH3-A KSS29	M63
T692NC03750-16RH5-A KSP27	M63
T692NC03750-16RH5-A KSS29	M63
T692NC04375-14RH3-A KSS29	M63
T692NC04375-14RH5-A KSS29	M63
T692NC05000-13RH3-A KSP27	M63
T692NC05000-13RH3-A KSS29	M63
T692NC05000-13RH5-A KSP27	M63
T692NC05000-13RH5-A KSS29	M63
T692NC06250-11RH3-A KSP27	M63
T692NC06250-11RH3-A KSS29	M63
T692NC06250-11RH5-A KSS29	M63
T692NC06250-11RH7-A KSS29	M63
T692NC07500-10RH3-A KSS29	M63

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T692NC07500-10RH5-A KSS29	M63
T692NF#04-40RH5-A KSS29	M62
T692NF#06-40RH2-A KSS29	M62
T692NF#10-32RH2-A KSP27	M62
T692NF#10-32RH2-A KSS29	M62
T692NF#10-32RH3-A KSP27	M62
T692NF#10-32RH3-A KSS29	M62
T692NF#10-32RH5-A KSS29	M62
T692NF#10-32RH7-A KSS29	M62
T692NF02500-28RH3-A KSP27	M62
T692NF02500-28RH3-A KSS29	M62
T692NF02500-28RH5-A KSS29	M62
T692NF02500-28RH6-A KSS29	M62
T692NF02500-28RH7-A KSS29	M62
T692NF03125-24RH3-A KSP27	M62
T692NF03125-24RH3-A KSS29	M62
T692NF03125-24RH4-A KSS29	M63
T692NF03125-24RH5-A KSS29	M63
T692NF03125-24RH6-A KSS29	M63
T692NF03125-24RH7-A KSS29	M63
T692NF03750-24RH3-A KSP27	M63
T692NF03750-24RH3-A KSS29	M63
T692NF03750-24RH4-A KSP27	M63
T692NF03750-24RH4-A KSS29	M63
T692NF03750-24RH5-A KSP27	M63
T692NF03750-24RH5-A KSS29	M63
T692NF03750-24RH6-A KSS29	M63
T692NF04375-20RH3-A KSP27	M63
T692NF04375-20RH3-A KSS29	M63
T692NF04375-20RH5-A KSS29	M63
T692NF05000-20RH3-A KSP27	M63
T692NF05000-20RH3-A KSS29	M63
T692NF05000-20RH5-A KSP27	M63
T692NF05000-20RH5-A KSS29	M63
T692NF05000-20RH7-A KSS29	M63
T692NF06250-18RH3-A KSS29	M63
T692NF07500-16RH3-A KSS29	M63
T692NF07500-16RH5-A KSS29	M63
T694NC#04-40RH2-A KSP27	M65
T694NC#04-40RH2-A KSS29	M65
T694NC#04-40RH3-A KSS29	M65
T694NC#05-40RH2-A KSS29	M65
T694NC#06-32RH3-A KSP27	M65
T694NC#06-32RH3-A KSS29	M65
T694NC#06-32RH5-A KSS29	M65
T694NC#08-32RH3-A KSP27	M65
T694NC#08-32RH3-A KSS29	M65
T694NC#10-24RH3-A KSP27	M65
T694NC#10-24RH3-A KSS29	M65
T694NC02500-20RH3-A KSP27	M65
T694NC02500-20RH3-A KSS29	M65
T694NC02500-20RH5-A KSS29	M65
T694NC03125-18RH3-A KSP27	M65
T694NC03125-18RH3-A KSS29	M65
T694NC03750-16RH3-A KSP27	M65
T694NC03750-16RH3-A KSS29	M65
T694NC03750-16RH5-A KSS29	M65
T694NC04375-14RH5-A KSS29	M65
T694NC05000-13RH5-A KSS29	M65
T694NC06250-11RH3-A KSP27	M65
T694NC06250-11RH3-A KSS29	M65
T694NF#06-40RH2-A KSS29	M65
T694NF#10-32RH3-A KSP27	M65
T694NF#10-32RH3-A KSS29	M65
T694NF02500-28RH3-A KSP27	M65
T694NF02500-28RH3-A KSS29	M65
T694NF02500-28RH4-A KSS29	M65
T694NF03125-24RH3-A KSP27	M65
T694NF03125-24RH3-A KSS29	M65
T694NF03125-24RH4-A KSS29	M65
T694NF03750-24RH3-A KSP27	M65
T694NF03750-24RH3-A KSS29	M65
T694NF03750-24RH4-A KSS29	M65
T694NF04375-20RH3-A KSP27	M65
T694NF04375-20RH3-A KSS29	M65
T694NF04375-20RH5-A KSS29	M65
T694NF05000-20RH5-A KSS29	M65
T694NF06250-18RH3-A KSP27	M65
T694NF06250-18RH3-A KSS29	M65
T820M020X040R6G-D1 KSP39	M31
T820M020X040R6H-D1 KSP32	M31
T820M020X040R6H-D1 KSP39	M31
T820M025X045R6G-D1 KSP39	M31
T820M025X045R6H-D1 KSP39	M31
T820M030X050R6G-D1 KSP39	M31
T820M030X050R6H-D1 KSP32	M31
T820M030X050R6H-D1 KSP39	M31
T820M030X050R6H-J KSU30	M33
T820M030X050R6H-J KSU31	M33
T820M030X050RD3-A KSMN34	M29
T820M030X050RD3-A KSP32	M29
T820M030X050RD3-A KSP39	M29
T820M035X060R6H-D1 KSP39	M31
T820M035X060RD4-A KSP39	M29
T820M040X070R6G-D1 KSP39	M31
T820M040X070R6H-D1 KSP32	M31
T820M040X070R6H-D1 KSP39	M31
T820M040X070R6H-J KSU30	M33
T820M040X070R6H-J KSU31	M33
T820M040X070RD4-A KSMN34	M29
T820M040X070RD4-A KSP32	M29
T820M040X070RD4-A KSP39	M29
T820M050X080R6G-D1 KSP39	M31
T820M050X080R6H-D1 KSP32	M31
T820M050X080R6H-D1 KSP39	M31
T820M050X080R6H-J KSU30	M33
T820M050X080R6H-J KSU31	M33
T820M050X080RD4-A KSMN34	M29
T820M050X080RD4-A KSP32	M29
T820M050X080RD4-A KSP39	M29
T820M060X100R6G-D1 KSP39	M31
T820M060X100R6H-D1 KSP32	M31
T820M060X100R6H-D1 KSP39	M31
T820M060X100R6H-D6 KSP39	M31
T820M060X100R6H-J KSU30	M33
T820M060X100R6H-J KSU31	M33
T820M060X100RD5-A KSMN34	M29
T820M060X100RD5-A KSP32	M29
T820M060X100RD5-A KSP39	M29
T820M070X100R6G-D1 KSP39	M31
T820M070X100R6H-D1 KSP32	M31
T820M070X100R6H-D1 KSP39	M31
T820M070X100RD5-A KSP39	M29
T820M080X125R6G-D1 KSP39	M31
T820M080X125R6H-D1 KSP32	M31
T820M080X125R6H-D1 KSP39	M31
T820M080X125R6H-D6 KSP39	M31
T820M080X125R6H-J KSU30	M33
T820M080X125R6H-J KSU31	M33
T820M080X125RD5-A KSMN34	M29
T820M080X125RD5-A KSP32	M29
T820M080X125RD5-A KSP39	M29
T820M100X150R6G-D1 KSP39	M32
T820M100X150R6H-D1 KSP32	M31
T820M100X150R6H-D1 KSP39	M31
T820M100X150R6H-D6 KSP39	M31
T820M100X150R6H-J KSU30	M33
T820M100X150R6H-J KSU31	M33
T820M100X150RD6-A KSMN34	M29
T820M100X150RD6-A KSP32	M29
T820M100X150RD6-A KSP39	M29
T820M120X175R6G-D6 KSP39	M32
T820M120X175R6H-D6 KSP32	M32
T820M120X175R6H-D6 KSP39	M32
T820M120X175R6H-J KSU30	M33
T820M120X175RD6-A KSMN34	M29
T820M120X175RD6-A KSP32	M29
T820M120X175RD6-A KSP39	M29
T820M140X200R6G-D6 KSP39	M32
T820M140X200R6H-D6 KSP32	M32
T820M140X200R6H-D6 KSP39	M32
T820M140X200R6H-J KSU30	M33
T820M140X200RD7-A KSP39	M29
T820M160X200R6G-D6 KSP39	M32
T820M160X200R6H-D6 KSP32	M32
T820M160X200R6H-D6 KSP39	M32
T820M160X200R6H-J KSU30	M33
T820M160X200RD7-A KSMN34	M29
T820M160X200RD7-A KSP32	M29
T820M160X200RD7-A KSP39	M29
T820M180X250R6H-D6 KSP32	M32
T820M180X250R6H-D6 KSP39	M32
T820M180X250R6H-J KSU30	M33
T820M200X250R6H-D6 KSP32	M32
T820M200X250R6H-D6 KSP39	M32
T820M200X250R6H-J KSU30	M33
T820M220X250R6H-D6 KSP39	M32
T820M240X300R6H-D6 KSP39	M32
T820M270X300R6H-D6 KSP39	M32
T820M300X350R6H-D6 KSP39	M32
T820M330X350R6H-D6 KSP39	M32
T820M360X400R6H-D6 KSP39	M32
T820MF040X050R6H-D4 KSP39	M31
T820MF050X050R6H-D4 KSP39	M31
T820MF060X050R6H-D4 KSP39	M31
T820MF060X075R6H-D4 KSP39	M31
T820MF080X100R6H-D4 KSP39	M31
T820MF080X100RD5-A KSP39	M29
T820MF100X100R6H-D4 KSP39	M31
T820MF100X125R6H-D4 KSP39	M31
T820MF100X125RD5-A KSP39	M29
T820MF120X100R6H-D4 KSP39	M32
T820MF120X125R6H-D4 KSP39	M32
T820MF120X125R6H-J KSU30	M33
T820MF120X125RD6-A KSP39	M29
T820MF120X150R6H-D4 KSP39	M32
T820MF120X150R6H-J KSU30	M33
T820MF120X150RD6-A KSP39	M29
T820MF140X100R6H-D4 KSP39	M32
T820MF140X125R6H-D4 KSP39	M32
T820MF140X150R6H-D4 KSP39	M32
T820MF140X150R6H-J KSU30	M33
T820MF140X150RD6-A KSP39	M29
T820MF160X100R6H-D4 KSP39	M32
T820MF160X150R6H-D4 KSP39	M32
T820MF160X150R6H-J KSU30	M33
T820MF160X150RD6-A KSMN34	M29
T820MF160X150RD6-A KSP39	M29
T820MF180X150R6H-D4 KSP39	M32
T820MF180X200R6H-D4 KSP39	M32
T820MF200X150R6H-D4 KSP39	M32
T820MF200X200R6H-D4 KSP39	M32
T820MF220X150R6H-D4 KSP39	M32
T820MF220X200R6H-D4 KSP39	M32
T820MF240X150R6H-D4 KSP39	M32
T820NC#02-56RH2-A KSP39	M23
T820NC#02-56RH3-A KSP39	M23
T820NC#02-56RH4-A KSP39	M23
T820NC#03-48RH2-A KSP39	M23
T820NC#04-40R2B-D1 KSP39	M26
T820NC#04-40R3B-D1 KSP39	M27
T820NC#04-40RH2-A KSMN34	M23
T820NC#04-40RH2-A KSP32	M23
T820NC#04-40RH2-A KSP39	M23
T820NC#04-40RH2-XL4 KSP39	M34
T820NC#04-40RH2-XL6 KSP39	M35
T820NC#04-40RH3-A KSP39	M23
T820NC#04-40RH4-A KSP39	M23
T820NC#04-40RH5-A KSP32	M23
T820NC#04-40RH5-A KSP39	M23
T820NC#04-40RH6-A KSP39	M23
T820NC#05-40R2B-D1 KSP39	M26
T820NC#05-40RH2-A KSP39	M23
T820NC#06-32R2B-D1 KSP39	M26
T820NC#06-32R3B-D1 KSP39	M27
T820NC#06-32RH2-A KSP39	M23
T820NC#06-32RH3-A KSMN34	M23
T820NC#06-32RH3-A KSP32	M23
T820NC#06-32RH3-A KSP39	M23
T820NC#06-32RH3-XL4 KSP39	M34
T820NC#06-32RH3-XL6 KSP39	M35
T820NC#06-32RH4-A KSP39	M23
T820NC#06-32RH5-A KSP39	M23
T820NC#06-32RH6-A KSP39	M23
T820NC#06-32RH7-A KSP39	M23
T820NC#08-32R2B-D1 KSP39	M26
T820NC#08-32R3B-D1 KSP39	M27
T820NC#08-32RH2-A KSP39	M23
T820NC#08-32RH3-A KSMN34	M23
T820NC#08-32RH3-A KSP32	M23
T820NC#08-32RH3-A KSP39	M23
T820NC#08-32RH3-XL4 KSP39	M34
T820NC#08-32RH3-XL6 KSP39	M35
T820NC#08-32RH4-A KSP32	M23
T820NC#08-32RH5-A KSP39	M23
T820NC#08-32RH6-A KSP39	M23
T820NC#08-32RH7-A KSP39	M23
T820NC#10-24R2B-D1 KSP39	M26
T820NC#10-24RH3-A KSMN34	M24
T820NC#10-24RH3-A KSP32	M24
T820NC#10-24RH3-A KSP39	M24
T820NC#10-24RH3-XL6 KSP39	M35
T820NC#10-24RH4-XL4 KSP39	M34
T820NC#10-24RH5-A KSP39	M24
T820NC#10-24RH7-A KSP39	M24
T820NC02500-20R2B-D1 KSP39	M26
T820NC02500-20RH2-A KSP39	M24
T820NC02500-20RH3-A KSMN34	M24
T820NC02500-20RH3-A KSP32	M24
T820NC02500-20RH3-A KSP39	M24
T820NC02500-20RH3-XL4 KSP39	M34
T820NC02500-20RH3-XL6 KSP39	M35
T820NC02500-20RH5-A KSP39	M24
T820NC02500-20RH7-A KSP39	M24
T820NC03125-18R2B-D1 KSP39	M26
T820NC03125-18RH3-A KSMN34	M24
T820NC03125-18RH3-A KSP32	M24
T820NC03125-18RH3-A KSP39	M24
T820NC03125-18RH3-XL6 KSP39	M35
T820NC03125-18RH5-A KSP39	M24
T820NC03125-18RH7-A KSP39	M24
T820NC03750-16R2B-D1 KSP39	M26
T820NC03750-16RH3-A KSMN34	M24
T820NC03750-16RH3-A KSP32	M24
T820NC03750-16RH3-A KSP39	M24
T820NC03750-16RH3-XL6 KSP39	M35
T820NC03750-16RH5-A KSP39	M24
T820NC03750-16RH7-A KSP39	M24
T820NC04375-14R2B-D6 KSP39	M26
T820NC04375-14RH3-A KSMN34	M24
T820NC04375-14RH3-A KSP39	M24
T820NC04375-14RH3-XL6 KSP39	M35
T820NC04375-14RH5-A KSP39	M24
T820NC05000-13R2B-D6 KSP39	M26
T820NC05000-13RH3-A KSMN34	M24
T820NC05000-13RH3-A KSP32	M24
T820NC05000-13RH3-A KSP39	M24
T820NC05000-13RH3-XL6 KSP39	M35
T820NC05000-13RH5-A KSP39	M24
T820NC05000-13RH7-A KSP39	M24
T820NC05625-12R2B-D6 KSP39	M26
T820NC05625-12RH3-A KSP32	M24
T820NC05625-12RH3-A KSP39	M24
T820NC06250-11R2B-D6 KSP39	M26
T820NC06250-11RH3-A KSMN34	M24
T820NC06250-11RH3-A KSP32	M24
T820NC06250-11RH3-A KSP39	M24
T820NC06250-11RH3-XL6 KSP39	M35
T820NC06250-11RH5-A KSP39	M24
T820NC06250-11RH7-A KSP39	M24
T820NC07500-10R2B-D6 KSP39	M26
T820NC07500-10RH3-A KSMN34	M24
T820NC07500-10RH3-A KSP32	M24
T820NC07500-10RH3-A KSP39	M24
T820NC08750-9R2B-D6 KSP39	M26
T820NC08750-9RH4-A KSMN34	M25
T820NC08750-9RH4-A KSP32	M25
T820NC10000-8R2B-D6 KSP39	M26
T820NC10000-8RH5-A KSMN34	M25
T820NC10000-8RH5-A KSP32	M25
T820NC10000-8RH5-A KSP39	M25
T820NC11250-7RH6-A KSP39	M25
T820NC12500-7RH6-A KSP39	M25
T820NF#04-48RH2-A KSP39	M23
T820NF#04-48RH4-A KSP39	M23
T820NF#06-40R2B-D1 KSP39	M26
T820NF#06-40RH2-A KSP39	M23
T820NF#06-40RH3-A KSP39	M23
T820NF#08-36RH2-A KSP39	M23
T820NF#10-32R2B-D1 KSP39	M26
T820NF#10-32R3B-D1 KSP39	M27
T820NF#10-32RH3-A KSMN34	M23
T820NF#10-32RH3-A KSP32	M23
T820NF#10-32RH3-A KSP39	M23
T820NF#10-32RH3-XL4 KSP39	M34
T820NF#10-32RH3-XL6 KSP39	M35
T820NF#10-32RH4-A KSP39	M23
T820NF#10-32RH5-A KSP39	M23

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T820NF#10-32RH6-A KSP39	M23
T820NF#10-32RH7-A KSP39	M23
T820NF#12-28RH3-A KSP39	M24
T820NF02500-28R2B-D1 KSP39	M26
T820NF02500-28R3B-D1 KSP39	M27
T820NF02500-28RH2-A KSP39	M24
T820NF02500-28RH3-A KSMN34	M24
T820NF02500-28RH3-A KSP32	M24
T820NF02500-28RH3-A KSP39	M24
T820NF02500-28RH3-XL6 KSP39	M35
T820NF02500-28RH4-A KSP39	M24
T820NF02500-28RH5-A KSP39	M24
T820NF02500-28RH6-A KSP39	M24
T820NF02500-28RH7-A KSP39	M24
T820NF03125-24R2B-D1 KSP39	M26
T820NF03125-24R3B-D1 KSP39	M27
T820NF03125-24RH3-A KSMN34	M24
T820NF03125-24RH3-A KSP32	M24
T820NF03125-24RH3-A KSP39	M24
T820NF03125-24RH3-XL6 KSP39	M35
T820NF03125-24RH4-A KSP39	M24
T820NF03125-24RH5-A KSP39	M24
T820NF03125-24RH6-A KSP39	M24
T820NF03125-24RH7-A KSP39	M24
T820NF03750-24R2B-D1 KSP39	M26
T820NF03750-24R3B-D1 KSP39	M27
T820NF03750-24RH3-A KSMN34	M24
T820NF03750-24RH3-A KSP32	M24
T820NF03750-24RH3-A KSP39	M24
T820NF03750-24RH3-XL6 KSP39	M35
T820NF03750-24RH4-A KSP39	M24
T820NF03750-24RH5-A KSP39	M24
T820NF03750-24RH6-A KSP39	M24
T820NF03750-24RH7-A KSP39	M24
T820NF04375-20R2B-D6 KSP39	M26
T820NF04375-20R3B-D6 KSP39	M27
T820NF04375-20RH3-A KSMN34	M24
T820NF04375-20RH3-A KSP39	M24
T820NF04375-20RH3-XL6 KSP39	M35
T820NF04375-20RH5-A KSP39	M24
T820NF04375-20RH6-A KSP39	M24
T820NF04375-20RH7-A KSP39	M24
T820NF05000-20R2B-D6 KSP39	M26
T820NF05000-20R3B-D6 KSP39	M27
T820NF05000-20RH3-A KSMN34	M24
T820NF05000-20RH3-A KSP32	M24
T820NF05000-20RH3-A KSP39	M24
T820NF05000-20RH3-XL6 KSP39	M35
T820NF05000-20RH5-A KSP39	M24
T820NF05000-20RH6-A KSP39	M24
T820NF05000-20RH7-A KSP39	M24
T820NF05625-18R2B-D6 KSP39	M26
T820NF05625-18RH3-A KSMN34	M24
T820NF05625-18RH3-A KSP39	M24
T820NF06250-18R2B-D6 KSP39	M26
T820NF06250-18RH3-A KSP32	M24
T820NF06250-18RH3-A KSP39	M24
T820NF06250-18RH5-A KSP32	M24
T820NF06250-18RH5-A KSP39	M24
T820NF06250-18RH6-A KSP39	M24
T820NF07500-16R2B-D6 KSP39	M26
T820NF07500-16RH3-A KSMN34	M25
T820NF07500-16RH3-A KSP32	M25
T820NF07500-16RH3-A KSP39	M25
T820NF08750-14R2B-D6 KSP39	M26
T820NF08750-14RH4-A KSP39	M25
T820NF10000-12R2B-D6 KSP39	M26
T820NF10000-12RH4-A KSP39	M25
T820NF11250-12RH5-A KSP39	M25
T822M030X050RD3-A KSMN34	M30
T822M030X050RD3-A KSP32	M30
T822M030X050RD3-A KSP39	M30
T822M035X060RD4-A KSP39	M30
T822M040X070RD4-A KSMN34	M30
T822M040X070RD4-A KSP32	M30
T822M040X070RD4-A KSP39	M30
T822M050X080RD4-A KSMN34	M30
T822M050X080RD4-A KSP32	M30
T822M050X080RD4-A KSP39	M30
T822NC#05-40RH2-A KSP39	M28
T822NC#06-32RH2-A KSP39	M28
T822NC#06-32RH3-A KSMN34	M28
T822NC#06-32RH3-A KSP32	M28
T822NC#06-32RH3-A KSP39	M28
T822NC#06-32RH4-A KSP39	M28
T822NC#06-32RH5-A KSP39	M28
T822NC#06-32RH6-A KSP39	M28
T822NC#06-32RH7-A KSP39	M28
T822NC#08-32RH2-A KSP39	M28
T822NC#08-32RH3-A KSMN34	M28
T822NC#08-32RH3-A KSP32	M28
T822NC#08-32RH3-A KSP39	M28
T822NC#08-32RH4-A KSP32	M28
T822NC#08-32RH5-A KSP39	M28
T822NC#08-32RH6-A KSP39	M28
T822NC#08-32RH7-A KSP39	M28
T822NC#10-24RH3-A KSMN34	M28
T822NC#10-24RH3-A KSP32	M28
T822NC#10-24RH3-A KSP39	M28
T822NC#10-24RH5-A KSP39	M28
T822NC#10-24RH7-A KSP39	M28
T822NF#06-40RH2-A KSP39	M28
T822NF#06-40RH3-A KSP39	M28
T822NF#08-36RH2-A KSP39	M28
T822NF#10-32RH3-A KSMN34	M28
T822NF#10-32RH3-A KSP32	M28
T822NF#10-32RH3-A KSP39	M28
T822NF#10-32RH4-A KSP39	M28
T822NF#10-32RH5-A KSP39	M28
T822NF#10-32RH6-A KSP39	M28
T822NF#10-32RH7-A KSP39	M28
T822NF#12-28RH3-A KSP39	M28
T830M020X040R6G-D1 KSP39	M92
T830M020X040R6H-D1 KSP39	M92
T830M025X045R6G-D1 KSP39	M92
T830M025X045R6H-D1 KSP39	M92
T830M030X050R6G-D1 KSP39	M92
T830M030X050R6H-D1 KSP32	M92
T830M030X050R6H-D1 KSP39	M92
T830M030X050R6H-J KSU30	M98
T830M030X050R6H-J KSU31	M98
T830M030X050RD3-A KSP32	M88
T830M030X050RD3-A KSP39	M88
T830M035X060R6H-D1 KSP39	M92
T830M035X060RD4-A KSP39	M88
T830M040X070R6G-D1 KSP39	M92
T830M040X070R6H-D1 KSP32	M92
T830M040X070R6H-D1 KSP39	M92
T830M040X070R6H-J KSU30	M98
T830M040X070R6H-J KSU31	M98
T830M040X070RD4-A KSP32	M88
T830M040X070RD4-A KSP39	M88
T830M050X080R6G-D1 KSP39	M92
T830M050X080R6H-D1 KSP32	M92
T830M050X080R6H-D1 KSP39	M92
T830M050X080R6H-J KSU30	M98
T830M050X080R6H-J KSU31	M98
T830M050X080RD4-A KSMN34	M88
T830M050X080RD4-A KSP32	M88
T830M050X080RD4-A KSP39	M88
T830M060X100R6G-D1 KSP39	M92
T830M060X100R6H-D1 KSP32	M92
T830M060X100R6H-D1 KSP39	M92
T830M060X100R6H-D6 KSP39	M92
T830M060X100R6H-J KSU30	M98
T830M060X100R6H-J KSU31	M98
T830M060X100RD5-A KSMN34	M88
T830M060X100RD5-A KSP32	M88
T830M060X100RD5-A KSP39	M88
T830M070X100R6H-D1 KSP39	M92
T830M070X100RD5-A KSP39	M88
T830M080X125R6G-D1 KSP39	M92
T830M080X125R6H-D1 KSP32	M92
T830M080X125R6H-D1 KSP39	M92
T830M080X125R6H-D6 KSP39	M92
T830M080X125R6H-J KSU30	M98
T830M080X125R6H-J KSU31	M98
T830M080X125RD5-A KSMN34	M88
T830M080X125RD5-A KSP32	M88
T830M080X125RD5-A KSP39	M88
T830M100X150R6G-D1 KSP39	M92
T830M100X150R6H-D1 KSP32	M92
T830M100X150R6H-D1 KSP39	M92
T830M100X150R6H-D6 KSP39	M92
T830M100X150R6H-J KSU30	M98
T830M100X150R6H-J KSU31	M98
T830M100X150RD6-A KSMN34	M88
T830M100X150RD6-A KSP32	M88
T830M100X150RD6-A KSP39	M88
T830M120X175R6G-D6 KSP39	M93
T830M120X175R6H-D6 KSP32	M93
T830M120X175R6H-D6 KSP39	M93
T830M120X175R6H-J KSU30	M98
T830M120X175RD6-A KSMN34	M88
T830M120X175RD6-A KSP32	M88
T830M120X175RD6-A KSP39	M88
T830M140X200R6G-D6 KSP39	M93
T830M140X200R6H-D6 KSP32	M93
T830M140X200R6H-D6 KSP39	M93
T830M140X200R6H-J KSU30	M98
T830M140X200RD7-A KSP39	M88
T830M160X200R6G-D6 KSP39	M93
T830M160X200R6H-D6 KSP39	M93
T830M160X200R6H-J KSU30	M98
T830M160X200RD7-A KSP39	M88
T830M180X250R6H-D6 KSP39	M93
T830M180X250R6H-J KSU30	M98
T830M180X250RD7-A KSP39	M88
T830M200X250R6H-D6 KSP39	M93
T830M200X250R6H-J KSU30	M98
T830M220X250R6H-D6 KSP39	M93
T830M240X300R6H-D6 KSP39	M93
T830M270X300R6H-D6 KSP39	M93
T830M300X350R6H-D6 KSP39	M93
T830M330X350R6H-D6 KSP39	M93
T830M360X400R6H-D6 KSP39	M93
T830MF080X100R6H-D4 KSP32	M92
T830MF080X100R6H-D4 KSP39	M92
T830MF080X100RD5-A KSP39	M88
T830MF100X125R6H-D4 KSP32	M92
T830MF100X125R6H-D4 KSP39	M92
T830MF100X125RD5-A KSP39	M88
T830MF120X125R6H-D4 KSP39	M93
T830MF120X125R6H-J KSU30	M98
T830MF120X125RD5-A KSP39	M88
T830MF120X150R6H-D4 KSP32	M93
T830MF120X150R6H-D4 KSP39	M93
T830MF120X150R6H-J KSU30	M98
T830MF120X150RD5-A KSP39	M88
T830MF140X150R6H-D4 KSP32	M93
T830MF140X150R6H-D4 KSP39	M93
T830MF140X150R6H-J KSU30	M98
T830MF140X150RD6-A KSP39	M88
T830MF160X150R6H-D4 KSP39	M93
T830MF160X150R6H-J KSU30	M98
T830MF160X150RD6-A KSP39	M88
T830MF180X150R6H-D4 KSP39	M93
T830MF180X150RD6-A KSP39	M88
T830NC#02-56RH2-A KSP39	M74
T830NC#03-48RH2-A KSP39	M74
T830NC#04-40R2B-D1 KSP39	M84
T830NC#04-40R3B-D1 KSP39	M87
T830NC#04-40RH2-A KSMN34	M74
T830NC#04-40RH2-A KSP32	M74
T830NC#04-40RH2-A KSP39	M74
T830NC#04-40RH2-XL4 KSP39	M99
T830NC#04-40RH2-XL6 KSP39	M100
T830NC#04-40RH3-A KSP39	M74
T830NC#04-40RH4-A KSP39	M74
T830NC#04-40RH5-A KSP39	M74
T830NC#05-40R2B-D1 KSP39	M84
T830NC#05-40RH2-A KSP39	M74
T830NC#06-32R2B-D1 KSP39	M84
T830NC#06-32R3B-D1 KSP39	M87
T830NC#06-32RH2-A KSP39	M74
T830NC#06-32RH3-A KSMN34	M74
T830NC#06-32RH3-A KSP32	M74
T830NC#06-32RH3-A KSP39	M74
T830NC#06-32RH3-XL4 KSP39	M99
T830NC#06-32RH3-XL6 KSP39	M100
T830NC#06-32RH4-A KSP39	M74
T830NC#06-32RH5-A KSP39	M74
T830NC#06-32RH7-A KSP39	M74
T830NC#08-32R2B-D1 KSP39	M84
T830NC#08-32R3B-D1 KSP39	M87
T830NC#08-32RH2-A KSP39	M74
T830NC#08-32RH3-A KSMN34	M74
T830NC#08-32RH3-A KSP32	M74
T830NC#08-32RH3-A KSP39	M74
T830NC#08-32RH3-XL4 KSP39	M99
T830NC#08-32RH3-XL6 KSP39	M100
T830NC#08-32RH4-A KSP39	M74
T830NC#08-32RH5-A KSP39	M74
T830NC#08-32RH6-A KSP39	M74
T830NC#08-32RH7-A KSP39	M74
T830NC#10-24R2B-D1 KSP39	M84
T830NC#10-24RH2-A KSP39	M74
T830NC#10-24RH3-A KSMN34	M74
T830NC#10-24RH3-A KSP32	M74
T830NC#10-24RH3-A KSP39	M74
T830NC#10-24RH3-XL6 KSP39	M100
T830NC#10-24RH4-A KSP39	M74
T830NC#10-24RH5-A KSP39	M75
T830NC#10-24RH7-A KSP39	M75
T830NC#12-24RH3-A KSP39	M75
T830NC02500-20R2B-D1 KSP39	M84
T830NC02500-20RH2-A KSP39	M75
T830NC02500-20RH3-A KSMN34	M75
T830NC02500-20RH3-A KSP32	M75
T830NC02500-20RH3-A KSP39	M75
T830NC02500-20RH3-XL4 KSP39	M99
T830NC02500-20RH3-XL6 KSP39	M100
T830NC02500-20RH5-A KSP39	M75
T830NC02500-20RH7-A KSP39	M75
T830NC03125-18R2B-D1 KSP39	M84
T830NC03125-18RH3-A KSMN34	M75
T830NC03125-18RH3-A KSP32	M75
T830NC03125-18RH3-A KSP39	M75
T830NC03125-18RH3-XL6 KSP39	M100
T830NC03125-18RH5-A KSP39	M75
T830NC03125-18RH7-A KSP39	M75
T830NC03750-16R2B-D1 KSP39	M84
T830NC03750-16RH3-A KSMN34	M75
T830NC03750-16RH3-A KSP32	M75
T830NC03750-16RH3-A KSP39	M75
T830NC03750-16RH3-XL6 KSP39	M100
T830NC03750-16RH5-A KSP39	M75
T830NC03750-16RH7-A KSP39	M75
T830NC04375-14R2B-D6 KSP39	M84
T830NC04375-14RH3-A KSMN34	M75
T830NC04375-14RH3-A KSP32	M75
T830NC04375-14RH3-A KSP39	M75
T830NC04375-14RH3-XL6 KSP39	M100
T830NC04375-14RH5-A KSP39	M75
T830NC04375-14RH7-A KSP39	M75
T830NC05000-13R2B-D6 KSP39	M84
T830NC05000-13RH3-A KSMN34	M75
T830NC05000-13RH3-A KSP32	M75
T830NC05000-13RH3-A KSP39	M75
T830NC05000-13RH3-XL6 KSP39	M100
T830NC05000-13RH5-A KSP39	M75
T830NC05000-13RH7-A KSP39	M75
T830NC05625-12R2B-D6 KSP39	M84
T830NC05625-12RH3-A KSMN34	M75
T830NC05625-12RH3-A KSP32	M75
T830NC05625-12RH3-A KSP39	M75
T830NC05625-12RH5-A KSP39	M76
T830NC06250-11R2B-D6 KSP39	M84
T830NC06250-11RH3-A KSMN34	M76
T830NC06250-11RH3-A KSP32	M76
T830NC06250-11RH3-A KSP39	M76
T830NC06250-11RH3-XL6 KSP39	M100
T830NC06250-11RH5-A KSP39	M76
T830NC06250-11RH7-A KSP39	M76
T830NC07500-10R2B-D6 KSP39	M84
T830NC07500-10RH3-A KSMN34	M76
T830NC07500-10RH3-A KSP32	M76
T830NC07500-10RH3-A KSP39	M76
T830NC07500-10RH5-A KSP39	M76
T830NC08750-9RH4-A KSMN34	M76
T830NC08750-9RH4-A KSP39	M76
T830NC10000-8R2B-D6 KSP39	M84
T830NC10000-8RH4-A KSMN34	M76
T830NC10000-8RH5-A KSP32	M76
T830NC10000-8RH5-A KSP39	M76
T830NC11250-7RH6-A KSP39	M76
T830NF#04-48RH2-A KSP39	M74
T830NF#06-40R2B-D1 KSP39	M84

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T830NF#06-40RH2-A KSP39	M74
T830NF#06-40RH3-A KSP39	M74
T830NF#10-32R2B-D1 KSP39	M84
T830NF#10-32R3B-D1 KSP39	M87
T830NF#10-32RH2-A KSP39	M75
T830NF#10-32RH3-A KSMN34	M75
T830NF#10-32RH3-A KSP32	M75
T830NF#10-32RH3-A KSP39	M75
T830NF#10-32RH3-XL4 KSP39	M99
T830NF#10-32RH3-XL6 KSP39	M100
T830NF#10-32RH4-A KSP39	M75
T830NF#10-32RH5-A KSP39	M75
T830NF#10-32RH6-A KSP39	M75
T830NF#10-32RH7-A KSP39	M75
T830NF#12-28RH3-A KSP39	M75
T830NF02500-28R2B-D1 KSP39	M84
T830NF02500-28R3B-D1 KSP39	M87
T830NF02500-28RH2-A KSP39	M75
T830NF02500-28RH3-A KSMN34	M75
T830NF02500-28RH3-A KSP32	M75
T830NF02500-28RH3-A KSP39	M75
T830NF02500-28RH4-A KSP39	M75
T830NF02500-28RH5-A KSP39	M75
T830NF02500-28RH6-A KSP39	M75
T830NF02500-28RH7-A KSP39	M75
T830NF03125-24R2B-D1 KSP39	M84
T830NF03125-24R3B-D1 KSP39	M87
T830NF03125-24RH3-A KSMN34	M75
T830NF03125-24RH3-A KSP32	M75
T830NF03125-24RH3-A KSP39	M75
T830NF03125-24RH3-XL6 KSP39	M100
T830NF03125-24RH5-A KSP39	M75
T830NF03125-24RH7-A KSP39	M75
T830NF03750-24R2B-D1 KSP39	M84
T830NF03750-24R3B-D1 KSP39	M87
T830NF03750-24RH3-A KSMN34	M75
T830NF03750-24RH3-A KSP32	M75
T830NF03750-24RH3-A KSP39	M75
T830NF03750-24RH3-XL6 KSP39	M100
T830NF03750-24RH4-A KSP39	M75
T830NF03750-24RH5-A KSP39	M75
T830NF03750-24RH6-A KSP39	M75
T830NF04375-20R2B-D6 KSP39	M84
T830NF04375-20R3B-D6 KSP39	M87
T830NF04375-20RH3-A KSMN34	M75
T830NF04375-20RH3-A KSP32	M75
T830NF04375-20RH3-A KSP39	M75
T830NF04375-20RH3-XL6 KSP39	M100
T830NF04375-20RH5-A KSP39	M75
T830NF04375-20RH6-A KSP39	M75
T830NF04375-20RH7-A KSP39	M75
T830NF05000-20R2B-D6 KSP39	M84
T830NF05000-20R3B-D6 KSP39	M87
T830NF05000-20RH3-A KSMN34	M75
T830NF05000-20RH3-A KSP32	M75
T830NF05000-20RH3-A KSP39	M75
T830NF05000-20RH3-XL6 KSP39	M100
T830NF05000-20RH5-A KSP39	M75
T830NF05000-20RH6-A KSP39	M75
T830NF05000-20RH7-A KSP39	M75
T830NF05625-18R2B-D6 KSP39	M84
T830NF05625-18RH3-A KSMN34	M76
T830NF05625-18RH3-A KSP39	M76
T830NF05625-18RH5-A KSP39	M76
T830NF06250-18R2B-D6 KSP39	M84
T830NF06250-18RH3-A KSMN34	M76
T830NF06250-18RH3-A KSP32	M76
T830NF06250-18RH3-A KSP39	M76
T830NF06250-18RH5-A KSP39	M76
T830NF06250-18RH6-A KSP39	M76
T830NF06250-18RH7-A KSP39	M76
T830NF07500-16R2B-D6 KSP39	M84
T830NF07500-16RH3-A KSMN34	M76
T830NF07500-16RH3-A KSP32	M76
T830NF07500-16RH3-A KSP39	M76
T830NF07500-16RH5-A KSP39	M76
T830NF08750-14R2B-D6 KSP39	M84
T830NF08750-14RH4-A KSMN34	M76
T830NF08750-14RH4-A KSP39	M76
T830NF08750-9R2B-D6 KSP39	M84
T830NF1000-12RH4-A KSP39	M76
T830NF10000-12R2B-D6 KSP39	M84
T832M030X050R6H-D1 KSP32	M94
T832M030X050R6H-D1 KSP39	M94
T832M030X050RD3-A KSP39	M89
T832M035X060RD4-A KSP39	M89
T832M040X070R6H-D1 KSP32	M94
T832M040X070R6H-D1 KSP39	M94
T832M040X070RD4-A KSP39	M89
T832M050X080R6H-D1 KSP32	M94
T832M050X080R6H-D1 KSP39	M94
T832M050X080RD4-A KSP39	M89
T832M060X100R6H-D1 KSP32	M94
T832M060X100R6H-D1 KSP39	M94
T832M060X100RD5-A KSP39	M89
T832M070X100RD5-A KSP39	M89
T832M080X125R6H-D1 KSP32	M94
T832M080X125R6H-D1 KSP39	M94
T832M080X125RD5-A KSP39	M89
T832M100X150R6H-D1 KSP32	M94
T832M100X150R6H-D1 KSP39	M94
T832M100X150RD6-A KSP39	M89
T832M120X175R6H-D6 KSP32	M94
T832M120X175R6H-D6 KSP39	M94
T832M120X175RD6-A KSP39	M89
T832M140X200R6H-D6 KSP32	M94
T832M140X200R6H-D6 KSP39	M94
T832M140X200RD7-A KSP39	M89
T832M160X200R6H-D6 KSP39	M94
T832M160X200RD7-A KSP39	M89
T832M180X250R6H-D6 KSP32	M94
T832M180X250R6H-D6 KSP39	M94
T832M200X250R6H-D6 KSP32	M94
T832M200X250R6H-D6 KSP39	M94
T832MF080X100RD6-A KSP32	M94
T832MF080X100R6H-D4 KSP39	M94
T832MF080X100RD5-A KSP39	M89
T832MF100X125R6H-D4 KSP32	M94
T832MF100X125R6H-D4 KSP39	M94
T832MF100X125RD5-A KSP39	M89
T832MF120X125RD5-A KSP39	M89
T832MF120X150R6H-D4 KSP32	M94
T832MF120X150R6H-D4 KSP39	M94
T832MF120X150RD5-A KSP39	M89
T832MF140X150R6H-D4 KSP32	M94
T832MF140X150R6H-D4 KSP39	M94
T832MF140X150RD6-A KSP39	M89
T832MF160X150RD6-A KSP39	M89
T832MF180X150RD6-A KSP39	M89
T832NC#04-40RH2-A KSP39	M77
T832NC#04-40RH2-XL6 KSP39	M101
T832NC#04-40RH3-A KSP39	M77
T832NC#04-40RH5-A KSP39	M77
T832NC#05-40RH2-A KSP39	M77
T832NC#06-32RH2-A KSP39	M77
T832NC#06-32RH3-A KSP39	M77
T832NC#06-32RH3-XL6 KSP39	M101
T832NC#06-32RH5-A KSP39	M77
T832NC#08-32RH2-A KSP39	M77
T832NC#08-32RH3-A KSP39	M77
T832NC#08-32RH3-XL6 KSP39	M101
T832NC#08-32RH5-A KSP39	M77
T832NC#10-24RH3-A KSP39	M77
T832NC#10-24RH5-A KSP39	M77
T832NC02500-20RH3-A KSP39	M77
T832NC02500-20RH3-XL6 KSP39	M101
T832NC02500-20RH5-A KSP39	M77
T832NC03125-18RH3-A KSP39	M77
T832NC03125-18RH3-XL6 KSP39	M101
T832NC03125-18RH5-A KSP39	M77
T832NC03750-16RH3-A KSP39	M77
T832NC03750-16RH3-XL6 KSP39	M101
T832NC03750-16RH5-A KSP39	M77
T832NC04375-14RH3-A KSP39	M78
T832NC04375-14RH3-XL6 KSP39	M101
T832NC04375-14RH5-A KSP39	M78
T832NC05000-13RH3-A KSP39	M78
T832NC05000-13RH5-A KSP39	M78
T832NC05625-12RH3-A KSP39	M78
T832NC05625-12RH5-A KSP39	M78
T832NC06250-11RH3-A KSP39	M78
T832NC06250-11RH5-A KSP39	M78
T832NC07500-10RH3-A KSP39	M78
T832NF#06-40RH2-A KSP39	M77
T832NF#06-40RH3-A KSP39	M77
T832NF#10-32RH3-A KSP39	M77
T832NF#10-32RH3-XL6 KSP39	M101
T832NF#10-32RH5-A KSP39	M77
T832NF02500-28RH3-A KSP39	M77
T832NF02500-28RH3-XL6 KSP39	M101
T832NF02500-28RH5-A KSP39	M77
T832NF03125-24RH3-A KSP39	M77
T832NF03125-24RH5-A KSP39	M77
T832NF03750-24RH3-A KSP39	M77
T832NF03750-24RH3-XL6 KSP39	M101
T832NF03750-24RH4-A KSP39	M77
T832NF03750-24RH5-A KSP39	M78
T832NF04375-20RH3-A KSP39	M78
T832NF04375-20RH5-A KSP39	M78
T832NF05000-20RH3-A KSP39	M78
T832NF05625-18RH3-A KSP39	M78
T832NF06250-18RH3-A KSP39	M78
T832NF06250-18RH5-A KSP39	M78
T832NF07500-16RH3-A KSP39	M78
T834M030X050RD3-A KSP32	M88
T834M030X050RD3-A KSP39	M88
T834M035X060RD4-A KSP39	M88
T834NC#05-40RH2-A KSP39	M74
T834NC#06-32RH2-A KSP39	M74
T834NC#06-32RH3-A KSMN34	M74
T834NC#06-32RH3-A KSP32	M74
T834NC#06-32RH3-A KSP39	M74
T834NC#06-32RH4-A KSP39	M74
T834NC#06-32RH5-A KSP39	M74
T834NC#06-32RH7-A KSP39	M74
T834NF#06-40RH2-A KSP39	M74
T834NF#06-40RH3-A KSP39	M74
T838M020X040R6H-D1 KSP39	M95
T838M020X040R6H-D1 KSU31	M95
T838M030X050R6H-D1 KSP39	M95
T838M030X050R6H-D1 KSU31	M95
T838M030X050RD3-A KSP32	M90
T838M030X050RD3-A KSP39	M90
T838M035X060RD4-A KSP39	M90
T838M040X070R6H-D1 KSP39	M95
T838M040X070R6H-D1 KSU31	M95
T838M040X070RD4-A KSP32	M90
T838M040X070RD4-A KSP39	M90
T838M050X080R6H-D1 KSP39	M95
T838M050X080R6H-D1 KSU31	M95
T838M050X080R6H-D6 KSP39	M95
T838M050X080R6H-D6 KSU31	M95
T838M050X080RD4-A KSP32	M90
T838M050X080RD4-A KSP39	M90
T838M060X100R6H-D1 KSP39	M95
T838M060X100R6H-D1 KSU31	M95
T838M060X100R6H-D6 KSP39	M95
T838M060X100R6H-D6 KSU31	M95
T838M060X100RD5-A KSP32	M90
T838M060X100RD5-A KSP39	M90
T838M070X100RD5-A KSP39	M90
T838M080X125R6H-D1 KSP39	M95
T838M080X125R6H-D1 KSU31	M95
T838M080X125R6H-D6 KSP39	M95
T838M080X125R6H-D6 KSU31	M95
T838M080X125RD5-A KSP32	M90
T838M080X125RD5-A KSP39	M90
T838M100X150R6H-D1 KSP39	M95
T838M100X150R6H-D1 KSU31	M95
T838M100X150R6H-D6 KSP39	M95
T838M100X150R6H-D6 KSU31	M95
T838M100X150RD6-A KSP32	M90
T838M100X150RD6-A KSP39	M90
T838M120X175R6H-D6 KSP39	M95
T838M120X175R6H-D6 KSU31	M95
T838M120X175RD6-A KSP32	M90
T838M120X175RD6-A KSP39	M90
T838M140X200R6H-D6 KSP39	M95
T838M140X200R6H-D6 KSU31	M95
T838M140X200RD7-A KSP39	M90
T838M160X200R6H-D6 KSP39	M95
T838M160X200R6H-D6 KSU31	M95
T838M160X200RD7-A KSP39	M90
T838M180X250R6H-D6 KSP39	M96
T838M180X250R6H-D6 KSU31	M96
T838M180X250RD7-A KSP39	M90
T838M200X250R6H-D6 KSP39	M96
T838M200X250R6H-D6 KSU31	M96
T838M220X250R6H-D6 KSP39	M96
T838M220X250R6H-D6 KSU31	M96
T838M240X300R6H-D6 KSP39	M96
T838M240X300R6H-D6 KSU31	M96
T838M270X300R6H-D6 KSP39	M96
T838M270X300R6H-D6 KSU31	M96
T838M300X350R6H-D6 KSP39	M96
T838M300X350R6H-D6 KSU31	M96
T838M330X350R6H-D6 KSP39	M96
T838M330X350R6H-D6 KSU31	M96
T838M360X400R6H-D6 KSP39	M96
T838M360X400R6H-D6 KSU31	M96
T838M390X400R6H-D6 KSP39	M96
T838M390X400R6H-D6 KSU31	M96
T838M420X450R6H-D6 KSP39	M96
T838M420X450R6H-D6 KSU31	M96
T838M450X450R6H-D6 KSP39	M96
T838M450X450R6H-D6 KSU31	M96
T838M480X500R6H-D6 KSP39	M96
T838M480X500R6H-D6 KSU31	M96
T838M520X500R6H-D6 KSP39	M96
T838M520X500R6H-D6 KSU31	M96
T838MF060X075R6H-D4 KSP39	M95
T838MF060X075R6H-D4 KSU31	M95
T838MF080X075R6H-D4 KSP39	M95
T838MF080X075R6H-D4 KSU31	M95
T838MF080X100R6H-D4 KSP39	M95
T838MF080X100R6H-D4 KSU31	M95
T838MF080X100RD5-A KSP39	M90
T838MF100X075R6H-D4 KSP39	M95
T838MF100X075R6H-D4 KSU31	M95
T838MF100X100R6H-D4 KSP39	M95
T838MF100X100R6H-D4 KSU31	M95
T838MF100X125R6H-D4 KSP39	M95
T838MF100X125R6H-D4 KSU31	M95
T838MF100X125RD5-A KSP39	M90
T838MF120X100R6H-D4 KSP39	M95
T838MF120X100R6H-D4 KSU31	M95
T838MF120X125R6H-D4 KSP39	M95
T838MF120X125R6H-D4 KSU31	M95
T838MF120X125RD5-A KSP39	M90
T838MF120X150R6H-D4 KSP39	M95
T838MF120X150R6H-D4 KSU31	M95
T838MF120X150RD5-A KSP39	M90
T838MF140X100R6H-D4 KSP39	M95
T838MF140X100R6H-D4 KSU31	M95
T838MF140X125R6H-D4 KSP39	M95
T838MF140X125R6H-D4 KSU31	M95
T838MF140X150R6H-D4 KSP39	M95
T838MF140X150R6H-D4 KSU31	M95
T838MF140X150RD6-A KSP39	M90
T838MF160X150R6H-D4 KSP39	M95
T838MF160X150R6H-D4 KSU31	M95
T838MF160X150RD6-A KSP39	M90
T838MF180X150R6H-D4 KSP39	M95
T838MF180X150R6H-D4 KSU31	M95
T838MF180X150RD6-A KSP39	M90
T838MF180X200R6H-D4 KSP39	M96
T838MF180X200R6H-D4 KSU31	M96
T838MF200X150R6H-D4 KSP39	M96
T838MF200X150R6H-D4 KSU31	M96
T838MF200X200R6H-D4 KSP39	M96
T838MF200X200R6H-D4 KSU31	M96
T838MF220X150R6H-D4 KSP39	M96
T838MF220X150R6H-D4 KSU31	M96
T838MF220X200R6H-D4 KSP39	M96
T838MF220X200R6H-D4 KSU31	M96
T838MF240X150R6H-D4 KSP39	M96
T838MF240X150R6H-D4 KSU31	M96
T838MF240X200R6H-D4 KSP39	M96
T838MF240X200R6H-D4 KSU31	M96
T838MF270X150R6H-D4 KSP39	M96
T838MF270X150R6H-D4 KSU31	M96
T838MF300X150R6H-D4 KSP39	M96
T838MF300X150R6H-D4 KSU31	M96
T838MF300X200R6H-D4 KSP39	M96
T838MF300X200R6H-D4 KSU31	M96
T838NC#02-56RH2-A KSP39	M79
T838NC#03-48RH2-A KSP39	M79
T838NC#04-40RH2-A KSP32	M79

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T838NC#04-40RH2-A KSP39	M79
T838NC#04-40RH3-A KSP39	M79
T838NC#04-40RH4-A KSP39	M79
T838NC#04-40RH5-A KSP39	M79
T838NC#05-40RH2-A KSP39	M79
T838NC#06-32R2B-D1 KSP39	M85
T838NC#06-32R2B-D1 KSU31	M85
T838NC#06-32RH2-A KSP39	M79
T838NC#06-32RH3-A KSP32	M79
T838NC#06-32RH3-A KSP39	M79
T838NC#06-32RH4-A KSP39	M79
T838NC#06-32RH5-A KSP39	M79
T838NC#06-32RH7-A KSP39	M79
T838NC#08-32R2B-D1 KSP39	M85
T838NC#08-32R2B-D1 KSU31	M85
T838NC#08-32RH2-A KSP39	M79
T838NC#08-32RH3-A KSP32	M79
T838NC#08-32RH3-A KSP39	M79
T838NC#08-32RH4-A KSP39	M79
T838NC#08-32RH5-A KSP39	M79
T838NC#08-32RH6-A KSP39	M79
T838NC#08-32RH7-A KSP39	M79
T838NC#10-24R2B-D1 KSP39	M85
T838NC#10-24R2B-D1 KSU31	M85
T838NC#10-24RH2-A KSP39	M79
T838NC#10-24RH3-A KSP32	M79
T838NC#10-24RH3-A KSP39	M79
T838NC#10-24RH4-A KSP39	M79
T838NC#10-24RH5-A KSP39	M79
T838NC#10-24RH7-A KSP39	M79
T838NC#12-24R2B-D1 KSP39	M85
T838NC#12-24R2B-D1 KSU31	M85
T838NC#12-24RH3-A KSP39	M80
T838NC02500-20R2B-D1 KSP39	M85
T838NC02500-20R2B-D1 KSU31	M85
T838NC02500-20R2B-D6 KSP39	M85
T838NC02500-20R2B-D6 KSU31	M85
T838NC02500-20RH2-A KSP39	M80
T838NC02500-20RH3-A KSP32	M80
T838NC02500-20RH3-A KSP39	M80
T838NC02500-20RH5-A KSP39	M80
T838NC02500-20RH7-A KSP39	M80
T838NC03125-18R2B-D1 KSP39	M85
T838NC03125-18R2B-D1 KSU31	M85
T838NC03125-18R2B-D6 KSP39	M85
T838NC03125-18R2B-D6 KSU31	M85
T838NC03125-18RH3-A KSP32	M80
T838NC03125-18RH3-A KSP39	M80
T838NC03125-18RH5-A KSP39	M80
T838NC03125-18RH7-A KSP39	M80
T838NC03750-16R2B-D1 KSP39	M85
T838NC03750-16R2B-D1 KSU31	M85
T838NC03750-16R2B-D6 KSP39	M85
T838NC03750-16R2B-D6 KSU31	M85
T838NC03750-16RH3-A KSP32	M80
T838NC03750-16RH3-A KSP39	M80
T838NC03750-16RH5-A KSP39	M80
T838NC03750-16RH7-A KSP39	M80
T838NC04375-14R2B-D6 KSP39	M85
T838NC04375-14R2B-D6 KSU31	M85
T838NC04375-14RH3-A KSP32	M80
T838NC04375-14RH3-A KSP39	M80
T838NC04375-14RH5-A KSP39	M80
T838NC04375-14RH7-A KSP39	M80
T838NC05000-13R2B-D6 KSP39	M85
T838NC05000-13R2B-D6 KSU31	M85
T838NC05000-13RH3-A KSP32	M80
T838NC05000-13RH3-A KSP39	M80
T838NC05000-13RH5-A KSP39	M80
T838NC05000-13RH7-A KSP39	M80
T838NC05625-12R2B-D6 KSP39	M85
T838NC05625-12R2B-D6 KSU31	M85
T838NC05625-12RH3-A KSP32	M80
T838NC05625-12RH3-A KSP39	M80
T838NC05625-12RH5-A KSP39	M80
T838NC06250-11R2B-D6 KSP39	M85
T838NC06250-11R2B-D6 KSU31	M85
T838NC06250-11RH3-A KSP32	M80
T838NC06250-11RH3-A KSP39	M80
T838NC06250-11RH5-A KSP39	M80
T838NC06250-11RH7-A KSP39	M80
T838NC07500-10R2B-D6 KSP39	M85
T838NC07500-10R2B-D6 KSU31	M85
T838NC07500-10RH3-A KSP32	M81
T838NC07500-10RH3-A KSP39	M81
T838NC07500-10RH5-A KSP39	M81
T838NC08750-9R2B-D6 KSP39	M86
T838NC08750-9R2B-D6 KSU31	M86
T838NC08750-9RH4-A KSP39	M81
T838NC10000-8R2B-D6 KSP39	M86
T838NC10000-8R2B-D6 KSU31	M86
T838NC10000-8RH5-A KSP32	M81
T838NC10000-8RH5-A KSP39	M81
T838NC11250-7R2B-D6 KSP39	M86
T838NC11250-7R2B-D6 KSU31	M86
T838NC11250-7RH6-A KSP39	M81
T838NC12500-7R2B-D6 KSP39	M86
T838NC12500-7R2B-D6 KSU31	M86
T838NC13750-6R2B-D6 KSP39	M86
T838NC13750-6R2B-D6 KSU31	M86
T838NC15000-6R2B-D6 KSP39	M86
T838NC15000-6R2B-D6 KSU31	M86
T838NC17500-5R2B-D6 KSP39	M86
T838NC17500-5R2B-D6 KSU31	M86
T838NC20000-4,5R2B-D6 KSP39	M86
T838NC20000-4,5R2B-D6 KSU31	M86
T838NF#04-48RH2-A KSP39	M79
T838NF#06-40R2B-D1 KSP39	M85
T838NF#06-40R2B-D1 KSU31	M85
T838NF#06-40RH2-A KSP39	M79
T838NF#06-40RH3-A KSP39	M79
T838NF#08-36R2B-D1 KSP39	M85
T838NF#08-36R2B-D1 KSU31	M85
T838NF#10-32R2B-D1 KSP39	M85
T838NF#10-32R2B-D1 KSU31	M85
T838NF#10-32RH2-A KSP39	M79
T838NF#10-32RH3-A KSP32	M79
T838NF#10-32RH3-A KSP39	M79
T838NF#10-32RH4-A KSP39	M80
T838NF#10-32RH5-A KSP39	M80
T838NF#10-32RH6-A KSP39	M80
T838NF#10-32RH7-A KSP39	M80
T838NF#12-28R2B-D1 KSP39	M85
T838NF#12-28R2B-D1 KSU31	M85
T838NF#12-28RH3-A KSP39	M80
T838NF02500-28R2B-D1 KSP39	M85
T838NF02500-28R2B-D1 KSU31	M85
T838NF02500-28R2B-D4 KSP39	M85
T838NF02500-28R2B-D4 KSU31	M85
T838NF02500-28RH2-A KSP39	M80
T838NF02500-28RH3-A KSP32	M80
T838NF02500-28RH3-A KSP39	M80
T838NF02500-28RH4-A KSP39	M80
T838NF02500-28RH5-A KSP39	M80
T838NF02500-28RH6-A KSP39	M80
T838NF02500-28RH7-A KSP39	M80
T838NF03125-24R2B-D4 KSP39	M85
T838NF03125-24R2B-D4 KSU31	M85
T838NF03125-24RH3-A KSP32	M80
T838NF03125-24RH3-A KSP39	M80
T838NF03125-24RH5-A KSP39	M80
T838NF03125-24RH7-A KSP39	M80
T838NF03750-24R2B-D4 KSP39	M85
T838NF03750-24R2B-D4 KSU31	M85
T838NF03750-24RH3-A KSP32	M80
T838NF03750-24RH3-A KSP39	M80
T838NF03750-24RH4-A KSP39	M80
T838NF03750-24RH5-A KSP39	M80
T838NF03750-24RH6-A KSP39	M80
T838NF04375-20R2B-D4 KSP39	M85
T838NF04375-20R2B-D4 KSU31	M85
T838NF04375-20RH3-A KSP32	M80
T838NF04375-20RH3-A KSP39	M80
T838NF04375-20RH5-A KSP39	M80
T838NF04375-20RH6-A KSP39	M80
T838NF04375-20RH7-A KSP39	M80
T838NF05000-20R2B-D4 KSP39	M85
T838NF05000-20R2B-D4 KSU31	M85
T838NF05000-20RH3-A KSP32	M80
T838NF05000-20RH3-A KSP39	M80
T838NF05000-20RH5-A KSP39	M80
T838NF05000-20RH6-A KSP39	M80
T838NF05000-20RH7-A KSP39	M80
T838NF05625-18R2B-D4 KSP39	M85
T838NF05625-18R2B-D4 KSU31	M85
T838NF05625-18RH3-A KSP39	M80
T838NF05625-18RH5-A KSP39	M80
T838NF06250-18R2B-D4 KSP39	M85
T838NF06250-18R2B-D4 KSU31	M85
T838NF06250-18RH3-A KSP32	M80
T838NF06250-18RH3-A KSP39	M80
T838NF06250-18RH5-A KSP39	M80
T838NF06250-18RH6-A KSP39	M81
T838NF06250-18RH7-A KSP39	M81
T838NF07500-16R2B-D4 KSP39	M85
T838NF07500-16R2B-D4 KSU31	M85
T838NF07500-16RH3-A KSP32	M81
T838NF07500-16RH3-A KSP39	M81
T838NF07500-16RH5-A KSP39	M81
T838NF08750-14R2B-D4 KSP39	M86
T838NF08750-14R2B-D4 KSU31	M86
T838NF08750-14RH4-A KSP39	M81
T838NF1000-12RH4-A KSP39	M81
T838NF10000-12R2B-D4 KSP39	M86
T838NF10000-12R2B-D4 KSU31	M86
T838NF11250-12R2B-D4 KSP39	M86
T838NF11250-12R2B-D4 KSU31	M86
T838NF12500-12R2B-D4 KSP39	M86
T838NF12500-12R2B-D4 KSU31	M86
T838NF13750-12R2B-D4 KSP39	M86
T838NF13750-12R2B-D4 KSU31	M86
T838NF15000-12R2B-D4 KSP39	M86
T838NF15000-12R2B-D4 KSU31	M86
T839M030X050R6H-D1 KSP39	M97
T839M030X050R6H-D1 KSU31	M97
T839M030X050RD3-A KSP39	M91
T839M035X060RD4-A KSP39	M91
T839M040X070R6H-D1 KSP39	M97
T839M040X070R6H-D1 KSU31	M97
T839M040X070RD4-A KSP39	M91
T839M050X080R6H-D1 KSP39	M97
T839M050X080R6H-D1 KSU31	M97
T839M050X080RD4-A KSP39	M91
T839M060X100R6H-D1 KSP39	M97
T839M060X100R6H-D1 KSU31	M97
T839M060X100RD5-A KSP39	M91
T839M070X100RD5-A KSP39	M91
T839M080X125R6H-D1 KSP39	M97
T839M080X125R6H-D1 KSU31	M97
T839M080X125RD5-A KSP39	M91
T839M100X150R6H-D1 KSP39	M97
T839M100X150R6H-D1 KSU31	M97
T839M100X150RD6-A KSP39	M91
T839M120X175R6H-D6 KSP39	M97
T839M120X175R6H-D6 KSU31	M97
T839M120X175RD6-A KSP39	M91
T839M140X200R6H-D6 KSP39	M97
T839M140X200R6H-D6 KSU31	M97
T839M140X200RD7-A KSP39	M91
T839M160X200R6H-D6 KSP39	M97
T839M160X200R6H-D6 KSU31	M97
T839M160X200RD7-A KSP39	M91
T839M180X250R6H-D6 KSP39	M97
T839M180X250R6H-D6 KSU31	M97
T839M200X250R6H-D6 KSP39	M97
T839M200X250R6H-D6 KSU31	M97
T839MF080X100RD5-A KSP39	M91
T839MF100X125RD5-A KSP39	M91
T839MF120X125RD5-A KSP39	M91
T839MF120X150RD5-A KSP39	M91
T839MF140X150RD6-A KSP39	M91
T839MF160X150RD6-A KSP39	M91
T839MF180X150RD6-A KSP39	M91
T839NC#04-40RH2-A KSP39	M82
T839NC#04-40RH3-A KSP39	M82
T839NC#04-40RH5-A KSP39	M82
T839NC#05-40RH2-A KSP39	M82
T839NC#06-32RH2-A KSP39	M82
T839NC#06-32RH3-A KSP39	M82
T839NC#06-32RH5-A KSP39	M82
T839NC#08-32RH2-A KSP39	M82
T839NC#08-32RH3-A KSP39	M82
T839NC#08-32RH5-A KSP39	M82
T839NC#10-24RH3-A KSP39	M82
T839NC#10-24RH5-A KSP39	M82
T839NC02500-20RH3-A KSP39	M82
T839NC02500-20RH5-A KSP39	M82
T839NC03125-18RH3-A KSP39	M82
T839NC03125-18RH5-A KSP39	M82
T839NC03750-16RH3-A KSP39	M82
T839NC03750-16RH5-A KSP39	M82
T839NC04375-14RH3-A KSP39	M83
T839NC04375-14RH5-A KSP39	M83
T839NC05000-13RH3-A KSP39	M83
T839NC05000-13RH5-A KSP39	M83
T839NC05625-12RH3-A KSP39	M83
T839NC05625-12RH5-A KSP39	M83
T839NC06250-11RH3-A KSP39	M83
T839NC06250-11RH5-A KSP39	M83
T839NC07500-10RH3-A KSP39	M83
T839NF#06-40RH2-A KSP39	M82
T839NF#06-40RH3-A KSP39	M82
T839NF#10-32RH3-A KSP39	M82
T839NF#10-32RH5-A KSP39	M82
T839NF02500-28RH3-A KSP39	M82
T839NF02500-28RH5-A KSP39	M82
T839NF03125-24RH3-A KSP39	M82
T839NF03125-24RH5-A KSP39	M82
T839NF03750-24RH3-A KSP39	M82
T839NF03750-24RH4-A KSP39	M82
T839NF03750-24RH5-A KSP39	M83
T839NF04375-20RH3-A KSP39	M83
T839NF04375-20RH5-A KSP39	M83
T839NF05000-20RH3-A KSP39	M83
T839NF05625-18RH3-A KSP39	M83
T839NF06250-18RH3-A KSP39	M83
T839NF06250-18RH5-A KSP39	M83
T839NF07500-16RH3-A KSP39	M83
T846NPT01250-27R-AS KSU30	M153
T846NPT02500-18R-A KSU30	M153
T846NPT03750-18R-A KSU30	M153
T846NPT05000-14R-A KSU30	M153
T846NPT07500-14R-A KSU30	M153
T848NPT00625-27R-D55 KSU30	M156
T848NPT01250-27R-D55 KSU30	M156
T848NPT02500-18R-D55 KSU30	M156
T848NPT03750-18R-D55 KSU30	M156
T848NPT05000-14R-D55 KSU30	M156
T848NPT07500-14R-D55 KSU30	M156
T848NPT10000-11,5R-D55 KSU30	M156
T848NPT00625-27R-D55 KSU30	M156
T848NPTF01250-27R-D55 KSU30	M156
T848NPTF02500-18R-D55 KSU30	M156
T848NPTF03750-18R-D55 KSU30	M156
T848NPTF05000-14R-D55 KSU30	M156
T848NPTF07500-14R-D55 KSU30	M156
T848NPTF10000-11,5R-D55 KSU30	M156
T854NPT00625-27R-A KSP39	M152
T854NPT00625-27R-A KSU31	M152
T854NPT01250-27R-A KSP39	M152
T854NPT01250-27R-A KSU31	M152
T854NPT01250-27R-AS KSP39	M152
T854NPT01250-27R-AS KSU31	M152
T854NPT02500-18R-A KSP39	M152
T854NPT02500-18R-A KSU31	M152
T854NPT03750-18R-A KSP39	M152
T854NPT03750-18R-A KSU31	M152
T854NPT05000-14R-A KSP39	M152
T854NPT05000-14R-A KSU31	M152
T854NPT07500-14R-A KSP39	M152
T854NPT07500-14R-A KSU31	M152
T854NPT10000-11.5R-A KSP39	M152
T854NPT10000-11.5R-A KSU31	M152
T854NPTF00625-27R-A KSP39	M152
T854NPTF01250-27R-A KSP39	M152
T854NPTF01250-27R-A KSU31	M152
T854NPTF01250-27R-AS KSP39	M152
T854NPTF01250-27R-AS KSU31	M152
T854NPTF02500-18R-A KSP39	M152
T854NPTF02500-18R-A KSU31	M152
T854NPTF03750-18R-A KSP39	M152
T854NPTF03750-18R-A KSU31	M152
T854NPTF05000-14R-A KSP39	M152
T854NPTF05000-14R-A KSU31	M152
T854NPTF07500-14R-A KSP39	M152
T854NPTF10000-11.5R-A KSP39	M152
T857G01250-28R-D56 KSP39	M155
T857G01250-28R-D56 KSU31	M155

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
T857G02500-19R-D56 KSP39	M155
T857G02500-19R-D56 KSU31	M155
T857G03750-19R-D56 KSP39	M155
T857G03750-19R-D56 KSU31	M155
T857G05000-14R-D56 KSP39	M155
T857G05000-14R-D56 KSU31	M155
T857G06250-14R-D56 KSP39	M155
T857G06250-14R-D56 KSU31	M155
T857G07500-14R-D56 KSP39	M155
T857G07500-14R-D56 KSU31	M155
T857G08750-14R-D56 KSP39	M155
T857G08750-14R-D56 KSU31	M155
T857G10000-11R-D56 KSP39	M155
T857G10000-11R-D56 KSU31	M155
T860NF02500-28RH3-XL6 KSP39	M100
T877G01250-28R-D56 KSP39	M154
T877G01250-28R-D56 KSU31	M154
T877G02500-19R-D56 KSP39	M154
T877G02500-19R-D56 KSU31	M154
T877G03750-19R-D56 KSP39	M154
T877G03750-19R-D56 KSU31	M154
T877G05000-14R-D56 KSP39	M154
T877G05000-14R-D56 KSU31	M154
T877G06250-14R-D56 KSP39	M154
T877G06250-14R-D56 KSU31	M154
T877G07500-14R-D56 KSP39	M154
T877G07500-14R-D56 KSU31	M154
T877G08750-14R-D56 KSP39	M154
T877G08750-14R-D56 KSU31	M154
T877G10000-11R-D56 KSP39	M154
T877G10000-11R-D56 KSU31	M154
T9 S	T127–128, T131
TB15	V12, V19, V97–98, V102–103
TB20	V26
TCGT21505HP KC5010	B256
TCGT21505HP KC5410	B256
TCGT21505HP KCU25	B256
TCGT2150LF KC5025	B256
TCGT2150LF KCU10	B256
TCGT2151HP K313	B256
TCGT2151HP KC5010	B256
TCGT2151HP KC5025	B256
TCGT2151HP KC5410	B256
TCGT2151HP KCU10	B256
TCGT2151HP KCU25	B256
TCGT2151LF KC5010	B256
TCGT2151LF KC5025	B256
TCGT2151LF KCU10	B256
TCGT2152HP KC5010	B256
TCGT32505HP KC5010	B256
TCGT32505HP KCU25	B256
TCGT32505LF KC5010	B256
TCGT3250LF KCU10	B256
TCGT3251HP K313	B256
TCGT3251HP KC5010	B256
TCGT3251HP KC5025	B256
TCGT3251HP KC5410	B256
TCGT3251HP KCU10	B256
TCGT3251LF KC5010	B256
TCGT3251LF KCU10	B256
TCGT3252HP K313	B256
TCGT3252HP KC5010	B256
TCGT3252HP KC5025	B256
TCGT3252HP KC5410	B256
TCGT3252HP KCU10	B256
TCGT3252LF KC5010	B256
TCGT3252LF KCU10	B256
TCGW181505S0415MT KBH20	B338
TCGW18151S0415MT KBH20	B338
TCGW21505S0415MT KBH10	B338
TCGW21505S0415MT KBH20	B338
TCGW2151FST KD1400	B366
TCGW2151FST KD1425	B366
TCGW2151S0415MT KBH10	B338
TCGW2151S0415MT KBH20	B338
TCGW2151S0525MT KBH10	B338
TCGW2152S0415MT KBH10	B338
TCGW2152S0415MT KBH20	B338
TCGW2152S0525MT KBH10	B338
TCGW3251FST KD1400	B366
TCMT18151FP KCP25B	B257
TCMT18151FP KCU10	B257
TCMT18151FP KCU25	B257
TCMT18152FP KCU10	B257
TCMT18152FP KCU25	B257
TCMT21505FP KCU25	B257
TCMT21505FP KTP10	B257
TCMT21505LF KC5010	B257
TCMT21505LF KC5025	B257
TCMT215111 KT315	B256
TCMT2151FP KCK20B	B257
TCMT2151FP KCM25	B257
TCMT2151FP KCP10	B257
TCMT2151FP KCP25	B257
TCMT2151FP KCU10	B257
TCMT2151FP KCU25	B257
TCMT2151FP KTP10	B257
TCMT2151LF KC5010	B257
TCMT2151LF KC5025	B257
TCMT2151LF KCK05	B257
TCMT2151LF KCK15	B257
TCMT2151LF KCK15B	B257
TCMT2151LF KCK20	B257
TCMT2151LF KCK20B	B257
TCMT2151LF KCM15	B257
TCMT2151LF KCM15B	B257
TCMT2151LF KCM25B	B257
TCMT2151LF KCM35	B257
TCMT2151LF KCP10	B257
TCMT2151LF KCP10B	B257
TCMT2151LF KCP25	B257
TCMT2151LF KCP25B	B257
TCMT2151LF KCP30	B257
TCMT2151LF KT315	B257
TCMT2151UF KC5010	B258
TCMT2151UF KCP25	B258
TCMT2152FP KCM15	B257
TCMT2152FP KCP25	B257
TCMT2152FP KCU10	B257
TCMT2152FP KCU25	B257
TCMT2152LF KC5010	B257
TCMT2152LF KC5025	B257
TCMT2152LF KCK05	B257
TCMT2152LF KCK15	B257
TCMT2152LF KCK15B	B257
TCMT2152LF KCK20	B257
TCMT2152LF KCK20B	B257
TCMT2152LF KCM15	B257
TCMT2152LF KCM25B	B257
TCMT2152LF KCP10	B257
TCMT2152LF KCP25	B257
TCMT2152LF KCP25B	B257
TCMT2152LF KCP30	B257
TCMT2152LF KT315	B257
TCMT2152MF KCK15	B258
TCMT2152MF KCK20	B258
TCMT2152MF KCK20B	B258
TCMT2152MF KCM25B	B258
TCMT2152MF KCP25	B258
TCMT2152MF KCP25B	B258
TCMT2152MP KCK20B	B258
TCMT2152MP KCP25	B258
TCMT2152MP KCU10	B258
TCMT2152UF KC5010	B258
TCMT221FP KCP10B	B257
TCMT221FP KCU10	B257
TCMT221FP KCU25	B257
TCMT222FP KCP05	B257
TCMT222FP KCU10	B257
TCMT222FP KCU25	B257
TCMT223FP KCP05	B257
TCMT223FP KCU10	B257
TCMT32505LF KC5010	B257
TCMT32505LF KC5025	B257
TCMT325111 KT315	B256
TCMT3251FP KCP10	B257
TCMT3251FP KCP25	B257
TCMT3251FP KCU10	B257
TCMT3251FP KCU25	B257
TCMT3251LF KC5010	B257
TCMT3251LF KC5025	B257
TCMT3251LF KCK05	B257
TCMT3251LF KCK15	B257
TCMT3251LF KCK20	B257
TCMT3251LF KCK20B	B257
TCMT3251LF KCM15	B257
TCMT3251LF KCM25B	B257
TCMT3251LF KCM35	B257
TCMT3251LF KCP10	B257
TCMT3251LF KCP10B	B257
TCMT3251LF KCP25	B257
TCMT3251LF KCP25B	B257
TCMT3251LF KT315	B257
TCMT3251MP KCK20B	B258
TCMT3251MP KCM25	B258
TCMT3251MP KCM25B	B258
TCMT3251MP KCP25	B258
TCMT3251MP KCU10	B258
TCMT325211 KT315	B256
TCMT3252FP KCM25	B257
TCMT3252FP KCP10	B257
TCMT3252FP KCP25	B257
TCMT3252FP KCU10	B257
TCMT3252FP KCU25	B257
TCMT3252FP KTP10	B257
TCMT3252LF KC5010	B257
TCMT3252LF KC5025	B257
TCMT3252LF KCK05B	B257
TCMT3252LF KCK15	B257
TCMT3252LF KCK15B	B257
TCMT3252LF KCK20	B257
TCMT3252LF KCK20B	B257
TCMT3252LF KCM25	B257
TCMT3252LF KCM25B	B257
TCMT3252LF KCM35	B257
TCMT3252LF KCP10	B257
TCMT3252LF KCP10B	B257
TCMT3252LF KCP25	B257
TCMT3252LF KCP25B	B257
TCMT3252LF KCP30	B257
TCMT3252LF KT315	B257
TCMT3252MF KCK15	B258
TCMT3252MF KCK15B	B258
TCMT3252MF KCK20	B258
TCMT3252MF KCK20B	B258
TCMT3252MF KCM25	B258
TCMT3252MF KCM25B	B258
TCMT3252MF KCM35	B258
TCMT3252MF KCP10	B258
TCMT3252MF KCP25	B258
TCMT3252MF KCP25B	B258
TCMT3252MF KCP30	B258
TCMT3252MP KCK20B	B258
TCMT3252MP KCM15	B258
TCMT3252MP KCM25	B258
TCMT3252MP KCM25B	B258
TCMT3252MP KCP10	B258
TCMT3252MP KCP25	B258
TCMT3252MP KCU10	B258
TCMT3252UF KC5010	B258
TCMT3252UF KCP25	B258
TCMT3253FP KCP10	B257
TCMT3253FP KCU10	B257
TCMT3253FP KCU25	B257
TCMT3253LF KC5010	B257
TCMT3253LF KCK15	B257
TCMT3253LF KCK20	B257
TCMT3253LF KCK20B	B257
TCMT3253LF KCM25	B257
TCMT3253LF KCP10B	B257
TCMT3253LF KCP25	B257
TCMT3253MF KCK20	B258
TCMT3253MF KCK20B	B258
TCMT3253MF KCM25B	B258
TCMT3253MF KCP10	B258
TCMT3253MF KCP25B	B258
TCMT3253MP KCP25	B258
TCMT432FP KCM25	B257
TCMT432FP KCP05	B257
TCMT432FP KCP25	B257
TCMT432FP KCU10	B257
TCMT432FP KCU25	B257
TCMT432LF KC5010	B257
TCMT432LF KC5025	B257
TCMT432LF KCK15B	B257
TCMT432LF KCK20B	B257
TCMT432LF KCP10B	B257
TCMT432LF KCP25	B257
TCMT432LF KCP25B	B257
TCMW3251 KCK20B	B258
TCMW3252 KCK20B	B258
TD6P K68	B266
TD6P05 KC5010	B266
TD6P1 KC5010	B266
TD6P2 KC5010	B266
TDHB12807501 KC5010	B263
TDHB12807501 KCU25	B263
TDHB12807501 KT315	B263
TDHB12807505 KC5010	B263
TDHB12807505 KC5025	B263
TDHB12807505 KCU10	B263
TDHB12807505 KCU25	B263
TDHB1280751 KC5010	B263
TDHB1280751 KC5025	B263
TDHB1280751 KCU10	B263
TDHB1280751 KCU25	B263
TDHB1280751 KT315	B263
TDHB1280752 KC5025	B263
TDHH12807505L KC5010	B263
TDHH12807505L KCU10	B263
TDHH12807505L KCU25	B263
TDHH12807505R KCU10	B263
TDHH1280751L KC5010	B263
TDHH1280751L KCU10	B263
TDHH1280751L KCU25	B263
TDHH1280751R KCU10	B263
THW2M	T63, T65, V77, V139–142
THW3M	U28–29, U35–37
TK01338D	E60
TK01339D	E60
TM24D053L102Z1	W4
TM24D059L118Z1	W4
TM24D063L110Z2	W4
TM24D063L142Z1	W4
TM24EN14BSF KC610M	W6
TM24EN14BSF KC635M	W6
TM24EN18NPT KC610M	W6
TM24EN18NPT KC635M	W6
TM24EN18NPTF KC610M	W7
TM24EN18NPTF KC635M	W7
TM24EN19BSF KC610M	W6
TM24EN19BSF KC635M	W6
TM24EN19BSPT KC610M	W7
TM24EN19BSPT KC635M	W7
TM24ENBLANK	W7
TM24N050ISO KC610M	W6
TM24N050ISO KC635M	W6
TM24N075ISO KC610M	W6
TM24N075ISO KC635M	W6
TM24N100ISO KC610M	W6
TM24N100ISO KC635M	W6
TM24N10UN KC610M	W6
TM24N10UN KC635M	W6
TM24N125ISO KC610M	W6
TM24N125ISO KC635M	W6
TM24N12UN KC610M	W6
TM24N12UN KC635M	W6
TM24N14UN KC610M	W6
TM24N14UN KC635M	W6
TM24N150ISO KC610M	W6
TM24N150ISO KC635M	W6
TM24N16UN KC610M	W6
TM24N16UN KC635M	W6
TM24N175ISO KC610M	W6
TM24N175ISO KC635M	W6
TM24N18UN KC610M	W6
TM24N18UN KC635M	W6
TM24N200ISO KC610M	W6
TM24N200ISO KC635M	W6
TM24N20UN KC610M	W6
TM24N20UN KC635M	W6
TM24N24UN KC610M	W6
TM24N24UN KC635M	W6
TM24N250ISO KC610M	W6
TM24N250ISO KC635M	W6
TM24N28UN KC610M	W6
TM24N28UN KC635M	W6

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
TM24N32UN KC610M	W6
TM24N32UN KC635M	W6
TM25BLANK	W15
TM25D17L26Z2	W10
TM25D17L36Z2	W10
TM25D20L37Z3	W10
TM25D20L44Z3	W10
TM25D22L43Z3	W10
TM25D22L55Z3	W10
TM25D30L55Z5	W10
TM25EN115NPT KC610M	W15
TM25EN115NPT KC635M	W15
TM25EN11BSPT KC610M	W15
TM25EN11W KC610M	W15
TM25EN11W KC635M	W15
TM25EN12W KC610M	W15
TM25EN14BSPT KC610M	W15
TM25EN14NPT KC610M	W15
TM25EN14NPT KC635M	W15
TM25EN14W KC610M	W15
TM25EN14W KC635M	W15
TM25INSERTSCREW	W4–5, W10–13, W17–19, W24–25
TM25N100ISO KC610M	W14
TM25N100ISO KC635M	W14
TM25N10UN KC610M	W14
TM25N10UN KC635M	W14
TM25N12UN KC610M	W14
TM25N12UN KC635M	W14
TM25N14UN KC610M	W14
TM25N14UN KC635M	W14
TM25N150ISO KC610M	W14
TM25N150ISO KC635M	W14
TM25N16UN KC610M	W14
TM25N16UN KC635M	W14
TM25N18UN KC610M	W14
TM25N200ISO KC610M	W14
TM25N200ISO KC635M	W14
TM25N20UN KC610M	W14
TM25N20UN KC635M	W14
TM25N250ISO KC610M	W14
TM25N250ISO KC635M	W14
TM25N300ISO KC610M	W14
TM25N300ISO KC635M	W14
TM25N8UN KC610M	W14
TM25N8UN KC635M	W14
TM25N9UN KC610M	W14
TM25N9UN KC635M	W14
TM40D087L169Z3	W17
TM40D087L256Z3	W17
TM40D118L215Z4	W17
TM40D118L315Z3	W17
TM40EN008NPT KC610M	W20
TM40EN008NPT KC635M	W20
TM40EN008NPTF KC610M	W21
TM40EN008NPTF KC635M	W21
TM40EN011BSPT KC610M	W21
TM40EN011BSPT KC635M	W21
TM40EN115NPT KC610M	W20
TM40EN115NPTF KC610M	W21
TM40EN11BSF KC610M	W20
TM40EN11BSF KC635M	W20
TM40EN12BSF KC610M	W20
TM40EN14BSF KC610M	W20
TM40EN16BSF KC610M	W20
TM40ENBLANK	W21
TM40N100ISO KC610M	W20
TM40N100ISO KC635M	W20
TM40N10UN KC610M	W20
TM40N12UN KC610M	W20
TM40N12UN KC635M	W20
TM40N14UN KC610M	W20
TM40N150ISO KC610M	W20
TM40N150ISO KC635M	W20
TM40N16UN KC610M	W20
TM40N16UN KC635M	W20
TM40N18UN KC610M	W20
TM40N200ISO KC610M	W20
TM40N200ISO KC635M	W20
TM40N20UN KC610M	W20
TM40N20UN KC635M	W20
TM40N250ISO KC610M	W20
TM40N300ISO KC610M	W20
TM40N300ISO KC635M	W20
TM40N8UN KC610M	W20
TM40N8UN KC635M	W20
TM40N9UN KC610M	W20
TM41D083L177Z1	W24
TM41D097L169Z2	W24
TM41D118L256Z3	W24
TM41D142L169Z5	W24
TM41D142L256Z4	W24
TM41EN8NPT KC610M	W26
TM41EN8NPT KC635M	W26
TM41ENBLANK	W26
TM41N300ISO KC610M	W26
TM41N300ISO KC635M	W26
TM41N350ISO KC610M	W26
TM41N350ISO KC635M	W26
TM41N400ISO KC610M	W26
TM41N400ISO KC635M	W26
TM41N450ISO KC610M	W26
TM41N450ISO KC635M	W26
TM41N45UN KC610M	W26
TM41N45UN KC635M	W26
TM41N4UN KC610M	W26
TM41N4UN KC635M	W26
TM41N500ISO KC610M	W26
TM41N500ISO KC635M	W26
TM41N550ISO KC610M	W26
TM41N550ISO KC635M	W26
TM41N5UN KC610M	W26
TM41N5UN KC635M	W26
TM41N600ISO KC610M	W26
TM41N600ISO KC635M	W26
TM41N6UN KC610M	W26
TM41N6UN KC635M	W26
TM41N7UN KC610M	W26
TM41N7UN KC635M	W26
TM41N8UN KC610M	W26
TM41N8UN KC635M	W26
TM711M030X050R2DHA KCU33	M165
TM711M040X070R2DHA KCU33	M165
TM711M050X080R2DHA KCU33	M165
TM711M060X100R2DHA KCU33	M165
TM711M080X125R2DHA KCU33	M165
TM711M100X150R2DHA KCU33	M165
TM711M120X175R2DHA KCU33	M165
TM711M140X200R2DHA KCU33	M165
TM711M160X200R2DHA KCU33	M165
TM711M180X250R2DHA KCU33	M165
TM711M200X250R2DHA KCU33	M165
TM711MF040X050R2DHA KCU33	M165
TM711MF050X050R2DHA KCU33	M165
TM711MF060X075R2DHA KCU33	M165
TM711MF080X075R2DHA KCU33	M165
TM711MF080X100R2DHA KCU33	M165
TM711MF100X100R2DHA KCU33	M165
TM711MF120X100R2DHA KCU33	M165
TM711MF120X150R2DHA KCU33	M165
TM711MF140X150R2DHA KCU33	M165
TM711MF160X150R2DHA KCU33	M165
TM711MF180X150R2DHA KCU33	M165
TM711MF200X150R2DHA KCU33	M165
TM721M060X100R2DHA KCU32	M166
TM721M080X125R2DHA KCU32	M166
TM721M100X150R2DHA KCU32	M166
TM721M120X175R2DHA KCU32	M166
TM721M140X200R2DHA KCU32	M166
TM721M160X200R2DHA KCU32	M166
TM721MF080X100R2DHA KCU32	M166
TM721MF120X125R2DHA KCU32	M166
TM721MF140X150R2DHA KCU32	M166
TM721NC0500-13R2DHA KCU32	M166
TM721NC0625-11R2DHA KCU32	M166
TM721NC2500-20R2DHA KCU32	M166
TM721NC3125-18R2DHA KCU32	M166
TM721NC3750-16R2DHA KCU32	M166
TM721NC4375-14R2DHA KCU32	M166
TM721NC5625-12R2DHA KCU32	M166
TM731M040X070R2DHA KCU32	M167
TM731M050X080R2DHA KCU32	M167
TM731M060X100R2DHA KCU32	M167
TM731M080X125R2DHA KCU32	M167
TM731M100X150R2DHA KCU32	M167
TM731M120X175R2DHA KCU32	M167
TM731M160X200R2DHA KCU32	M167
TM731MF080X100R2DHA KCU32	M167
TM741M060X100R2DHA KCU36	M169
TM741M080X125R2DHA KCU36	M169
TM741M100X150R2DHA KCU36	M169
TM741M120X175R2DHA KCU36	M169
TM741M140X200R2DHA KCU36	M169
TM741M160X200R2DHA KCU36	M169
TM741M180X250R2DHA KCU36	M169
TM741M200X250R2DHA KCU36	M169
TM741MF080X100R2DHA KCU36	M169
TM741MF100X100R2DHA KCU36	M169
TM741MF100X125R2DHA KCU36	M169
TM741MF120X150R2DHA KCU36	M169
TM741NC0500-13R2DHA KCU36	M168
TM741NC0750-10R2DHA KCU36	M168
TM741NC0750-16R2DHA KCU36	M168
TM741NC2500-20R2DHA KCU36	M168
TM741NC3125-18R2DHA KCU36	M168
TM741NC3750-16R2DHA KCU36	M168
TM741NF0500-20R2DHA KCU36	M168
TM741NF0625-18R2DHA KCU36	M168
TM741NF2500-28R2DHA KCU36	M168
TM741NF3125-24R2DHA KCU36	M168
TM741NF3750-24R2DHA KCU36	M168
TMC25D30L80Z4	W10
TMS25D154L126Z5	W12
TMS25D193L138Z7	W12
TMS25D232L158Z9	W12
TMS25D36L34Z5	W10
TMS25D44L38Z6	W10
TMS25D52L40Z8	W10
TMS40D193L197Z7	W18
TMS40D232L200Z9	W18
TMS41D210L200Z5	W25
TMS41D250L200Z6	W25
TMST25D154L126Z5	W13
TMST40D193L197Z7	W19
TMT24D055L102Z1	W5
TMT25D067L110Z2	W11
TMT25D087L170Z3	W11
TMT25D110L170Z4	W11
TMT25D17L26Z2	W11
TMT25D22L43Z3	W11
TMT25D28L43Z4	W11
TNG222T0820 KY1615	B339
TNG331T0820 KY1615	B339
TNG332T0820 KY1615	B319, B339
TNG332T0820 KY3500	B319
TNG333T0820 KY1615	B339
TNG334T0820 KY1615	B339
TNG352T0820 KY1615	B339
TNG353T0820 KY1615	B339
TNG432T0820 KY1615	B339
TNG433T0420 KYS25	B354
TNG434T0420 KYS25	B354
TNG434T0820 KY3500	B319
TNGA331S0415MT KBH10	B339
TNGA331S0415MT KBH20	B339
TNGA331S0525MT KBH20	B339
TNGA331S0735MT KBH20	B339
TNGA332S0415MT KBH10	B339
TNGA332S0415MT KBH20	B339
TNGA332S0525MT KBH10	B339
TNGA332S0525MT KBH20	B339
TNGA332S0735MT KBH10	B339
TNGA332S0735MT KBH20	B339
TNGA332T0820 KY1615	B339
TNGA332T0820 KY3500	B314
TNGA332T0820 KYK10	B314
TNGA333S0415MT KBH10	B339
TNGA333S0415MT KBH20	B339
TNGA333S0525MT KBH10	B339
TNGA333S0525MT KBH20	B339
TNGA333S0735MT KBH10	B339
TNGA333S0735MT KBH20	B339
TNGA333T0820 KY1615	B339
TNGA333T0820 KY3500	B314
TNGA334T0820 KY3500	B314
TNGA432T0820 KY1615	B339
TNGA433T0820 KY1615	B339
TNGG3305FS KC5025	B121
TNGG3305LF KC5010	B121
TNGG3305LF KCU10	B121
TNGG331FS KC5010	B121
TNGG331FS KC5025	B121
TNGG331FS KCU10	B121
TNGG331LF KC5010	B121
TNGG332LF KC5010	B121
TNGG432FS KCU10	B121
TNGM332S0525MTCB1 KBH20	B340
TNGN234S0820 KBK45	B306
TNGN334S0820 KBK45	B306
TNGP3305 KC5010	B121
TNGP3305 KCU10	B121
TNGP331 KC5010	B121
TNGP331 KC5410	B121
TNGP331 KCU10	B121
TNGP332 KC5010	B121
TNGP332 KC5410	B121
TNGP332 KCU10	B121
TNGX334S0820 KBK45	B308
TNMA332 K68	B122
TNMA332 KCK15	B122
TNMA332 KCK15B	B122
TNMA332 KCK20	B122
TNMA332 KCK20B	B122
TNMA333 KCK15	B122
TNMA333 KCK20	B122
TNMA334 KCK15	B122
TNMA334 KCK20	B122
TNMA432 K68	B122
TNMA432 KCK05	B122
TNMA432 KCK20B	B122
TNMA433 KCK15B	B122
TNMA433 KCK20B	B122
TNMA544 KCK15	B122
TNMG221FF KCU10	B123
TNMG221FN KCP25	B123
TNMG222FF KC5010	B123
TNMG222FN KCP10	B123
TNMG222FN KCP25	B123
TNMG3305MS KC5010	B125
TNMG3305MS KC5025	B125
TNMG3305MS KCU10	B125
TNMG3305MS KCU25	B125
TNMG331FF KC5010	B123
TNMG331FF KCM15B	B123
TNMG331FF KCP10	B123
TNMG331FF KCU10	B123
TNMG331FF KT315	B123
TNMG331FN KCK05	B123
TNMG331FN KCK15B	B123
TNMG331FN KCP05	B123
TNMG331FN KCP10	B123
TNMG331FN KCP10B	B123
TNMG331FN KCP25	B123
TNMG331FN KCP25B	B123
TNMG331FN KT315	B123
TNMG331FP KC5010	B123
TNMG331FP KCM15	B123
TNMG331FP KCU10	B123
TNMG331FP KT315	B123
TNMG331FW KC5010	B124
TNMG331FW KCP05	B124
TNMG331FW KCP10	B124
TNMG331FW KCU10	B124
TNMG331FW KT315	B124
TNMG331MN KCP10	B124
TNMG331MN KCP10B	B124
TNMG331MN KCP25	B124
TNMG331MN KCP25B	B124
TNMG331MN KCP30	B124
TNMG331MP KC5010	B124
TNMG331MP KCM15	B124
TNMG331MP KCM15B	B124
TNMG331MP KCM25	B124
TNMG331MP KCM25B	B124
TNMG331MP KCM35B	B124
TNMG331MP KCU10	B124
TNMG331MS KC5010	B125
TNMG331MS KC5025	B125

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
TNMG331MS KCU10	B125
TNMG331MS KCU25	B125
TNMG331P KC5010	B126
TNMG331P KCU10	B126
TNMG331UP KCM25	B128
TNMG332CT KCPK05	B122
TNMG332FF KC5010	B123
TNMG332FF KCP05	B123
TNMG332FF KCP10B	B123
TNMG332FF KCU10	B123
TNMG332FF KT315	B123
TNMG332FN KCK05	B123
TNMG332FN KCK15B	B123
TNMG332FN KCP05B	B123
TNMG332FN KCP10	B123
TNMG332FN KCP10B	B123
TNMG332FN KCP25	B123
TNMG332FN KCP25B	B123
TNMG332FN KT315	B123
TNMG332FP KC5010	B123
TNMG332FP KCM15	B123
TNMG332FP KCP10	B123
TNMG332FP KCU10	B123
TNMG332FP KT315	B123
TNMG332FW KCP05	B124
TNMG332FW KCP10B	B124
TNMG332FW KT315	B124
TNMG332MG KCP10B	B125
TNMG332MN KCP05	B124
TNMG332MN KCP10	B124
TNMG332MN KCP10B	B124
TNMG332MN KCP25	B124
TNMG332MN KCP25B	B124
TNMG332MN KCP30	B124
TNMG332MN KCP30B	B124
TNMG332MP KC5010	B124
TNMG332MP KCM15	B124
TNMG332MP KCM15B	B124
TNMG332MP KCM25	B124
TNMG332MP KCM25B	B124
TNMG332MP KCM35	B124
TNMG332MP KCM35B	B124
TNMG332MP KCP25	B124
TNMG332MP KCP25B	B124
TNMG332MP KCU10	B124
TNMG332MR KCM25	B125
TNMG332MR KCM25B	B125
TNMG332MR KCP10B	B125
TNMG332MR KCP25B	B125
TNMG332MS KC5010	B125
TNMG332MS KC5025	B125
TNMG332MS KCU10	B125
TNMG332MS KCU25	B125
TNMG332MW KCP05	B126
TNMG332MW KCP10	B126
TNMG332MW KCP25	B126
TNMG332MW KCP25B	B126
TNMG332P KCU10	B126
TNMG332RN KCP10	B126
TNMG332RN KCP10B	B126
TNMG332RN KCP25	B126
TNMG332RN KCP25B	B126
TNMG332RN KCP30	B126
TNMG332RP KC5010	B127
TNMG332RP KC5025	B127
TNMG332RP KCK05	B127
TNMG332RP KCK20	B127
TNMG332RP KCM15	B127
TNMG332RP KCM25	B127
TNMG332RP KCP05	B127
TNMG332RP KCP10	B127
TNMG332RP KCP10B	B127
TNMG332RP KCP25	B127
TNMG332RP KCP25B	B127
TNMG332RP KCP30	B127
TNMG332RP KCU10	B127
TNMG332RP KCU25	B127
TNMG332UN KCK05	B127
TNMG332UN KCK15	B127
TNMG332UN KCK15B	B127
TNMG332UN KCK20	B127
TNMG332UN KCK20B	B127
TNMG332UP KCM15	B128
TNMG332UP KCM25	B128
TNMG333FN KCK05	B123
TNMG333FN KCP05	B123
TNMG333FN KCP10B	B123
TNMG333FN KCP25	B123
TNMG333FN KT315	B123
TNMG333FP KC5010	B123
TNMG333FP KCM15	B123
TNMG333FP KCU10	B123
TNMG333FW KCP05	B124
TNMG333FW KCP10B	B124
TNMG333FW KT315	B124
TNMG333MN KCP10B	B124
TNMG333MN KCP25	B124
TNMG333MN KCP25B	B124
TNMG333MN KCP40	B124
TNMG333MP KC5010	B124
TNMG333MP KCM15B	B124
TNMG333MP KCM25	B124
TNMG333MP KCM25B	B124
TNMG333MR KCK15B	B125
TNMG333MR KCP10B	B125
TNMG333MR KCP25B	B125
TNMG333MW KCP10	B126
TNMG333MW KCP10B	B126
TNMG333MW KCP25	B126
TNMG333RN KCP10B	B126
TNMG333RN KCP25	B126
TNMG333RN KCP25B	B126
TNMG333RN KCP30	B126
TNMG333RP KC5025	B127
TNMG333RP KCK20	B127
TNMG333RP KCM25	B127
TNMG333RP KCM35	B127
TNMG333RP KCP05	B127
TNMG333RP KCP10	B127
TNMG333RP KCP10B	B127
TNMG333RP KCP25	B127
TNMG333RP KCP25B	B127
TNMG333RP KCU25	B127
TNMG333UN KCK05	B127
TNMG333UN KCK05B	B127
TNMG333UN KCK15B	B127
TNMG333UN KCK20	B127
TNMG333UN KCK20B	B127
TNMG334RP KCP10	B127
TNMG334UN KCK20	B127
TNMG431FN KCP25	B123
TNMG431FP KC5010	B123
TNMG431FP KCM15	B123
TNMG431FP KCM25B	B123
TNMG431FP KCU10	B123
TNMG431MN KCP10	B124
TNMG431MN KCP25	B124
TNMG431MN KCP25B	B124
TNMG431MN KCP30	B124
TNMG431MS KC5010	B125
TNMG431MS KC5025	B125
TNMG431MS KCU10	B125
TNMG431MS KCU25	B125
TNMG431P KCU10	B126
TNMG432FN KCP10B	B123
TNMG432FN KCP25	B123
TNMG432FP KCM15	B123
TNMG432FP KCU10	B123
TNMG432MN KCP10	B124
TNMG432MN KCP10B	B124
TNMG432MN KCP25	B124
TNMG432MN KCP25B	B124
TNMG432MN KCP40	B124
TNMG432MP KC5010	B124
TNMG432MP KCM15B	B124
TNMG432MP KCM25	B124
TNMG432MP KCM25B	B124
TNMG432MP KCP10B	B124
TNMG432MP KCU10	B124
TNMG432MR KCM25	B125
TNMG432MR KCP25B	B125
TNMG432MS K313	B125
TNMG432MS KC5010	B125
TNMG432MS KC5025	B125
TNMG432MS KCU10	B125
TNMG432MS KCU25	B125
TNMG432P KCU10	B126
TNMG432RN KCP10B	B126
TNMG432RN KCP25	B126
TNMG432RN KCP25B	B126
TNMG432RN KCP30	B126
TNMG432RN KCP30B	B126
TNMG432RN KCP40	B126
TNMG432RN KCP40B	B126
TNMG432RP KC5010	B127
TNMG432RP KC5025	B127
TNMG432RP KCK20B	B127
TNMG432RP KCM25	B127
TNMG432RP KCM25B	B127
TNMG432RP KCP10B	B127
TNMG432RP KCP25	B127
TNMG432RP KCP25B	B127
TNMG432RP KCP40B	B127
TNMG432RP KCU10	B127
TNMG432RP KCU25	B127
TNMG432UN KCK20	B127
TNMG432UP KCM25	B128
TNMG432UP KCM35	B128
TNMG433 K68	B122
TNMG433FN KCP10B	B123
TNMG433FN KCP25	B123
TNMG433MN KCP10B	B124
TNMG433MN KCP25	B124
TNMG433MN KCP25B	B124
TNMG433MN KCP30	B124
TNMG433MN KCP40B	B124
TNMG433MP KC5010	B124
TNMG433MP KCM25	B124
TNMG433MP KCM25B	B124
TNMG433MR KCM25B	B125
TNMG433MS KCU10	B125
TNMG433MS KCU25	B125
TNMG433P KCU10	B126
TNMG433RN KCP10	B126
TNMG433RN KCP10B	B126
TNMG433RN KCP25	B126
TNMG433RN KCP25B	B126
TNMG433RN KCP30B	B126
TNMG433RN KCP40B	B126
TNMG433RP KCM25	B127
TNMG433RP KCM25B	B127
TNMG433RP KCP10	B127
TNMG433RP KCP25B	B127
TNMG433RP KCP40	B127
TNMG433RP KCU10	B127
TNMG433RP KCU25	B127
TNMG433UN KCK15	B127
TNMG433UN KCK20	B127
TNMG434MP KC5010	B124
TNMG434RN KCP25	B126
TNMG434RN KCP25B	B126
TNMG434RP KCK15	B127
TNMG434RP KCM25	B127
TNMG434RP KCP10	B127
TNMG434RP KCP25B	B127
TNMG434RP KCU25	B127
TNMG434UN KCK20	B127
TNMG438RP KC5010	B127
TNMG438RP KCK20	B127
TNMG438RP KCP10B	B127
TNMG438RP KCP25B	B127
TNMG438RP KCP30	B127
TNMG542MS KC5025	B125
TNMG542MS KCU25	B125
TNMG542RN KCP10	B126
TNMG542RN KCP25	B126
TNMG542RN KCP25B	B126
TNMG542RN KCP30	B126
TNMG543MR KCP25B	B125
TNMG543RN KCP10	B126
TNMG543RN KCP10B	B126
TNMG543RN KCP25	B126
TNMG543RN KCP30B	B126
TNMG543RN KCP40	B126
TNMG543RP KC5010	B127
TNMG543RP KCM15	B127
TNMG543RP KCM25B	B127
TNMG543RP KCM35	B127
TNMG543RP KCP10	B127
TNMG543RP KCP25	B127
TNMG543RP KCU10	B127
TNMG543RP KCU25	B127
TNMG544MS K313	B125
TNMG544RN KCP10	B126
TNMG544RN KCP25	B126
TNMG544RN KCP25B	B126
TNMG544RN KCP30B	B126
TNMG544RN KCP40B	B126
TNMG544RP KCM25	B127
TNMG544RP KCP25B	B127
TNMG544RP KCU10	B127
TNMG666 KCP25	B122
TNMG666 KCP40	B122
TNMG666RN KCP10B	B126
TNMG666RN KCP25	B126
TNMG666RN KCP25B	B126
TNMG666RN KCP30B	B126
TNMG666RN KCP40B	B126
TNMG666RP KCM25	B127
TNMG666RP KCP25	B127
TNMG666RP KCP40	B127
TNMG666RP KCP40B	B127
TNMG666RP KCU10	B127
TNMM332RM KCP25	B128
TNMM332RM KCP25B	B128
TNMM332RM KCP30	B128
TNMM333RM KCP25	B128
TNMM432RM KCP25B	B128
TNMM432RP KCP10	B129
TNMM432RP KCP10B	B129
TNMM433RM KCP25	B128
TNMM433RM KCP25B	B128
TNMM433RM KCP30	B128
TNMM433RP KCM25B	B129
TNMM433RP KCP25	B129
TNMM434RM KCP25B	B128
TNMM434RP KCP10	B129
TNMM543RM KCP25	B128
TNMM543RM KCP30	B128
TNMM544RM KCP25	B128
TNMM666MR KCP25B	B128
TNMP331 K313	B129
TNMP331K KCP25B	B129
TNMP332 K313	B129
TNMP332K KCP10	B129
TNMP332K KCP25	B129
TNMP332K KCP25B	B129
TNMP432K KCP25	B129
TNMP432K KCP25B	B129
TNMP434 K68	B129
TNMS331 K68	B130
TNMS331FST KD1400	B366
TNMS331FST KD1425	B366
TNMS332 K68	B130
TNMS332FST KD1400	B366
TNMS332FST KD1425	B366
TNMS432 K68	B130
TNMS432 KC5410	B130
TP15	V114
TP20	T96–99, V25–26
TP7	V4–5
TP8	V111, V113–114
TPCB2205 KC5010	B266
TPCG2205L KC5010	B266
TPCG221L KC5010	B266
TPCG222L KC5010	B266
TPCH2205 KC5010	B266
TPCH221 KC5010	B266
TPG221 K313	B177
TPG221 K68	B177
TPG221 KC5010	B177
TPG221 KCU10	B177
TPG221F KD1425	B367
TPG221T0420 KY1615	B340
TPG222 K68	B177
TPG222 KC5010	B177
TPG222 KCU10	B177
TPG222T0420 KY1615	B340

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
TPG223T0420 KY1615	B340
TPG3205 K313	B177
TPG3205 K68	B177
TPG3205 KC5010	B177
TPG321 K313	B177
TPG321 K68	B177
TPG321 KC5010	B177
TPG321 KCU10	B177
TPG321F KD1425	B367
TPG321T0220 KY1615	B340
TPG321T0420 KY1615	B340
TPG322 K313	B177
TPG322 K68	B177
TPG322 KC5010	B177
TPG322 KCU10	B177
TPG322F KD1425	B367
TPG322T0220 KY1615	B340
TPG322T0420 KY1615	B340
TPG322T0820 KY3500	B320
TPG323 K313	B177
TPG323 KC5010	B177
TPG323T0420 KY1615	B340
TPG323T0820 KY3500	B320
TPG323T0820 KYK10	B320
TPG324 K68	B177
TPG324 KC5010	B177
TPG431 K313	B177
TPG431 K68	B177
TPG431 KC5010	B177
TPG431 KCU10	B177
TPG432 K313	B177
TPG432 K68	B177
TPG432 KC5010	B177
TPG432 KCP25B	B177
TPG432 KCU10	B177
TPG432F KD1425	B367
TPG432T0820 KY3500	B320
TPG433 K68	B177
TPG433 KC5010	B177
TPG433 KCU10	B177
TPG433T0820 KY3500	B320
TPG434 K68	B177
TPG434 KC5010	B177
TPGF221 KC5010	B177
TPGF222 KCU10	B177
TPGF321 KC5010	B177
TPGF321 KCU10	B177
TPGF322 KC5010	B177
TPGF322 KCP25B	B177
TPGF322 KCU10	B177
TPGF431 KCU10	B177
TPGF432 KCU10	B177
TPGH321 KCU10	B266
TPGH321 KCU25	B266
TPGH322 KC5010	B266
TPGT181505LF KC5010	B267
TPGT181505LF KCU10	B267
TPGT18151LF KC5010	B267
TPGT18151LF KC5025	B267
TPGT18151LF KC5410	B267
TPGT18151LF KCU10	B267
TPGT21505HP KC5010	B267
TPGT21505HP KC5025	B267
TPGT21505HP KCU10	B267
TPGT21505LF KC5010	B267
TPGT21505LF KC5025	B267
TPGT21505LF KCU10	B267
TPGT2150LF KCU10	B267
TPGT2151HP KC5010	B267
TPGT2151HP KC5025	B267
TPGT2151HP KC5410	B267
TPGT2151HP KCU25	B267
TPGT2151LF KC5010	B267
TPGT2151LF KC5025	B267
TPGT2151LF KC5410	B267
TPGT2151LF KCU10	B267
TPGT2152HP KC5010	B267
TPGT2152HP KC5410	B267
TPGT2152LF KC5010	B267
TPGT2152LF KCU10	B267
TPGT32505HP KC5010	B267
TPGT32505HP KCU10	B267
TPGT3251HP KC5010	B267
TPGT3251HP KC5025	B267
TPGT3251HP KC5410	B267
TPGT3251HP KCU10	B267
TPGT3251HP KCU25	B267
TPGT3251LF KC5010	B267
TPGT3251LF KC5025	B267
TPGT3252HP KC5010	B267
TPGT3252HP KC5410	B267
TPGT3252HP KCU10	B267
TPGT3252HP KCU25	B267
TPGT3252LF KC5010	B267
TPGT3252LF KC5410	B267
TPGT3252LF KCU10	B267
TPGW21505S0415MT KBH20	B341
TPGW2151EC KB1345	B312
TPGW2151FST KD1400	B367
TPGW2151FST KD1425	B367
TPGW2151S0415MT KBH20	B341
TPGW2152FST KD1400	B367
TPGW2152S0415C KB5630	B312, B340
TPGW2152S0415MT KBH20	B341
TPGW221S0415MT KBH10	B341
TPGW221S0525MT KBH10	B341
TPGW222S0525MT KBH10	B341
TPGW3251FST KD1425	B367
TPGW3251S0415MT KBH20	B341
TPGW3252FST KD1400	B367
TPGW3252FST KD1425	B367
TPGW3252S0415MT KBH20	B341
TPGW3252S0525MT KBH20	B341
TPGW331S0415MT KBH10	B341
TPGW331S0525MT KBH10	B341
TPGW332S0415MT KBH10	B341
TPGW332S0525MT KBH10	B341
TPGX0902ZPRGD KC7015	H85
TPGX0902ZPRGD KC7140	H85
TPGX0902ZPRGD KC7315	H85
TPGX1102ZPRGD KC7015	H85
TPGX1102ZPRGD KC7140	H85
TPGX1102ZPRGD KC7315	H85
TPGX1303ZPRGD KC7015	H85
TPGX1303ZPRGD KC7140	H85
TPGX1303ZPRGD KC7315	H85
TPGX1603ZPRGD KC7015	H85
TPGX1603ZPRGD KC7140	H85
TPGX1603ZPRGD KC7315	H85
TPMR221 KCK15B	B177
TPMR221 KCP25B	B177
TPMR222 KCP25B	B177
TPMR321 KCK15B	B177
TPMR321 KCP25B	B177
TPMR322 KCK15B	B177
TPMR322 KCP25B	B177
TPMR432 KCP25B	B177
TPMT181505LF KC5010	B268
TPMT18151FP KCU10	B267
TPMT18151LF KC5010	B268
TPMT18151LF KC5025	B268
TPMT18151LF KCK05	B268
TPMT18151LF KCK15	B268
TPMT18151LF KCM15B	B268
TPMT18151LF KCP10B	B268
TPMT18151LF KCP25	B268
TPMT18151LF KCP25B	B268
TPMT18151LF KT315	B268
TPMT18152FP KCP25	B267
TPMT18152FP KCU10	B267
TPMT18152FP KCU25	B267
TPMT21505FP KCU10	B267
TPMT21505LF KC5010	B268
TPMT21505UF KCP05	B269
TPMT2151FP KCP10	B267
TPMT2151FP KCP25	B267
TPMT2151FP KCU10	B267
TPMT2151FP KCU25	B267
TPMT2151LF K313	B268
TPMT2151LF KC5010	B268
TPMT2151LF KC5025	B268
TPMT2151LF KCK15B	B268
TPMT2151LF KCK20	B268
TPMT2151LF KCM15	B268
TPMT2151LF KCM25B	B268
TPMT2151LF KCP10	B268
TPMT2151LF KCP10B	B268
TPMT2151LF KCP25	B268
TPMT2151LF KCP25B	B268
TPMT2151LF KT315	B268
TPMT2151UF KC5010	B269
TPMT2151UF KCP05	B269
TPMT2152FP KCU10	B267
TPMT2152LF KC5010	B268
TPMT2152LF KC5025	B268
TPMT2152LF KCM25	B268
TPMT2152LF KCP10B	B268
TPMT2152LF KCP25	B268
TPMT2152LF KCP25B	B268
TPMT2152LF KT315	B268
TPMT2152MF KCK15	B268
TPMT2152MF KCK20	B268
TPMT2152MF KCM25	B268
TPMT2152MF KCP25	B268
TPMT2152MF KCP25B	B268
TPMT2152MP KCP25	B269
TPMT221FP KCP10B	B267
TPMT221FP KCU10	B267
TPMT221FP KCU25	B267
TPMT222FP KCU10	B267
TPMT3251FP KCK20	B267
TPMT3251FP KCM25	B267
TPMT3251FP KCP10	B267
TPMT3251FP KCP25	B267
TPMT3251FP KCU10	B267
TPMT3251FP KCU25	B267
TPMT3251LF KC5010	B268
TPMT3251LF KC5025	B268
TPMT3251LF KCK05	B268
TPMT3251LF KCK15	B268
TPMT3251LF KCM15	B268
TPMT3251LF KCM25B	B268
TPMT3251LF KCP10	B268
TPMT3251LF KCP10B	B268
TPMT3251LF KCP25	B268
TPMT3251LF KCP25B	B268
TPMT3251LF KT315	B268
TPMT3252FP KCP10	B267
TPMT3252FP KCP25	B267
TPMT3252FP KCU25	B267
TPMT3252LF KC5010	B268
TPMT3252LF KC5025	B268
TPMT3252LF KCK05	B268
TPMT3252LF KCK15	B268
TPMT3252LF KCK15B	B268
TPMT3252LF KCK20	B268
TPMT3252LF KCK20B	B268
TPMT3252LF KCM25	B268
TPMT3252LF KCP10B	B268
TPMT3252LF KCP25	B268
TPMT3252LF KCP25B	B268
TPMT3252LF KT315	B268
TPMT3252MF KCK15	B268
TPMT3252MF KCK20	B268
TPMT3252MF KCM15	B268
TPMT3252MF KCM25B	B268
TPMT3252MF KCP10	B268
TPMT3252MF KCP25	B268
TPMT3252MF KCP30	B268
TPMT3252MP KCK20B	B269
TPMT3252MP KCP25	B269
TPMT3252UF KCP10	B269
TPMT3253MF KCK15	B268
TPMT3253MF KCK20	B268
TPMT3253MF KCK20B	B268
TPMT3253MF KCP25	B268
TPMT3253MP KCP25	B269
TPMT432LF KC5010	B268
TPMT432LF KC5025	B268
TPMT432LF KCK20	B268
TPU221 K68	B178
TPU221 KCK15B	B178
TPU221T0220 KY1615	B341
TPU222 K68	B178
TPU222 KCK15B	B178
TPU222T0220 KY1615	B341
TPU321 K68	B178
TPU321 KCK15B	B178
TPU321 KCP25B	B178
TPU321T0220 KY1615	B341
TPU322 K68	B178
TPU322 KCK15B	B178
TPU322 KCP25B	B178
TPU322T0220 KY1615	B341
TPU323T0220 KY1615	B341
TPU432 K68	B178
TPU432 KCK15B	B178
TPU432 KCP25B	B178
TPU433 K68	B178
TPU433 KCK15B	B178
TPU433 KCP25B	B178
TRAOL1615D	E70
TRAOL162D	E70
TRAOL163D	E70
TRAOL164D	E70
TRAOL2015D	E70
TRAOL202D	E70
TRAOL203D	E70
TRAOL204D	E70
TRAOL2415E	E70
TRAOL242E	E70
TRAOL243E	E70
TRAOL244E	E70
TRAOR1615D	E70
TRAOR162D	E70
TRAOR163D	E70
TRAOR164D	E70
TRAOR2015D	E70
TRAOR202D	E70
TRAOR203D	E70
TRAOR204D	E70
TRAOR2415E	E70
TRAOR242E	E70
TRAOR243E	E70
TRAOR244E	E70
TRHOR1615D	E70
TRHOR162D	E70
TRHOR2015D	E70
TRM50L0432M	E71
TRM50L0620M	E71
TRM50L0632M	E71
TRM50L0640M	E71
TRM50L0920M	E71
TRM50L0932M	E71
TRM50L0950M	E71
TRM50R0432M	E71
TRM50R0620M	E71
TRM50R0632M	E71
TRM50R0640M	E71
TRM50R0720M	E71
TRM50R0920M	E71
TRM50R0932M	E71
TRM50R0940M	E71
TRM50R0950M	E71
TRTOR1615D	E71
TRTOR162D	E71
TRTOR2015D	E71
TRTOR202D	E71
TT15	K42–43, T119–120, U17–18
TT25	K42–43, V87–88, V91, W40–43
TT30	K42–43, W41
TTP15	S44–45, T120, U35–37
TTP20	S32, S50, V155–156
TTP25	S24
TTP9	U28–29
TWDL10TM	O56
TWDL12TM	O56
TWDL16TM	O56
TWDL20TM	O56
TWDL25TM	O56
TWDL32TM	O56
TWDLTM	O56
TWTMBC	O56
TWTMEXT	O56
TWTMINSERTDL10	O56
TWTMINSERTDL10W	O56
TWTMINSERTDL12	O56
TWTMINSERTDL12W	O56

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
TWTMINSERTDL16	056
TWTMINSERTDL20	056
TWTMINSERTDL25	056
TWTMINSERTDL32	056
UADE0250J4AQA KCPM15	P21
UADE0250J4AQB KCPM15	P21
UADE0375J4AQA KCPM15	P21
UADE0375J4AQB KCPM15	P21
UADE0500J4AQB KCPM15	P21
UADE0625J4AQB KCPM15	P21
UADE0750J4AQB KCPM15	P21
UADE0750J4BQB KCPM15	P21
UADE1000J4ARA KC643M	P19
UADE1000J4ARB KC643M	P19
UADE1000J4ARC KC643M	P19
UADE1000J4ARD KC643M	P19
UADE1000J4ARF KC643M	P19
UADE1000J4BQB KCPM15	P21
UADE250J4ARA KC643M	P16
UADE250J4ARC KC643M	P17
UADE375J4ARA KC643M	P17
UADE375J4ARB KC643M	P17
UADE375J4ARC KC643M	P18
UADE375J4BRA KC643M	P18
UADE375J4BRB KC643M	P18
UADE500J4ARA KC643M	P18
UADE500J4ARB KC643M	P18
UADE500J4ARC KC643M	P18
UADE500J4ARE KC643M	P18
UADE500J4BRA KC643M	P18
UADE500J4BRB KC643M	P18
UADE500J4BRC KC643M	P18
UADE500J4BRD KC643M	P18
UADE500J4BRE KC643M	P18
UADE500J4CRA KC643M	P18
UADE500J4CRB KC643M	P18
UADE500J4CRC KC643M	P18
UADE500J4CRD KC643M	P18
UADE500J4CRE KC643M	P18
UADE625J4ARB KC643M	P19
UADE625J4ARC KC643M	P19
UADE750J4ARB KC643M	P19
UADE750J4ARE KC643M	P19
UADE750J4BRA KC643M	P19
UADE750J4BRB KC643M	P19
UADE750J4BRC KC643M	P19
UADE750J4BRE KC643M	P19
UBDE0500N4AQA KCSM15	P21
UBDE0500N4AQB KCSM15	P21
UBDE0625N4AQB KCSM15	P21
UBDE0625N4AQC KCSM15	P21
UBDE0750N4AQB KCSM15	P21
UBDE0750N4AQC KCSM15	P21
UBDE0750N4AQD KCSM15	P21
UBDE0750N4AQE KCSM15	P21
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UBDE0750N4BQC KCSM15	P21
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UBDE1000N4BQB KCSM15	P21
UBDE1000N4BQC KCSM15	P21
UBDE1000N4BQE KCSM15	P21
UCDE1000J5BRA KC643M	P31
UCDE1000J5BRB KC643M	P31
UCDE1000J5BRB KCPM15	P31
UCDE1000J5BRD KC643M	P31
UCDE1000J5BRD KCPM15	P31
UCDE1000J5BRE KC643M	P31
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UCDE1000J5BS KCPM15	P31
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UCDE1000K5ARB KCPM15	P32
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UCDE1000K5BS KC643M	P31
UCDE1000K5BS KCPM15	P31
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UCDE188J5BS KC643M	P30
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UCDE219J5BS KC643M	P30
UCDE250J5ARA KC643M	P32
UCDE250J5ARA KCPM15	P32
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UCDE375J5ARA KC643M	P32
UCDE375J5ARA KCPM15	P32
UCDE375J5BRA KC643M	P30
UCDE375J5BRA KCPM15	P30
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UCDE375J5BS KC643M	P30
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UCDE500J5BRA KC643M	P30
UCDE500J5BRA KCPM15	P30
UCDE500J5BRB KC643M	P30
UCDE500J5BRB KCPM15	P30
UCDE500J5BRD KC643M	P30
UCDE500J5BRF KC643M	P30
UCDE500J5BRF KCPM15	P30
UCDE500J5BS KC643M	P30
UCDE500J5BS KCPM15	P30
UCDE500K5ARB KC643M	P32
UCDE500K5ARB KCPM15	P32
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UCDE750J5BRF KC643M	P31
UCDE750J5BRF KCPM15	P31
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UCDE750J5CRF KC643M	P31
UCDE750J5CS KC643M	P31
UCDE750K5ARB KC643M	P32
UCDE750K5ARB KCPM15	P32
UCDE750K5BRB KC643M	P30
UCDE750K5BRB KCPM15	P30
UCDE750K5BRF KC643M	P31
UCDE750K5BS KC643M	P31
UCDE750K5BS KCPM15	P31
UCDV0375Y5CU KCPM15	012
UCDV0375Y5CV KCPM15	012
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UCDV1000Y5CV KCPM15	012
UCDV1250Y5CU KCPM15	012
UCDV1250Y5CV KCPM15	012
UDDE1000J5BRB KC643M	P33
UDDE1000J5BRF KC643M	P33
UDDE1000J5BS KC643M	P33
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UDDE1000K5BS KC643M	P33
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UDDE500J5BRB KC643M	P33
UDDE500J5BRF KC643M	P33
UDDE500J5BS KC643M	P33
UDDE500K5BRA KC643M	P33
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UDDE500K5BRF KC643M	P33
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UDDE625K5BS KC643M	P33
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UDDE750J5BS KC643M	P33
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UDDE750K5BRF KC643M	P33
UDDE750K5BS KC643M	P33
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UDDV1000Y5CQF KC643M	013
UDDV1250Y5CQD KC643M	013
UDDV1250Y5CQF KC643M	013
UEBD0078J2A KC643M	P168
UEBD0078J3A KC643M	P169
UEBD0094J2A KC643M	P168
UEBD0094J3A KC643M	P169
UEBD0125J2A KC643M	P168
UEBD0125J3A KC643M	P169
UEBD0156J2A KC643M	P168
UEBD0156J3A KC643M	P169
UEBD0188J2A KC643M	P168
UEBD0188J3A KC643M	P169
UEBD0250J2A KC643M	P168
UEBD0250J3A KC643M	P169
UEBD0312J2A KC643M	P168
UEBD0312J3A KC643M	P169
UEBD0375J2A KC643M	P168
UEBD0375J3A KC643M	P169
UEBD0437J2A KC643M	P168
UEBD0437J3A KC643M	P169
UEBD0500J2A KC643M	P168
UEBD0500J3A KC643M	P169
UEDE0078J3AS KC643M	P166
UEDE0094J3AS KC643M	P166
UEDE0125J3AS KC643M	P166
UEDE0156J3AS KC643M	P166
UEDE0156J4AH KC643M	P167
UEDE0188J3AS KC643M	P166
UEDE0188J4AH KC643M	P167
UEDE0250J3AS KC643M	P166
UEDE0250J4AH KC643M	P167
UEDE0312J3AS KC643M	P166
UEDE0312J4AH KC643M	P167
UEDE0375J3AS KC643M	P166
UEDE0375J4AH KC643M	P167
UEDE0437J3AS KC643M	P166
UEDE0437J4AH KC643M	P167
UEDE0500J3AS KC643M	P166
UEDE0500J4AH KC643M	P167
UGDE0250J5AE KC643M	P38
UGDE0250J5ARA KC643M	P38
UGDE0250J5ARB KC643M	P38
UGDE0250J5BE KC643M	P39
UGDE0250J5BRA KC643M	P39
UGDE0250J5BRB KC643M	P39
UGDE0312J5AE KC643M	P38
UGDE0312J5ARA KC643M	P38
UGDE0312J5ARB KC643M	P38
UGDE0312J5BE KC643M	P39
UGDE0312J5BRA KC643M	P39
UGDE0312J5BRB KC643M	P39
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UGDE0375J5BE KC643M	P39
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UGDE0375J5BRB KC643M	P39
UGDE0375J5BRC KC643M	P39
UGDE0500J5AE KC643M	P38
UGDE0500J5ARA KC643M	P38
UGDE0500J5ARB KC643M	P38
UGDE0500J5ARC KC643M	P38
UGDE0500J5BE KC643M	P39
UGDE0500J5BRA KC643M	P39
UGDE0500J5BRB KC643M	P39
UGDE0500J5BRC KC643M	P39
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UGDE0625J5ARA KC643M	P38
UGDE0625J5ARB KC643M	P38
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UGDE0625J5ARD KC643M	P38
UGDE0625J5BE KC643M	P39
UGDE0625J5BRA KC643M	P39
UGDE0625J5BRB KC643M	P39
UGDE0625J5BRC KC643M	P39
UGDE0625J5BRD KC643M	P39
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UGDE0750J5ARA KC643M	P38
UGDE0750J5ARB KC643M	P38
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UGDE0750J5ARD KC643M	P38
UGDE0750J5BE KC643M	P39
UGDE0750J5BRA KC643M	P39
UGDE0750J5BRB KC643M	P39
UGDE0750J5BRC KC643M	P39
UGDE0750J5BRD KC643M	P39
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UGDE1000J5ARB KC643M	P38
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UGDE1000J5ARD KC643M	P38
UGDE1000J5BE KC643M	P39
UGDE1000J5BRA KC643M	P39
UGDE1000J5BRB KC643M	P39
UGDE1000J5BRC KC643M	P39
UGDE1000J5BRD KC643M	P39
UJBE0125J6BP KCSM15	P74

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
UJBE0125J6CP KCSM15	P74
UJBE0188J6BP KCSM15	P74
UJBE0188J6CP KCSM15	P74
UJBE0250J6BP KCSM15	P74
UJBE0250J6CP KCSM15	P74
UJBE0312J6BP KCSM15	P74
UJBE0312J6CP KCSM15	P74
UJBE0375J6AL KCSM15	P53
UJBE0375J6B KCSM15	P52
UJBE0375J6BP KCSM15	P74
UJBE0375J6CP KCSM15	P74
UJBE0438J6BP KCSM15	P74
UJBE0438J6CP KCSM15	P74
UJBE0500J6AL KCSM15	P53
UJBE0500J6B KCSM15	P52
UJBE0500J6BB KCSM15	P66
UJBE0500J6C KCSM15	P52
UJBE0500J6CB KCSM15	P66
UJBE0500J6DB KCSM15	P66
UJBE0500J6ZB KCSM15	P66
UJBE0625J6AL KCSM15	P53
UJBE0625J6B KCSM15	P52
UJBE0750J6AB KCSM15	P66
UJBE0750J6AL KCSM15	P53
UJBE0750J6B KCSM15	P52
UJBE0750J6DB KCSM15	P66
UJBE0750J6EB KCSM15	P66
UJBE0750J6ZB KCSM15	P66
UJBE1000J6AL KCSM15	P53
UJBE1000J6B KCSM15	P52
UJBE1000N6AB KCSM15	P66
UJBE1000N6CB KCSM15	P66
UJBE1000N6DB KCSM15	P66
UJBE1000N6EB KCSM15	P66
UJBE1000N6FB KCSM15	P66
UJBE1000N6GB KCSM15	P66
UJBE1000N6HB KCSM15	P66
UJBE1000N6XB KCSM15	P66
UJBE1000N6ZB KCSM15	P66
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UJBE1250N6CB KCSM15	P66
UJBE1250N6DB KCSM15	P66
UJBE1250N6EB KCSM15	P66
UJBE1250N6FB KCSM15	P66
UJBE1250N6GB KCSM15	P66
UJBE1250N6HB KCSM15	P66
UJBE1250N6JB KCSM15	P66
UJBE1250N6XB KCSM15	P66
UJBE1250N6ZB KCSM15	P66
UJBE1500N6AB KCSM15	P67
UJBE1500N6BB KCSM15	P67
UJBE1500N6CB KCSM15	P67
UJBE1500N6DB KCSM15	P67
UJBE1500N6FB KCSM15	P67
UJBE1500N6GB KCSM15	P67
UJBE1500N6HB KCSM15	P67
UJBE1500N6ZB KCSM15	P67
UJBV0375Y6CN KCSM15	019
UJBV0500Y6CN KCSM15	019
UJBV0625Y6CN KCSM15	019
UJBV0750Y6CN KCSM15	019
UJBV1000Y6CN KCSM15	019
UJDE0375J6BQE KCSM15	P46
UJDE0500J6ABB KCSM15	P60
UJDE0500J6ABC KCSM15	P60
UJDE0500J6ABD KCSM15	P60
UJDE0500J6ABE KCSM15	P60
UJDE0500J6ABH KCSM15	P60
UJDE0500J6ARB KCSM15	P44
UJDE0500J6ARC KCSM15	P44
UJDE0500J6CBB KCSM15	P60
UJDE0500J6CBC KCSM15	P60
UJDE0500J6CBD KCSM15	P60
UJDE0500J6CBE KCSM15	P60
UJDE0500J6CBH KCSM15	P60
UJDE0500J6CRB KCSM15	P44
UJDE0500J6CRE KCSM15	P44
UJDE0500J6DBB KCSM15	P60
UJDE0500J6DBC KCSM15	P60
UJDE0500J6DBD KCSM15	P60
UJDE0500J6DBE KCSM15	P60
UJDE0500J6DBH KCSM15	P60
UJDE0500J6DQB KCSM15	P46
UJDE0500J6ZBB KCSM15	P60
UJDE0500J6ZBC KCSM15	P60
UJDE0500J6ZBD KCSM15	P60
UJDE0500J6ZBE KCSM15	P60
UJDE0500J6ZBH KCSM15	P60
UJDE0625J6ARA KCSM15	P44
UJDE0625J6CRB KCSM15	P44
UJDE0625J6CRC KCSM15	P44
UJDE0625J6CRD KCSM15	P44
UJDE0625J6CRE KCSM15	P44
UJDE0625J6DQB KCSM15	P46
UJDE0750J6ABB KCSM15	P60
UJDE0750J6ABC KCSM15	P60
UJDE0750J6ABD KCSM15	P60
UJDE0750J6ABE KCSM15	P60
UJDE0750J6ABF KCSM15	P60
UJDE0750J6ABH KCSM15	P60
UJDE0750J6ARB KCSM15	P44
UJDE0750J6BRH KCSM15	P44
UJDE0750J6DBB KCSM15	P61
UJDE0750J6DBC KCSM15	P61
UJDE0750J6DBD KCSM15	P61
UJDE0750J6DBE KCSM15	P61
UJDE0750J6DBF KCSM15	P61
UJDE0750J6DBH KCSM15	P61
UJDE0750J6EBB KCSM15	P61
UJDE0750J6EBC KCSM15	P61
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UJDE1000J6CRH KCSM15	P45
UJDE1000J6CS KCSM15	P45
UJDE1000J6DRB KCSM15	P45
UJDE1000J6DS KCSM15	P45
UJDE1000N6ABB KCSM15	P61
UJDE1000N6ABC KCSM15	P61
UJDE1000N6ABD KCSM15	P61
UJDE1000N6ABE KCSM15	P61
UJDE1000N6ABF KCSM15	P61
UJDE1000N6ABH KCSM15	P61
UJDE1000N6ABK KCSM15	P61
UJDE1000N6BQB KCSM15	P46
UJDE1000N6BRB KCSM15	P45
UJDE1000N6BRC KCSM15	P45
UJDE1000N6BRE KCSM15	P45
UJDE1000N6BRF KCSM15	P45
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UJDE1000N6CBD KCSM15	P61
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UJDE1000N6CBH KCSM15	P61
UJDE1000N6CBK KCSM15	P61
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UJDE1000N6EBE KCSM15	P62
UJDE1000N6EBF KCSM15	P62
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UJDE1000N6GBF KCSM15	P62
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UJDE1000N6XBE KCSM15	P61
UJDE1000N6XBF KCSM15	P61
UJDE1000N6XBH KCSM15	P61
UJDE1000N6XBK KCSM15	P61
UJDE1000N6ZBB KCSM15	P61
UJDE1000N6ZBC KCSM15	P61
UJDE1000N6ZBD KCSM15	P61
UJDE1000N6ZBE KCSM15	P61
UJDE1000N6ZBF KCSM15	P61
UJDE1000N6ZBH KCSM15	P61
UJDE1000N6ZBK KCSM15	P61
UJDE1250J6BRB KCSM15	P45
UJDE1250N6ABB KCSM15	P62
UJDE1250N6ABC KCSM15	P62
UJDE1250N6ABD KCSM15	P62
UJDE1250N6ABE KCSM15	P62
UJDE1250N6ABF KCSM15	P62
UJDE1250N6ABH KCSM15	P62
UJDE1250N6ABJ KCSM15	P62
UJDE1250N6ABK KCSM15	P62
UJDE1250N6BRB KCSM15	P45
UJDE1250N6BRE KCSM15	P45
UJDE1250N6BS KCSM15	P45
UJDE1250N6CBB KCSM15	P62
UJDE1250N6CBC KCSM15	P62
UJDE1250N6CBD KCSM15	P62
UJDE1250N6CBE KCSM15	P62
UJDE1250N6CBF KCSM15	P63
UJDE1250N6CBH KCSM15	P62
UJDE1250N6CBJ KCSM15	P63
UJDE1250N6CBK KCSM15	P63
UJDE1250N6DBB KCSM15	P63
UJDE1250N6DBC KCSM15	P63
UJDE1250N6DBD KCSM15	P63
UJDE1250N6DBE KCSM15	P63
UJDE1250N6DBF KCSM15	P63
UJDE1250N6DBH KCSM15	P63
UJDE1250N6DBJ KCSM15	P63
UJDE1250N6DBK KCSM15	P63
UJDE1250N6EBB KCSM15	P63
UJDE1250N6EBC KCSM15	P63
UJDE1250N6EBD KCSM15	P63
UJDE1250N6EBE KCSM15	P63
UJDE1250N6EBF KCSM15	P63
UJDE1250N6EBH KCSM15	P63
UJDE1250N6EBJ KCSM15	P63
UJDE1250N6EBK KCSM15	P63
UJDE1250N6FBB KCSM15	P63
UJDE1250N6FBC KCSM15	P63
UJDE1250N6FBD KCSM15	P63
UJDE1250N6FBE KCSM15	P63
UJDE1250N6FBF KCSM15	P63
UJDE1250N6FBH KCSM15	P63
UJDE1250N6FBJ KCSM15	P63
UJDE1250N6FBK KCSM15	P63
UJDE1250N6GBB KCSM15	P63
UJDE1250N6GBC KCSM15	P63
UJDE1250N6GBD KCSM15	P63
UJDE1250N6GBE KCSM15	P63
UJDE1250N6GBF KCSM15	P63
UJDE1250N6GBH KCSM15	P63
UJDE1250N6GBJ KCSM15	P63
UJDE1250N6GBK KCSM15	P63
UJDE1250N6HBB KCSM15	P63
UJDE1250N6HBC KCSM15	P63
UJDE1250N6HBD KCSM15	P63
UJDE1250N6HBE KCSM15	P63
UJDE1250N6HBF KCSM15	P63
UJDE1250N6HBH KCSM15	P63
UJDE1250N6HBJ KCSM15	P63
UJDE1250N6HBK KCSM15	P63
UJDE1250N6JBB KCSM15	P63
UJDE1250N6JBC KCSM15	P63
UJDE1250N6JBD KCSM15	P63
UJDE1250N6JBE KCSM15	P63
UJDE1250N6JBF KCSM15	P63
UJDE1250N6JBH KCSM15	P63
UJDE1250N6JBJ KCSM15	P63
UJDE1250N6JBK KCSM15	P63
UJDE1250N6XBB KCSM15	P62
UJDE1250N6XBC KCSM15	P62
UJDE1250N6XBD KCSM15	P62
UJDE1250N6XBE KCSM15	P62
UJDE1250N6XBF KCSM15	P62
UJDE1250N6XBH KCSM15	P62
UJDE1250N6XBJ KCSM15	P62
UJDE1250N6XBK KCSM15	P62
UJDE1250N6ZBB KCSM15	P62
UJDE1250N6ZBC KCSM15	P62
UJDE1250N6ZBD KCSM15	P62
UJDE1250N6ZBE KCSM15	P62
UJDE1250N6ZBF KCSM15	P62
UJDE1250N6ZBH KCSM15	P62
UJDE1250N6ZBJ KCSM15	P62
UJDE1250N6ZBK KCSM15	P62
UJDE1500N6ABB KCSM15	P64
UJDE1500N6ABC KCSM15	P64
UJDE1500N6ABD KCSM15	P64
UJDE1500N6ABE KCSM15	P64
UJDE1500N6ABF KCSM15	P64
UJDE1500N6ABH KCSM15	P64
UJDE1500N6ABJ KCSM15	P64
UJDE1500N6ABK KCSM15	P64
UJDE1500N6ABL KCSM15	P64
UJDE1500N6BBB KCSM15	P64
UJDE1500N6BBC KCSM15	P64
UJDE1500N6BBD KCSM15	P64
UJDE1500N6BBE KCSM15	P64
UJDE1500N6BBF KCSM15	P64
UJDE1500N6BBH KCSM15	P64
UJDE1500N6BBJ KCSM15	P64
UJDE1500N6BBK KCSM15	P64
UJDE1500N6BBL KCSM15	P64
UJDE1500N6CBB KCSM15	P64
UJDE1500N6CBC KCSM15	P64
UJDE1500N6CBD KCSM15	P64
UJDE1500N6CBE KCSM15	P64
UJDE1500N6CBF KCSM15	P64
UJDE1500N6CBH KCSM15	P64
UJDE1500N6CBJ KCSM15	P64
UJDE1500N6CBK KCSM15	P64
UJDE1500N6CBL KCSM15	P64
UJDE1500N6DBB KCSM15	P65
UJDE1500N6DBC KCSM15	P65
UJDE1500N6DBD KCSM15	P65
UJDE1500N6DBE KCSM15	P65
UJDE1500N6DBF KCSM15	P65
UJDE1500N6DBH KCSM15	P65
UJDE1500N6DBJ KCSM15	P65
UJDE1500N6DBK KCSM15	P65
UJDE1500N6DBL KCSM15	P65
UJDE1500N6FBB KCSM15	P64
UJDE1500N6FBC KCSM15	P64

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
UJDE1500N6FBD KCSM15	P64
UJDE1500N6FBE KCSM15	P64
UJDE1500N6FBF KCSM15	P64
UJDE1500N6FBH KCSM15	P64
UJDE1500N6FBJ KCSM15	P64
UJDE1500N6FBK KCSM15	P64
UJDE1500N6FBL KCSM15	P65
UJDE1500N6GBB KCSM15	P65
UJDE1500N6GBC KCSM15	P65
UJDE1500N6GBD KCSM15	P65
UJDE1500N6GBE KCSM15	P65
UJDE1500N6GBF KCSM15	P65
UJDE1500N6GBH KCSM15	P65
UJDE1500N6GBJ KCSM15	P65
UJDE1500N6GBK KCSM15	P65
UJDE1500N6GBL KCSM15	P65
UJDE1500N6HBB KCSM15	P65
UJDE1500N6HBC KCSM15	P65
UJDE1500N6HBD KCSM15	P65
UJDE1500N6HBE KCSM15	P65
UJDE1500N6HBF KCSM15	P65
UJDE1500N6HBH KCSM15	P65
UJDE1500N6HBJ KCSM15	P65
UJDE1500N6HBK KCSM15	P65
UJDE1500N6HBL KCSM15	P65
UJDE1500N6XBB KCSM15	P63
UJDE1500N6XBC KCSM15	P64
UJDE1500N6XBD KCSM15	P64
UJDE1500N6XBE KCSM15	P64
UJDE1500N6XBF KCSM15	P64
UJDE1500N6XBH KCSM15	P64
UJDE1500N6XBJ KCSM15	P64
UJDE1500N6XBK KCSM15	P64
UJDE1500N6XBL KCSM15	P64
UJDE1500N6ZBB KCSM15	P64
UJDE1500N6ZBC KCSM15	P64
UJDE1500N6ZBD KCSM15	P64
UJDE1500N6ZBE KCSM15	P64
UJDE1500N6ZBF KCSM15	P64
UJDE1500N6ZBH KCSM15	P64
UJDE1500N6ZBJ KCSM15	P64
UJDE1500N6ZBK KCSM15	P64
UJDE1500N6ZBL KCSM15	P64
UJDE375J6BQA KCSM15	P46
UJDE375J6CRA KCSM15	P44
UJDE375J6CRB KCSM15	P44
UJDE375J6CRC KCSM15	P44
UJDE375J6CS KCSM15	P44
UJDE500J6BRA KCSM15	P44
UJDE500J6BRB KCSM15	P44
UJDE500J6BRC KCSM15	P44
UJDE500J6BRE KCSM15	P44
UJDE500J6BS KCSM15	P44
UJDE500N6BQB KCSM15	P46
UJDE500N6BRA KCSM15	P44
UJDE500N6BRB KCSM15	P44
UJDE500N6BRC KCSM15	P44
UJDE500N6BRE KCSM15	P44
UJDE500N6BS KCSM15	P44
UJDE625J6BRB KCSM15	P44
UJDE625J6BRC KCSM15	P44
UJDE625J6BS KCSM15	P44
UJDE625N6BQB KCSM15	P46
UJDE625N6BRB KCSM15	P44
UJDE625N6BRC KCSM15	P44
UJDE625N6BS KCSM15	P44
UJDE750J6BRB KCSM15	P44
UJDE750J6BRC KCSM15	P44
UJDE750J6BRD KCSM15	P44
UJDE750J6BRE KCSM15	P44
UJDE750J6BS KCSM15	P44
UJDE750J6CRB KCSM15	P45
UJDE750J6CRC KCSM15	P45
UJDE750J6CRD KCSM15	P45
UJDE750J6CRE KCSM15	P45
UJDE750J6CS KCSM15	P45
UJDE750N6BQB KCSM15	P46
UJDE750N6BRB KCSM15	P44
UJDE750N6BRC KCSM15	P44
UJDE750N6BRD KCSM15	P44
UJDE750N6BRE KCSM15	P44
UJDE750N6BS KCSM15	P44
UJDE750N6CRB KCSM15	P45
UJDE750N6CRC KCSM15	P45
UJDE750N6CRD KCSM15	P45
UJDE750N6CRE KCSM15	P45
UJDE750N6CS KCSM15	P45
UJDV0375Y6CQA KCSM15	016
UJDV0375Y6CQB KCSM15	016
UJDV0375Y6CQC KCSM15	016
UJDV0375Y6CQD KCSM15	016
UJDV0500Y6CQA KCSM15	016
UJDV0500Y6CQB KCSM15	016
UJDV0500Y6CQC KCSM15	016
UJDV0500Y6CQD KCSM15	016
UJDV0500Y6CQE KCSM15	016
UJDV0625Y6CQA KCSM15	016
UJDV0625Y6CQB KCSM15	016
UJDV0625Y6CQC KCSM15	016
UJDV0625Y6CQD KCSM15	016
UJDV0625Y6CQE KCSM15	016
UJDV0750Y6CQB KCSM15	016
UJDV0750Y6CQC KCSM15	016
UJDV0750Y6CQD KCSM15	016
UJDV0750Y6CQE KCSM15	016
UJDV1000Y6CQB KCSM15	016
UJDV1000Y6CQC KCSM15	016
UJDV1000Y6CQD KCSM15	016
UJDV1000Y6CQE KCSM15	016
UJDV1000Y6CQF KCSM15	016
UJDV1250Y6CQD KCSM15	016
UJDV1250Y6CQF KCSM15	016
UKBV0375Y4CN KCPM15	018
UKBV0500Y4CN KCPM15	018
UKBV0625Y4CN KCPM15	018
UKBV0750Y4CN KCPM15	018
UKBV1000Y4CN KCPM15	018
UKDV0375Y4CU KCPM15	08
UKDV0375Y4CV KCPM15	08
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UKDV1250Y4CV KCPM15	08
ULDV0375Y4CQA KCSM15	09
ULDV0375Y4CQB KCSM15	09
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ULDV0375Y4CQD KCSM15	09
ULDV0500Y4CQA KCSM15	09
ULDV0500Y4CQB KCSM15	09
ULDV0500Y4CQC KCSM15	09
ULDV0500Y4CQD KCSM15	09
ULDV0500Y4CQE KCSM15	09
ULDV0625Y4CQA KCSM15	09
ULDV0625Y4CQB KCSM15	09
ULDV0625Y4CQC KCSM15	09
ULDV0625Y4CQD KCSM15	09
ULDV0625Y4CQE KCSM15	09
ULDV0750Y4CQB KCSM15	09
ULDV0750Y4CQC KCSM15	09
ULDV0750Y4CQD KCSM15	09
ULDV0750Y4CQE KCSM15	09
ULDV1000Y4CQB KCSM15	09
ULDV1000Y4CQC KCSM15	09
ULDV1000Y4CQD KCSM15	09
ULDV1000Y4CQE KCSM15	09
ULDV1000Y4CQF KCSM15	09
ULDV1250Y4CQD KCSM15	09
ULDV1250Y4CQF KCSM15	09
VBGT2205HP KC5010	B280
VBGT2205HP KC5025	B280
VBGT2205HP KC5410	B280
VBGT2205HP KCU10	B280
VBGT2205LF K68	B280
VBGT2205LF KC5010	B280
VBGT2205LF KC5025	B280
VBGT2205LF KCU10	B280
VBGT220LF KC5010	B280
VBGT220LF KC5025	B280
VBGT220LF KC5410	B280
VBGT220LF KCU10	B280
VBGT221HP KC5010	B280
VBGT221HP KC5025	B280
VBGT221HP KC5410	B280
VBGT221HP KCU10	B280
VBGT221HP KCU25	B280
VBGT221LF K313	B280
VBGT221LF KC5010	B280
VBGT221LF KC5025	B280
VBGT221LF KCU10	B280
VBGT22X0LF KC5025	B280
VBGT3305LF K313	B280
VBGT3305LF KC5010	B280
VBGT3305LF KC5025	B280
VBGT3305LF KC5410	B280
VBGT3305LF KCU10	B280
VBGT330LF KC5010	B280
VBGT330LF KC5025	B280
VBGT330LF KCU10	B280
VBGT331HP K313	B280
VBGT331HP K68	B280
VBGT331HP KC5010	B280
VBGT331HP KC5025	B280
VBGT331HP KC5410	B280
VBGT331HP KCU10	B280
VBGT331HP KCU25	B280
VBGT331LF KC5010	B280
VBGT331LF KC5025	B280
VBGT331LF KC5410	B280
VBGT331LF KCU10	B280
VBGT332HP K313	B280
VBGT332HP KC5010	B280
VBGT332HP KC5025	B280
VBGT332HP KC5410	B280
VBGT332HP KCU10	B280
VBGT332HP KCU25	B280
VBGT33X0LF KC5025	B280
VBGW221FST KD1400	B368
VBGW221FST KD1425	B368
VBGW221S0415MT KBH10	B341
VBGW221S0415MT KBH20	B341
VBGW221S0525MT KBH20	B341
VBGW222S0415MT KBH10	B341
VBGW222S0525MT KBH20	B341
VBGW331FST KD1400	B368
VBGW331FST KD1425	B368
VBGW331S0415MT KB5630	B312, B341
VBGW331S0415MT KBH10	B341
VBGW332E KD1405	B367
VBGW332S0415MT KB5630	B312, B341
VBGW332S0415MT KBH10	B341
VBGW332S0415MT KBH20	B341
VBGW333S0415MT KBH20	B341
VBMR2205FP KCP25	E36
VBMR221 KC5010	E36
VBMR221 KC5025	E36
VBMR221 KT315	E36
VBMR221FP KCP10	E36
VBMR221FP KCP25	E36
VBMR221FP KCU25	E36
VBMR222FP KCP10	E36
VBMR222FP KCU10	E36
VBMT220511 KT315	B280
VBMT2205FP KCP25	B281
VBMT2205FP KCU10	B281
VBMT2205LF KC5010	B281
VBMT2205LF KT315	B281
VBMT22111 KT315	B280
VBMT221FP KCM15	B281
VBMT221FP KCM25	B281
VBMT221FP KCP10	B281
VBMT221FP KCP25	B281
VBMT221FP KCU10	B281
VBMT221FP KCU25	B281
VBMT221FP KTP10	B281
VBMT221LF K313	B281
VBMT221LF KC5010	B281
VBMT221LF KC5025	B281
VBMT221LF KCK05	B281
VBMT221LF KCM15	B281
VBMT221LF KCM25B	B281
VBMT221LF KCP05	B281
VBMT221LF KCP10	B281
VBMT221LF KCP10B	B281
VBMT221LF KCP25	B281
VBMT221LF KCP25B	B281
VBMT221LF KT315	B281
VBMT222FP KCM15	B281
VBMT222FP KCP25	B281
VBMT222FP KCU10	B281
VBMT222FP KCU25	B281
VBMT222LF KC5010	B281
VBMT222LF KC5025	B281
VBMT222LF KCK05	B281
VBMT222LF KCK20B	B281
VBMT222LF KCM25	B281
VBMT222LF KCP05	B281
VBMT222LF KCP10	B281
VBMT222LF KCP25	B281
VBMT222LF KCP25B	B281
VBMT3305FP KCM25	B281
VBMT3305FP KCP25	B281
VBMT3305FP KCU10	B281
VBMT3305FP KCU25	B281
VBMT3305FP KTP10	B281
VBMT3305LF K313	B281
VBMT3305LF KC5010	B281
VBMT3305LF KC5025	B281
VBMT3305LF KT315	B281
VBMT33111 KT315	B280
VBMT331FP KCK20B	B281
VBMT331FP KCM15	B281
VBMT331FP KCM25	B281
VBMT331FP KCP05	B281
VBMT331FP KCP10	B281
VBMT331FP KCP10B	B281
VBMT331FP KCP25	B281
VBMT331FP KCP25B	B281
VBMT331FP KCU10	B281
VBMT331FP KCU25	B281
VBMT331FP KTP10	B281
VBMT331LF K313	B281
VBMT331LF KC5010	B281
VBMT331LF KC5025	B281
VBMT331LF KCK15	B281
VBMT331LF KCK15B	B281
VBMT331LF KCK20B	B281
VBMT331LF KCM15	B281
VBMT331LF KCM15B	B281
VBMT331LF KCM25	B281
VBMT331LF KCM25B	B281
VBMT331LF KCM35	B281
VBMT331LF KCP10	B281
VBMT331LF KCP10B	B281
VBMT331LF KCP25	B281
VBMT331LF KCP25B	B281
VBMT331LF KCP30	B281
VBMT331LF KT315	B281
VBMT331MP KCM25	B281
VBMT331MP KCM25B	B281
VBMT331MP KCP25	B281
VBMT331MP KCP25B	B281
VBMT33211 KT315	B280
VBMT332FP KCK20	B281
VBMT332FP KCK20B	B281
VBMT332FP KCM15	B281
VBMT332FP KCM25	B281
VBMT332FP KCP05	B281
VBMT332FP KCP10	B281
VBMT332FP KCP10B	B281
VBMT332FP KCP25	B281
VBMT332FP KCP25B	B281
VBMT332FP KCU10	B281
VBMT332FP KCU25	B281
VBMT332FP KTP10	B281
VBMT332LF K313	B281
VBMT332LF KC5010	B281
VBMT332LF KC5025	B281
VBMT332LF KCK05	B281
VBMT332LF KCK15	B281
VBMT332LF KCK15B	B281
VBMT332LF KCK20	B281
VBMT332LF KCM15	B281

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
VBMT332LF KCM15B	B281
VBMT332LF KCM25	B281
VBMT332LF KCM25B	B281
VBMT332LF KCM35	B281
VBMT332LF KCP05	B281
VBMT332LF KCP10	B281
VBMT332LF KCP10B	B281
VBMT332LF KCP25	B281
VBMT332LF KCP25B	B281
VBMT332LF KCP30	B281
VBMT332LF KT315	B281
VBMT332MP KCK20	B281
VBMT332MP KCK20B	B281
VBMT332MP KCM25	B281
VBMT332MP KCM25B	B281
VBMT332MP KCP25	B281
VBMT332MP KCP25B	B281
VBMT333FP KCP10B	B281
VBMT333FP KCP25	B281
VBMT333FP KCP25B	B281
VBMT333LF KCK05	B281
VBMT333LF KCK20	B281
VBMT333LF KCK20B	B281
VBMT333LF KCP25	B281
VCGW331S0415MT KBH20	B342
VCGW331S0525MT KBH20	B342
VCGW332S0415MT KBH20	B342
VCGW332S0525MT KBH20	B342
VCMR331 KC5010	E37
VCMR331 KC5025	E37
VCMR331 KCM15B	E37
VCMR331 KCU25	E37
VCMR331 KT315	E37
VCMR331FP KCM25	E37
VCMR331FP KCP10	E37
VCMR331FP KCP25	E37
VCMR331FP KCU10	E37
VCMR331FP KCU25	E37
VCMR332 KC5010	E37
VCMR332 KC5025	E37
VCMR332 KCM15B	E37
VCMR332 KCU10	E37
VCMR332 KCU25	E37
VCMR332 KT315	E37
VCMR332FP KCK05	E37
VCMR332FP KCM25	E37
VCMR332FP KCP10	E37
VCMR332FP KCP25	E37
VDIB1M302040C	C75
VDIB1M402544C	C75
VDIB2M302040C	C75
VDIB2M402544C	C75
VDIB3M302040C	C76
VDIB3M402544C	C76
VDIB4M302040C	C76
VDIB4M402544C	C76
VDIB5M302040C	C77
VDIB5M402544C	C77
VDIB6M302040C	C77
VDIB6M402544C	C77
VDIC1M302070C	C78
VDIC1M402585C	C78
VDIC2M302070C	C78
VDIC2M402585C	C78
VDIC3M302070C	C79
VDIC3M402585C	C79
VDIC4M302070C	C79
VDIC4M402585C	C79
VNGA331 K68	B144
VNGA331FST KD1400	B368
VNGA331S0415MT KBH10	B342
VNGA331S0415MT KBH20	B342
VNGA331S0425MT KB5630	B313, B342
VNGA331S0525MT KBH10	B342
VNGA331S0525MT KBH20	B342
VNGA331S0735MT KBH20	B342
VNGA331T0820 KY1615	B342
VNGA332 K68	B144
VNGA332FST KD1400	B368
VNGA332FST KD1425	B368
VNGA332S0415MT KBH10	B342
VNGA332S0415MT KBH20	B342
VNGA332S0425MT KB5630	B313, B342
VNGA332S0525MT KBH10	B342
VNGA332S0525MT KBH20	B342
VNGA332S0735MT KBH20	B342
VNGA332T0820 KY1615	B342
VNGA332T0820 KY3500	B315
VNGA333S0525MT KBH20	B342
VNGA333T0820 KY1615	B342
VNGA432T0820 KY1615	B342
VNGA432T0820 KYK25	B315
VNGG3305FS KC5010	B144
VNGG3305FS KCU10	B144
VNGG3305FS KCU25	B144
VNGG3305LF KC5010	B144
VNGG3305LF KCU10	B144
VNGG330FS KCU10	B144
VNGG331FS KC5010	B144
VNGG331FS KC5025	B144
VNGG331FS KCU10	B144
VNGG331FS KCU25	B144
VNGG331LF KC5010	B144
VNGG331LF KCU10	B144
VNGG332FS KC5010	B144
VNGG332FS KC5025	B144
VNGG332FS KCU10	B144
VNGG332FS KCU25	B144
VNGG332LF K313	B144
VNGG332LF KC5010	B144
VNGG332LF KCU10	B144
VNGG432LF KC5010	B144
VNGG432LF KCU10	B144
VNGM332S0525MTCB1 KBH20	B342
VNGM333S0525MTCB1 KBH20	B342
VNGP330 KC5010	B144
VNGP330 KC5410	B144
VNGP330 KCU10	B144
VNGP3305 KC5010	B144
VNGP3305 KC5410	B144
VNGP3305 KCU10	B144
VNGP331K K313	B145
VNGP332K K313	B145
VNGP431 KC5010	B144
VNGP431 KCU10	B144
VNGP432 K313	B144
VNGP432 KC5010	B144
VNGP432 KCU10	B144
VNGX353T0820 KY3500	B319
VNGX354T0820 KY3500	B319
VNMA332 KCK05	B145
VNMA332 KCK15	B145
VNMA332 KCK15B	B145
VNMA332 KCK20	B145
VNMG3305MS K313	B147
VNMG3305MS KC5010	B147
VNMG3305MS KC5025	B147
VNMG3305MS KCU10	B147
VNMG3305MS KCU25	B147
VNMG330MS KC5010	B147
VNMG330MS KCU10	B147
VNMG330MS KCU25	B147
VNMG331FF KC5010	B146
VNMG331FF KCM15B	B146
VNMG331FF KCP05	B146
VNMG331FF KCP10	B146
VNMG331FF KCP10B	B146
VNMG331FF KCU10	B146
VNMG331FF KT315	B146
VNMG331FN KCK05	B146
VNMG331FN KCK15B	B146
VNMG331FN KCP05	B146
VNMG331FN KCP10	B146
VNMG331FN KCP10B	B146
VNMG331FN KCP25	B146
VNMG331FN KCP25B	B146
VNMG331FN KT315	B146
VNMG331FP KC5010	B146
VNMG331FP KCM15	B146
VNMG331FP KCU10	B146
VNMG331FP KT315	B146
VNMG331MN KCP10	B146
VNMG331MN KCP10B	B146
VNMG331MN KCP25	B146
VNMG331MN KCP25B	B146
VNMG331MN KCP30	B146
VNMG331MP KC5010	B147
VNMG331MP KCM15	B147
VNMG331MP KCM15B	B147
VNMG331MP KCM25	B147
VNMG331MP KCM25B	B147
VNMG331MP KCM35	B147
VNMG331MP KCU10	B147
VNMG331MS K313	B147
VNMG331MS KC5010	B147
VNMG331MS KC5025	B147
VNMG331MS KCU10	B147
VNMG331MS KCU25	B147
VNMG331P KC5010	B147
VNMG331P KCU10	B147
VNMG331UN KCK15	B148
VNMG331UN KCK20	B148
VNMG331UP KC5010	B148
VNMG331UP KCM15	B148
VNMG331UP KCM25	B148
VNMG332 K68	B145
VNMG332FF KC5010	B146
VNMG332FF KCP05	B146
VNMG332FF KCP10	B146
VNMG332FF KCP10B	B146
VNMG332FF KCP25B	B146
VNMG332FF KCU10	B146
VNMG332FF KT315	B146
VNMG332FN KCK05	B146
VNMG332FN KCK15B	B146
VNMG332FN KCP05	B146
VNMG332FN KCP10	B146
VNMG332FN KCP10B	B146
VNMG332FN KCP25	B146
VNMG332FN KCP25B	B146
VNMG332FN KT315	B146
VNMG332FP KC5010	B146
VNMG332FP KCM15	B146
VNMG332FP KCP10	B146
VNMG332FP KCP25B	B146
VNMG332FP KCU10	B146
VNMG332FP KT315	B146
VNMG332LF KCP25B	B145
VNMG332MN KCP05	B146
VNMG332MN KCP05B	B146
VNMG332MN KCP10	B146
VNMG332MN KCP10B	B146
VNMG332MN KCP25	B146
VNMG332MN KCP25B	B146
VNMG332MN KCP30	B146
VNMG332MP KC5010	B147
VNMG332MP KCM15	B147
VNMG332MP KCM15B	B147
VNMG332MP KCM25	B147
VNMG332MP KCM25B	B147
VNMG332MP KCM35	B147
VNMG332MP KCU10	B147
VNMG332MR KCM15B	B147
VNMG332MS K313	B147
VNMG332MS KC5010	B147
VNMG332MS KC5025	B147
VNMG332MS KCU10	B147
VNMG332MS KCU25	B147
VNMG332P K313	B147
VNMG332P KC5010	B147
VNMG332P KCU10	B147
VNMG332RN KCP10	B148
VNMG332RN KCP10B	B148
VNMG332RN KCP25	B148
VNMG332RN KCP25B	B148
VNMG332RP KC5010	B148
VNMG332RP KC5025	B148
VNMG332RP KCK15	B148
VNMG332RP KCK20B	B148
VNMG332RP KCM15	B148
VNMG332RP KCP10	B148
VNMG332RP KCP25	B148
VNMG332RP KCU10	B148
VNMG332RP KCU25	B148
VNMG332UN KCK05B	B148
VNMG332UN KCK15	B148
VNMG332UN KCK15B	B148
VNMG332UN KCK20	B148
VNMG332UP KC5010	B148
VNMG332UP KCM15	B148
VNMG332UP KCM25	B148
VNMG332UP KCU10	B148
VNMG333 K68	B145
VNMG333MN KCP10	B146
VNMG333MN KCP25	B146
VNMG333MN KCP25B	B146
VNMG333MN KCP30	B146
VNMG333MP KC5010	B147
VNMG333MP KCM15B	B147
VNMG333MP KCU10	B147
VNMG333MR KCM15	B147
VNMG333RN KCP10	B148
VNMG333RN KCP25	B148
VNMG333RN KCP25B	B148
VNMG333RP KCK15	B148
VNMG333RP KCK15B	B148
VNMG333RP KCK20	B148
VNMG333RP KCM25	B148
VNMG333RP KCP10	B148
VNMG333RP KCP25	B148
VNMG333RP KCU10	B148
VNMG333RP KCU25	B148
VNMG333UP KCM15	B148
VNMG431LF KCP25B	B145
VNMG431MS KC5010	B147
VNMG431MS KCU10	B147
VNMG431MS KCU25	B147
VNMG432 K68	B145
VNMG432LF KCP25B	B145
VNMG432MS KC5010	B147
VNMG432MS KC5025	B147
VNMG432MS KCU10	B147
VNMG432MS KCU25	B147
VNMG432RN KCP10	B148
VNMG432RN KCP10B	B148
VNMG432RN KCP25	B148
VNMG432RN KCP25B	B148
VNMG432RN KCP30	B148
VNMG432RN KCP40	B148
VNMG433 K68	B145
VNMG433RN KCP10	B148
VNMG433RN KCP25	B148
VNMG433RN KCP30	B148
VNMP331 K313	B149
VNMP331 K68	B149
VNMP331K K68	B149
VNMP331K KCP10B	B149
VNMP331K KCP25	B149
VNMP332 K313	B149
VNMP332 K68	B149
VNMP332K K68	B149
VNMP332K KCP10	B149
VNMP332K KCP10B	B149
VNMP332K KCP25	B149
VNMS331 K68	B149
VNMS331 KC5410	B149
VNMS331E KD1405	B368
VNMS331FST KD1400	B368
VNMS331FST KD1425	B368
VNMS332 K68	B149
VNMS332 KC5410	B149
VNMS332E KD1405	B368
VNMS332FST KD1400	B368
VNMS332FST KD1425	B368
VPGN331 KD1425	B369, E38
VPGN332 KD1425	B369, E38
VPGP443K KC5410	B145
VPGR3305 K68	E38
VPGR3305 KC5010	E38
VPGR3305 KC5025	E38
VPGR3305 KC5410	E38
VPGR3305 KCU10	E38
VPGR3305 KCU25	E38
VPGR3305FP KCP10	E39
VPGR331 K313	B369, E38
VPGR331 K68	E38
VPGR331 KC5010	E38
VPGR331 KC5025	E38

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
VPGR331 KC5410	E38
VPGR331 KCP25	E38
VPGR331 KCU10	E38
VPGR331 KCU25	E38
VPGR331 KD1425	B369, E38
VPGR331 KT315	E38
VPGR331FP KCM25	E39
VPGR331FP KCP10	E39
VPGR331FP KCP25	E39
VPGR331FP KCU10	E39
VPGR331HP K313	E39
VPGR332 K313	B369, E38
VPGR332 K68	E38
VPGR332 KC5010	E38
VPGR332 KC5025	E38
VPGR332 KC5410	E38
VPGR332 KCP25B	E38
VPGR332 KCU10	E38
VPGR332 KCU25	E38
VPGR332 KD1425	B369, E38
VPGR332 KT315	E38
VPGR332FP KCK05	E39
VPGR332FP KCM25	E39
VPGR332FP KCP10	E39
VPGR332FP KCP25	E39
VPGR333 K68	B369, E38
VPGR333 KC5010	E38
VPGR333 KCU10	E38
VPGR333 KCU25	E38
VPGR333 KD1425	B369, E38
VPGR333FP KCK05	E39
VPGR333FP KCP10	E39
VPGR333FP KCP25	E39
VPGR334 KC5010	E38
VPGR334 KCU10	E38
VPGR334FP KCP25	E39
WCMT2151FP KCU10	B286
WCMT2151FP KCU25	B286
WCMT2151LF KC5010	B286
WCMT3252FP KCP25	B286
WCMT3252FP KCU10	B286
WCMT3252LF KC5010	B286
WCMT3252LF KC5025	B286
WD32FDS28076M	H126
WD32FDS28128M	H126
WD32FDS28190M	H127
WD32FDS28283M	H127
WD32FDS28345M	H127
WD32FDS32082M	H126
WD32FDS32146M	H126
WD32FDS32216M	H127
WD32FDS32321M	H127
WD32FDS32391M	H127
WD32FDS36092M	H126
WD32FDS36166M	H126
WD32FDS36244M	H127
WD32FDS36361M	H127
WD32FDS36439M	H127
WD50FDS40100M	H126
WD50FDS40183M	H126
WD50FDS40271M	H127
WD50FDS40403M	H127
WD50FDS40491M	H127
WD50FDS45112M	H126
WD50FDS45206M	H126
WD50FDS45304M	H127
WD50FDS45451M	H127
WD50FDS45549M	H127
WD50FDS50122M	H126
WD50FDS50228M	H126
WD50FDS50338M	H127
WD50FDS50503M	H127
WD50FDS50613M	H127
WD50FDS56140M	H126
WD50FDS56259M	H126
WD50FDS56383M	H127
WD50FDS56569M	H127
WD50FDS56693M	H127
WD50FDS63154M	H126
WD50FDS63289M	H126
WD50FDS63429M	H127
WD50FDS63639M	H127
WD50FDS63779M	H127
WD50FDS71172M	H126
WD50FDS71292M	H126
WD50FDS71452M	H127
WD50FDS80192M	H126
WD50FDS80327M	H126
WD50FDS80507M	H127
WD50FDS90212M	H126
WD50FDS90362M	H126
WD50FDS90562M	H127
WLFNL32CA19S	E61
WLFNR32CA19S	E61
WLJNL32CA19S	E55
WLJNL32CA30S	E55
WLJNR32CA19S	E55
WLJNR32CA30S	E55
WLLNL32CA19S	E61
WLLNL32CA30S	E61
WLLNR32CA19S	E61
WLLNR32CA30S	E61
WNGA431S0415MT KBH20	B343
WNGA432FST KD1425	B369
WNGA432S0415FWHBMT KBH20	B343
WNGA432S0415FWMT KBH20	B343
WNGA432S0415MT KBH10	B343
WNGA432S0415MT KBH20	B343
WNGA432S0525MT KBH10	B343
WNGA432S0525MT KBH20	B343
WNGA432S0735MT KBH20	B343
WNGA432T0420 KYS30	B354
WNGA432T0420FW KY3500	B315
WNGA432T0820 KY3500	B315
WNGA432T0820 KYK25	B315
WNGA433T0820 KY3500	B315
WNGA433T0820 KYK25	B315
WNGA434T0420 KYS30	B354
WNGA434T0820 KY3500	B315
WNGG4305LF KC5010	B156
WNGG4305LF KCU10	B156
WNGG430LF KC5010	B156
WNGG431FS KCU10	B156
WNGG431LF KC5010	B156
WNGG431LF KCU10	B156
WNGG432FS KCU10	B156
WNGG432LF KC5010	B156
WNGP432K KC5010	B156
WNGP432K KC5410	B156
WNGX453T0820 KY3500	B319
WNGX453T0820 KYK10	B319
WNMA332 KCK15	B157
WNMA333 KCK20	B157
WNMA333 KCK20B	B157
WNMA432 KCK05	B157
WNMA432 KCK15	B157
WNMA432 KCK20	B157
WNMA432 KCK20B	B157
WNMA433 KCK15	B157
WNMA433 KCK15B	B157
WNMA433 KCK20	B157
WNMA434 KCK20	B157
WNMG331FF KCP10	B157
WNMG331FF KCU10	B157
WNMG331FN KCK05	B157
WNMG331FN KCP10	B157
WNMG331FN KT315	B157
WNMG331FP KC5010	B158
WNMG331FP KCM15	B158
WNMG331FP KCU10	B158
WNMG331FW KCP05	B158
WNMG331FW KCP05B	B158
WNMG331FW KCU10	B158
WNMG331FW KT315	B158
WNMG331MN KCP10	B159
WNMG331MN KCP25	B159
WNMG331MP KC5010	B159
WNMG331MP KCM15	B159
WNMG331MP KCM25B	B159
WNMG331MP KCU10	B159
WNMG332FF KC5010	B157
WNMG332FF KT315	B157
WNMG332FN KCK15B	B157
WNMG332FN KCP10	B157
WNMG332FN KCP25	B157
WNMG332FN KT315	B157
WNMG332FP KC5010	B158
WNMG332FP KCM15	B158
WNMG332FP KCP10	B158
WNMG332FW KC5010	B158
WNMG332FW KCP05	B158
WNMG332FW KCP10	B158
WNMG332FW KCU10	B158
WNMG332FW KT315	B158
WNMG332MN KCP10	B159
WNMG332MN KCP10B	B159
WNMG332MN KCP25	B159
WNMG332MN KCP25B	B159
WNMG332MN KCP30	B159
WNMG332MP KC5010	B159
WNMG332MP KCM15	B159
WNMG332MP KCM25	B159
WNMG332MP KCM25B	B159
WNMG332MP KCM35B	B159
WNMG332MP KCP25	B159
WNMG332MP KCU10	B159
WNMG332MR KCM15B	B159
WNMG332MR KCP25B	B159
WNMG332MS K313	B160
WNMG332MS KC5010	B160
WNMG332MS KC5025	B160
WNMG332MS KCU10	B160
WNMG332MS KCU25	B160
WNMG332MW KCP10	B160
WNMG332MW KCP25	B160
WNMG332RN KCP10B	B161
WNMG332RN KCP25	B161
WNMG332RN KCP25B	B161
WNMG332RP KC5010	B161
WNMG332RP KCM15	B161
WNMG332RP KCM25	B161
WNMG332RP KCP10	B161
WNMG332RP KCP10B	B161
WNMG332RP KCP25	B161
WNMG332RP KCU10	B161
WNMG332RP KCU25	B161
WNMG332UN KCK15	B162
WNMG332UN KCK20B	B162
WNMG332UP KCM25B	B162
WNMG333FW KCP10	B158
WNMG333MN KCP10	B159
WNMG333MN KCP25	B159
WNMG333MN KCP30B	B159
WNMG333MP KCM25	B159
WNMG333RN KCP25	B161
WNMG333RP KCP10	B161
WNMG333RP KCP25	B161
WNMG4305MS KC5010	B160
WNMG4305MS KCU10	B160
WNMG4305MS KCU25	B160
WNMG430MS KCU10	B160
WNMG431FF KC5010	B157
WNMG431FF KCP10	B157
WNMG431FF KCU10	B157
WNMG431FN KCK05	B157
WNMG431FN KCK05B	B157
WNMG431FN KCP05	B157
WNMG431FN KCP10	B157
WNMG431FN KCP10B	B157
WNMG431FN KCP25B	B157
WNMG431FN KT315	B157
WNMG431FP KC5010	B158
WNMG431FP KCM15	B158
WNMG431FP KCP10	B158
WNMG431FP KCP25	B158
WNMG431FP KCU10	B158
WNMG431FW KCM15B	B158
WNMG431FW KCP05	B158
WNMG431FW KCP10	B158
WNMG431FW KCU10	B158
WNMG431FW KT315	B158
WNMG431MS K313	B160
WNMG431MS KC5010	B160
WNMG431MS KC5025	B160
WNMG431MS KCU10	B160
WNMG431MS KCU25	B160
WNMG431P KC5010	B160
WNMG431P KCM15B	B160
WNMG431P KCU10	B160
WNMG431UN KCK15	B162
WNMG431UN KCK20	B162
WNMG432FF KC5010	B157
WNMG432FF KCP10	B157
WNMG432FN KCK05	B157
WNMG432FN KCK15B	B157
WNMG432FN KCP05	B157
WNMG432FN KCP10	B157
WNMG432FN KCP10B	B157
WNMG432FN KCP25	B157
WNMG432FN KCP25B	B157
WNMG432FN KT315	B157
WNMG432FP KC5010	B158
WNMG432FP KCM15	B158
WNMG432FP KCM15B	B158
WNMG432FP KCP10	B158
WNMG432FP KCP25	B158
WNMG432FP KCU10	B158
WNMG432FW KC5010	B158
WNMG432FW KCP05	B158
WNMG432FW KCP10	B158
WNMG432FW KCP10B	B158
WNMG432FW KCU10	B158
WNMG432FW KT315	B158
WNMG432MG KCP10B	B158
WNMG432MG KCP25B	B158
WNMG432MN KCP05	B159
WNMG432MN KCP10	B159
WNMG432MN KCP10B	B159
WNMG432MN KCP25	B159
WNMG432MN KCP25B	B159
WNMG432MN KCP30	B159
WNMG432MN KCP30B	B159
WNMG432MN KCP40	B159
WNMG432MP KC5010	B159
WNMG432MP KCM15	B159
WNMG432MP KCM15B	B159
WNMG432MP KCM25	B159
WNMG432MP KCM25B	B159
WNMG432MP KCM35	B159
WNMG432MP KCM35B	B159
WNMG432MP KCP10	B159
WNMG432MP KCP25	B159
WNMG432MP KCP25B	B159
WNMG432MP KCU10	B159
WNMG432MR KCK15B	B159
WNMG432MR KCM15B	B159
WNMG432MR KCM25	B159
WNMG432MR KCM25B	B159
WNMG432MR KCM35	B159
WNMG432MR KCP10B	B159
WNMG432MR KCP25B	B159
WNMG432MR KCPK05	B159
WNMG432MR KCU10	B159
WNMG432MS K313	B160
WNMG432MS KC5010	B160
WNMG432MS KC5025	B160
WNMG432MS KCU10	B160
WNMG432MS KCU25	B160
WNMG432MW KCK15B	B160
WNMG432MW KCP05	B160
WNMG432MW KCP10	B160
WNMG432MW KCP10B	B160
WNMG432MW KCP25	B160
WNMG432MW KCP25B	B160
WNMG432MW KCPK05	B160
WNMG432P KC5010	B160
WNMG432P KCM15B	B160
WNMG432P KCU10	B160
WNMG432RN KCP10	B161
WNMG432RN KCP10B	B161
WNMG432RN KCP25	B161
WNMG432RN KCP25B	B161
WNMG432RN KCP30	B161
WNMG432RN KCP30B	B161
WNMG432RN KCP40	B161
WNMG432RP KC5010	B161
WNMG432RP KC5025	B161

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

Catalog No.	Page(s)
WNMG432RP KCK05	B161
WNMG432RP KCK05B	B161
WNMG432RP KCK15	B161
WNMG432RP KCK15B	B161
WNMG432RP KCK20	B161
WNMG432RP KCK20B	B161
WNMG432RP KCM15	B161
WNMG432RP KCM15B	B161
WNMG432RP KCM25	B161
WNMG432RP KCM25B	B161
WNMG432RP KCM35	B161
WNMG432RP KCM35B	B161
WNMG432RP KCP05	B161
WNMG432RP KCP10	B161
WNMG432RP KCP10B	B161
WNMG432RP KCP25	B161
WNMG432RP KCP25B	B161
WNMG432RP KCP30B	B161
WNMG432RP KCP40B	B161
WNMG432RP KCPK05	B161
WNMG432RP KCU10	B161
WNMG432RP KCU25	B161
WNMG432UN KCK05B	B162
WNMG432UN KCK15	B162
WNMG432UN KCK15B	B162
WNMG432UN KCK20	B162
WNMG432UN KCK20B	B162
WNMG432UP KC5010	B162
WNMG432UP KCM15	B162
WNMG432UP KCM25	B162
WNMG432UP KCM25B	B162
WNMG432UP KCU10	B162
WNMG433FP KC5010	B158
WNMG433FP KCM15	B158
WNMG433FW KCP05	B158
WNMG433FW KCP10	B158
WNMG433FW KCP10B	B158
WNMG433MN KCP10	B159
WNMG433MN KCP10B	B159
WNMG433MN KCP25	B159
WNMG433MN KCP25B	B159
WNMG433MN KCP40B	B159
WNMG433MP KC5010	B159
WNMG433MP KCM15	B159
WNMG433MP KCM25	B159
WNMG433MP KCM25B	B159
WNMG433MP KCM35	B159
WNMG433MP KCP10	B159
WNMG433MP KCP25B	B159
WNMG433MP KCU10	B159
WNMG433MR KCM15B	B159
WNMG433MR KCM25B	B159
WNMG433MR KCM35	B159
WNMG433MR KCP10B	B159
WNMG433MR KCP25B	B159
WNMG433MR KCPK05	B159
WNMG433MW KCM15B	B160
WNMG433MW KCP05	B160
WNMG433MW KCP10	B160
WNMG433MW KCP10B	B160
WNMG433MW KCP25	B160
WNMG433MW KCP25B	B160
WNMG433RN KCP05	B161
WNMG433RN KCP10	B161
WNMG433RN KCP10B	B161
WNMG433RN KCP25	B161
WNMG433RN KCP25B	B161
WNMG433RN KCP30	B161
WNMG433RN KCP30B	B161
WNMG433RN KCP40B	B161
WNMG433RN KCPK05	B161
WNMG433RP KC5010	B161
WNMG433RP KCK05	B161
WNMG433RP KCK15	B161
WNMG433RP KCK15B	B161
WNMG433RP KCK20	B161
WNMG433RP KCK20B	B161
WNMG433RP KCM15	B161
WNMG433RP KCM25	B161
WNMG433RP KCM25B	B161
WNMG433RP KCM35	B161
WNMG433RP KCM35B	B161
WNMG433RP KCP05	B161
WNMG433RP KCP10	B161
WNMG433RP KCP10B	B161
WNMG433RP KCP25	B161
WNMG433RP KCP25B	B161
WNMG433RP KCP30B	B161
WNMG433RP KCP40B	B161
WNMG433RP KCPK05	B161
WNMG433RP KCU10	B161
WNMG433RP KCU25	B161
WNMG433UN KCK05	B162
WNMG433UN KCK15	B162
WNMG433UN KCK15B	B162
WNMG433UN KCK20	B162
WNMG433UN KCK20B	B162
WNMG433UP KC5010	B162
WNMG433UP KCM25	B162
WNMG433UP KCM35	B162
WNMG433UP KCU10	B162
WNMG434MN KCP25	B159
WNMG434MN KCP25B	B159
WNMG434MR KCP10B	B159
WNMG434MR KCP25B	B159
WNMG434RN KCP10	B161
WNMG434RN KCP10B	B161
WNMG434RN KCP25	B161
WNMG434RN KCP25B	B161
WNMG434RP KCP10	B161
WNMG434RP KCP25	B161
WNMG434RP KCP25B	B161
WNMG434RP KCU25	B161
WNMG434UN KCK15B	B162
WNMG434UN KCK20	B162
WOEJ090512SRGD KC522M	V39
WOEJ090512SRGD KC725M	V39
WOEJ090512SRGD KCPK30	V39
WOEJ090512SRGD KCPM40	V39
WOEJ090512SRGD KCSM30	V39
WOEJ090512SRHD KC522M	V39
WOEJ090512SRHD KC725M	V39
WOEJ090512SRHD KCPK30	V39
WOEJ090512SRHD KCPM40	V39
WPGT15105UF KC5010	B288
WPGT15105UF KCU10	B288
WPGT1510UF KC5010	B288
WPGT1510UF KCU10	B288
WPGT21505UF KCU10	B288
WPMT15121FP KCP25	B288
WPMT15121FP KCU10	B288
WPMT15121LF KC5025	B288
WPMT2151FP KCM25	B288
WPMT2151FP KCP25	B288
WPMT2151FP KCU10	B288
WPMT2151LF KC5010	B288
WPMT2151LF KC5025	B288
WPMT2151LF KCK20	B288
WPMT2151LF KCP10	B288
WPMT3251FP KCU10	B288
WPMT3251LF KC5010	B288
WPMT3251LF KCM15B	B288
WPMT3251LF KCP25	B288
WPMT3252FP KCU10	B288
WPMT3252LF KC5010	B288
WPMT3252LF KCK05	B288
WPMT3252LF KCM15	B288
WPMT3252LF KCP25B	B288
WXXNL4455X-FL	E60
WXXNR4455X-FL	E60
XADA0375Y4CU45 KCPM15	048
XADA0375Y4CU60 KCPM15	048
XADA0500Y5CU45 KCPM15	048
XADA0500Y5CU60 KCPM15	048
XADA0625Y6CU45 KCPM15	048
XADA0625Y6CU60 KCPM15	048
XDLT090408ERD41 SC6525	V14
XDLT090408ERD41 SP6519	V14
XDLT090408ERD41 X500	V14
XDLT090408ERD721 GH2	V14
XDLT090412ERD411 SP6519	V15
XDLT090412ERD411 X500	V15
XDLT120508ERD41 SC6525	V21
XDLT120508ERD41 SP6519	V21
XDLT120508ERD41 X500	V21
XDLT120508ERD721 GH2	V21
XDLT120512ERD411 SP6519	V22
XDLT120512ERD411 X500	V22
XDLW090408SRD SC3025	V16
XDLW090408SRD SC6525	V16
XDLW090408SRD X400	V16
XDLW090408SRD X500	V16
XDLW120508SRD SC3025	V23
XDLW120508SRD X400	V23
XDLW120508SRD X500	V23
XDPT090408ERD41 KCSM40	V15
XDPT090408ERD41 SC6525	V15
XDPT090408ERD41 SP6519	V15
XDPT090408ERD41 X500	V15
XDPT090412ERD411 KCSM40	V15
XDPT090412SRGP KC522M	V16
XDPT090412SRGP KC725M	V16
XDPT090412SRGP KCPK30	V16
XDPT090412SRGP KCPM40	V16
XDPT120508ERD41 KCSM40	V22
XDPT120508ERD41 SC6525	V22
XDPT120508ERD41 SP6519	V22
XDPT120508ERD41 X500	V22
XDPT120512ERD411 KCSM40	V22
XDPT120515SRGP KC522M	V23
XDPT120515SRGP KC725M	V23
XDPT120515SRGP KCPK30	V23
XDPT120515SRGP KCPM40	V23
XDPW090412SRD KC510M	V15
XDPW090412SRD KC522M	V15
XDPW090412SRD KCK15	V15
XDPW090412SRD KCPK30	V15
XDPW090412SRD KCPM40	V15
XDPW120515SRD KC510M	V23
XDPW120515SRD KC522M	V23
XDPW120515SRD KCK15	V23
XDPW120515SRD KCPK30	V23
XDPW120515SRD KCPM40	V23
XELT160512ERD41 SC6525	V28
XELT160512ERD41 SP6519	V28
XELT160512ERD41 X500	V28
XELW160512SRD SC3025	V28
XELW160512SRD X400	V28
XEPT160512ERD41 KCSM40	V28
XEPT160516ERD41 KC522M	V28
XEPT160516ERD41 KCPK30	V28
XEPT160516ERD41 KCPM40	V28
XEPW160520SRD KC522M	V28
XEPW160520SRD KCK15	V28
XEPW160520SRD KCPK30	V28
XEPW160520SRD KCPM40	V28
XNGJ43ANENLD3W KC510M	S12
XNGJ43ANENLD3W KC522M	S12
XNGJ43ANENLD3W KC725M	S12
XNGJ43ANENLD3W KCPM40	S12
XNGJ43ANENLD3W KCSM40	S12
XNGJ43ANFNLDJ3W KC410M	S11
XNGJ535ANFNLDJ3W KC410M	S21
XNGJ535ANSNGD3W KC725M	S21
XNGJ535ANSNGD3W KCK15	S21
XNGJ535ANSNGD3W KCPK30	S21
XNGJ535ANSNGD3W KCSM40	S21
XNXF43ZNENLDW KCK15	S90
XNXF43ZNENW KY3500	S90
XPLT060308ERD41 SC6525	V7
XPLT060308ERD41 SP6519	V7
XPLT060308ERD41 X400	V7
XPLT060308ERD41 X500	V7
XPNT050522RF SP6519	V115
XPNT06062515RF SP6519	V115
XPNT080832RF SP6519	V115
XPNT101043RF SP6519	V115
XPNT121254RF SP6519	V115
XPNT161654RF SP6519	V115
XPPT060308ERD41 KCSM40	V7
XPPW060310SRD KC510M	V7
XPPW060310SRD KC522M	V7
XPPW060310SRD KCPK30	V7
XPPW060310SRD KCPM40	V7
XRDA0375Y4CUC KCPM15	049
XRDA0375Y4CUE KCPM15	049
XRDA0500Y5CUB KCPM15	049
XRDA0500Y5CUC KCPM15	049
XRDA0500Y5CUE KCPM15	049
XRDA0625Y6CUC KCPM15	049
XRDA0625Y6CUE KCPM15	049
ZDET16M504FR721 GH1	T100
ZDET16M508FR721 GH1	T100
ZDET16M512FR721 GH1	T100
ZDET16M516FR721 GH1	T100
ZDET16M520FR721 GH1	T100
ZDET16M525ER721 GH1	T100
ZDET16M525FR721 GH1	T100
ZDET16M530ER721 GH1	T100
ZDET16M530FR721 GH1	T100
ZDET16M532FR721 GH1	T100
ZDET16M540ER721 GH1	T100
ZDET16M540FR721 GH1	T100
ZDET16M550FR721 GH1	T100
ZDET16M560FR721 GH1	T100
ZDET16M5PDFR721 GH1	T100

Index

For page references F–X, please see Volume II • Rotating Tools Catalog.

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Turning Icons

Shank: KM-TS™ (ISO 26622)	Shank: KM4X™	Shank: VDI Shank	DIN Number 69880	Through Coolant
Through Coolant: 100 bar	Through Coolant: 1500 psi	Through Coolant: 80 bar	Through Coolant: 1200 psi	ISO: 26622
ISO: 10889	Turning	Profiling	Facing	Face Grooving
Chamfering	Back Boring	Threading	Grooving	Cut-Off
I.D. Turning	I.D. Chamfering	I.D. Facing	I.D. Grooving	I.D. Face Grooving
Deep Grooving	I.D. Internal Threading			

Holemaking Icons

Countersinking/ Stroke Chamfering	Taper Drilling	Counterboring	Drilling	Drilling: Inclined Entry
Drilling: Inclined Exit	Drilling: Exit Offset	Drilling: Flat Bottom	Drilling: Stacked Plates	Drilling: Convex
Drilling: Blind Hole	Drilling: Concave	Drilling: Chain	Drilling: Cross Hole	Drilling: Half Cylinder
Drilling: Corner Drilling 45°	Reaming: Through Hole	Reaming: Blind Hole	Reaming: Through Cross	Reaming: Blind and Cross Holes
Reaming: Interrupted Cut	Drilling Depth: 1 x D	Drilling Depth: 3 x D	Drilling Depth: 5 x D	Drilling Depth: 8 x D
Drilling Depth: 10 x D	Drilling Depth: 12 x D	Drilling Depth: 7 x D	Drilling Depth: 4 x D	Drilling Depth: 1.5 x D

(continued)

(Holemaking Icons — continued)

Corner Style: Corner Chamfer	Corner Style: Square End	Shank: Cylindrical Plain	Shank: Cylindrical Plain ≤h6	Shank: Cylindrical Weldon®
Shank: Cylindrical Whistle Notch	Shank: Cylindrical Whistle Notch 2°	Shank: Cylindrical with Flat	SK Shank: Rübig	Shank: SK BT JIS B 6339
Shank: SK CAT(CV) ANSI B5.50	Shank: SK DV DIN 69871	Shank: Cylindrical Whistle Notch with Drive and Flange	Shank: Cylindrical with Flat and Flange	KM™ Shank
Shank: HSK DIN 69893	Shank: HSK DIN 69893 Form A	Shank: KM-TS™ (ISO 26622)	Shank: KM-XMZ	Shank: ER
Helix Angle: 0°	Helix Angle: 15°	Helix Angle: 30°	Tip Angle: 118°	Tip Angle: 130°
Balance (G 6.3/25,000)	Balance (G 6.3/10,000)	Balance (G 6.3/6,000)	Balance (G 16/20,000)	DIN Number 6537
DIN Number 6535	DIN Number 69893	DIN Number 69090-3	Drilling: No Coolant	Through Coolant: Radial: Drilling
Through Coolant: Radial: Reaming	Through Coolant: Radial: Indexable Drilling	Flood Coolant: Drilling	Through Coolant: MQL (Minimum Quantity Lubricant): Drilling	Through Coolant: Axial: Drilling
Through Coolant: Axial: Reaming	Through Coolant: Coolant Entry AD	Through Coolant: Coolant Entry AD/B	Tool Dimensions: 2 Flute/2 Margin/ Coolant	Tool Dimensions: 2 Flute/2 Margin/ No Coolant
Tool Dimensions: 2 Flute/3 Margin/ Coolant	Tool Dimensions: 2 Flute/4 Margin/ Coolant	Tool Dimensions: 2 Flute/4 Margin/ No Coolant	Tool Dimensions: 2 Flute/4 Margin/ X/Coolant	Tool Dimensions: 3 Flute/3 Margin/ Coolant
Tool Dimensions: 3 Flute/3 Margin/ No Coolant	Tool Dimensions: Flute Configuration: 2	Tool Dimensions: Flute Configuration: 3	Tool Dimensions: Flute Configuration: 4	

Tapping Icons

Countersinking/ Stroke Chamfering	Drilling: Flat Bottom	Drilling: Blind	Tapping: Through Hole	Tapping: Blind Hole
Tapping: Pipe Thread	Threading: Through Hole	HSS: High-Speed Steel	HSS-E: High-Speed Steel with Cobalt Alloy for Materials with Higher Hardness	HSS-E-PM: High-Speed Steel with Cobalt Alloy for Materials with Higher Hardness (PM = Powder Metal Steel)
HM: (Carbide)	Drilling Depth: 2 x D	Chamfer Form (3–4)	Chamfer Form B (3.5–5.5)	Chamfer Form C (2–3)
Chamfer Form D (3.5–5)	Chamfer Form E (1.5–2)	Chamfer Form (3–5)	Chamfer Form (2.5–3.5)	Chamfer Form (1–2)
Tapping Helix Angle: 0º	Tapping Helix Angle: 10º	Tapping Helix Angle: 15º	Tapping Helix Angle: L15º	Tapping Helix Angle: 25º
Tapping Helix Angle: 42º	Tapping Helix Angle: 45º	Multipurpose Taps: Spiral Point	Tension/ Compression	DIN Number 371
DIN Number 374	DIN Number 376	DIN Number 5156	DIN Number 2174	DIN ANSI
Through Coolant: Radial: Tapping	Flood Coolant: Tapping	Through Coolant: Axial: Tapping	Manufacturer's Specs: ISO 2	Manufacturer's Specs: ISO 3
Manufacturer's Specs: JIS	Class of Fit: 2B	Class of Fit: 3B	Class of Fit: 6H	Class of Fit: 6HX
Class of Fit: 6G	Class of Fit: 2BX	Class of Fit: 3BX	Unified Fine Thread	Unified Course Thread
American Tapered Pipe Thread for Threads with Dryseal Material	American Tapered Pipe Thread for Threads without Dryseal Material	American National Standards Institute	American Standard Straight Pipe Thread	American Standard Straight Pipe Thread Dryseal
Whitworth Pipe Thread	Unified Course Thread: J Profile	Unified Fine Thread: J Profile	ISO Metric Coarse Thread	ISO Metric Fine Thread

Solid End Milling Icons

Face Milling	Plunge Milling	Plunge Milling: Ball Nose	Ramping: Blank	Ramping: Up to 2°
Ramping: Up to 3°	Slotting: Ball Nose	Slotting: Ball Nose with AP Dimension	Slotting: Square End	Slotting: Square End with AP Dimension
Trochoidal Milling	Trochoidal Milling: Ball Nose	Side Milling/ Shoulder Milling: Ball Nose	Side Milling/ Shoulder Milling: Ball Nose with AE/AP Dimensions	Side Milling/ Shoulder Milling: Square End
Side Milling/ Shoulder Milling: Square End with AE/AP Dimensions	Side Milling/ Shoulder Milling: Eased Chamfer	Side Milling/ Shoulder Milling: Eased Chamfer with AE/AP Dimensions	Side Milling/ Shoulder Milling: Fine Finishing	Side Milling/ Shoulder Milling: Fine Finishing with AE/AP Dimensions
Side Milling/ Shoulder Milling: Finishing	Side Milling/ Shoulder Milling: Finishing with AE/AP Dimensions	Side Milling/ Shoulder Milling: Thin Wall Solid End Milling	Side Milling/ Shoulder Milling: Radius	Side Milling/ Shoulder Milling: Radius with AE/AP Dimensions
3D Profiling	3D Profiling with AE/AP Dimensions	3D Profiling with Square End Mill	Corner Style: Ball Nose	Corner Style: Corner Chamfer
Corner Style: Corner Radius	Corner Style: Square End	Corner Style: Torus	Corner Style: Taper Ball Nose	Shank: Cylindrical Plain
Shank: Cylindrical Weldon®	Shank: SK BT JIS B 6339	Shank: HSK: CAT: Drawbar Thread: 5/8–11 UNC	Shank: HSK A/ DIN69893	Shank: Safe-Lock™ ≤h6
Shank: Safe-Lock™	Shank: PSC Shank	Duo-Lock™ Connection	Helix Angle: 0°	Helix Angle: 15°
Helix Angle: 20°	Helix Angle: 25°	Helix Angle: 30°	Helix Angle: 35°	Helix Angle: 37°
Helix Angle: 38°	Helix Angle: 40°	Helix Angle: 45°	Helix Angle: 50°	Helix Angle: 43°
Helix Angle: 36°	Helix Angle: 35°/38°	Helix Angle: 37°/39°	Balance (G 2.5/25,000)	Through Coolant

(continued)

(Solid End Milling Icons — continued)

Through Coolant: Axial: Solid End Mill	Tool Dimensions: Flute Configuration: X (Variable)	Tool Dimensions: Flute Configuration: 2	Tool Dimensions: Flute Configuration: 3	Tool Dimensions: Flute Configuration: 4
Tool Dimensions: Flute Configuration: 5	Tool Dimensions: Flute Configuration: 6	Tool Dimensions: Flute Configuration: 12	ISO 26622	

Indexable Milling Icons

Counterboring	Spiral Circular	Drilling	Face Milling	Helical Milling
Plunge Milling	Plunge Milling: Ball Nose	Ramping: Blank	Slotting: Ball Nose	Slotting: Side
Slotting: Side with AE/AP Dimensions	Slotting: Side Milling: Ball Nose	Slotting: Square End	Slotting: T	Slotting: T with AP Dimension
Side Milling/ Shoulder Milling: Ball Nose	Side Milling/ Shoulder Milling: Bottom Shouldering	Side Milling/ Shoulder Milling: Square End	Side Milling/ Shoulder Milling: Eased Chamfer	Slotting: Shoulder Profiling
Slotting: Shoulder	3D Profiling	3D Profiling with Square End Mill	PCD Tool	Pocketing
Shank: Cylindrical Plain	Shank: Cylindrical Weldon®	Shank: Cylindrical Weldon 2 Flat	Shank: Screw-On	SK Shank: R8
Shank: SK BT JIS B 6339	Shank: SK CAT(CV) ANSI B5.50	Shank: HSK DIN 69893	Shell Mill Shank	Milling: Through Coolant
Axial: Nozzle	Through Coolant: Pressurized Air Coolant: Radial: Indexable Milling			

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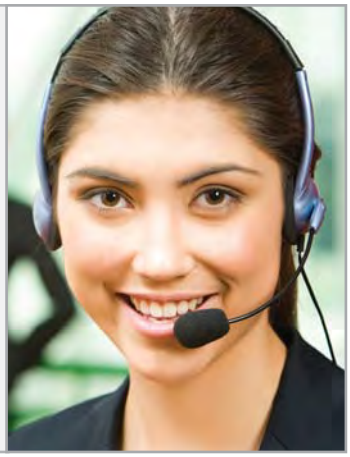

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Germany	German	0800 0006651	eu.techsupport@kennametal.com
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Numbers shown only serve the originating country listed.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials
C	CFRP Materials

material group	description	content	tensile strength RM (MPa)*	hardness (HB)	hardness (HRC)	material number
P0	Low-Carbon Steels, Long Chipping	C <0,25%	<530	<125	–	A36, 1008, 1010, 1018 through 1029; 1108, 1117
P1	Low-Carbon Steels, Short Chipping, Free Machining	C <0,25%	<530	<125	–	10L18, 1200 Series, 1213, 12L14
P2	Medium- and High-Carbon Steels	C >0,25%	>530	<220	<25	1035, 1045, 10L45, 1050, 10L50, 1080, 1137, 1144, 11L44, 1525, 1545, 1572
P3	Alloy Steels and Tool Steels	C >0,25%	600–850	<330	<35	1300, 2000, 3000, 4000, 5000, 8000, P20, SAE: A, D, H, O, S, M, T
P4	Alloy Steels and Tool Steels	C >0,25%	850–1400	340–450	35–48	1300, 2000, 3000, 4000, 5000, 8000, P20, SAE: A, D, H, O, S, M, T
P5	Ferritic, Martensitic, and PH Stainless Steels	–	600–900	<330	<35	15–5 PH, 13–8 PH, 17–4 PH, 400 and 500 Series
P6	High-Strength Ferritic, Martensitic, and PH Stainless Steels	–	900–1350	350–450	35–48	15–5 PH, 13–8 PH, 17–4 PH, 400 and 500 Series
M1	Austenitic Stainless Steel	–	<600	130–200	–	200 Series, 301, 302, 304, 304L, 309
M2	High-Strength Austenitic Stainless and Cast Stainless Steels	–	600–800	150–230	<25	310, 316, 316L, 321, 347, 384 ASTM Cast XM-1, XM-5, XM-7, XM-21
M3	Duplex Stainless Steel	–	<800	135–275	<30	323, 329, F55, 2205, S329000
K1	Gray Cast Iron	–	125–500	120–290	<32	class 20, 25, 30, 35, 40, 45, 50, 55, 60, G1800, G3000, G3500, G4000
K2	Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI)	–	<600	130–260	<28	60-40-18, 65-45-12, 80-55-06; SAE J434: D4018, D4512, D5506; ASTM A47: Grade 32510, 35018; SAE J158: Grade M3210, M4504, M5003, M5503, M7002; ASTMA842: Grade 250, 300, 350, 400, 450
K3	High-Strength Ductile Irons and Austempered Ductile Iron (ADI)	–	>600	180–350	<43	ASTM A536:100-70-03, 120-90-02, SAE J434: D7003, SAE J158: Grade M8501AST A897: 125-80-10, 150-100-7, 175-125-4, 200-150-1, 230-185
N1	Wrought Aluminum	–	–	–	–	2025, 5050, 7050, 1000, 2017
N2	Low-Silicon Aluminum Alloys and Magnesium Alloys	Si <12,2%	–	–	–	2024, 6061, 7075
N3	High-Silicon Aluminum Alloys and Magnesium Alloys	Si >12,2%	–	–	–	–
N4	Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100	–	–	–	–	C81500
N5	Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass	–	–	–	–	–
N6	Carbon, Graphite Composites, CFRP	–	–	–	–	Graphite, CFK, CFRP
N7	Metal Matrix Composites (MMC)	–	–	–	–	C63000
S1	Iron-Based, Heat-Resistant Alloys	–	500–1200	160–260	25–48	A-286, INCOLOY® 800 Series, A608, A567, Discaloy™, INVAR®, N-155, 16-25-6, 19-9 DL; Cast: ASTM A-297, A-351, A-567, A-608
S2	Cobalt-Based, Heat-Resistant Alloys	–	1000–1450	250–450	25–48	Haynes® 25 (L605), Haynes 188, J-1570, Stellite, AiResist 213; Cast: AiResist 13, Haynes 21, MAR-M302, MAR-M509, NASA Co-W-Re, WI-52
S3	Nickel-Based, Heat-Resistant Alloys	–	600–1700	160–450	<48	Astroloy™, Hastelloy® B/C/ C-276 /X, INCONEL® 600 and 700 Series, IN102, INCOLOY 900 Series, Rene 41, Waspalloy, Monel®, K-500, MAR-M20, NIMONIC®, UDIMET®
S4	Titanium and Titanium Alloys	–	900–1600	300–400	33–48	Pure: Ti 98.8, Ti 98.9,Ti 99.9; Alloyed: Ti 5Al-2.5Sn, Ti6Al-4V, Ti6Al-2Sn-4Zr-2Mo, Ti-3Al-8V-6Cr-4Mo-4Zr, Ti-10V-2Fe-3Al, Ti-13V-11Cr-3Al
H1	Hardened Materials	–	–	–	44–48	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H2	Hardened Materials	–	–	–	48–55	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H3	Hardened Materials	–	–	–	56–60	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H4	Hardened Materials	–	–	–	>60	Tool Steel H10, H11, H13, D2, D3, 4340, P20
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Non-Ferrous	–	–	–	–	–
C3	CFRP/High-Temp	–	–	–	–	–
C4	CFRP/Stainless Steel	–	–	–	–	–
C5	CFRP/Non-Ferrous/High-Temp	–	–	–	–	–

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials
C	CFRP Materials

material group	description	content	tensile strength RM (MPa)*	hardness (HB)	hardness (HRC)	material number
P0	Low-Carbon Steels, Long Chipping	C <0,25%	<530	<125	–	–
P1	Low-Carbon Steels, Short Chipping, Free Machining	C <0,25%	<530	<125	–	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
P2	Medium- and High-Carbon Steels	C >0,25%	>530	<220	<25	ST52, S355JR, C35, GS60, Cf53
P3	Alloy Steels and Tool Steels	C >0,25%	600–850	<330	<35	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
P4	Alloy Steels and Tool Steels	C >0,25%	850–1400	340–450	35–48	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P5	Ferritic, Martensitic, and PH Stainless Steels	–	600–900	<330	<35	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P6	High-Strength Ferritic, Martensitic, and PH Stainless Steels	–	900–1350	350–450	35–48	X102CrMo17, G-X120Cr29
M1	Austenitic Stainless Steel	–	<600	130–200	–	X5CrNi 18 10, X2CrNiMo 17 13 2, G-X25CrNiSi18 9, X15CrNiSi 20 12
M2	High-Strength Austenitic Stainless and Cast Stainless Steels	–	600–800	150–230	<25	X2CrNiMo 13 4, X5NiCr 32 21, X5CrNiNb 18 10, G-X15CrNi 25-20
M3	Duplex Stainless Steel	–	<800	135–275	<30	X8CrNiMo27 5, X2CrNiMoN22 5 3, X20CrNiSi25 4, G-X40CrNiSi27 4
K1	Gray Cast Iron	–	125–500	120–290	<32	GG15, GG25, GG30, GG40, GTW40
K2	Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI)	–	<600	130–260	<28	GGG40, GTS35
K3	High-Strength Ductile Irons and Austempered Ductile Iron (ADI)	–	>600	180–350	<43	GGG60, GTW55, GTS65
N1	Wrought Aluminum	–	–	–	–	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, ALMgSiPb
N2	Low-Silicon Aluminum Alloys and Magnesium Alloys	Si <12,2%	–	–	–	GAlSiCu4, GDAlSi10Mg
N3	High-Silicon Aluminum Alloys and Magnesium Alloys	Si >12,2%	–	–	–	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
N4	Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100	–	–	–	–	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
N5	Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass	–	–	–	–	Lexan®, Hostalen™, Polystyrol, Makrolon®
N6	Carbon, Graphite Composites, CFRP	–	–	–	–	CFK, GFK
N7	Metal Matrix Composites (MMC)	–	–	–	–	–
S1	Iron-Based, Heat-Resistant Alloys	–	500–1200	160–260	25–48	X1NiCrMoCu32 28 7, X12NiCrSi36 16, X5NiCrAlTi31 20, X40CoCrNi20 20
S2	Cobalt-Based, Heat-Resistant Alloys	–	1000–1450	250–450	25–48	Haynes® 188, Stellite® 6,21,31
S3	Nickel-Based, Heat-Resistant Alloys	–	600–1700	160–450	<48	INCONEL® 690, INCONEL 625, Hastelloy®, NIMONIC® 75
S4	Titanium and Titanium Alloys	–	900–1600	300–400	33–48	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H1	Hardened Materials	–	–	–	44–48	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153, Hardox® 400
H2	Hardened Materials	–	–	–	48–55	–
H3	Hardened Materials	–	–	–	56–60	–
H4	Hardened Materials	–	–	–	>60	–
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Non-Ferrous	–	–	–	–	–
C3	CFRP/High Temp	–	–	–	–	–
C4	CFRP/Stainless Steel	–	–	–	–	–
C5	CFRP/Non-Ferrous/High-Temp	–	–	–	–	–

P0 Workpiece Materials Listing • Steel • P0

P0 Low-Carbon Steels, Long Chipping *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1013	USt 34-1	–	–	G10130	–	–	–	1233	–	–	1.0055	–
1010	C 10	045 M 10	S 10 C	G10100	C 10	XC 10	C 10	–	–	–	1.0301	–
1008	DD 11 (StW 22)	HR 3	SPHD	–	DD 11	1 C	–	–	–	–	1.0332	–
1020	C 22	050 A 20	S 22 C	G10200	1 C 22	C 20	C 20	1450	–	–	1.0402	–
1025	C 25	070 M 26	S 22 C	G10250	1 C 25	C 25	C 25	–	–	–	1.0406	–
1012	B 500 H	–	S 12 C	G10120	B 500 B	XC 12	B 500 B	1332	–	–	1.0439	–
1018	C16.8	080 A 17	–	G10180	–	–	–	–	–	–	1.0453	–
1108	10 S 20	210 M 15	–	G 11080	10 S 20	10 F 1	CF 10 S 20	–	–	–	1.0721	–
1010	Ck 10	040 A 10	S 10 C	G10100	2 C 10	XC 10	C 10	1265	–	–	1.1121	–
1022	20 Mn 5	120 M 19	SMn 420	G 10220	20 Mn 5	20 M 5	G 22 Mn 3	–	–	–	1.1133	–
1015	Ck 15	080 M 15	S 15 C	G 10150	2 C 15	XC 15	C 15	1370	–	–	1.1141	–
1021	22 B 2	–	SWRCHB 220	G10210	C 22 BE 69	21 B 3	–	–	–	–	1.5508	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460; S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	St E 320-3Z	–	–	–	S 320 GD + ZA	–	–	–	–	–	1.0250	–

P1 Workpiece Materials Listing • Steel • P1

P1 Low-Carbon Steels, Short Chipping, Free Machining *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	R St 34-2/ S 205 G2T	34/20CR	–	K02502	–	–	–	–	–	–	1.0034	–
–	St 33	HR 15	SS 330	K01400	–	A 33	Fe 320	–	–	–	1.0035	–
A 570 Gr. 33	USt 37-2	4360-40 B	SS 34	K 02502	S 235 JR G1	E 24-2	Fe 360 BFU	1311	–	–	1.0036	–
–	St 37-2	HS 37/23	STKR 400	K02702	S 235 JR	E 28-2	Fe 430 C	1412	–	–	1.0037	–
A 570 Gr. 36	R St 37-2/S235 JRG2	4260-40 C	SS 34	K 02502	S235 JR G 2	E 24-2 NE	Fe 360 BFN	1312	–	–	1.0038	–
–	S 235 JRH	S 235 JRH	–	–	S235JRH	E 24-2	S 235 JRH	–	–	–	1.0039	–
–	R St 42-1	–	–	K02507	–	–	–	–	–	–	1.0077	–
–	S235J2G3/Fe 360 D1	S 235 J 2 G 3	–	K01501	S 235 J2 G3	E 24-4	S 235 J2G3	1313	–	–	1.0161	–
–	C 10 Pb	–	–	–	C 10 GPb	–	–	–	–	–	1.0302	–
–	QSt 32-3	–	SWRCH6R	–	CB 4 FF KD	–	CB 4 F U	–	–	–	1.0303	–
–	St 35.8	–	STPT 38	K01201	–	–	–	–	–	–	1.0305	–
–	St 37-2	360	STKM 12 A	K02504	S 235 JR	E 24-2	Fe 360	1412	–	–	1.0308	–
–	C10D	–	SWRM 10	–	C 10 D	FM 10	C 10 D	–	–	–	1.0310	–
–	C12D	–	SWRM 12	–	C 12 D	–	C 12 D	–	–	–	1.0311	–
–	R St 15	FeP05	–	–	Fe P05	FeP05	FeP05	–	–	–	1.0312	–
–	D 6-2	0 1 5 A 03	SWRM 6	G10050	C 4 D	–	3 CD 5	–	–	–	1.0314	–
–	St 37.8	–	STB 35	–	–	–	Fe 37	–	–	–	1.0315	–
–	St 13	CR 3	SPCD	–	–	–	–	–	–	–	1.0333	–
–	D D 13 (StW 24)	H S 3	SPHE	–	D D 13	3C	–	–	–	–	1.0335	–
–	USt 4/DC 04 G	–	–	–	D C 04 G 1	–	–	–	–	–	1.0336	–
–	Ro St 4/DC 04 GT	–	–	–	DC 04 GT	–	–	–	–	–	1.0337	–
–	St 4	DC 04/FeP04	SPCE	–	Fe P04	Fe 14	DC04/FeP04	–	–	–	1.0338	–
–	DC01Cu	–	–	–	DC 01 Cu	–	–	–	–	–	1.0344	–
–	RR St 3	CR 3	SPCD	–	Fe P03	F 13	DC 03/FeP 03	–	–	–	1.0347	–
–	U H I/P 195GH	–	SGV 480	–	P 195 Gh	–	–	–	–	–	1.0348	–
–	St 14 Cu 3	–	–	–	DC 04 Cu	–	–	–	–	–	1.0354	–
–	–	3 CR	–	–	D D 12	D D 12	–	–	–	–	1.0398	–
1015	C 15	080 M 15	S 15 C	G10170	C 15	C 12	C 15	1350	–	–	1.0401	–
–	LSt 45.8	–	–	–	C 16	–	C 16	–	–	–	1.0407	–
–	C15D	–	SWRM 15	–	C 15 D	FM 15	C 15 D	–	–	–	1.0413	–
–	C20D	–	SWRM 20	–	C 20 D	FM 20	C 20 D	–	–	–	1.0414	–
–	C26D	–	SWRH 27	–	C 26 D	FM 26	C 26 D	–	–	–	1.0415	–
–	C18D	–	SWRM 17	–	C 18 D	FM 18	C 18 D	–	–	–	1.0416	–
–	RSt 44-2	440	–	G10160	–	–	–	–	–	–	1.0419	–
–	P265 NB	–	SG 295	–	P 265 NB	BS 2	–	–	–	–	1.0423	–
–	P 265 GH	151-400	SG 30	K02801	P 265 GH	A42CP	P 265 GH	1430	–	–	1.0425	–
–	C 22.3	–	–	–	C 22 G 1	–	–	–	–	–	1.0427	–
–	BSt 420 S	–	–	–	Fe B 400	–	–	–	–	–	1.0428	–
–	C 21	–	SFVC 1	K03504	P 305 GH	–	–	–	–	–	1.0432	–
–	GS-45	A1	SC 450	J03001	GE 230	E23-45M	–	1305	–	–	1.0446	–
–	TStE 275 (S 275 NL)	40EE	–	–	S 275 NL	S 275 NL	S 275 NL	–	–	–	1.0491	–
–	St 42.8	–	STPT 42	–	–	–	Fe 42	–	–	–	1.0498	–
–	S 335 N (StE 355)	50 E	–	–	S 355 N	E 355	S 355 N	2134	–	–	1.0545	–
–	S 355 NL (TStE 355)	50 E E	–	–	S 355 NL	E 355	S 355 N L	2135	–	–	1.0546	–
–	R 7 S 6/C 7 RG 2	–	–	–	C 7 RG 2	–	–	–	–	–	1.0709	–
B1112	9 S 20	220 M 07	SUM 21	G 11120	–	–	CF 9 S 22	–	–	–	1.0711	–
1213	9 SMn 28/11 SMn 30	230 M 07	SUM 22	G 12130	11 SMn 28	S 250	CF 9 SMn 28	1912	–	–	1.0715	–
12L13	9 SMnPb 28	–	SUM 22 L	G 12134	11 SMnPb 28	S 250 Pb	CF 9 SMnPb 28	1914	–	–	1.0718	–
–	15 S 22/15 S 20	En32M	SUM 32	–	15 S 22	–	–	1922	–	–	1.0723	–
–	15 SMn 13	15 SMn 13	–	–	15 SMn 13	15 SMn 13	–	–	–	–	1.0725	–
1215	9 SMn 36/11 S Mn 37	240 M 07	SUM 25	G 12150	11 SMn 37	S 300	CF 9 SMn 36	–	–	–	1.0736	–
12L14	9 SMnPb 36/11 SMnPb 37	–	–	G 12144	11 SMnPb 37	S 300 Pb	CF 9 SMnPb 36	1926	–	–	1.0737	–
–	11 SMnPbTe 37	11 SMn 37	–	–	11 SMn 37	–	–	–	–	–	1.0738	–
–	15 SPb 20/15 SPb 22	–	–	–	15 SPb 22	–	–	–	–	–	1.0753	–
–	36 SMn 14	36SMn14	–	–	36SMn14	36SMn14	–	–	–	–	1.0764	–
–	C10D2	–	–	–	C 10 D 2	FM 10	C 10 D 2	–	–	–	1.1114	–
–	Cq 10 (C 10 C)	–	SWRCH 10 K	–	C 10 KD	–	–	–	–	–	1.1122	–
–	C15D2	–	–	–	C 15 D 2	FM 15	C 15 D 2	–	–	–	1.1126	–
–	C 18D2	–	–	–	C 18 D 2	FM 18	C 18 D 2	–	–	–	1.1129	–

(continued)

P1 Workpiece Materials Listing • Steel • P1 *(continued)*

P1 Low-Carbon Steels, Short Chipping, Free Machining *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GS-16 Mn 5	–	–	–	G 17 Mn 5	G 17 Mn 5	G17Mn5	–	–	–	1.1131	–
–	C20D2	–	–	–	C 20 D 2	FM 20	C20D 2	–	–	–	1.1137	–
–	C26D2	–	–	–	C 26 D 2	FM 26	C26D 2	–	–	–	1.1139	–
–	GC 16 E/GS-Ck 16	–	–	–	GC 16 E	–	–	–	–	–	1.1142	–
–	C 16 E	C 16 E	–	–	C 16 E	XC 18	–	–	–	–	1.1148	–
–	Cm 22	070 M 20	C 22 R (3 C 22)	–	3 C 22	XC 18 u	C 22 R	–	–	–	1.1149	–
–	Ck 22	050 A 20	S 22 C	G10230	2 C 22	XC 25	C 20	–	–	–	1.1151	–
–	Cq 22	–	SWRCH20K	–	C 21 KD	–	CB 20 FF	–	–	–	1.1152	–
–	Ck 25	070 M 26	S 25 C	G10250	2 C 25	XC 25	C 25	–	–	–	1.1158	–
–	C2D1	–	–	–	C 2 D 1	–	C 2 D 1	–	–	–	1.1185	–
–	19 MnVS 6	–	–	–	19 MnVS 6	–	–	–	–	–	1.1301	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460;S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	S 235 J 0 W (Allwesta 360)	S 235 J 0 W	SMA 400 BW	–	S 235 JO W	S 235 J 0 W	–	–	–	–	1.8958	–
–	S 355 J 0 W (Allwesta 510)	WR 50 B	SMA 490 BW	–	S 235 JO W	E24W-3	S 235 JO W	–	–	–	1.8959	–
–	WTSt 37-2/S235JRW	WR 50 B	SMA 41 A	K11538	S 235 JR W	E 24 W-2	–	–	–	–	1.8960	–
–	WTSt 37-3	WR 50 C	SMA 50 A	–	S 235 J2 W	S 235 J 2 W	Fe 360 D FF	–	–	–	1.8961	–
–	USt 42-2	–	SS 41	–	–	HS 18-0-2-10	–	–	–	–	1.0040	–
–	St 37-2	–	–	–	S 235 JRC	E 24-2	S 235 JRC	–	–	–	1.0120	–
–	S 235 JR G1F	–	–	–	S 235 JRG 1 F	–	–	–	–	–	1.0160	–
–	St 12	DC 01/Fe P01	SPCC	–	Fe P01	DC 01/fe P01	DC 01/FeP0 1	–	–	–	1.0330	–
–	GS-38	A1	–	–	GE 200	230-400M	–	1306	–	–	1.0420	–
–	GS-20 Mn 5	–	SMnC 420	H15220	–	–	–	–	–	–	1.1120	–
–	G 20 Mn 5	–	–	–	G 20 Mn 5	–	G 20 Mn 5	–	–	–	1.6220	–

P2 Workpiece Materials Listing • Steel • P2

P2 Medium- and High-Carbon Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: >530* *Hardness (HB): <220 (HRC): <25*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 355 JR	En 50 B	SM 490 YA	–	S 1207	E36-2	Fe 510 BFN	–	–	–	1.0045	–
1035	C 35	060 A 35	S 35 C	G 10350	1 C 35	CC 35	C 35	1550	–	–	1.0501	–
1045	GS-C 45	080 M 46	S 45 C	G10450	1 C 45	CC 45	C 45	1650	–	–	1.0503	–
1040	C 40	080 M 40	S 40 C	G 10 400	1 C 40	C 40	C 40	–	–	–	1.0511	–
1046	S 355 K 2 G 4 Cu	–	–	G10460	S 355 K2 G4 Cu	–	–	–	–	–	1.0519	–
1030	C30	080 M 30	SUP 7	G 10 300	1 C 30	C C 32	C 30	–	–	–	1.0528	–
1055	C 55	070 M 55	S 55 C	J05000	1 C 55	C 55	C 55	1655	–	–	1.0535	–
1551	C 50 Pb	–	–	G15510	C 50 G Pb	–	–	–	–	–	1.0542	–
–	GS-60	A3	–	–	GE 300	320-560M	C 45	1606	–	–	1.0558	–
1037	36 Mn4	170 H 36	–	G10370	–	–	–	–	–	–	1.0561	–
–	PSt 52-3 (S 355 J2 G3 F)	–	–	–	S 355 J2 G3 F	–	FE 510 C	–	–	–	1.0572	–
–	S 355 J2H (RoSt 52-3)	50D	–	–	S355J2H	–	S355J2H	–	–	–	1.0576	–
1060	C 60	080 A 62	S 60 C-CSP	G 10600	1 C 60	AF 70 C 55	C 60	–	–	–	1.0601	–
1070	C 67	CS 70	S 70 C -CSP	G10700	1 CS 67	C 68	C 67	–	–	–	1.0603	–
1074	C 75	CS 80	–	G10740	1 CS 75	C 75	C 75	–	–	–	1.0605	–
1059	C58D	–	S 58 C	G10590	C 58 D	FM 58	C 58 D	–	–	–	1.0609	–
1075	C76D	–	–	G10750	C 76 D	FM 76	C 76 D	–	–	–	1.0614	–
1080	C86D	CS 80	–	G10860	C 86 D	FM 86	C 86 D	–	–	–	1.0616	–
1095	C92D	95 CS	–	G10950	C 92 D	–	C 92 D	–	–	–	1.0618	–
1110	U 10 S 10	–	SUM 12	G11100	–	–	–	–	–	–	1.0702	–
11L08	10 SPb 20	–	–	G 11084	10 SPb 20	10 Pb F 2	CF 10 SPb 20	–	–	–	1.0722	–
1140	35 S 20	212 M 36	–	G 11400	35 S 20	35 MF 4	–	1957	–	–	1.0726	–
1146	45 S 20	212 M 44	–	G 11460	45 S 20	45 MF 4	–	1973	–	–	1.0727	–
1151	60 S 20	–	–	G11510	60 S 20	60 MF 4	–	–	–	–	1.0728	–
1141	36 Mn 6	212 M 36	S Mn 443	G 11410	–	–	–	–	–	–	1.1127	–
1039	40 Mn 4	150 M 36	–	G10390	–	35 M 5	–	–	–	–	1.1157	–
1536	34 Mn 5	En15B	SS 55	G15360	–	–	–	–	–	–	1.1166	–
1030	Cq 35	–	F.1133 (C 35 DF)	G 10300	C 35 KD	–	CB 35	–	–	–	1.1172	–
1034	Ck 34	080 M 34	S 34 C	G 10340	2 C 34	–	C 34	–	–	–	1.1173	–
1038 H	Ck 38	–	–	G 10380	–	XF 38	–	–	–	–	1.1176	–
1030	Ck 30	080 M 30	S 30 C	G 10300	2 C 30	XC 32	C 30	–	–	–	1.1178	–
1034	Ck 35	080 M 36	S 35 C	G 10340	2 C 35	XC 38 H1	C 35	1572	–	–	1.1181	–
1035	Cf 35	060 A 35	S 35 C	G 10350	C 35 G	XC 38 TS	C 35	1572	–	–	1.1183	–
1040	Ck 40	080 A 40	S 40 C	G 10400	2 C 40	XC 42 H1	C 40	–	–	–	1.1186	–
1045	Cf 45	060 A 47	S 45 C	G10450	C 45 G	XC 42 TS	C 43	1672	–	–	1.1193	–
1055	Ck 55	070 M 55	S 55 C	G10550	2 C 55	XC 55 H1	C 55	1655	–	–	1.1203	–
1050	Ck 50	080 M 50	S 50 C	G10500	2 C 50	XC 48 H1	C 50	1674	–	–	1.1206	–
1055	Cm 55	070 M 55	–	G 10550	3 C 55	XC 55 H1	C 55 R	–	–	–	1.1209	–
1053	Ck 53	En43C	S 53 C	G 10530	–	–	–	–	–	–	1.1210	–
1050	Cf 53	060 A 57	S 50 C	G 10500	C 53 G	XC 48 TS	C 48	1674	–	–	1.1213	–
1060	Ck 60	060 A 62	S 58 C	G 10640	2 C 60	XC 60	C 60	1678	–	–	1.1221	–
1552	52 Mn 5	–	–	G15520	–	–	–	–	–	–	1.1226	–
1065	FD (Federstahldraht)	095 A 65	–	G10650	C 68 D	–	–	–	–	–	1.1230	–
1070	Ck 67	060 A 67	S 70 C-CSP	G 10700	C 67 S	XC 68	C 70	1770	–	–	1.1231	–
1069	Ck 68	–	–	G10690	C 70 D	–	–	–	–	–	1.1234	–
1080	Ck 75	060 A 78	C 75	G 10800	C 75 S	XC 75	C 75	1774	–	–	1.1248	–
–	Cf 70	–	–	–	C 70 G	XC 70	–	–	–	–	1.1249	–
1090	Ck 85	–	SK 5 -CSP	G 10900	C 85 S	XC 90	C 90	–	–	–	1.1269	–
1085	90 Mn 4	080 A 83	SUP4	G 10850	–	–	–	–	–	–	1.1273	–
1095	Ck 101	060 A 96	SUP_4	G 10950	C 100 S	XC 100	C 100	1870	–	–	1.1274	–
1050	C 50	080 M 50	S 50 C	G 10 500	1 C 50	C 50	C 50	1674	–	–	1.0540	–
–	St 52-3 G	4360-50 B	SM 50 YB	–	S 355 J 2 G 3	E 36-3	Fe 510 B	2132	–	–	1.0570	–
1078	C78D	–	SWRH 77 B	G10780	C 78 D	FM 78	C 78 D	–	–	–	1.0620	–
1035	Cm 35	080 M 36	–	G 10350	3 C 35	38 H1 k	C 35 R	1572-03	–	–	1.1180	–
1566	66 Mn 4	–	–	G15660	–	–	–	–	–	–	1.1260	–
1084	C 85 W	–	SK 5	G10840	C 90 U	Y3 90	–	–	–	–	1.1830	–

NOTE: For legend, see page Y237.

P3 Workpiece Materials Listing • Steel • P3

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–
E 52100	100 Cr 6	535 A 99	SUJ 2	G52986	100 Cr 6	100 C 6	100 Cr 6	2258	–	–	1.3505	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 Mn V 8	90 MV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
P21	90 Cr 3	–	–	T51621	–	–	–	–	–	–	1.2056	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
W 108	C 80 W1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
W 110	C 105 W1	B W 1 A	–	T72301	C 105 U	Y 105	C 100 KU	1880	–	–	1.1545	–
W 112	C 125 W	–	–	–	C 125 U	–	–	–	–	–	1.1563	–
W 112	C 125 W	–	SK 2	T72301	C 120 U	Y2 120	C 120 KU	–	–	–	1.1663	–
W 210	100 V 1	BW 2	SKS 43	T72302	100 V 2	Y1 105 V	102 V 2 KU	–	–	–	1.2833	–
–	St 50-1	–	–	–	–	–	–	–	–	–	1.0052	–
–	S 235 JO/ Fe 360 C	En 40C	–	–	S 235 JO	E24-3	Fe 360 CFN	–	–	–	1.0114	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C; S275J0	–	–	S 275 J0/ Fe 430 C	S 275 J0; E 28-3	S275J0; Fe430CFN	–	–	–	1.0143	–
–	S 275 J2 G4/ Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	S 355 JO H	50 C	–	–	S 355 JO H	–	S 355 JO H	–	–	–	1.0547	–
–	ZStE 340/ H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	S 355 JO	En 50 C; S 355 JO	SM 520 M	–	S 355 JO	S 355 JO; E 36-3	S 355 JO; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 JO C	E 36-3	Fe 510 C	–	–	–	1.0554	–

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	ZStE 420/H 420	46/40HR, HS, CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR, HS, CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/ S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C40D2	–	–	–	C 40 D 2	FM 40	C 40 D 2	–	–	–	1.1153	–
–	C42D2	–	–	–	C 42 D 2	FM 42	C 42 D 2	–	–	–	1.1154	–
–	C46D2	–	–	–	C 46 D 2	FM 46	C46D 2	–	–	–	1.1162	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	Ck 45	080 M 46	S 45 C	–	2 C 45	XC 42	C 40	1672	–	–	1.1191	–
–	Cq 45	–	SWRCH45K	–	C 45 KD	–	–	–	–	–	1.1192	–
–	C 45 R	080 M 46	S 50 C	–	C 45 R	XC 48 H1u	C 45 R	1672	–	–	1.1201	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–

NOTE: For legend, see page Y237.

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–

NOTE: For legend, see page Y237.

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P4 Workpiece Materials Listing • Steel • P4

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
–	S 235 J0/Fe 360 C	En 40C	–	–	S 235 J0	E24-3	Fe 360 CFN	–	–	–	1.0114	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C; S275J0	–	–	S 275 J0/Fe 430 C	S 275 J0; E 28-3	S275J0; Fe430CFN	–	–	–	1.0143	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
–	S 275 J2 G4/Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	L 210 GA	–	–	–	L 210 GA	TS E 220 class 2	–	–	–	–	1.0319	–
–	USD 7/C 8 G1 W	–	–	–	C 8 G 1 W	–	–	–	–	–	1.0323	–
–	RSD 7/C8G2W	–	–	–	C 8 G 2 W	–	–	–	–	–	1.0324	–
–	RSD 10 Si/C10WSi	–	–	–	C 10 W Si	–	–	–	–	–	1.0339	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	RRSD 10/C10 W	–	–	–	C 10 W	–	–	–	–	–	1.0351	–
–	St 45.8	–	STB 410	K02727	–	–	–	–	–	–	1.0405	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H II/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	GS-45	–	SC 450	–	–	–	–	–	–	–	1.0443	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	HIII/L 235 GA	–	–	–	L 235 GA	–	–	–	–	–	1.0458	–
–	L 245 GA/RRStE 240.7	–	–	–	L 245 GA	TS E 250	–	–	–	–	1.0459	–
–	St E255	–	–	K01800	–	–	–	–	–	–	1.0461	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	21 Mn 4	–	–	–	–	–	20 Mn 4	–	–	–	1.0469	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	L 360 GA	–	–	–	L 360 GA	–	–	–	–	–	1.0499	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	StSch 700 (R 0 700)	–	–	–	R 0700	–	–	–	–	–	1.0521	–
–	StSch800 (R 0 800)	–	–	–	R 0800	–	–	–	–	–	1.0524	–
–	Cf 45 Pb	–	–	–	–	–	C 46	–	–	–	1.0526	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	GL-A 40 (S 390 G 1 S)	–	–	–	S 390 G 1 S	–	–	–	–	–	1.0532	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	Schienen 60 F(R 0600/ St Sch 60)	–	–	–	R 0600	–	–	–	–	–	1.0544	–
–	S 355 J0 H	50 C	–	–	S 355 J0 H	–	S 355 J0 H	–	–	–	1.0547	–
–	ZStE 340/H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	GS-52	A2	–	–	GE 260	–	–	–	–	–	1.0552	–
–	S 355 J0	En 50 C;S 355 J0	SM 520 M	–	S 355 J0	S 355 J0; E 36-3	S 355 J0; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 J0 C	E 36-3	Fe 510 C	–	–	–	1.0554	–
–	GS-62	–	–	–	S 355 GO 1	–	–	–	–	–	1.0555	–
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	GS-62.3	–	–	–	S 355 GO 2	–	–	–	–	–	1.0559	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
–	N 80	–	–	–	–	–	–	–	–	–	1.0564	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	32 Mn 3	–	–	–	–	–	–	–	–	–	1.0567	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	ZStE 460/H 460	–	–	–	–	–	–	–	–	–	1.0574	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	FStE 355 OS 3/S355G03	–	–	K12000	S 355 G03	–	–	–	–	–	1.0591	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C 30 Pb	–	–	–	C 3 0 GPb	–	–	–	–	–	1.0598	–
–	C 60 Pb	–	–	–	C 60 GPb	–	–	–	–	–	1.0602	–
–	C 67 GPb/C 67 Pb	–	–	–	C 67 GPb	–	–	–	–	–	1.0606	–
–	C 75 GPb/C 75 Pb	–	–	–	C 75 GPb	–	–	–	–	–	1.0607	–

NOTE: For legend, see page Y237.

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	GP 240 GR	–	–	–	GP 240 GR	GP 240 GR	GP 240 GR	–	–	–	1.0621	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	StSch 900 A (R 0900)	–	–	–	R 0900	–	–	–	–	–	1.0623	–
–	StSch 900 B (R 0900 Mn)	–	–	–	R 0900 Mn	–	–	–	–	–	1.0624	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	C88D	–	–	–	C 88 D	–	C 88 D	–	–	–	1.0628	–
–	StSch 1200 (R 1200)	–	–	–	R 1200	–	–	–	–	–	1.0631	–
–	C 61/60 Mn 3	–	–	–	C 61	–	C 61	–	–	–	1.0642	–
–	C 85/85 Mn 3	–	–	–	C 85	–	C 85	–	–	–	1.0647	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
–	StSch 1100 (R 1100 Cr)	–	–	–	R 1100 Cr	–	–	–	–	–	1.0915	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	FStE 355 OS 3/S355G04	–	–	–	S 355 G04	–	–	–	–	–	1.1102	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	USD 5/C 8 E1 W	–	–	–	C 8 E 1 W	–	–	–	–	–	1.1112	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	USD 6/C 8 E2 W	–	–	–	C 8 E 2 W	–	–	–	–	–	1.1116	–
–	G 24 Mn 4/GS 24 Mn 4	–	–	–	G 24 Mn 4	–	–	–	–	–	1.1136	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.115	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
–	G 40 Mn 5/GS 40 Mn 5	–	–	–	G 40 Mn 5	–	–	–	–	–	1.1168	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	Ck 38 Pb	–	–	–	25 Mn 4	–	–	–	–	–	1.1177	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	Ck 35 Pb	–	–	–	S 355 G 13	–	–	–	–	–	1.1182	–
–	Ck 36	–	–	–	S 355 G 14	–	–	–	–	–	1.1184	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	Ck 53 Pb	–	–	–	C 90 S	–	–	–	–	–	1.1217	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	C 110 W	–	–	–	C 110 U	–	–	–	–	–	1.1554	–
–	C 120 U	–	–	–	C120U	–	–	–	–	–	1.1555	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
–	C 105 W2	–	SK 3	–	–	–	–	–	–	–	1.1645	–
–	C 135 W	–	SK 1	–	–	Y2 140	C 140 KU	–	–	–	1.1673	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	125 Cr 1	–	–	–	125 Cr 2	Y2 120 C	–	–	–	–	1.2002	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	105 Cr 4	–	SKC 11	–	–	–	–	–	–	–	1.2057	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	35 CrMo 7	–	–	–	35 CrMo 7	–	–	–	–	–	1.2302	–
–	48 CrMoV 67	–	–	–	–	45 CDV 6	–	–	–	–	1.2323	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	57 NiCrMoV 7 7	–	–	–	55 NiCrMoV 7	–	–	–	–	–	1.2744	–
–	70 MnMoCr 8	–	–	–	70 MnMoCr 8	–	–	–	–	–	1.2824	–
–	95 MnWCr 5	–	–	–	95 MnWCr 5	–	–	–	–	–	1.2825	–
–	60 MnSi 4	–	–	–	–	60 MSC 4	–	–	–	–	1.2826	–
–	101 Cr 6	–	–	–	–	–	102 Cr 6 KU	–	–	–	1.3514	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
9259H	51 Si 7	–	–	–	50 Si 7	–	48 Si 7	2090	–	–	1.5025	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
–	65 Si 7	–	SUP 7	–	–	–	–	–	–	–	1.5028	–
–	12 Mn 8	–	–	–	11 Mn 8 KE	–	–	–	–	–	1.5086	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	50 MnSi 4	–	–	K04800	–	–	–	–	–	–	1.5131	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
–	20 MnMo 3 5	–	–	K12121	–	–	–	–	–	–	1.5421	–
–	G 18 Mo 5	–	–	–	G18Mo5	–	G 18 Mo5	–	–	–	1.5422	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	13 MnMo 8 5	–	–	K11423	11 MnMo 85 KE	–	–	–	–	–	1.5427	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.553	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	10 NiMnMo 6 5	–	–	K11160	–	–	–	–	–	–	1.6312	–
–	16 NiCrMO 12 6	–	–	–	–	16 NCD 13	–	–	–	–	1.6782	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
–	13 Cr 2	–	–	–	–	–	–	–	–	–	1.7012	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
–	54 SiCr 6	–	–	–	–	54 SC 6	–	–	–	–	1.7102	–
–	67 SiCr 5	–	–	–	67 SiCr 5	–	67 SiCr 5	–	–	–	1.7103	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
–	52 SiCrNi 5	–	–	–	–	52 SCN 5	–	–	–	–	1.7117	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
–	49 CrMo 4	–	SCM 445	–	–	–	–	–	–	–	1.7238	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	10 CrMo 11	–	–	–	–	12 CD 10	–	–	–	–	1.7276	–
–	16 CrMo 9 3	–	–	–	–	20 CD 8	–	–	–	–	1.7281	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
–	12 CrMo 8 5	–	–	K21509	–	–	–	–	–	–	1.7358	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	12 CrMo 9 10	–	–	–	–	12 CrMo 9-10	–	–	–	–	1.7375	–
–	SG-CrMo 9	–	–	S50480	–	–	–	–	–	–	1.7388	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
6150	50 CrV 4	735 A 50	SUP 10	G61500	51 CrV 4	50 CV 4	50 CrV 4	2230	–	–	1.8159	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 355 G1 M	–	–	–	S 355 G 1 M	–	–	–	–	–	1.8822	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–

NOTE: For legend, see page Y237.

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	S 460 MLH	–	–	–	S 460 MLH	–	S 460 MLH	–	–	–	1.885	–
–	FStE 355 OS 4/ S420G5Q	–	–	–	S 420 G 2	–	–	–	–	–	1.8853	–
–	P 550 QL	–	–	–	P 550 QL	–	–	–	–	–	1.8878	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
–	BGH 8906	55 F	–	–	S 460 QL	S 460 QL	S 460 QL	–	–	–	1.8906	–
–	St E 500	–	SM 58	K02001	–	–	–	–	–	–	1.8907	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	EStE 420/ S420NL1	–	STK 540	–	–	–	–	–	–	–	1.8913	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/ P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/ P460Nl2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/ S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VB/ S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/ TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	TStE 690 VD/ S690G3QL	–	–	–	S 690 G 3 QL	–	–	–	–	–	1.8929	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/ P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/ P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	P420 QH	–	–	–	P 420 QH	–	–	–	–	–	1.8936	–
–	TStE 770 V/ S770QL	–	–	–	S 770 QL	–	–	–	–	–	1.8938	–
–	EStE 790 V/ S790QL1	–	–	–	S 790 QL 1	–	–	–	–	–	1.8939	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 550 G 1 QL 1/ EStE 550 VA	–	–	–	S 550 G 1 QL 1	–	–	–	–	–	1.8944	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	EStE620VA/S 620 G 1 QL 1	–	–	–	S 620 G 1 QL 1	–	–	–	–	–	1.8954	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	EStE 690 VA	–	–	–	S 690 G1 QL1	–	–	–	–	–	1.8964	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	GL-E - 40 (S 390 G 3 S)	–	–	–	S 390 G 3 S	–	–	–	–	–	1.0560	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	C 64/64 Mn 3	–	–	–	C 64	–	–	–	–	–	1.0640	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 70 W2	–	–	–	C 70 U	–	–	–	–	–	1.1620	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
–	S 420 G1 M	–	–	–	P 550 M	–	–	–	–	–	1.8830	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/ S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	TStE 690 VA/ S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	WSt E 380/ P380Nh	–	–	–	P 380 NH	–	Fe E 390 KW	2116	–	–	1.8930	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P5 Workpiece Materials Listing • Steel • P5

P5 Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 600–900* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
410 S	X 7 Cr 14	–	–	–	–	–	–	–	–	–	1.4001	–
405	X 6 CrAl 13	405 S 17	SUS 405	S40500	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13	2302	–	–	1.4002	–
–	X 2 CrNi 1 2	–	–	–	Hyfab3/12	CLC4003	F12N(Mn<1,50)	–	–	–	1.4003	–
416	X 12CrS 13	416 S 21	SUS416	S41600	X 12 CrS 13	Z 12 CF 13	X12CrS13	2380	–	–	1.4005	ATI 416™
410	X 12Cr 13	410 S 21	SUS410	S 41000	(X 12 Cr 13 KD)	Z 12 C 13	X12Cr13	2302	–	–	1.4006	ATI 410™
414	GX 8 CrNi 1 3	410 C 21	SCS 1	S41400	GX 7 CrNiMo 12-1	Z 12 CN 13 M	GX 12 Cr 13	–	–	–	1.4008	–
–	X 8 Cr 14	–	SUS Y 410	S41080	X 8 Cr 13 KE	–	–	–	–	–	1.4009	B13Fe
–	GX 12 Cr 1 2	–	–	–	GX12Cr12	GX12Cr12	–	–	–	–	1.4011	–
–	N 3 2 0 (LW)	–	–	–	3S62	–	–	–	–	–	1.4014	–
–	X 8 Cr 18	–	SUS Y 430	S43080	–	–	–	–	–	–	1.4015	B17Fe
430	X 8 Cr 17	430 S 15	SUS430	S 43000	X 8 Cr 17	Z8C17	X8Cr17	2320	–	–	1.4016	ATI 430™
–	X 6 CrNi 17 1	–	–	–	X6CrNi17-1	F17N	X6CrNi17-1	–	–	–	1.4017	–
420	X20Cr13	420 S 37	SUS 420J1	S42000	X 20 Cr 13	Z20C13	X20Cr13	2303	–	–	1.4021	ATI 420™
403	X 15 Cr 13	420 S 29	SUS 410 J1	J91201	X 15 Cr 13	Z 12 C 13 M	X 12 Cr 13	2301	–	A403M	1.4024	ATI 403™
–	GX 20 Cr 1 4	420 C 29	SCS 2	–	–	Z 20 C 13 M	–	–	–	A743-4	1.4027	–
420	X 40 Cr 13	–	SUS 420 J2	S42080	X 40 Cr 13	Z 40 C 14	X 40 Cr 14	2304	–	–	1.4031	–
–	GX 120 Cr 29	425 C 11	–	–	–	–	–	–	–	F30C	1.4086	–
430 F	X 12 CrMoS 17	441 S 29	SUS 430 F	S 43020	X 14 CrMoS 17	Z 10 CF 17	X 10 CrS 17	2383	–	–	1.4104	–
430	X 4 CrMoS 18	–	SUS 430F	–	X 6 CrMoS 17	Z 6 CDF 18 - 02	–	–	–	–	1.4105	–
–	X 2 CrMoSiS 18 2 1	–	–	J91151	–	–	–	–	–	CA15	1.4106	–
–	GX 8 CrNi 1 2	–	–	–	GX 8 CrNi 12	GX8CrNi 12	G X 8 CrNi 12	–	–	–	1.4107	–
434	X 6CrMo 17	434 S 17	SUS434	S43400	434S17	Z8CD17-01	X8CrMo17	2325	–	–	1.4113	AL 434
–	X 15 CrMo 13	–	–	–	–	–	–	–	–	–	1.4119	–
–	GX 70 CrMo 29 2	–	–	–	–	Z 60 CD 29.2 M	–	–	–	–	1.4136	–
–	X 2 CrNi 24 12	309 S 93	–	–	X 2 CrNi 24 13 KE	Z 2 CN 24-14	–	–	–	–	1.4332	CN23/12-IG
–	X 5 NiCr 32 21	–	–	S33200	–	–	–	–	–	B536	1.4333	H521
–	GX 5 CrNiMo 16 5	–	–	–	GX 4 CrNiMo 16-5-1	GX4CrNiMo 16-5-1	G X 4 CrNiMo 16-5-1	–	–	–	1.4405	–
–	ERO 4411 A	–	–	–	GX 4 CrNiMo 16-5-2	GX 4 CrNiMo 16-5-2	–	–	–	–	1.4411	–
–	X 38 CrMo 14	–	–	–	–	–	–	–	–	–	1.4419	–
–	X 8 CrTi 18	–	–	–	X 6 Cr 18 KE	–	–	–	–	–	1.4502	–
430 Nb	X 6 CrNb 17	–	SUS 430 LX	–	X 3 CrNb 17	Z 8 CNb 17	X 6 CrNb 17	–	–	–	1.4511	AXC525
409	X 6 CrTi 12	409 S 19	SUH 409	S40900	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12	–	–	–	1.4512	–
–	X 6 CrNiTi 12	–	–	–	X 6 CrNiTi 12	X 6 CrNiTi 12	X 6 CrNiTi 12	–	–	–	1.4516	–
–	X 2 CrTi 17	–	SUS 430 LX	–	X 2 CrTi 17	F 20T	X 2 CrTi 17	–	–	–	1.4520	–
–	X 8 CrMoTi 17	–	–	–	X 2 CrMoTiS 18 2	X2CrMoTiS18-2	–	–	–	–	1.4523	1802
–	GX 5 CrNiCu 16 4	–	–	–	GX 5 CrNiCu 16-4	GX 5 CrNiCu 16-4	–	–	–	–	1.4525	–
–	X 6 CrMoNb 17 1	–	–	–	X 6 CrMoNb 17-1	X6CrMoNb 17-1	F 17 MNb	–	–	–	1.4526	–
904 L	X 1 NiCrMoCuN 25 20 5	904 S 13	–	N08904	X 1 NiCrMoCuN 25 20 5	Z 1 NCDU 25 20	–	2562	–	–	1.4539	ATI 904L™
348	X 5 CrNiNb 18 10	S 527	–	J92640	–	–	X 6 CrNiNb 18 11	–	–	–	1.4546	ATI 348™
–	X 5 CrNiNb 19 9	–	SUS Y 347	S34780	X 5 CrNiNb 20 10 KE	Z 6 CNNb 20-10	–	–	–	–	1.4551	–
–	GX 7 NiCrMoCuNb 42 20	–	–	–	GX 7 NiCrMoCuNb 4220	–	–	–	–	–	1.4559	–
–	X 5 CrNiMoNb 19 12	318 S 96	–	S31980	X 5 CrNiMoNb 19 12 03 KE	Z 4 CNDSNb 19-12-03	–	–	–	–	1.4576	–
–	X 2 CrAlTi 18 2	–	–	–	X 2 CrAlTi 18-2	DMV 59	X 2 CrAlTi 18-2	–	–	–	1.4605	–
–	X 10 CrAl 7	–	–	–	X 10 CrAl 7	–	–	–	–	–	1.4713	–

NOTE: For legend, see page Y237.

(continued)

P5 ■ Workpiece Materials Listing • Steel • P5 *(continued)*

P5 Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 600–900* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 215 Cr 12	–	–	–	–	–	–	–	–	–	1.4721	–
H-12	X 10 CrAl 13	BH 12	SUS 405	T20812	X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	–	–	–	1.4724	–
430	X 10 CrAl 18	(430 S 15)	SUH 21	S43000	–	Z 10 CAS 18	(X 8 Cr 17)	–	–	–	1.4742	–
446	X 10 CrAl 25	–	SUH 442	S44600	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	2322	–	–	1.4762	–
–	GX 40 CrNiSi 27 4	–	–	J92605	–	–	–	–	–	–	1.4823	–
–	X 12 CrNi 22 12	311 S 94	SUS Y 309	S30980	X 15 CrNi 23 13	–	X 16 CrNi 23 14	–	–	309	1.4829	–
–	X 9 CrNiSiNCe 21 11 2	–	–	–	X 9 CrNiSiNCe 21-11-2	–	–	–	–	–	1.4835	–
314	X 15 CrNiSi 25 20	314 S 25	SUH 310	S31400	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	–	–	–	1.4841	Cronifer® 2520
–	X 12 CrNi 25 20	310 S 94	–	S31080	X 12 CrNi 26 21 KE	Z 12 CN 26-21	–	–	–	–	1.4842	–
–	CrNi 25 20	–	SCS 18	S31400	–	–	–	–	–	–	1.4843	–
310 S	X 12 CrNi 25 21	310 S 24	SUS 310 S	S31008	X 8 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 25 20	2361	–	–	1.4845	ATI 310S™
HK	X 40 CrNiSi 25 20	310 C 40	SCH 21	J94204	–	–	GX 40 CrNi 26 20	–	–	–	1.4848	–
–	GX 40 NiCrSiNb 38-18	–	–	–	3072.76	–	–	–	–	–	1.4849	–
–	GX 10 NiCrNb 32 20	–	–	J95151	–	–	–	–	–	–	1.4859	–
330	X 12 NiCrSi 35 16	NA 17	SUH 330	N08330	X 12 NiCrSi 35 1 6	Z 12 NCS 37.18	–	–	–	–	1.4864	–
–	X40NiCrSi38-18	330 C 40	SCH15/SCH16	J94605	330C11/330C40/331C40	–	GX50NiCr39-19	–	–	–	1.4865	–
–	GX 50 CrNi 30-30	–	–	N08801	–	Z5NCT3220	–	–	–	–	1.4868	–
B163	X 10 NiCrAlTi 32 20	NA 15	NCF800(TP)	–	NA15(H)	Z10NC32.21	–	–	B163	–	1.4876	B163
–	X 6 NiCrNbCe 32 27	–	–	–	X 6 NiCrNbCe 32-27	–	–	–	–	–	1.4877	–
–	X 12 NiCrSi 35 19	–	–	N08830	X1 0 NiCrSi 35 19	–	–	–	–	–	1.4886	330
–	X 10 NiCrSiNb 35 22	–	–	–	X10NiCrSiNb35-22	–	–	–	–	–	1.4887	–
–	X 10 CrMoV 9 1	–	–	S59180	X 10 CrMoV 9-1	–	–	–	–	–	1.4903	–
–	X 20 CrMoV 12 1	–	–	–	X 20 CrMoV 11-1	–	X 20 CrMoV 12 01 KW	2317	–	–	1.4922	–
–	GX 22 CrMoV 12 1	–	–	–	G-X 22 CrMoV 12 1	GX23CrMoV12-1	G X 23 CrMoV 12-1	–	–	–	1.4931	–
422	X 20 CrMoWV 12 1	–	SUH 616	S42200	–	–	X 22 CrMoWV 12 1	–	–	–	1.4935	–
661	X 12 CrCoNi 21 20	–	SUH 661	R30155	–	–	–	–	–	–	1.4971	–
R30155	X 12 CrCoNiMoWNb 21 20 20	–	–	R30155	X 12 CrCoNiMoWNb 21 20 20	Z 12 CKNDWNb 21.20.20	N-155	–	–	–	1.4974	–
–	X 40 CoCrNi 20 20	–	–	–	–	Z 42 CNKDWNb	–	–	–	–	1.4977	–
403	X 6 Cr 13	403 S 17	SUS 403	S 40300	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	2301	–	A240	1.4000	ATI 410S™
439	X 6 CrTi 17	–	SUS 430 LX	S 43035	X 8 CrTi 1 7	Z 8 CT 1 7	X 6 CrTi 17	–	–	–	1.4510	430 Ti
–	X 22 CrMoV 1 -1 = ST12T	–	–	–	–	–	–	–	–	A437-76 Grade B4B	–	ATI FV448™
409 Cb	–	–	–	–	–	–	–	–	–	–	–	ATI 409Cb™
436 S	–	–	–	–	–	–	–	–	–	–	–	ATI 436S™
439 HP	–	–	–	S43035	–	–	–	–	–	–	–	ATI 439 HP™
441 HP	–	–	–	–	–	–	–	–	–	–	–	ATI 441 HP™
–	–	–	–	S44735	–	–	–	–	–	A240	–	AL 29-4C®
–	–	–	–	–	–	–	–	–	–	B625	–	ATI E-BRITE®
403Cb	–	–	–	–	–	–	–	–	–	–	–	T656
420 modified	–	–	–	–	–	–	–	–	–	–	–	Stavax ESR
–	–	–	–	–	–	–	–	–	–	–	–	420HC
–	–	–	–	–	–	–	–	–	–	–	–	CPM 154
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S30V®
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S35VN®
420 V	–	–	–	–	–	–	–	–	–	–	–	CPM® S90V®
–	–	–	–	–	–	–	–	–	–	–	–	M390
422	–	–	–	S42200	–	–	–	–	–	–	–	616

P6 Workpiece Materials Listing • Steel • P6

P6 High-Strength Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 900–1350*
Hardness (HB): 350–450 (HRC): 35–48

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	17-7 PH	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7; Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4564	ATI 17-7™
–	GX 22 CrNi 17	ANC 2	–	J91803	–	Z 20 CN 17.2 M	–	–	–	CB30	1.4059	–
–	GX 30 CrSi 6	–	–	–	–	–	–	–	–	–	1.4710	–
–	GX 4 CrNi 13 4	–	–	–	GX 4 CrNi 13-4	GX 4 CrNi 13-4	GX 4 CrNi 13-4	–	–	–	1.4317	–
–	GX 40 CrSi 17	–	–	–	–	–	GX 35 Cr 17	–	–	–	1.4740	–
–	GX 40 CrSi 24	–	SCH 1	–	–	–	GX 35 Cr 13	–	–	–	1.4745	–
–	GX 40 CrSi 28	452 C 11	SCH 2	J92605	–	–	GX 35 Cr 28	–	–	CC50	1.4776	–
–	X 105 CrCoMo 18 2	–	–	–	–	–	–	–	–	–	1.4528	N690
440 C	X 105CrMo 17	–	SUS 440C	S44004	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17	–	–	–	1.4125	ATI 440C™
–	X 110 CrMoV 15	–	SUS 430 LX	–	–	Z 4 CN b 17	X 6 CrNb 17	–	–	–	1.4111	–
5718.9	X 12 CrNiMo 12	S.151	–	S64152	–	Z12CNDV12	–	–	–	–	1.4939	ATI Jethete™ M152
–	X 12 CrNiMoV 12 3	–	–	–	X 12 CrNiMoV 12-3	X 12 CrNiMoV 12-3	–	–	–	–	1.4938	T522
–	X 15 TN	–	–	–	420S25	Z40CDV16-02	X40CrMoVN16-2	–	–	F899	1.4123	X 15 TN
15-5 PH	X 15 U 5 W	–	–	S15500	–	Z6CNU15.05	–	–	–	A564/ A693/A705	1.4545	ATI 15-5™
–	X 19 CrMoNbVN 11 1	–	–	–	–	Z 21 CDNbV 11	–	–	–	–	1.4913	Jethete X19
431	X 19 CrNi 17 2	431 S 29	SUS 431	S 43100	X 19 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	2321	–	–	1.4057	431 (HT)
–	X 20 CrMo 17 1	–	–	–	–	–	–	–	–	–	1.4115	B17MoFe
420F Mod	X 22 CrMoNiS 13 1	–	–	–	–	–	–	–	–	–	1.4121	Bioline 4C27A
–	X 22 CrMoV 12 1	762	–	–	X 22 CrMoV 12-1	Z 21 CDV 12	X 22 CrMoV 12 1	–	–	–	1.4923	Jethete X20
420	X 29 CrS 13	416 S 37	SUS 416	–	X 29 CrS 13	Z29CF13	X 29 CrS 13	–	–	–	1.4029	–
–	X 3 CrNiCuTi 12 9	–	–	S45500	–	–	X 6 CrNiNb 18 11	–	–	–	1.4543	ATI 455™
13-8 PH	X 3 CrNiMoAl 13 8 2	–	–	S13800	–	Z4 CNDAT 13 09	–	–	–	–	1.4534	ATI 13-8Mo™
420 F	X 30 Cr 13	420 S 45	SUS420J2	S42020	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	2304	–	CA40	1.4028	–
–	X 30CrMoN 15 1	–	–	–	420S45	Z33C13	–	2304	–	–	1.4108	N360
–	X 35 CrMo 17	–	–	–	X 39 CrMo 17 1	X39CrMo17-1	X 35 CrMo 17	–	–	–	1.4122	–
–	X 4 CrNiCuNb 16 4	–	–	J92200	–	Z 4 CNUNb 16.4 M	–	–	–	–	1.4540	–
415 M	X 4 CrNiMo 16 5 1	–	–	–	X 4 CrNiMo 16 5 1	Z 6 CND 16.05.01	–	2387	–	–	1.4418	APX4
–	X 40 CrNi 25 21	310 S 98	SCH 13	–	–	–	–	–	–	–	1.4846	–
–	X 40 CrSiMo 10 2	–	SUH3	–	X 40 CrSiMo 10-2	Z40CSD10	–	–	–	–	1.4731	–
420	X 45 Cr 13	(420 S45)	–	–	X 45 Cr 13	Z 40 C 14	X 40 Cr 14	–	–	–	1.4034	–
–	X 45 CrMoV 15	–	–	–	X 50 CrMoV 15	Z 50 CD 15	X 50 CrMo V 15	–	–	–	1.4116	UGI 4116N
HNV3	X 45 CrSi 9 3	–	SUH1	–	401S45	Z45CS9	X45CrSi8	–	HNV3	–	1.4718	–
HNV 2	X 45 SiCr 4	–	–	S64006	–	–	–	–	–	–	1.4704	–
CA 6-NM	X 5 CrNi 134	425 C 11	SCS 5	J91540	X 3 CrNiMo 13 4	Z 4 CDN 13.4	X 6 CrNi 13 04	2385	–	–	1.4313	–
630	X 5 CrNiCuNb 16 4	–	SUS 630	–	X 5 CrNiCuNb 16-4	Z6CNU17.04	–	–	–	CB7Cu	1.4542	UGIMA® 4542
17-4 PH	X 5 CrNiCuNb 17 4 4	–	SUS 630	S17400	X 5 CrNiCuNb 16-4	X5CrNiCuNb16.4	–	–	–	A693	1.4548	–
–	X 5 CrNiMoCuNb 14 5	–	–	–	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	–	–	–	1.4594	–
–	X 50 CoCrNi 20 20	–	–	–	–	–	–	–	–	–	1.4978	–
EV8	X 53 CrMnNiN 2 9	349 S 54	SUH35/SUH36	S63008	349S54	Z52CMN21.09	X53CrMnNiN21-9	–	EV8	–	1.4871	–
–	X 55 CrMo 14	–	–	–	–	Z 50 CD 13	–	–	–	–	1.4110	–
–	X 60 CrMnMoVNbN 21 10	–	–	–	–	Z 60 CMDVNb 21-10 Az	–	–	–	–	1.4785	–
440 A	X 65 CrMo 14	–	SUS 440A	S44002	X 70 CrMo 15	Z 70 CD 14	–	–	–	–	1.4109	ATI 440A™
–	X 7 CrNiAl 17 7	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4568	–
632	X 7 CrNiMoAl 15 7	–	–	S15700	–	–	–	–	–	–	1.4574	PH 15-7 Mo®
–	X 8 CrCoNiMo 10 6	Z 9 CKD 11	–	–	S152	Z10CKD10	–	–	–	–	1.4911	ATI FV535™
15-7 PH	X 8 CrNiMoAl 15 7 2	–	–	S15700	X 8 CrNiMoAl 15-7-2	Z8CNDA15.07	X 8 CrNiMoAl 15-7-2	–	–	A693	1.4532	ATI 15-7™
HNV 6	X 80 CrNiSi 20	443 S 65	SUH 4	S65006	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20	–	–	–	1.4747	–
–	X 85 CrMoV 18 2	–	–	–	X 85 CrMoV 18 2	Z 85 CDMV 18.02	X 85 CrMoV 19 3	–	–	–	1.4748	–
440 B	X 90 CrMoV 18	409 S 1 9	SUS 440 B	S44003	X 90 CrMoV 18	Z 3 CT 1 2	X 6 Cr Ti 1 2	–	–	–	1.4112	–
–	X45CrNiW18-9	331 S 40	SUH31	–	X 45 CrNiW 18 9	Z35CNWS14.14	X45CrNiW18-9	–	–	–	1.4873	–

NOTE: For legend, see page Y237.

M1 Workpiece Materials Listing • Stainless Steel • M1

M1 Austenitic Stainless Steel *Tensile Strength RM (MPa)*: <600* *Hardness (HB): 130–200*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
CF-8	X 6 CrNi 18 9	304 C 15	SCS 13	–	X 2 CrNiN 18 7	Z 6 CN 18.10 M	G X 5 CrNi 19-10	2333	–	CF8	1.4308	CF-8
–	X 2 NiCr 18 16	–	–	–	–	Z 3 CDT 18-02	–	–	–	–	1.4321	–
–	X 1 CrNi 25 21	–	–	–	X 1 CrNi 25 21	X1CrNi25-21	X 1 CrNi 25-21	–	–	–	1.4335	Uranus 65
610	X1CrNiSi 18-15-4	–	–	S30600	X 1 CrNiSi 18-15-4	Z1 CNS 17.5	X 1 CrNiSi 18-15-4	–	–	A240-97A	1.4361	ATI 610™
CF-8M	X 6 CrNiMo 18 10	316 C 16	SCS 14	J92900	GX 5 CrNiMo 19-11-2	GX5CrNiMo 19-11-2	G X 5 CrNiMo 19-11-2	2343	–	–	1.4408	–
–	GX 2 CrNiMo 19 11 2	–	–	–	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	–	–	–	1.4409	–
–	ERO 4412 AHMo	–	–	J92900	GX 5 CrNiMo19-11-3	GX 5 CrNiMo 19-11-3	–	–	–	A743CF8M	1.4412	–
–	ERO 4416 AHCRMo	–	–	–	GX 2 NiCrMoN 25-20-5	GX2NiCrMoN 25-20-5	–	–	–	–	1.4416	–
–	GX 6 CrNiMo 18 12	317 C 12	–	–	–	–	–	–	–	–	1.4437	–
–	X 2 CrNiMo 18 16 5	–	–	S31780	–	–	–	–	–	–	1.4440	–
–	GX 2 CrNiMoN 17 1 3 4	–	–	–	GX 2 CrNiMoN 17 1 3 4	–	–	–	–	–	1.4446	–
–	GX 6 CrNiMo 17 13	317 C 16	–	J93000	–	–	–	–	–	CG8M	1.4448	–
–	GX 2 NiCrMo 28 20 2	–	–	–	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	–	–	–	1.4458	–
–	GX 4 NiCrCuMo 30 20 4	–	–	–	GX 4 NiCrCuMo 30-20-4	GX 4 NiCrCuMo 30-20-4	–	–	–	–	1.4527	–
–	GX 5 CrNiNb 18 9	347 C 17	SCS 21	J92710	GX 5 CrNiNb 19-11	Z 4 CNNb 19.10 M	G-X 5 CrNiNb 19-11	–	–	–	1.4552	–
–	GX 2 CrNiMoCuN 20 18 6	–	–	–	GX 2 CrNiMoCuN 20-18-6	GX 2 CrNiMoCuN 20-18-6	–	–	–	–	1.4557	–
–	X 3 CrNiCuMo 17 11 3 2	–	–	–	X 3 CrNiCuMo17 11 3 2	X3CrNiCuMo 17-11-3-2	X 3 CrNiCuMo 17-11-3-2	–	–	–	1.4578	–
–	GX 5 CrNiMoNb 18 10	318 C 17	SCS 22	–	GX 5 CrNiMoNb 19-11-2	Z 4 CNDNb 18.12 M	GX 6 CRNOMONB 20 11	–	–	–	1.4581	–
–	GX 2 NiCrMoCu 25 2 0 5	–	–	–	GX 2 NiCrMoCu 25-20-5	GX 2 NiCrMoCu 25-20-5	–	–	–	–	1.4584	–
–	GX 7 CrNiMoCuNb 18 18	–	–	J94651	–	–	–	–	–	–	1.4585	–
–	GX 2 NiCrMoCuN 29 25 5	–	–	–	GX 2 NiCrMoCuN 29-25-5	GX 2 NiCrMoCuN 29-25-5	–	–	–	–	1.4587	–
–	GX 2 NiCrMoCuN 25 20 6	–	–	–	GX 2 NiCrMoCuN 25-20-6	GX 2 NiCrMoCuN 25-20-6	–	–	–	–	1.4588	–
–	GX 25 CrNiSi 18 9	302 C 35	–	J92602	–	–	G X 16 CrNi 20 10	–	–	CF20	1.4825	–
–	GX 40 CrNiSi 22 9	–	SCH 12	J92603	–	–	–	–	–	–	1.4826	–
–	GX 50 CrNiNb 25 22	–	–	–	–	–	–	–	–	–	1.4836	–
–	GX 40 CrNiSi 25 12	309 C 30	SCS 17	J93503	–	–	GX 35 CrNi 25 12	–	–	CE30	1.4837	–
334	X 8 CrNiAlTi 20 20	–	–	S33400	–	–	–	–	–	–	1.4847	ATI 334™
–	GX 40 NiCrSiNb 38 18	–	–	N08004	–	–	–	–	–	–	1.4849	–
–	GX 40 NiCrSiNb 35 25	–	–	–	–	–	–	–	–	–	1.4852	–
–	GX 40 NiCrSi 35 25	–	–	J95705	–	–	GX 50 NiCr 35 25	–	–	–	1.4857	–
105 MA	BGH 4892	–	–	–	–	–	–	–	–	–	1.4892	–
–	X 3 CrNi 18 11	–	–	–	–	–	X 2 CrNiN 18 11	–	–	–	1.4949	–
–	X 2 CrNiMo 19 12	316 S 93	–	S31683	x 2 CrNiMo 19 13 03 KE	Z 2 CND 19-12-03	–	–	–	–	1.4430	–
–	GX 7 NiCrMoCuNb 25 20	–	SCS 23	J95150	10.204.3.1B	Z 3 NCDU 25.20 M	GX 5 NiCrCuMo 29 21	–	–	–	1.4500	–
–	X 3 CrNiCu 19 9 2	–	–	–	S 124 M	PHYHQ 4560	304 RH1	–	–	–	1.4560	ACX276
–	–	–	–	S63198	–	–	–	–	19-9 DL	–	–	19-9 DL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	–
332	–	–	–	N08800	–	–	–	–	–	–	–	ATI 332™
–	–	–	–	N08367	–	–	–	–	–	–	–	AL-6XN®
611	–	–	–	S30601	–	–	–	–	–	A240-97A	–	ATI 611™

M2 Workpiece Materials Listing • Stainless Steel • M2

M2 High-Strength Austenitic Stainless and Cast Stainless Steels *Tensile Strength RM (MPa)*: 600–800*
Hardness (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
304 H	X 5 CrNi 18 10	304 S 15	SUS 304	S30409	X 6 CrNi 18 10 KD	Z 6 CN 18.09	X 5 CrNi 18 10	2332	–	–	1.4301	–
–	X 5 CrNi 19 9	308 S 96	–	S30888	X 6CrNi 20 10 KE	–	–	–	–	–	1.4302	–
305	X 4 CrNi 18 12	305 S 19	SUS 305	S30500	X 4 CrNi18 12 KD	Z 5 CN 18.12	X 4 CrNi 19 10	–	–	–	1.4303	–
303	X 10 CrNiS 18 9	303 S 21	SUS 303	S30300	X 10 CrNiS 18 9	Z 10 CNF 18.09	X 10 CrNiS 18 09	2346	–	–	1.4305	ATI 303™
304 L	X 2 CrNi 19 11	304 C 12	SUS 304L	S30403	X 3 CrNi18 10 KD	Z 2 CN 18.09	GX 2 CrNi 19 10	2352	–	CF3	1.4306	ATI 304L™
304 L	X 2 CrNi 18 9	304 S 11	SUS 304L	–	X 2 CrNi 18 9	CLC18.9.L	X 2 CrNi 18-9	–	–	–	1.4307	–
–	GX 2 CrNi 19 11	304 C 12	–	J92500	GX2CrNi19-11	GX2CrNi19-11	GX2CrNi19-11	2352	–	CF3	1.4309	–
304 LN	X 2 CrNiN 18 10	304 S 62	SUS 304 LN	S30453	X 2 CrNiN 18 10	Z 8 CN 18.12	X 8 CrNi 19 10	2371	–	–	1.4311	–
305	GX 10 CrNi 18 8	302 C 25	SCS 12	–	–	Z 10 CN 18.9 M	–	–	–	–	1.4312	ATI 305™
308 L	X 2 CrNi 19 9	308 S 92	SUS Y 308L	S30883	X 2 CrNi 20 10 KE	Z 2 CN 20.10	–	–	–	–	1.4316	–
–	X 2 CrNiN 18 7	–	–	–	X 2 CrNiN 18-7	18-7L	18-7L	–	–	–	1.4318	–
302	X 10 CrNi 18 9	302 S 26	SUS 302	S20200	302S31	Z10CN18-09	X 10 CrNi 18 09	2330	–	–	1.4319	ATI 302™
301	X 10 CrNi 18 9	302 S 26	–	J92501	X 10 CrNi 18 9	–	–	–	–	–	1.4324	–
–	X 10 CrNi 30 9	312 S 94	–	–	X 12 CrNi 30 09 KE	Z 10 CN 31-10	–	–	–	–	1.4337	–
–	X 3 CrNi 13 4	–	–	S41086	X 3 CrNi 14 04 KE	–	–	–	–	–	1.4351	410NiMo
202	X 3CrMnNiN 18 8 7	–	–	–	284S16	Z8CMN18-08-05	–	–	–	–	1.4371	–
201	X 12 CrMnNiN 17 7 5	284 S 16	SUS 201	–	X 12 CrMnNiN 17-7-5	X 12 CrMnNiN17-7-5	X 12 CrMnNiN 17-7-5	–	–	–	1.4372	ACX060
316	X 5 CrNiMo 17 12 2	316 S 16	SUS 316	S31600	X6 CrNiMo 17 12 2 KD	Z 6 CND 17.11	X 5 CrNiMo 17 12	2347	–	–	1.4401	ATI 316™
316L	X 2 CrNiMo 17 13 2	316 S 12	SUS 316 L	S31603	GX 3 CrNiMo 17 12 2 KD	Z 3 CND 19.10 M	GX 2 CrNiMo 19 11	2348	–	–	1.4404	ATI 316L™
316 LN	X 2 CrNiMoN 17 12 2	316 S 61	SUS 316 LN	S31653	X 3 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12	2353	–	–	1.4406	ATI 316LN™
–	X 5 CrNiMo 13 4	–	–	J91550	–	Z 6 CND 16.05.01	–	–	–	–	1.4407	–
–	X12CrNiMoS18-11	–	–	–	–	Z3CNDF17-13	–	–	–	–	1.4427	Chronifer® Special KL
316L	X 2 CrNiMo 17 12 3	316 S 13	SUS 316L	–	X 2 CrNiMo 17 12 2	Z 3 CND 17-13-30	X 2 CrNiMo 17-12-3	2348/2353/2354	–	–	1.4432	–
–	X 2 CrNiMoN 18 12 4	–	–	–	317 LN	CLC18.12.4.LN	X2CrNiMoN1812-4	–	–	–	1.4434	–
316 L	X 2 CrNiMo 18 14 3	316 S 11	SCS 16	S31603	X 2 CrNiMo 18 16	Z 2 CND 17.13	X 2 CrNiMo 17 13	2353	–	–	1.4435	–
316	X 5 CrNiMo 17 1 3 3	316 S 16	SUS 316	S31600	X6 CrNiMo 18 13 3 KD	Z 6 CND 17.12	X 5 CrNiMo 17 13	2343	–	–	1.4436	–
317 L	X 2 CrNiMo 18 16 4	317 S 12	SUS 317 L	S31703	X 3 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15	2367	–	–	1.4438	ATI 317L™
–	X 2 CrNiMoN 17 13 5	–	–	–	X 3 CrNiMo 17 13 5	Z 3 CND 18.14-05 AZ	–	–	–	–	1.4439	–
–	X 2 CrNiMo 18 15 4	–	–	S31675	–	X 3 CrNiMoN 19-14	–	–	–	–	1.4442	–
317	X 5 CrNiMo 17 13	317 S 16	SUS 317	S31700	–	–	X 5 CrNiMo 18 15	–	–	–	1.4449	AL 317L+E55
–	X 5 CrNiCuNb 16 4	–	–	–	–	Z7CNU16.04	–	–	–	–	1.4452	–
–	–	–	–	S21904	–	–	–	–	–	A666	1.4454	ATI 219
–	X 2 CrNiMnMoN 20 16	–	–	–	X 2 CrNiMnMoN 20 15 08 KE	–	–	–	–	–	1.4455	–
–	X 1 CrNiMoN 25 2 5 2	–	–	S31050	–	–	–	–	–	–	1.4465	2RE69

(continued)

M2 Workpiece Materials Listing • Stainless Steel • M2 *(continued)*

M2 High-Strength Austenitic Stainless and Cast Stainless Steels *Tensile Strength RM (MPa)*: 600–800*
Hardness (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 1 CrNiMoN 25 22 2	–	–	–	725 LN	DMV 25.22.2	X 1 CrNiMoN 25-22-2	–	–	–	1.4466	–
–	X 1 NiCrMoCuN 25 20 6	–	–	–	–	–	–	–	–	–	1.4529	Uranus B26 6Mo
–	GX 2 NiCrMoCuN 25 20	–	–	J94650	GX 2 CrNiMoCuN 25-20-6	–	–	–	–	–	1.4536	–
–	X 1 CrNiMoCuN 25 25 5	–	–	–	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	–	–	–	1.4537	–
321	X 6 CrNiTi 18 10	321 S 12	SUS 321	S32100	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	2337	–	–	1.4541	ATI 321™
321	A 700	304 S 31	–	J92630	–	Z 10 CNT 18 11	X 6 CrNiTi 18 11	–	–	–	1.4544	–
–	X 1 CrNiMoCuN 20 18 7	X 1 CrNiMoCuN 20 18 7	–	S31254	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	–	–	–	1.4547	Uranus B25 6Mo
–	X 2 NiCrAlTi 32 20	–	NCF 800 TB	–	–	–	–	–	–	–	1.4558	–
–	X 1 NiCrMoCuN 31 27 4	–	–	–	X 1 NiCrMoCu 31 27 4	X 1 NiCrMoCuN 31 -27-4	X 1 NiCrMoCuN 31 -27-4	2584	–	–	1.4563	–
–	X 3 CrNiCu 18 9 4	394 S 17	SUS XM7	–	X3CrNiCu18-9-4	304CU	304K	–	–	–	1.4567	–
316 Ti	X 6 CrNiMoTi 17 12 2	320 S 31	SUS 316Ti	–	X 6 CrNiMoTi 17 12 2	Z 6 CNDT 17.12	X 6 CrNiMoTi 17 12	2350	–	–	1.4571	ATI 316Ti™
–	GX 5 CrNiMoNb 23 9	–	–	–	–	–	–	–	–	–	1.4572	–
316 Ti	X 10 CrNiMoTi 18 12	320 S 33	SUS 316Ti	S31635	–	–	X 6 CrNiMoTi 17 13	–	–	–	1.4573	–
318	X 10 CrNiMoNb 18 12	–	–	–	–	–	X 6 CrNiMoNb 17 13	–	–	–	1.4583	–
–	X 2 CrNiCu 19 10	–	–	–	X 2 CrNiCu 19-10	TX 304L	–	–	–	–	1.4650	–
–	X1CrNiMoCuN24-22-8	–	–	S32654	–	–	–	–	–	–	1.4652	654 SMO®
–	153 MA	–	–	S30415	X 6 CrNiSiNCe 19 10	–	–	–	–	–	1.4818	153 MA™
–	X 20 CrNiSi 25 4	–	–	S44635	X 15 CrNiSi 25 4	Z 20 CNS 25.04	X 20 CrNiSi 25 4	–	–	–	1.4821	–
309	X 15 CrNiSi 20 12	309 S 24	SUH 309	S30900	X 15 CrNiSi 20 12	Z 15 CNS 20.12	X 16 CrNiSi 25,20	–	–	–	1.4828	ATI 309™
309 S	X 7 CrNi 23 14	309 S 24	SUS 309 S	J93400	X 12 CrNi 23 13	Z 15 CN 24.13	X 6 CrNi 23 14	–	–	–	1.4833	–
–	353 MA	–	–	S35315	X 6 NiCrSiNCe 35-25	–	–	–	–	–	1.4854	353 MA®
–	X 8 NiCrSi 38 18	NA 17	–	N08330	–	Z 12 NCS 37.18	–	–	–	–	1.4862	–
–	X 33 CrNiMnN 23 8	–	–	–	X 33 CrNiMnN 23-8	X 33 CrNiMnN 23-8	–	–	–	–	1.4866	–
EV 12	X 55 CrMnNiN 20 8	–	–	S63012	X 55 CrMnNiN 20-8	Z 55 CMN 20.08 Az	–	–	–	–	1.4875	–
321	X 12 CrNiTi 18 9	321 S 20	SUS 321	S32100	X 10 CrNiTi 18 10	Z 6 CNT 18.12	X 6 CrNiTi 18.11	2337	–	–	1.4878	ACX315
EV 11	X 70 CrMnNiN 21 6	–	–	S63011	–	–	X 70 CrMnNiN 21 6	–	–	–	1.4881	–
–	X 50 CrMnNiNbN 21 9	–	–	–	X 50 CrMnNiNbN 21-9	Z 50 CMNNb 21.09	–	–	–	–	1.4882	–
–	X 7 CrNiNb 18 10	–	SUS347H	S34709	X7CrNiNb18-10	X7CrNiNb18-10	–	–	–	–	1.4912	–
316 H	X 6 CrNiMo 17 13	316 S 51	–	S31609	X 6 CrNiMo 17 12 2	Z 6 CND 17-13 B	–	–	–	–	1.4919	–
321 H	X 8 CrNiTi 18 10	–	–	–	X 6 CrNiTiB 18-10	Z 6 CNT 18-10 B	X 6 CrNiTiB 11	–	–	–	1.4941	–
A660	X 4 NiCrTi 25 15	HR251	SUH 660	S66286	–	Z 6 NCTDV 25.15 B	–	–	–	–	1.4943	Discaloy
–	X 6 CrNiWNb 16 16	–	–	–	–	–	–	–	–	–	1.4945	–
–	X 6 CrNi 18 11	304 S 51	–	S30480	X 6 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 18 10 KW	2333	–	–	1.4948	–
–	X 6 CrNi 25 20	–	–	–	310 H	–	–	–	–	–	1.4951	–
–	X 8 CrNiNb 16 13	347 S 51	–	–	–	–	–	–	–	–	1.4961	–
–	Esshete12 50	–	–	S21500	X 10 CrNiMoMnNbVB 15-10-1	X 10 CrNiMoMnNbVB 15-10-1	–	–	–	A213	1.4982	Esshete 1250
–	X 8 CrNiMoBNb 16 16	–	–	–	X 7 CrNiMoBNb 16-16	–	–	–	–	–	1.4986	–
301	X 12 CrNi 17 7	301 S 21	SUS 301	S30100	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07	2331	–	–	1.4310	ATI 301™
–	GX 40 CrNi 27 4	–	–	J92615	–	–	GX 35 CrNi 28 05	–	–	–	1.4340	–
304	X 5 CrNi 18 9	304 S 31	SUS 304	S30400	1	Z6CN18.09	X5CrNi1810	2332/2333	–	A276	1.4350	ATI 304™
–	X 15 CrNiMn 18 8	307 S 98	–	–	X 15 CrNiMn 18 08 KE	Z 8 CNM 19-09-07	–	–	–	–	1.4370	–
S32750	GX 10 CrNiMo 18 9	–	SCS 14 A	S32750	X 2 CrNiMoN 25-7-4	Z 5 CND 20.10 M	X 2 CrNiMoN 25-7-4	–	–	–	1.4410	–
–	X 5 CrNiMo 18 11	315 S 16	–	–	–	–	–	2340	–	–	1.4420	–
347	X 6 CrNiNb 18 10	347 S 17	SUS 347	S34700	X 6 CrNiNb 18 10	Z 6 CNNb 18.10	X 6 CrNiNb 18 11	2338	–	–	1.4550	ATI 347™
316 Cb	X 6 CrNiMoNb 17 12 2	318 S 17	–	–	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12	–	–	–	1.4580	–
–	X 3 CrNiMoN 17 13	–	–	–	X 3 CrNiMoN 17-13-3	–	X 2 CrNiMoN 17 12	–	–	–	1.4910	–
–	X 6 CrNi 23 13	–	–	–	309 H	–	–	–	–	–	1.4950	–
A286	X 6 NiCrTiMoVB 25-15-2	286 S 31	–	S66286	X 6 NiCrTiMoVB 21-15-2	–	–	–	–	–	1.4980	Incoloy A 286
XM-19	–	–	–	S20910	–	–	–	–	–	F1314	–	ATI XM-19™
303 plus X	–	–	–	S30310	–	–	–	–	–	XM-5	–	303 plus X
–	X 2 CrNi 18 13 3	–	–	–	–	–	–	–	–	–	–	Staybrite® 4435NCu
218	–	–	–	S21800	–	–	–	–	–	–	–	Nitronic 60
201LN	–	–	–	S20153	–	–	–	–	–	–	–	ATI 201LN™-MIL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	AL 316LXN
–	–	–	–	S31675	–	–	–	–	–	F1586	–	ATI REX 734™
–	–	–	–	–	–	–	–	–	–	–	–	P558
–	X 1 NiCrMoCu 22 24 6	–	–	–	–	–	–	–	–	–	–	Uranus B66
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy 2®
–	–	–	–	–	–	–	–	–	–	–	–	ATI Staballoy® AG17®
–	–	–	–	–	–	–	–	–	–	–	–	P530
–	X 1 NiCrMoCu 31 27 4	–	–	N08028	–	–	–	–	–	–	–	Uranus B28
–	–	–	–	–	–	–	–	–	–	–	–	P750
–	–	–	–	–	–	–	–	–	–	–	–	P750-I
–	X 4 CrNiMoN 21 9 4	–	–	–	–	–	–	–	–	F1586	–	M30NW
–	–	–	–	–	–	–	–	–	–	–	–	P550
–	–	–	–	–	–	–	–	–	–	–	–	P580
–	–	–	–	–	–	–	–	–	–	–	–	P650
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy HP™

NOTE: For legend, see page Y237.

M3 ■ Workpiece Materials Listing • Stainless Steel • M3

M3 Duplex Stainless Steel *Tensile Strength RM (MPa)*: <800* *Hardness (HB): 135–275 (HRC): <30*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GX 120 CrMo 29 2	–	–	–	–	–	–	–	–	F30M	1.4138	PK324
–	X 2 CrMnNiN 21 5 1	–	–	S32101	–	–	–	–	–	–	1.4162	LDX2101
–	GX 6 CrNiN 26 7	–	–	–	GX 6 CrNiN 26-7	–	–	–	–	–	1.4347	–
S32304	X 2 CrNiN 23 4	–	–	S32304	SAF 2304	35 N	X 2 CrNiN 23-4	2327	–	A240	1.4362	ATI 2304™
S31500	X 2 CrNiMoSi 19 5	–	–	S39215	GX 2 CrNiMoN 25-7-3	GX 2 CrNiMoN 25-7-3	–	2376	–	–	1.4417	–
S31803	X 2 CrNiMoN 22 5 3	318 S 13	SUS 329J 3L	S31803, S32205	X 2 CrNiMoN 22 5 3	Z 3 CND 22.05 AZ	X 2 CrNiMoN 22-5-3	2377	F51	2205	1.4462	ATI 2205™
–	GX 6 CrNiMo 24 8 2	–	–	–	–	–	–	–	–	–	1.4463	–
–	GX 2 CrNiMoN 25 6 3	–	–	–	GX 2 CrNiMoN 25-6-3	GX 2 CrNiMoN 25-6-3	–	–	–	–	1.4468	–
–	GX 2 CrNiMoN 26 7 4	–	–	J93404	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	–	–	–	1.4469	–
–	X 2 CrNiMoCuWN 25 7 4	–	–	S32760	X 2 CrNiMoCuWN 25 7 4	X 2 CrNiMoCuWN 25-7-4	X 2 CrNiMoCuWN 25-7-4	–	–	F 55	1.4501	F55
2507	X 2 CrNiMoCuN 25 6 3	–	–	–	X 2 CrNiMoCuN 25-6-3	DMV25.7Cu	329SK	–	–	–	1.4507	Uranus 52N+
–	GX 2 CrNiMoCuWN 25 8 4	–	–	–	X 6 CrNiCu 18 10 4 KD	Z 4 CNUD 17-11-03 FF	–	–	–	–	1.4508	–
–	GX 2 CrNiMoCuN 25 6 3 3	–	–	–	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	–	–	–	1.4517	–
–	X 4 CrNiMoNb 25 7	–	SCS 22	–	–	–	–	–	–	–	1.4582	PK343
–	BGH 4593	–	–	–	GX 3 CrNiMoCuN 24 6 2 3	–	–	–	–	–	1.4593	Noridur®
329	X 4 CrNiMo 27 5 2	–	SUS 329 J1	S32900	X 3 CrNiMo 27 5 2	X 2 CrNiMo 25-7-3	X 3 CrNiMo 27-5-2	2324	–	A240	1.4460	10RE51
–	GX 2 CrNiMoN 22 5 3	–	–	–	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	–	–	–	1.4470	–
S32550	–	–	–	S32550	–	–	–	–	–	–	–	Ferralium® alloy 255
–	–	–	–	S32003	–	–	–	–	–	–	–	ATI 2003®
–	–	–	–	S80211	–	–	–	–	–	–	–	ATI 2102™
–	–	–	–	S32550	–	–	–	–	–	–	–	ATI 255™
–	–	–	–	S34565	–	–	–	–	–	–	–	ATI 4565™
–	X 2 CrNiMoN 25 6 3	–	–	–	–	–	–	–	–	–	–	Uranus 47N+
–	–	–	–	–	–	–	F60	–	–	32760	–	Zeron® 100

Cast Iron

K1 ■ Workpiece Materials Listing • Cast Iron • K1

K1 Gray Cast Iron *Tensile Strength RM (MPa)*: 125–500* *Hardness (HB): 120–290 (HRC): <32*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GG-150HB	–	–	–	GJL-HB 170	–	–	–	–	–	0.6012	–
A48-25 B	GG-15	Grade 150	FC 150	–	GJL-150	FGL 150	G 15	0115-00	–	A 48 Class 25	0.6015	–
–	GG-170HB	–	–	N06985	GJL-HB 205	–	–	–	–	–	0.6017	–
–	GG-190HB	–	–	N06022	GJL-HB 230	–	–	–	–	–	0.6022	–
A48-35 B	GG-25	Grade 260	FC 250	–	GJL-250	FGL 250	G 25	0125-00	–	A 48 Class 35	0.6025	–
–	GG-26	–	FC260	–	–	–	G 26	0126-00	–	–	0.6026	–
–	GG-220HB	–	–	W06027	GJL-HB 250	FGL 250	–	–	–	–	0.6027	–
–	GG-240HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6032	–
A48-50 B	GG-35	Grade 350	FC 350	–	GJL-350	FGL 350	G 35	0135-00	–	A 48 Class 50	0.6035	–
–	GG-260HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6037	–
A48-20 B	GG-10	Grade 100	FC 100	–	GJL-100	FGL 100	G 10	0110-00	–	A 48 Class 20	0.6010	–
A48-30 B	GG-20	Grade 220	FC 200	W06020	GJL-200	FGL 200	G 20	0120-00	–	A 48 Class 30	0.6020	–
A48-45 B	GG-30	Grade 300	FC 300	–	GJL-300	FGL 300	G 30	0130-00	–	A 48 Class 45	0.6030	–
A48-55 B	GG-40	Grade 400	–	–	GJL-400	FGL 400	–	0140-00	–	A 48 Class 55	0.6040	–
A48-40	–	–	–	–	–	–	–	–	–	A 48 Class 40	–	–
A48-60	–	–	–	–	–	–	–	–	–	A 48 Class 60	–	–
–	–	–	–	–	–	–	–	–	G1800	A 159 G1800	–	–
–	–	–	–	–	–	–	–	–	G3000	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G10H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G11H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G3500	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G11H20	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G4000	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G13H19	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G12H21	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G9H12	A 159 G1800	–	–
–	GG-26-Cr	–	–	–	–	–	–	–	–	–	–	–
–	GG-25-Cr	–	–	–	–	–	–	–	–	–	–	–

K2 Workpiece Materials Listing • Cast Iron • K2

K2 Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI) *Tensile Strength RM (MPa)*: <600*
Hardness (HB): 130–260 (HRC): <28

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GGL-NiMn137	L-NiMn 13 7	FCA NiMn 13 7	F43000	GJLA-XNiMn 13-7	L-NM 13 7	–	–	–	–	0.6652	–
A 436 Type 1	GGL- NiCuCr1562	L-NiCuCr 15 6 2	FCA-NiCuCr 15 6 2	F41000	GJLA-XNiCuCr 15-6-2	L-NUC 15 6 2	–	–	–	–	0.6655	–
A 436 Type 1b	GGL-NiCuCr1563	L-NiCuCr 15 6 3	FCA-NiCuCr 15 6 3	F41001	GJLA-XNiCuCr 15-6-3	L-NUC 15 6 3	–	–	–	–	0.6656	–
A 436 Type 2b	GGL-NiCr203	L-NiCr 20 3	FCA-NiCr 20 3	F41003	GJLA-XNiCr 20-3	L-NC 20 3	–	–	–	–	0.6661	–
–	GGL-NiSiCr2053	L-NiSiCr 20 5 3	FCA-NiSiCr 20 5 3	–	GJLA-XNiSiCr 20-5-3	L-NSC 20 5 3	–	–	–	–	0.6667	–
A 436 Type 3	GGL- NiCr303	L-NiCr 30 3	FCA-NiCr 30 3	F41004	GJLA-XNiCr 30-3	L-NC 30 3	–	–	–	–	0.6676	–
–	GGG-35.3	–	–	–	GJS-350-22	–	–	0717-15	–	–	0.7033	–
–	GGG-40.3	SNG 370/17	FCD 370	–	GJS-400-18	FGS 370-17	GSO 42/15	0717-15	–	–	0.7043	–
–	GGG-45	–	FCD 450	–	–	–	–	–	–	–	0.7045	–
–	–	–	–	–	–	FGS450.10	–	–	–	–	0.7049	–
–	GGG-65	–	–	–	–	–	–	–	–	–	0.7065	–
–	GGG-NiMn137	S-NiMn 13 7	FCDA-NiMn 13 7	–	GJSA-XNiMn 13-7	S-Mn 13 7	–	0772-00	–	–	0.7652	–
–	GGG-NiCrNb202	S2W	FCDA-NiCrNb 20 2	–	GJSA-XNiCrNb 20-2	–	–	–	–	–	0.7659	–
A 439 Type D-2B	GGG-NiCr203	S-NiCr 20 3	FCDA-NiCr 20 3	F43001	GJSA-XNiCr 20-3	–	–	–	–	–	0.7661	–
–	GGG-NiSiCr2052	S-NiSiCr 20 5 2	FCDA-NiSiCr 20 5 2	–	GJSA-XNiSiCr 20-5-2	S-NSC 20 5 2	–	–	–	–	0.7665	–
A 571 Type D-2M	GGG-NiMn234	S-NiMn 23 4	FCDA-NiMn 23 4	–	GJSA-XNiMn 23-4	S-NM 23 4	–	–	–	–	0.7673	–
A 439 Type D-3	GGG-NiCr303	S-NiCr 30 3	FCDA-NiCr 30 3	F43003	GJSA-XNiCr 30-3	S-NC 30 3	–	–	–	–	0.7676	–
A 439 Type D-3A	GGG-NiCr301	S-NiCr 30 1	FCDA-NiCr 30 1	F43004	GJSA-XNiCr 30-1	S-NC 30 1	–	–	–	–	0.7677	–
–	GGG-NiSiCr3055	–	FCDA-NiSiCr 30 5 5	–	GJSA-XNiSiCr 30-5-5	–	–	–	–	–	0.7679	–
A 439 Type D-5	GGG-Ni35	S-Ni 35	FCDA-Ni 35	F43006	GJSA-XNi 35	S-N 35	–	–	–	–	0.7683	–
A 439 Type D-5A	GGG-NiCr353	S-NiCr 35 3	FCDA-NiCr 35 3	F43007	GJSA-XNiCr 35-3	S-NC 35 3	–	–	–	–	0.7685	–
–	GGG-NiSiCr3552	–	FCDA-NiSiCr 35 5 2	–	GJSA-XNiSiCr 35-5-2	FGS Ni35 Si 5 Cr2	–	–	–	–	0.7688	–
–	GTW-35-04	W 35-04	FCMW 330 class 1	–	GJMW-35-0-4	MB 35-7	W 35-04	–	–	–	0.8035	–
–	GTW-S-38-1 2	W 38-12	–	–	GJMW-360-12	MB 300-12	–	–	–	–	0.8038	–
–	GTW-45-07	W 45-07	FCMWP 440 class 3	–	GJMW-450-7	MB 450-7	GMB 45	–	–	–	0.8045	–
–	GTW-55	–	–	–	–	–	GMB 55	–	–	–	0.8055	–
–	GTW-65	–	–	–	–	–	GMB 65	–	–	–	0.8065	–
32510	GTS-35-10	B 340/12	FCMP 330	–	GJMB-350-10	MN 350-10	–	815	–	–	0.8135	–
40010	GTS-45-06	P 440/7	FCMP 440	–	GJMB-450-6	MN 450 - 6	P 45-06	852	–	–	0.8145	–
50005	GTS-55-04	P 510/4	FCMP 490	–	GJMB-550-4	MN 550-4	P 55-04	854	–	–	0.8155	–
70003	GTS-65-02	P 570/3	FCMP 540	–	GJMB-650-2	MN 650-3	P 65-02	0858-00, 0856-00	–	–	0.8165	–
90001	GTS-70-02	P 690/2	FCMP 690	–	GJMB-700-2	MN 700-2	P 70-02	0862-03; 0864-03	–	–	0.8170	–
–	GGV-30	–	–	–	GJV-300	–	–	–	–	–	0.9991	–
A 436 Type 2	GGL-NiCr202	L-NiCr 20 2	FCA-NiCr 20 2	F41002	GJLA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.6660	–
A 436 Type 4	GGL- NiSiCr3055	L-NiSiCr 30 5 5	FCA-NiSiCr 30 5 5	F41005	GJLA-XNiSiCr 30-5-5	L-NSC 30 5 5	–	–	–	–	0.6680	–
60-40-18	GGG-40	SNG 420/12	FCD 400 class 1	F32800	GJS-400-15	FGS400-12	GS400-12	0717-02	60-40-18	60-40-18	0.7040	–
65-45-12	GGG-50	SNG 500/7	FCD 500	F33100	GJS-500-7	FGS 500-7	GS 500/7	0727-02	65-45-12	65-45-12	0.7050	–
–	GGG-60	SNG 600/3	FCD 600-3	–	GJS-600-3	–	GS 600/3	–	80-55-06	80-55-06	0.7060	–
100-70-03	GGG-70	SNG 700/2	FCD 700	F34800	GJS-700-2	FGS 700-2	GS 700-2	0737-01	100-70-03	100-70-03	0.7070	–
120-90-02	GGG-80	SNG 800/2	FCD 800	F36200	GJS-800-2	FGS 800-2	GS 800-2	–	120-90-02	120-90-02	0.7080	–
A 439 Type D-2	GGG-NiCr202	L-NiCuCr 20 2	FCDA-NiCr 20 2	–	GJSA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.7660	–
A 439 Type D-2C	GGG-Ni22	S-Ni 22	FCDA-Ni 22	F43002	GJSA-XNi 22	S-N 22	–	–	–	–	0.7670	–
A 439 Type D-4	GGG-NiSiCr3053	S-NiSiCr 30 5 5	FCDA-NiSiCr 30 5 4	F43005	GJSA-XNiSiCr 30-5-3	S-NSC 30 5 5	–	–	–	–	0.7680	–
–	GTW-40-05	W 40-05	FCMW 370	–	GJMW-400-5	MB 400-5	GMB 40	–	–	–	0.8040	–
–	GGV-40	–	–	–	GJV-400	–	–	–	–	–	0.9990	–
80-55-06	–	–	–	F33800	–	FGS 350-22	–	0732-03	D5506	–	–	–
–	–	–	–	–	–	–	–	–	D4018	–	–	–
–	–	–	–	–	–	–	–	–	D400	–	–	–
–	–	–	–	–	–	–	–	–	D4512	–	–	–
–	–	–	–	–	–	–	–	–	D450	–	–	–
–	–	–	–	–	–	–	–	–	M3210	–	–	–
–	–	–	–	–	–	–	–	–	M4504	–	–	–
–	–	–	–	–	–	–	–	–	M5003	–	–	–
–	–	–	–	–	–	–	–	–	M5503	–	–	–
–	–	–	–	–	–	–	–	–	M7002	–	–	–
–	–	–	–	–	–	–	–	–	D7003	–	–	–
–	–	–	–	–	–	–	–	–	M8501	A 602 M8501	–	–
–	GGV-45	–	–	–	GJV-450	–	–	–	–	–	–	–
–	GGG-SiMo3.08	–	–	–	–	–	–	–	–	–	–	–
–	GGG-SiMo4.10	–	–	–	–	–	–	–	–	–	–	–
–	GGG-SiMo5.10	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	HPI C13 06
–	GGV-35	–	–	–	GJV-350	–	–	–	–	–	–	–
–	GGV-50	–	–	–	GJV-500	–	–	–	–	–	–	–

K3 Workpiece Materials Listing • Cast Iron • K3

K3 High-Strength Ductile Irons and Austempered Ductile Iron (ADI) *Tensile Strength RM (MPa)*: >600* *Hardness (HB): 180–350 (HRC): <43*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	–	–	–	–	–	–	–	–	–	A 897 125-80-10	–	–
–	–	–	–	–	–	–	–	–	–	A 897 150-100-7	–	–
–	–	–	–	–	–	–	–	–	–	A 897 175-125-4	–	–
–	–	–	–	–	–	–	–	–	–	A 897 200-150-1	–	–
–	–	–	–	–	–	–	–	–	–	A 897 230-185	–	–

NOTE: For legend, see page Y237.

N1 Workpiece Materials Listing • Non-Ferrous Metals • N1

N1 Wrought Aluminum

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1080	Al99.8	–	1A	–	–	–	–	–	–	–	3.0128	–
1050	Al99.5	L 31	1B	–	–	A 59050 C	–	–	–	–	3.0255	–
–	SG-Al 99,5	–	–	–	–	–	–	–	–	–	3.0259	–
1070	Al99.7	–	–	–	–	–	4508	–	–	–	3.0275	–
3103	AlMn	–	N3	–	–	–	–	–	–	–	3.0515	–
3003	AlMnCu	–	–	–	–	–	–	–	–	–	3.0517	–
3005	AlMn1Mg0.5	–	–	–	–	–	–	–	–	–	3.0525	–
3004	AlMn1Mg1	–	–	–	–	–	–	–	–	–	3.0526	–
–	AlMgSiPb	–	–	–	–	–	–	–	–	–	3.0615	–
–	SG-Al 99,5Ti	–	–	–	–	–	–	–	–	–	3.0805	–
–	SG-Al 99,5 Ti	–	–	–	–	–	–	–	–	–	3.0805	–
2014	AlCuSiMn	–	H15	–	–	A-U4SG	3581	–	–	–	3.1255	–
2017	AlCuMg 1	–	–	–	AW-2017 A	A-U4G	3579	–	–	–	3.1325	–
2024	AlCuMg 2	–	L97	–	AW-2024	A-U4G1	–	–	–	–	3.1355	–
–	AlCuMgPb	–	–	–	–	–	–	–	–	–	3.1645	–
2011	AlCuBiPb	–	FC1	–	–	A-U5PbBi	6362	–	–	–	3.1655	–
6082	AlMgSi 1	–	H30	–	AW-6005 A	A-SGM0.7	3571	–	–	–	3.2315	–
6060	AlMgSi0.5	–	–	–	–	–	–	–	–	–	3.3206	–
6063	AlMgSi0.7	–	H9	–	–	A-GS	3569	–	–	–	3.3206	–
6463	EAlMgSi0.5	–	91E	–	–	–	–	–	–	–	3.3207	–
5005	AlMg 1	–	N41	–	AW-6082	A-G0.6	5764-66	–	–	–	3.3315	–
5050	–	–	–	–	–	–	–	–	–	–	3.3316	–
5052	AlMg2.5	–	2L56	–	–	A-G2.5C	4574	–	–	–	3.3523	–
5754	AlMg 3	–	N5	–	–	A-G3M	3575	–	–	–	3.3535	–
5454	AlMg2.5Mn	–	N51	–	–	A-G2.5MC	7789	–	–	–	3.3537	–
5086	AlMg4Mn	–	–	–	–	–	–	–	–	–	3.3545	–
–	SG-Al Mg 4,5 Mn Zr	–	–	–	–	–	–	–	–	–	3.3546	–
5083	AlMg4,5Mn	–	N8	–	–	A-G4.5MC	7790	–	–	–	3.3547	–
5056	AlMg5	–	N6	–	–	A-G5	3576	–	–	–	3.3549	–
–	AlMg 5	–	–	–	–	–	–	–	–	–	3.3555	–
7050	AlZnMgCu0,5	L 86	–	–	–	AZ 4 GU/9051	811-04	–	–	–	3.4144	–
7020	AlZn4.5Mg1	–	H17	–	–	A-Z5G	–	–	–	–	3.4335	–
7022	AlZnMgCu0.5	–	–	–	–	–	–	–	–	–	3.4345	–
–	AlZn5,5MgCu	–	–	–	–	–	–	–	–	–	3.4365	–
7075	AlZnMgCu 1.5	–	DTD5074	A97075	AL-P7075	A-Z5GU	3735	–	7075	–	3.4365	–
1000	Al99.5H	L31	–	–	–	A59050C	–	–	–	–	3.0250	–
–	Al99.8	–	–	–	–	–	–	–	–	–	3.0280	–
–	AlMg3Mn	–	–	–	–	–	–	–	–	–	–	–
2025	–	–	A 2025 FD	A92025	–	–	–	–	2025	B 247 2025	–	–
1100	–	–	–	–	–	–	–	–	–	–	–	–
3105	–	–	–	–	–	–	–	–	–	–	–	–
5657	AlMg0.8Si	–	–	–	–	–	–	–	–	–	–	–
6070	–	–	–	–	–	–	–	–	–	–	–	–
6262	–	–	–	–	–	–	–	–	–	–	–	–
7003	–	–	–	–	–	–	–	–	–	–	–	–
2050	–	–	–	–	–	–	–	–	–	–	–	–
7475	–	–	–	–	–	–	–	–	–	–	–	–
7175	–	–	–	–	–	–	–	–	–	–	–	–
7178	–	–	–	–	–	–	–	–	–	–	–	–
5251	AlMg2Mo3	–	N4	–	–	A-G2M	3574	–	–	–	–	–
6151	–	–	–	–	–	–	–	–	–	–	–	–
7001	–	–	–	–	–	–	–	–	–	–	–	–
7040	–	–	–	–	–	–	–	–	–	–	–	–

N2 Workpiece Materials Listing • Non-Ferrous Metals • N2

N2 Low-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si <12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	SG-Al99,8	–	–	–	–	–	–	–	–	–	3.0286	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 5 Ni 1,5	–	–	–	–	–	–	–	–	–	3.1754	–
–	G-AlCu 4 Ti	–	–	–	–	–	–	–	–	–	3.1841	–
–	G-AlSi 5 Cu 1	–	–	–	–	–	–	–	–	–	3.2131	–
–	G-AlSi 6 Cu 4	–	–	–	–	–	–	–	–	–	3.2151	–
–	G-AlSi 8 Cu 3	–	–	–	–	–	–	–	–	–	3.2161	–
–	G-AlSi 9 Cu 3	–	–	–	–	–	–	–	–	–	3.2163	–
–	G-AlSi 1 1	–	–	–	–	–	–	–	–	–	3.2211	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	G-AlSi 5 Mg	–	–	–	–	–	–	–	–	–	3.2341	–
4218 B	G-AlSi 7 Mg	–	–	–	–	–	–	–	–	–	3.2371	–
–	G-AlSi 9 Mg	–	–	–	–	–	–	–	–	–	3.2373	–
–	G-AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2381	–
–	G-D AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2382	–
A 360.2	G-AlSi 10 Mg(Cu)	LM 9	–	–	–	–	–	4253	–	–	3.2383	–
A 413.0	G-D AlSi 12	–	–	–	–	–	–	4247	–	–	3.2582	–
–	SG-AlSi 12	–	–	–	–	–	–	–	–	–	3.2585	–
–	G-D AlSi 12(Cu)	–	–	–	–	–	–	–	–	–	3.2982	–
6061	AlMgSiCu	–	H20	–	–	A-GSUC	6170	–	–	–	3.3211	–
–	G-AlMg 3 Si	–	–	–	–	–	–	–	–	–	3.3241	–
–	G-AlMg 5 Si	–	–	–	–	–	–	–	–	–	3.3261	–
–	G-D AlMg 9	–	–	–	–	–	–	–	–	–	3.3292	–
–	G-AlMg5Si(Cu,Mn)	–	–	–	–	–	–	–	–	–	3.3458	–
–	SG-AlMg 3	–	–	–	–	–	–	–	–	–	3.3536	–

(continued)

N2 Workpiece Materials Listing • Non-Ferrous Metals • N2 *(continued)*

N2 Low-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si <12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	G-AlMg 3	–	–	–	–	–	–	–	–	–	3.3541	–
–	SG-AlMg 4,5 Mn	–	–	–	–	–	–	–	–	–	3.3548	–
–	SG-AlMg 5	–	–	–	–	–	–	–	–	–	3.3556	–
–	G-AlMg 5	–	–	–	–	–	–	–	–	–	3.3561	–
ZE 41	G-MgZn 4 SE 1 Zr 1	MAG 5	–	–	MCMgZn 4 RE 1 Zr	G-Z 4 TR	–	–	–	–	3.5101	–
–	G-MgZn 5 Th 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5102	–
EZ 33	MgSE 3 Zn 2 Zr 1	MAG 6	–	–	MCMgRE 3 Zn 2 Zr	G-TR 3 Z 2	–	–	–	–	3.5103	–
–	MgAl 9 Zn 1	–	–	–	–	–	–	–	–	–	3.5104	–
–	G-MgTh 3 Zn 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5105	–
QE 22	G-MgAg 3 SE 2 Zr 1	MAG 12	–	–	MCMgRE 2 Ag 2 Zr	G-Ag 22,5	–	–	–	–	3.5106	–
–	G-D MgAl 6 Zn 1	–	–	–	–	–	–	–	–	–	3.5612	–
–	G-D MgAl 6	–	–	–	–	–	–	–	–	–	3.5662	–
AZ 81	G-MgAl 8 Zn 1	MAG 1	–	–	MCMgAl 8 Zn 1	G-A 9	–	–	–	–	3.5812	–
AZ 91	G-MgAl 9 Zn 1	MAG 7	–	–	MCMgAl 9 Zn 1	G-A 9 Z 1	–	–	–	–	3.5912	–
–	G-MgAl 8 Zn 1	–	–	–	–	–	–	–	–	–	3.5200	–
AS 41	G-D MgAl 4 Si 1	–	–	–	MCMgAl4Si	G-A4S 1	–	–	–	–	3.5470	–
–	G-AlZn10Si8Mg	–	–	–	–	–	–	–	–	–	–	–
AS 7 G	AlSi7Mg	–	–	–	–	–	–	–	–	–	–	–
2117	–	–	–	–	–	–	–	–	–	–	–	–
2218	AlCuMgNi2	–	–	–	–	–	–	–	–	–	–	–
2091	–	–	–	–	–	–	–	–	–	–	–	–
8090	–	–	–	–	–	–	–	–	–	–	–	–
2090	–	–	–	–	–	–	–	–	–	–	–	–
2224	–	–	–	–	–	–	–	–	–	–	–	–
2094	–	–	–	–	–	–	–	–	–	–	–	–
2095	–	–	–	–	–	–	–	–	–	–	–	–
2097	–	–	–	–	–	–	–	–	–	–	–	–
2098	–	–	–	–	–	–	–	–	–	–	–	–
2099	–	–	–	–	–	–	–	–	–	–	–	–
2195	–	–	–	–	–	–	–	–	–	–	–	–
2196	–	–	–	–	–	–	–	–	–	–	–	–
2197	–	–	–	–	–	–	–	–	–	–	–	–
2198	–	–	–	–	–	–	–	–	–	–	–	–
2297	–	–	–	–	–	–	–	–	–	–	–	–
2397	–	–	–	–	–	–	–	–	–	–	–	–
8017	–	–	–	–	–	–	–	–	–	–	–	–
8024	–	–	–	–	–	–	–	–	–	–	–	–
8091	–	–	–	–	–	–	–	–	–	–	–	–
8093	–	–	–	–	–	–	–	–	–	–	–	–
2199	–	–	–	–	–	–	–	–	–	–	–	–

N3 Workpiece Materials Listing • Non-Ferrous Metals • N3

N3 High-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si >12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 413.1	G-AlSi 12(Cu)	LM 20	–	–	–	–	–	4260	–	–	3.2583	–
A 413.2	G-AlSi 12	LM 6	–	–	–	–	–	4261	–	–	3.2581	–
–	G-AlSi17Cu4Mg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi18CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi21CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi12CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi25CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	G-AlSi 21 CuNiMg	–	–	–	–	–	–	–	–	–	–	–
4032	–	–	–	–	–	–	–	–	–	–	–	–

N4 Workpiece Materials Listing • Non-Ferrous Metals • N4

N4 Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
C 11000	E-Cu 58	C 101	–	–	–	Cn-a2	–	–	–	–	2.0065	–
C 81100	G-CuL 45	HCC 1	–	–	–	–	–	–	–	–	2.0082	–
C 81100	G-Cu L 50	HCC 1	–	–	–	–	–	–	–	–	2.0085	–
–	CuZn 40 MnPb	–	–	–	–	–	–	–	–	–	2.0241	–
C 26000	CuZn 30	CZ 102	C 2600	–	–	CuZn 30	–	–	–	–	2.0265	–
C 27200	CuZn 37	CZ 108	–	–	–	CuZn 37	C 2720	–	–	–	2.0321	–
–	CuZn 36 Pb 1.5	–	–	–	–	–	–	–	–	–	2.0331	–
–	S-CuZn40	–	–	–	–	–	–	–	–	–	2.0366	–
–	CuZn 39 Pb 3 + D567	–	–	–	–	–	–	–	–	–	2.0401	–
–	CuZn 40 Pb 2	–	–	–	–	–	–	–	–	–	2.0402	–
B-198	G-CuZn 15Si 4	–	–	–	–	–	–	–	–	–	2.0492	–
–	CuZn 40Al 1	–	–	–	–	–	–	–	–	–	2.0561	–
–	G-KCuZn 38 Al	–	–	–	–	–	–	–	–	–	2.0591	–
C 86500	G-CuZn 35 Al 1	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0592	–
–	G-KCuZn 37 Al 1	–	–	–	–	–	–	–	–	–	2.0595	–
C 86200	G-CuZn 34 Al 2	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0596	–
–	G-CuZn 25 Al 5	–	–	–	–	–	–	–	–	–	2.0598	–
–	S - CuNi 30 Fe	–	–	–	–	–	–	–	–	–	2.0837	–
–	CuNi 10 Fe 1 Mn	–	–	–	–	–	–	–	–	–	2.0872	–

NOTE: For legend, see page Y237.

(continued)

N4 Workpiece Materials Listing • Non-Ferrous Metals • N4 *(continued)*

N4 Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S - CuNi 10 Fe	–	–	–	–	–	–	–	–	–	2.0873	–
–	CuNi 30 Mn 1 Fe	–	–	–	–	–	–	–	–	–	2.0882	–
–	SG-Cu Al 8	–	–	–	–	–	–	–	–	–	2.0921	–
–	SG-CuAl 8 Ni 2	–	–	–	–	–	–	–	–	–	2.0922	–
–	SG-CuAl 9 Ni5 Fe	–	–	–	–	–	–	–	–	–	2.0927	–
–	CuAl 10 Fe 3 Mn 2	CA 103	–	–	–	U-A 10 Fe	–	–	–	–	2.0936	–
–	SG-Cu Al 10 Fe	–	–	–	–	–	–	–	–	–	2.0937	–
C 63000	CuAl 10 Ni 5 Fe 4	Ca 104	–	–	–	U-A 10 N	–	–	–	–	2.0966	–
B-148-52	G-CuAl 10 Ni	–	–	–	–	–	–	–	–	–	2.0975	–
–	SG-Cu Sn	–	–	–	–	–	–	–	–	–	2.1006	–
–	SG-Cu Sn 6	–	–	–	–	–	–	–	–	–	2.1022	–
C 90800	G-CuSn 12	Pb 2	–	–	–	UE 12 P	–	–	–	–	2.1052	–
–	G-CuSn 12 Pb	–	–	–	–	–	–	–	–	–	2.1061	–
–	G-CuSn 10 Zn	–	–	–	–	–	–	–	–	–	2.1086	–
C 93200	G-CuSn 7 ZnPb	–	–	–	–	U-E 7 Z 5 Pb 4	–	–	–	–	2.1090	–
–	G-CuSn 6 ZnNi	LG 4	–	–	–	–	–	–	–	–	2.1093	–
C 83600	G-CuSn 5 ZnPb	LG 2	–	–	–	U-E 5 Pb 5 Z 5	–	–	–	–	2.1096	–
–	G-CuSn 2 ZnPb	–	–	–	–	–	–	–	–	–	2.1098	–
C 93700	G-CuPb 10 Sn	LB 2	–	–	–	U-E 10 Pb 10	–	–	–	–	2.1176	–
C 93800	G-CuPb 15 Sn	LB 1	–	–	–	U-Pb 15 E 8	–	–	–	–	2.1182	–
C 94100	G-CuPb 20 Sn	LB 5	–	–	–	U-Pb 20	–	–	–	–	2.1188	–
C 81500	G-CuCrF 35	CC1-FF	–	–	–	–	–	–	–	–	2.1292	–
C 18200	CuCrZr	CC 102	–	–	–	U-Cr 0,8 Zr	–	–	–	–	2.1293	–
–	SG-Cu Mn 13 Al 7	–	–	–	–	–	–	–	–	–	2.1367	–
–	SG-Cu Si 3	–	–	–	–	–	–	–	–	–	2.1461	–
CuSi 3 Mn	–	–	–	–	–	–	–	–	–	–	2.1525	–
–	OF-Cu	–	–	–	–	–	–	–	–	–	2.0040	–
B-120	E-Cu 57	–	–	–	–	–	–	–	–	–	2.0060	–
C 10300	SE-Cu	C 101	–	–	–	Cu-c1	–	–	–	–	2.0070	–
–	CuZn 5	–	–	–	–	–	–	–	–	–	2.0220	–
C 23000	CuZn 15	CZ 102	C 2300	–	–	CuZn 15	–	–	–	–	2.0240	–
–	G-CuZn 33 Pb	–	–	–	–	–	–	–	–	–	2.0290	–
–	CuZn 36 Pb 2	–	–	–	–	–	–	–	–	–	2.0330	–
–	G-CuZn 37 Pb	–	–	–	–	–	–	–	–	–	2.0340	–
–	CuZn 40	–	–	–	–	–	–	–	–	–	2.0360	–
–	CuZn 39 Pb 2	–	–	–	–	–	–	–	–	–	2.0380	–
–	CuZn 20 Al 2	–	–	–	–	–	–	–	–	–	2.0460	–
–	CuZn 37Al 1	–	–	–	–	–	–	–	–	–	2.0510	–
–	CuZn 40 Al 2	–	–	–	–	–	–	–	–	–	2.0550	–
–	G-CuZn 40 Fe	–	–	–	–	–	–	–	–	–	2.0590	–
–	G-CuAl 10 Fe	–	–	–	–	–	–	–	–	–	2.0940	–
C 90700	G-CuSn 10	CT 1	–	–	–	–	–	–	–	–	2.1050	–
C 91700	G-CuSn 12 Ni	–	–	–	–	–	–	–	–	–	2.1060	–
–	C35100	–	–	–	–	–	–	–	–	–	–	–
–	17665	–	–	C95500	–	–	–	–	–	–	–	–
–	MS60	–	–	–	–	–	–	–	–	–	–	–

N5 Workpiece Materials Listing • Non-Ferrous Metals • N5

N5 Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	LEXAN	–	–	–	–	–	–	–	–	–	–	–
–	HOSTALEN	–	–	–	–	–	–	–	–	–	–	–
–	Polystyrol	–	–	–	–	–	–	–	–	–	–	–
–	Makralon	–	–	–	–	–	–	–	–	–	–	–

N6 Workpiece Materials Listing • Non-Ferrous Metals • N6

N6 Carbon, Graphite Composites, CFRP

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GFK	–	–	–	–	–	–	–	–	–	–	–
–	CFK	–	–	–	–	–	–	–	–	–	–	–
Graphite	–	–	–	–	–	–	–	–	–	–	–	–
CFRP	–	–	–	–	–	–	–	–	–	–	–	–

S1 Workpiece Materials Listing • High-Temp Alloys • S1

S1 Iron-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 500–1200* *Hardness (HB): 160–260 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 10 Cr 25	–	–	–	–	–	–	–	–	–	1.3811	–
–	D 1 a	–	–	–	–	–	–	–	–	–	1.3915	–
–	D 3	BD 3	–	–	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.3916	–
–	RNi 12	–	–	–	–	–	–	–	–	–	1.3926	–
–	RNi 8	–	–	–	–	–	–	–	–	–	1.3927	–
–	GX 2 NiCoMoTi1 7 10	–	–	–	–	–	–	–	–	–	1.6351	Maraging
6501, 6512, 6520	X 2 NiCoMo 18 8 5	–	–	UNS K92890	S162	Z2NKD18.8	–	–	–	ASTM A646	1.6359	ATI VascoMax® C-250
–	X 2 NiCoMo 18-8-5	–	–	K92890	–	–	–	–	–	–	1.6359	Maraging
–	X 1 CrNiCoMo 13 8 5	–	–	–	–	–	–	–	–	–	–	Maraging
–	Ni 36	–	–	–	–	–	–	–	–	–	1.3910	Magnifer 36
–	Ni 46	–	–	–	–	–	–	–	–	–	1.3920	–
–	X 2 CrNiCoMo 12 8 5	–	–	–	–	–	–	–	–	–	1.6980	Maraging
ASTM B463	–	–	–	UNS N08020	–	–	–	–	–	ASTM B463	2.4660	20CB-3
ASTM A666	–	–	–	–	–	–	–	–	–	ASTM A666	–	6/21/09
ASTM B753	–	–	–	–	–	–	–	–	–	ASTM B753	–	AL 4750
S66286	–	–	NAS 660	UNS S66286	–	–	A-286	–	–	–	–	ATI A286™
–	–	–	–	UNS K92810	–	–	–	–	–	–	–	ATI VascoMax® C-200
6514	–	–	–	UNS K93120	–	–	–	–	–	–	–	ATI VascoMax® C-300
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® C-350
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-200
6518, 6519, 6591	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-250
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-300
5725	–	–	–	–	–	Z3NCT25	–	–	SAE 16-25-6	–	–	Discaloy 16-25-6
ASTM A638	–	–	–	–	–	Z3NCT25	–	–	Discaloy	ASTM A638	–	Discaloy 24
–	–	–	–	R30556	–	–	–	–	–	–	–	Haynes® 556
5768	X 12 CrCoNi 21 20	–	–	–	–	Z12CKNDWNb21.20.20	–	–	–	–	–	Haynes 556
ASTM F30	–	–	–	–	–	–	–	–	Invar	ASTM F30	–	Invar 42
5768	–	–	–	UNS R30155	–	Z12CNKDW20	–	–	–	–	–	Multimet N-155
–	–	–	–	–	–	–	–	–	–	–	–	Multimet N-156
5533	X 40 CoCrNi 20 20	–	–	–	–	Z42CKNDW	–	–	–	–	–	S 590
–	X 2 NiCrAlTi 32 20	–	–	–	–	–	–	–	–	–	–	Sanicro 30
AISI:665	–	–	–	–	–	Z8NCTDA2613	–	–	–	–	–	W-545

S2 Workpiece Materials Listing • High-Temp Alloys • S2

S2 Cobalt-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 1000–1450* *Hardness (HB): 250–450 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	CoCr 26 Ni 9 Mo	–	–	–	–	–	–	–	–	–	2.4681	–
–	CoCr 25 NiW	–	–	–	–	KC25WN	–	–	–	ASTM A567	2.4682	Stellite® 31 (X40)
–	CoCr 22 NiW	–	–	–	–	–	–	–	–	–	2.4683	–
–	CoCr 28 Mo	–	–	–	–	KC27D5NFe	–	–	–	ASTM F-75	2.4691	HS 21
–	CoCr 20 Ni 15 Mo	–	–	–	–	–	–	–	–	–	2.4711	–
–	CoCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4723	–
–	CoCr 33 W	–	–	–	–	–	–	–	–	–	2.4775	–
–	CoCr 28	–	–	–	–	–	–	–	–	–	2.4778	–
–	CoCr 28 Nb	–	–	–	–	–	–	–	–	–	2.4779	–
–	–	–	–	–	–	–	–	–	–	ASTM F90	2.4964	F 90
–	–	–	–	R30605	–	KC20WN	–	–	–	–	2.4964	Haynes 25
–	CoCr 20 W 15 Ni	HR 240	–	R30605	–	KC20WN	–	–	–	5759	2.4964	L 605
–	CoCr 20 W 15 Ni	–	–	CAST Version of L605	–	KC20WN	–	–	–	5759	2.4964	Stellite 25
AMS 5399	NiCr 19 Co 11 MoTi	–	–	–	–	NC 19 KDT	–	–	–	–	2.4973	–
–	CoCr 20 Ni 20 W	–	–	–	–	–	–	–	–	5534	2.4979	S 816
–	CoCr20NiW	–	–	–	–	–	–	–	–	–	2.4989	–
–	–	–	–	R31537 & R31538	–	CoCr28Mo	–	–	–	ASTM F1537	–	F 1537
–	–	–	–	–	–	–	–	–	–	ASTM F562	–	F 562
–	–	–	–	–	–	–	–	–	–	ASTM F563	–	F 563
–	–	–	–	R30188	–	KC22N22W14Fe	–	–	–	–	–	Haynes 188
AISI 670	CoCr 20 W 15 Ni	–	–	–	–	KC20WN	–	–	–	–	–	HS 25
–	CoCr 26 Ni 14 Mo	–	–	–	–	–	–	–	–	5380	–	HS 30
–	CoCr 19 W 14 NiB	–	–	–	–	–	–	–	–	–	–	HS 36
–	–	–	–	–	–	–	–	–	–	–	–	L 251
–	CoCrW 10 TaZrB	–	–	–	–	KC21W10Ta9	–	–	–	–	–	MAR-M 302
–	CoCr 22 W 9 TaZrNb	–	–	–	–	KC21W9Ta	–	–	–	–	–	MAR-M 322
–	CoCr 24 Ni 10 WTaZrB	–	–	–	–	KC23N10W7Ta	–	–	–	–	–	MAR-M 509
–	–	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 905
–	CoCr 20 Ni 20 Ta	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 918
–	–	–	–	R30159	–	–	–	–	–	–	–	MP159
–	–	–	–	R30035	–	–	–	–	–	–	–	MP35N
–	–	–	–	–	–	KC33W13	–	–	–	–	–	Stellite 1
–	–	–	–	–	–	KC28W8	–	–	–	–	–	Stellite 12
–	–	–	–	–	–	KC22N22W14Fe	–	–	–	–	–	Stellite 188
–	–	–	–	–	–	KC26NW	–	–	–	–	–	Stellite 6
–	–	–	–	–	–	–	–	–	–	–	–	Stellite 8 (F75)
–	CoCr 25 Ni 20 MoWNb	–	–	–	–	KC25N20DFeWNb	–	–	–	–	–	V-36
–	CoCr 21 Mo 11 W	–	–	–	–	KC21W11ANbT	–	–	–	–	–	WI-52
–	–	–	–	–	–	KC25N10W7Fe	–	–	–	–	–	X 45
–	–	–	–	–	–	–	–	–	J-1570	–	–	–
–	K13C20N126Fe15D7	–	–	R3003 & R3008	–	K13C20N126Fe15D7	–	–	–	ASTM F1058	–	–

NOTE: For legend, see page Y237.

S3 Workpiece Materials Listing • High-Temp Alloys • S3

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 7 NiCrCoMo 54 20	–	–	–	–	–	–	–	–	–	1.2789	–
–	Ni 99,7 Mg 0,07	–	–	J24053	–	–	–	–	–	A 915 J24053	2.4053	–
–	LC-Ni 99,6	–	–	N02201	–	–	–	–	–	–	2.4061	–
–	–	–	–	N02200	–	–	–	–	–	–	2.4066	200
Nickel 200	Ni 99,2	NA 11	–	N02200	–	–	–	–	–	–	2.4066	–
–	–	–	–	N02201	–	–	–	–	–	–	2.4068	201
Nickel 201	LC-Ni 99	NA 12	–	–	–	–	–	–	–	–	2.4068	–
–	NiMn 1	–	–	–	–	–	–	–	–	–	2.4106	–
–	NiMn 1 C	–	–	–	–	–	–	–	–	–	2.4108	–
–	NiMn 1,5	–	–	–	–	–	–	–	–	–	2.4109	–
–	NiMn 3 Al	–	–	–	–	–	–	–	–	–	2.4122	–
–	NiMn 3 SiMg	–	–	–	–	–	–	–	–	–	2.4126	–
–	NiCr 2 Mn	–	–	–	–	–	–	–	–	–	2.4145	–
–	NiCr 2 MnSi	–	–	–	–	–	–	–	–	–	2.4146	–
–	NiCr 5 MnSi	–	–	–	–	–	–	–	–	–	2.4151	–
–	SG-NiTi 4	NA32	–	–	NA 32	–	–	–	–	–	2.4155	–
CZ-100	G-Ni 93 C	–	–	–	–	–	–	–	–	–	2.4175	–
–	NiCr 4 Mn	–	–	–	–	–	–	–	–	–	2.4199	–
M 35-1/2	G-NiCu 30 Nb	–	–	N24030	–	–	–	–	–	–	2.4365	–
–	EL-NiCu 30 Mn	–	–	N04402	–	–	–	–	–	–	2.4366	–
M 30-H	G-NiCu 30 Si 3	–	–	–	–	–	–	–	–	–	2.4367	–
M-255	G-NiCu 30 Si 4	–	–	–	–	–	–	–	–	–	2.4368	–
–	NiCu 30 Al	–	–	–	–	–	–	–	–	–	2.4374	–
–	NiCu 30 Al	NA 18	–	N05500	3072.76	NU 30 AT	–	–	–	–	2.4375	Monel® K500
–	SG-NiCu 30 MnTi	NA 33	–	–	–	–	–	–	–	–	2.4377	–
–	NiFe 16 CuCr	–	–	–	–	–	–	–	–	–	2.4501	–
–	G-NiMo 16 CrW	–	–	–	–	–	–	–	–	–	2.4537	–
–	NiCr 21 Mo 14 W	–	–	N26022	–	–	–	–	–	–	2.4602	INCONEL® alloy 622
–	NiCr 30 FeMo	–	–	–	–	–	–	–	–	–	2.4603	Hastelloy® G-30
–	–	–	–	N06059	–	–	–	–	–	ASTM B575	2.4605	Allcorr
–	NiCr 23 Mo 16 Al	–	–	–	–	–	–	–	–	–	2.4605	–
–	SG/UP-NiCr 23 Mo 16	–	–	–	–	–	–	–	–	–	2.4607	–
–	NiCr 26 MoW	–	–	–	–	–	–	–	–	–	2.4608	–
–	SG-NiMo 27	–	–	–	–	–	–	–	–	–	2.4615	–
–	NiMo 28	–	–	N10665	–	NiMo 28	–	–	–	–	2.4617	–
–	NiCr 22 Mo 6 Cu	–	–	–	–	–	–	–	–	–	2.4618	–
–	–	–	–	N06985	–	–	–	–	–	–	2.4619	Hastelloy G-3
–	NiCr 22 Mo 7 Cu	–	–	N06985	–	–	–	–	–	–	2.4619	–
–	SG-NiCr 23 Al	NA 49	–	–	–	–	–	–	–	–	2.4626	–
–	SG-NiCr 22 Co 12 Mo	NA 50	–	–	–	–	–	–	–	–	2.4627	–
–	NiCr 20 Ti	HR5	–	N06075	HR5, 203.4	NC 20 T	–	–	–	–	2.4630	Nimonic® 75
–	NiCr 20 TiAl	NA 20	NCF 80A	N07080	HR401, 601	NC 20 TA	–	–	–	–	2.4631	Nimonic 80A
–	NiCr 20 Co 18 Ti	NA 36	–	N07090	HR2, 202	NC20KTA	–	–	–	–	2.4632	Nimonic 90
–	NiCo 20 Cr 15 MoAlTi	–	–	N13021	HR3	NCKD20ATV	–	–	–	–	2.4634	Nimonic 105
–	NiCo 15 Cr 15 MoAlTi	HR4	–	–	HR401, 601	NCVK15ATD	–	–	–	–	2.4636	Nimonic 115
AISI 687	NiCo 15 Cr 15 MoAlTi	–	–	–	–	NCKD20AT	–	–	–	–	2.4636	Udimet® 700
–	NiCr 22 Mo 8 AlCuTi	–	–	–	–	–	–	–	–	–	2.4637	–
–	SG-NiCr 20	NA 34	–	–	–	–	–	–	–	–	2.4639	–
–	NiCr 21 Mo 6 Cu	–	NCF 600 TP	–	–	–	–	–	–	–	2.4641	–
–	NiCr 29 Fe	–	NCF 690	N06690	–	NC 30 Fe	–	–	–	–	2.4642	INCONEL® alloy 690
–	NiCr 25 FeAlYC	–	–	–	–	–	–	–	–	–	2.4647	–
–	NiCr 20 CoMoTi	NA 38	NCF 690	N07263	HR10	NCK 20 D	–	–	–	–	2.4650	Nimonic C263
–	EL-NiCr 26 Mo	–	–	–	–	–	–	–	–	–	2.4652	–
–	NiCr 19 Co 14 Mo 4 Ti	–	–	N07001	–	NC20K14Y	–	–	–	–	2.4654	Waspaloy
–	SG-NiCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4656	–
–	NiCr 70 30	–	–	N06008	–	–	–	–	–	–	2.4658	–
–	SG-NiCr 30 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4659	–
–	EL-NiCr 29 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4661	–
–	NiFe 35 Cr 14 MoTi	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	INCOLOY® 901
–	NiCr 13 Mo 6 Ti 3	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	Nimonic 901
–	NiCr 23 Co 12 Mo	–	–	N06617	–	NC22K12D9A	–	–	–	–	2.4663	INCONEL® alloy 617
–	NiCr 22 FeMo	–	–	N06002	HR6, 204	NC22FeD	–	–	–	–	2.4665	Hastelloy X
–	NiCr 22 Fe 18 Mo	NA 40	–	N06002	–	NC22FeD	–	–	–	–	2.4665	INCONEL alloy HX
–	NiCr 18 CoMo	–	–	–	–	NKCD20ATU	–	–	–	–	2.4666	Nimonic PK25
–	SG-NiCr 19 NbMoTi	NA 51	–	–	–	–	–	–	–	–	2.4667	–
–	NiCr 19 FeNbMo	–	–	N07718	HR8	NC 19 Fe Nb	–	–	–	–	2.4668	INCONEL alloy 718
–	NiCr 15 Fe 7 TiAl	–	–	N07750	–	NC 15 Fe 7 TA	–	–	–	–	2.4669	INCONEL alloy X750
–	G-NiCr 12 Al 6 MoNb	–	–	–	–	–	–	–	–	–	2.4671	–
–	G-NiCr 20 Co 20 MoTi	–	–	–	–	–	–	–	–	–	2.4672	–
–	NiCo 15 Cr 10 MoAlTi	–	–	N13100	–	NK15CAT	–	–	–	–	2.4674	IN 100
–	NiCo 15 Cr 10 MoAlTi	–	–	–	–	NK15C10A5T	–	–	–	–	2.4674	René 100
–	G-NiCo 15 Cr 10 AlTiMo	–	–	–	–	–	–	–	–	–	2.4674	–
–	G-NiCo 10 W 10 CrAlNb	–	–	–	–	–	–	–	–	–	2.4676	–
–	G-NiCr 50	–	–	–	–	–	–	–	–	–	2.4678	–
–	G-NiCr 35	–	–	–	–	–	–	–	–	–	2.4679	–
–	–	–	–	N10665	–	–	–	–	–	N7M	2.4685	Hastelloy B-2
CW-12 MW	G-NiMo 17 CrW	–	–	–	–	–	–	–	–	–	2.4686	–
–	NiCr 25 Mo 7 Ti	–	–	–	–	–	–	–	–	–	2.4693	–
–	NiCr 16 Fe 7 TiAl	–	–	N 07751	–	–	–	–	–	–	2.4694	INCONEL alloy 751
–	G-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4697	–
–	NiCr 22 W 14 Mo	–	–	–	–	–	–	–	–	–	2.4733	–
–	NiCr 20 AlY	–	–	–	–	–	–	–	–	–	2.4764	–
–	NiCr 17 AlWY	–	–	–	–	–	–	–	–	–	2.4765	–
–	SG-NiCr 20 Nb	NA 35	–	–	–	–	–	–	–	–	2.4806	–
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4813	–
–	NiCr 15 Fe	NA 14	NCF 600	N06600	3072.76	NC 15 Fe	–	–	–	–	2.4816	INCONEL alloy 600
–	G-NiMo 30	–	–	N10276	–	NC 15 D 14 KFe	–	–	–	–	2.4819	Hastelloy C-276
ASME SB575	NiMo 16 Cr 15 W	–	–	N10276	–	NC 17 D	–	–	–	–	2.4819	Nimonic C276

(continued)

S3 Workpiece Materials Listing • High-Temp Alloys • S3 *(continued)*

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	SG-NiCr 21 Mo 9 Nb	–	–	–	–	–	–	–	–	–	2.4831	–
–	NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4836	–
–	SG-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4839	–
–	–	–	–	N06601	–	–	–	–	–	–	2.4851	Haynes® 601
–	NiCr 23 Fe	–	NCF 601	N06601	–	NC 23 Fe 14 A	–	–	–	–	2.4851	INCONEL alloy 601
–	NiFe 33 Cr 25 Co	–	–	–	–	–	–	–	–	–	2.4854	–
–	NiCr 19 Mo 9 Si	–	–	–	–	–	–	–	–	–	2.4855	–
ASME SB443	NiCr 22 Mo 9 Nb	–	–	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	Haynes 625
ASME SB443.4	NiCr 22 Mo 9 Nb	NA 21	NCF 625	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	INCONEL alloy 625
ASME SB163	NiCr 21 Mo	–	–	N08825	3072.76	NC21FeDU	–	–	–	–	2.4858	INCOLOY® 825
–	NiCr 60 15	–	–	–	–	–	–	–	–	–	2.4867	–
–	NiCr 80 20	–	–	–	–	–	–	–	–	–	2.4869	–
–	NiCr 20 AlSi	–	–	–	–	–	–	–	–	–	2.4872	–
–	G-NiCr 28 W	–	–	–	–	–	–	–	–	–	2.4879	Centralloy® 4879
–	NiCr 17 Mo 17 FeW	–	–	N10002	–	NC17DWY	–	–	–	CW12MW	2.4883	Hastelloy C
–	G-NiMo 16 Cr	–	–	–	–	–	–	–	–	–	2.4883	–
–	SG-NiMo 16 cr 16 W	NA 48	–	–	–	–	–	–	–	–	2.4886	–
–	G-NiCr 13 MoAl	–	–	–	–	–	–	–	–	–	2.4888	–
–	NiCr 20 Ti	HR 5	–	N06621	–	NC 20 T	–	–	–	–	2.4951	–
–	NiCr 20 TiAl	NA 20	NCF 80 A	N07080	–	NC 20 TA	–	–	–	–	2.4952	–
–	NiFe 25 Cr 20 NbTi	–	–	–	NiFe 25 Cr 20 NbTi	–	–	–	–	–	2.4955	–
–	NiCr 20 Co 18 Ti	NA 19	–	N07090	–	–	–	–	–	–	2.4969	–
–	NiCr 22 W 12 Fe	–	–	–	–	–	–	–	–	–	2.4972	–
–	NiCr 19 Co 11 MoTi	–	–	N07041	–	NC19KDT	–	–	–	–	2.4973	René 41
–	NiFeCr 12 Mo	–	–	–	–	–	–	–	–	–	2.4975	–
–	NiCr 20 Mo	–	–	–	–	–	–	–	–	–	2.4976	–
–	NiCr 20 CoMo	–	–	–	–	–	–	–	–	–	2.4982	–
–	NiCr 18 Co	–	–	N07500	–	–	–	–	–	–	2.4983	Co500
AISI 684	NiCr 18 CoMoAlTi	–	–	N07500	–	NCK19DAT	–	–	–	–	2.4983	Udimet® 500
–	Ni 99,6	NA 46	–	–	–	–	–	–	–	–	2.4060	–
–	NiMn 2	–	–	–	–	–	–	–	–	–	2.4110	–
SZ-100	G-Ni 95	–	–	–	–	–	–	–	–	–	2.4170	–
–	G-Ni 93 Si	–	–	–	–	–	–	–	–	–	2.4180	–
–	NiCu 30 Fe	–	–	N04400	3072.76	NU30	–	–	–	–	2.4360	Monel® 400
–	NiCu 30 Ti	–	–	–	–	–	–	–	–	–	2.4370	Monel 60
–	NiFe 44	–	–	–	–	–	–	–	–	–	2.4420	Magnifer 53
–	NiFe 16 CuMo	–	–	–	–	–	–	–	–	–	2.4530	Perm 77
–	NiFeK 6040	–	–	–	–	–	–	–	–	–	2.4560	–
–	NiMo 16 Cr 16 Ti	NA 45	–	N26455	–	–	–	–	–	–	2.4610	Hastelloy C-4
–	–	–	–	–	–	20CB-3	–	–	–	ASTM B463	2.4660	INCOLOY 020
–	NiCr 20 CuMo	–	–	N08020	–	–	–	–	–	–	2.4660	–
–	G-NiCr 13 Al 16 MoNb	–	–	–	HC203	NC13AD	–	–	–	–	2.4670	Nimocast 713
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4680	–
–	NiMo 23 Cr 8 Fe	–	–	–	–	–	–	–	–	–	2.4710	–
–	NiMo 30	–	–	–	–	ND27FeV	–	–	–	N-12 MV	2.4810	Hastelloy B
–	NiCr 45 23	–	–	–	–	–	–	–	–	–	2.4890	–
–	–	–	–	N13017	–	NK17C15D5AT	–	–	–	–	–	Astroloy
–	–	–	–	–	–	–	–	–	–	–	–	Centralloy® 60HTD
AISI 686	–	–	–	–	–	NC15Fe10D5AT	–	–	–	–	–	GMR 235
–	NiCr 16 MoAl	–	–	–	–	NC15D5FeAT	–	–	–	–	–	GMR 235-D
–	–	–	–	–	–	–	–	–	–	CW6M	–	Hastelloy C-22
–	–	–	–	N06007	–	NC22Fe19D6KTa	–	–	–	–	–	Hastelloy G
–	–	–	–	N10003	–	–	–	–	–	–	–	Hastelloy N
–	–	–	–	N06635	–	NC15D14KFe	–	–	–	–	–	Hastelloy S
–	–	–	–	N10004	–	–	–	–	–	–	–	Hastelloy W
–	–	–	–	N07263	–	NC20K20D6T	–	–	–	–	–	Haynes® 263
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 282
–	NiCr 15 Fe	–	–	N06600	–	–	–	–	–	–	–	Haynes 600
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 75
–	NiCo 32 Cr 26 Mo	–	–	–	–	–	–	–	–	–	–	HS27
–	–	–	–	N06102	–	–	–	–	–	–	–	IN 102
ASME SB409	X 10 NiCrAlTi 32-20	–	–	N08800	3082.76	Z10NC3221	–	–	–	–	–	INCOLOY 800
–	–	–	–	–	–	Z4NC3221	–	–	–	–	–	INCOLOY 802
–	–	–	–	–	–	NC29Fe25	–	–	–	–	–	INCOLOY 804
–	NiFe 42 K 15 Nb	–	–	N19903	–	Z3NK28	–	–	–	–	–	INCOLOY 903
–	–	–	–	N19907	–	–	–	–	–	–	–	INCOLOY 907
–	–	–	–	N09925	–	–	–	–	–	–	–	INCOLOY 925
–	–	–	–	N09945	–	–	–	–	–	–	–	INCOLOY 945
ASME SB575	–	–	–	–	–	NiMo16Cr15	–	–	–	–	–	INCONEL alloy 22
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 230
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 600SP
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 62
–	–	–	–	N06626	–	–	–	–	–	–	–	INCONEL alloy 625LCF
–	–	–	–	–	–	NC15A	–	–	–	–	–	INCONEL alloy 702
–	–	–	–	N09706	–	NFe10C16NbT	–	–	–	–	–	INCONEL alloy 706
–	–	–	–	N07718	–	–	–	–	–	–	–	INCONEL alloy 718 OP
–	–	–	–	–	–	NC16Fe8TM	–	–	–	–	–	INCONEL alloy 721
–	NiCr 16 FeTi	–	–	N07722	–	NC16FeTi	–	–	–	–	–	INCONEL alloy 722
–	–	–	–	R30783	–	–	–	–	–	–	–	INCONEL alloy 783
–	–	–	–	N09925	–	–	–	–	–	B983 N09925	–	INCONEL alloy 925
–	–	–	–	N10276	–	–	–	–	–	–	–	INCONEL alloy C-276
–	–	–	–	N07754	–	–	–	–	–	–	–	INCONEL alloy MA754
–	–	–	–	N07751	–	–	–	–	–	–	–	INCONEL alloy X751
–	–	–	–	K93600 K93603	–	–	–	–	–	ASTM F1684	–	INVAR® 36
–	NiCr 20 Co 18 Ti	–	–	–	–	–	–	–	–	–	–	Jessop G81
–	G-NiCr 19 Co	–	–	N07252	–	–	–	–	–	–	–	M 252
–	–	–	–	N04405	–	–	–	–	–	–	–	Monel® R405

NOTE: For legend, see page Y237.

(continued)

S3 Workpiece Materials Listing • High-Temp Alloys • S3 *(continued)*

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	NiFe 33 Cr 17 Mo	–	–	–	–	–	–	–	–	–	–	Nimocast PD16
–	–	–	–	–	HC202	NC20N13	–	–	–	–	–	Nimocast PE10
–	–	–	–	–	–	NC19K18Fe5TA	–	–	–	–	–	Nimonic® 95
ASME SB575	–	–	–	N06022	–	–	–	–	–	–	–	Nimonic C22
–	NiCr 22 Fe 18 Mo	–	–	–	HR6, 204	NC22FeD	–	–	–	–	–	Nimonic PE13
–	NiFe 33 Cr 17 Mo	–	–	–	HR207	NW11AC	–	–	–	–	–	Nimonic PE16
–	NiCr 20 Co 16 MoTi	–	–	–	–	NC19KDUN	–	–	–	–	–	Nimonic PK33
–	–	–	NCF 3015	–	–	–	–	–	–	–	–	NiReVa 3015
AISI 686	–	–	–	–	–	–	–	–	–	–	–	R-235
AISI 690	–	–	–	–	–	Z6NKCDT38	–	–	–	–	–	Refractaloy 26
–	–	–	–	–	–	NK10C8W7ATaTD	–	–	–	–	–	René 125
–	–	–	–	–	–	NK15C14D6AWT	–	–	–	–	–	René 65
–	–	–	–	–	–	NC15K15ADT	–	–	–	–	–	René 77
–	–	–	–	–	–	NC14K9T5DWA	–	–	–	–	–	René 80
–	–	–	–	–	–	NC14K8	–	–	–	–	–	René 95
–	NiTa 9 Co 8 W 6 CrAl	–	–	–	–	NTa9K7C6W5A5DT	–	–	–	–	–	TRW VIA
–	NiCr 19 NbMo	–	–	–	–	NC18Fe18Nb6DWT	–	–	–	–	–	Udimet® 630
–	–	–	–	–	–	NCK18TDA	–	–	–	–	–	Udimet 710
–	–	–	–	–	–	NC18K15TDA	–	–	–	–	–	Udimet 720

S4 Workpiece Materials Listing • High-Temp Alloys • S4

S4 Titanium and Titanium Alloys *Tensile Strength RM (MPa)*: 900–1600* *Hardness (HB): 300–400 (HRC): 33–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
R 50250	Ti-99.8	2 TA 1	–	UNS R50250	TA6, TA7, TA8, TA9	AIR:9182T35	–	–	–	ASTM B381F1	3.7025	ATI 30 CP Grade 1
R 50400	Ti-99.7	2 TA 2-5	–	UNS R50400	TA2.5	AIR:9182T40	–	–	–	ASTM B381F2	3.7035	ATI 40 CP Grade 2
–	SG-Ti 2	–	–	–	–	–	–	–	–	–	3.7036	–
R 50550	Ti-99.6	TA 3	–	UNS R50550	TA2, TA3, TA4, TA5	AIR:9182T50	–	–	–	ASTM B381F3	3.7055	ATI 55 CP Grade 3
R 50700	Ti-99.5	2 TA 6-9	–	UNS R50700	–	AIR:9182T60	–	–	–	ASTM B381F4	3.7065	ATI 70 CP Grade 4
–	TiNi 0,8 Mo 0,3	–	–	UNS R53400	–	–	–	–	Ti-3Al-1.5Mn	ASTM Grade 12	3.7105	–
Ti 5Al-2.5Sn	TiAl 5 Sn 2,5	–	–	UNS R54520	TA 14,17	T-A5E	–	–	Ti-5Al-2.5Sn	–	3.7115	ATI Grade 6
–	TiCu 2	2 TA 21-24	–	–	–	–	–	–	Ti-2Cu	–	3.7124	–
R 54620	TiAl 6 Sn 2 Zr 4 Mo 2 Si	–	–	UNS R54620	–	–	–	–	Ti-6Al-2Sn-2Zr-4Mo-2Si	–	3.7145	–
–	TiAl 6 ZrMo 0,5	TA 43	–	–	–	–	–	–	Ti-6-5-0.5	–	3.7155	–
R 56400	TiAl 6 V 4	TA 10-13	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V	–	–	Ti-6Al-4V	–	3.7164	ATI 6-4™
–	TiAl 6 V4	–	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V (Beta)	–	3.7164	–
R 56620	TiAl 6 V 6 Sn2	–	–	UNS R56620	–	–	–	–	Ti-6Al-6V-2Sn	–	3.7175	ATI 6-6-2™
–	TiAl 4 Mo 4 Sn 2	TA 45-51	–	–	–	–	–	–	Ti-4Al-4Mo-2Sn	–	3.7185	–
–	TiAl 3 V2.5	–	–	UNS R56320	–	–	–	–	Ti-3Al-2.5V	ASTM Grade 9	3.7195	ATI 3-2.5-MIL™
R 52250	Ti 1 Pd	TP 1	–	UNS R 52250	–	–	–	–	–	ASTM Grade 11	3.7225	–
R 52400	Ti 2 Pd	–	–	UNS R 52400	–	–	–	–	–	ASTM Grade 7	3.7235	–
–	Ti 3 Pd	–	–	–	–	–	–	–	–	–	3.7255	–
–	TiAl 5 Fe 2,5	–	–	–	–	–	–	–	Ti-5Al-2.5Fe	–	3.7110	–
–	TiV13Cr11Al3	–	–	–	–	–	–	–	Ti-13V-11Cr-3Al	–	–	11/13/03
–	Ti-10V-2Fe-3Al	–	–	–	–	–	–	–	Ti-10.2.3	–	–	ATI 10-2-3™
–	–	–	–	UNS R58153	–	–	–	–	Ti-15-333	–	–	ATI 15-333™
–	–	–	–	–	–	–	–	–	Ti-15Mo (Alpha + Beta)	–	–	ATI 15Mo™ (Alpha + Beta)
–	–	–	–	–	–	–	–	–	Ti-15Mo (Beta)	–	–	ATI 15Mo™ (Beta)
–	Ti5Al2Sn2Zr4Cr4Mo	–	–	UNS R58650	–	–	–	–	–	–	–	ATI 17™
–	TIAl 3 V 8 Cr 6 Mo 4 Z 4	–	–	–	–	–	–	–	Ti-3Al-8V-6Cr-4Mo-4Zr	ASTN Grade 19	–	ATI 38-644™
–	–	–	–	UNS R54250	–	–	–	–	Ti-425	ASTM B265	–	ATI 425®
–	–	–	–	–	–	–	–	–	Ti-425 MIL	–	–	ATI 425®-MIL
–	TiAl 4 Mo 4 Sn 2 Si 0.5	–	–	–	5103	T-A4DE	–	–	Ti-4Al-4Mo-2Sn-0.5Si	–	–	ATI 4-4-2™
–	–	–	–	–	–	–	–	–	Ti-45Nb	–	–	ATI 45Nb™
–	–	–	–	–	–	–	–	–	Ti-5Al-5V-5Mo-3Cr	–	–	ATI 5-5-5-3 PM™
–	–	–	–	–	–	–	–	–	Ti-6Al-2Sn-2Zr-2Mn-2Cr-0.2Si	–	–	ATI 6-2222™
–	–	–	–	UNS R54620	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn	–	–	ATI 6-2-4-2 PM™
–	TiAl6Zr4Mo2Sn2	–	–	UNS R54620 modified	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn-0.2Si	–	–	ATI 6-2-4-2-Si PM™
–	–	–	–	UNS R56260	–	–	–	–	Ti-6-2-4-6	–	–	ATI 6-2-4-6™
–	–	–	–	UNS R56401	–	–	–	–	Ti-6Al-4V ELI	–	–	ATI 6-4 ELI™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL	–	–	ATI 6-4-MIL™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL (HT)	–	–	ATI 6-4-MIL™
–	–	–	–	UNS R56700	–	–	–	–	Ti-6-7	ASTM F 1295	–	ATI 6-7™
–	TiAl8Mo1V1	–	–	UNS R54810	–	–	–	–	Ti-8Al-1Mo-1V	–	–	ATI 8-1-1™
–	–	–	–	–	–	–	–	–	Ti-15Mo-3Nb-3Al-0.2Si	ASTM Grade 21	–	Beta 21-S
–	–	–	–	–	–	–	–	–	Ti-12Mo-6Zr-2Fe	–	–	TMZF
–	TiAl7Nb	–	–	–	–	–	–	–	Ti-6Al-7Nb	–	–	–
–	TiAl7Mo4	–	–	–	–	–	–	–	–	ASTM B381	–	–
–	TiAl 4 Mo 4 Sn 4 Si 0.5	–	–	–	5203	–	–	–	Ti-4Al-4Mo-4Sn-0.5Si	–	–	–
–	TiA6Zr5Mo0.5Si0.25	–	–	–	–	T.AGZ.50	–	–	Ti-6Al-5Zr-0.5Mo-0.25Si	–	–	–
–	TiAl6Zr5Mo4CuSi0.2	–	–	–	M201	–	–	–	Ti-6Al-5Zr-4Mo-Cu-0.2Si	–	–	–
–	–	–	TC18	–	–	–	–	–	Ti-5Al-5Mo-5V-1Cr-1Fe	–	–	–
–	–	–	–	UNS %58210	–	–	–	–	Ti Beta 21 S	ASTM Grade 21	–	–
Ti 98.8	Ti 98.8	–	–	–	–	–	–	–	–	–	–	–
Ti 99.9	Ti 99.9	–	–	–	–	–	–	–	–	–	–	–
–	TiAL 6 Sn 2 Zr 4 Mo 2	–	–	–	–	–	–	–	–	–	–	–

NOTE: For legend, see page Y237.

H1 ■ Workpiece Materials Listing • Hardened Steels and Irons • H1

H1 Hardened Materials *Hardness (HRC): 44–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
H 11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H 13	X 40 CrMoV 5 1	BH 13	SKD 61	T20813	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMoV 5 1 1 KU	2242	–	–	1.2344	–
H 10	X 32 CrMoV 3 3	BH 10	SKD 7	T 20810	X 32 CrMoV 12H-28	32 DCV 28	30 CrMoV 12 27 KU	–	–	–	1.2365	–
H19	X 45 CrCoVW 5 5 5	–	–	–	–	–	–	–	–	–	1.2678	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Grade 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
L6	–	–	–	–	–	55 NCDV 07 (HT)	–	–	–	–	–	–

H2 ■ Workpiece Materials Listing • Hardened Steels and Irons • H2

H2 Hardened Materials *Hardness (HRC): 48–55*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 532 I A NiCr-HC	G-X 330 NiCr 42	Grade 2 B	0513-00	F45000	GJH-X330NiCr 4-2	FB Ni 4 Cr2 HC	–	0513-00	–	–	0.9625	–
H 21	X 30 WCrV 93	BH 21	SKD 5	T 20821	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	–	–	–	1.2581	–
H 12	X 37 CrMoW 5 1	BH 12	SKD 62	T20812	–	Z 35 CWDV 5	X 35 CrMoW 05 KU	–	–	–	1.2606	–
–	G-X 300 NiMo 3 Mg	–	–	–	GJH-X300NiMo 3 Mg	–	–	–	–	–	0.9610	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Grade 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
A 532 III A 25% Cr	GX 260 Cr 27	Grade 3 D	0466-00	–	GJH-X260Cr 27	–	–	–	–	–	0.9650	–
–	X 2 NiCoMoTi 180905	–	–	–	–	Z 2 NKD 180905	–	–	–	–	–	Durimphy
K12	–	–	–	–	–	–	–	–	–	–	–	ATI K12 MIL

H3 ■ Workpiece Materials Listing • Hardened Steels and Irons • H3

H3 Hardened Materials *Hardness (HRC): 56–60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 532 IIC15% CrMo-HC	G-X 300CrMo 15 3	Grade 3 A	–	–	GJH-X300CrMo 15-3	–	–	–	–	–	0.9635	–
–	G-X 300 CrMoNi 15 2 1	Grade 3 B	–	F45005	GJH-X300CrMoNi15-2-1	–	–	–	–	–	0.9640	–
A 532 IID20% CrMo-LC	GX 260 CrMoNi 20 2 1	Grade 3 C	–	F45007	GJH-X260CrMoNi20-2-1	–	–	–	–	–	0.9645	–
A 532 III A 25% Cr	G-X 300 CrMo 27 1	Grade 3 E	–	–	GJH-X300CrMo 27-1	–	–	–	–	–	0.9655	–
A 2	X 100 CrMoV 5 1	SKD 12	–	–	BA 2	Z 100 CDV 5 (HT)	X 100 CrMoV 51 KU	2260	–	–	1.2363	–
D7 (HT)	–	–	–	T30407	–	Z 230 CVA 12 04	–	–	–	–	1.2378	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 MnV 8	90 MnV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
A 532 I D Ni-HiCr	G-X 300 CrNiSi 95 2	Grade 2 C	0457-00	F45003	GJH-X300CrNiSi 9-5-2	–	–	–	–	–	0.9630	Nihard type 4
S 1	60 WCrV 7	BS 1	–	–	6020 WCrV 8	55 WC 20	55 WCrV 8 KU	–	–	–	1.2550	–
S 1	60 WCrV 7	BS 1	–	–	60 WCrV 8	55 WC 20	55 WCrV 8 UK	–	–	–	1.2550	–
S 7	50 CrMoV 13 14	–	–	–	–	–	–	–	–	–	–	Cryodur 2357
K 12 (HT)	–	–	–	–	–	–	–	–	–	–	–	ATI K12-MIL

H4 ■ Workpiece Materials Listing • Hardened Steels and Irons • H4

H4 Hardened Materials *Hardness (HRC): >60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
W 108	C 80 W 1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
D 2	X 155 CrVMo 12 1	BD 2	SKD §§	T 30402	X 153 CrMoV 12	Z 160 CDV 12	X 155 CrVMo 12 1 KU	2310	–	–	1.2379	–
–	100 WV4	–	SKS 21	–	–	–	–	–	–	–	1.2515	–
D 3	X 210 Cr 12	BD 3	SKD 1	T30403	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.2080	–
O 7	110 WCrV 5	–	–	–	–	–	–	–	–	–	–	–
–	Mh97 + Pb	–	–	–	–	–	–	–	–	–	–	LAW 100 Pb

■ Workpiece Materials Listing Legend

* 1 Mpa = 145 psi.
** Includes ASTM and SAE material specifications.
AISI — American Iron and Steel Institute
AFNOR — French National Organization for Standardization
AMS — Aerospace Material Specifications
ASTM — American Society of Mechanical Engineers
BS — British Standards
DIN — German Institute for Standardization
EN — European Standards
JIS — Japanese Industrial Standards
SAE — Society of Automotive Engineers
SIS — Swedish Standards Institute
UNI — Italian Organization for Standardization
UNS — Unified Numbering System

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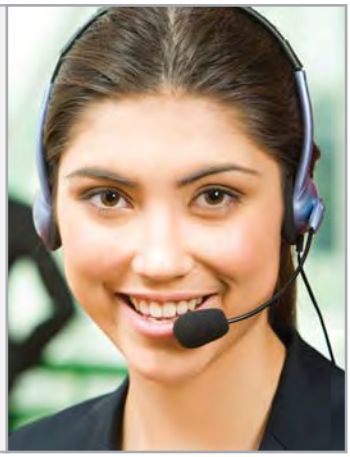

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METALCUTTING SAFETY

IMPORTANT SAFETY INSTRUCTIONS

Read before using the tools in this catalog!

Projectile and Fragmentation Hazards:

Modern metalcutting operations involve high spindle and cutter speeds and high temperatures and cutting forces. Hot metal chips may fly off the workpiece during metalcutting. Although cutting tools are designed and manufactured to withstand high cutting forces and temperatures, they can sometimes fragment, particularly if they are subjected to over-stress, severe impact, or other abuse.

To avoid injury:

- Always wear appropriate personal protective equipment, including safety goggles, when operating metalcutting machines or working nearby.
- Always make sure all machine guards are in place.

Breathing and Skin Contact Hazards:

Grinding carbide or other advanced cutting tool materials produces dust or mist containing metallic particles. Breathing this dust or mist — especially over an extended period — can cause temporary or permanent lung disease or make existing medical conditions worse. Contact with this dust or mist can irritate eyes, skin, and mucous membranes and may make existing skin conditions worse.

To avoid injury:

- Always wear breathing protection and safety goggles when grinding.
- Provide ventilation control and collect and properly dispose of dust, mist, or sludge from grinding.
- Avoid skin contact with dust or mist.

For more information, read the applicable Material Safety Data Sheet provided by Kennametal and consult General Industry Safety and Health Regulations, Part 1910, Title 29 of the Code of Federal Regulations.

These safety instructions are general guidelines. Many variables affect machining operations. It is impossible to cover every specific situation. The technical information included in this catalog and recommendations on machining practices may not apply to your particular operation. For more information, consult the Kennametal Metalcutting Safety booklet, available free from Kennametal at 724 539 5747 or fax 724 539 5439. For specific product safety and environmental questions, contact our Corporate Environmental Health and Safety Office at 724 539 5066 or fax 724 539 5372.

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