



SPRING 2021

NEW PRODUCT GUIDE

***NEW
PROMOTIONS***

***NEW
PRODUCTS***



Special Offers Inside

Up to 50% OFF Drilling, Milling, Cut-Off, and Swiss Turning Solutions...



KYOCERA Precision Tools

KYOCERA PRECISION TOOLS (KPT)

KYOCERA Precision Tools (KPT) is a division of the Kyocera-SGS Precision Tools Group specializing in the manufacturing, servicing, and marketing of Indexable Cutting Tools and Printed Circuit Board (PCB) drills. With over 40 years of cutting tool expertise, KYOCERA has become the market-leader in Japan and has an established global presence with manufacturing, technical centers and sales offices in the Americas, Europe, and Asia.

CUTTING-EDGE, COST-EFFICIENT SOLUTIONS

KYOCERA Precision Tools develops state-of-the-art indexable cutting tools that exceed quality expectations while providing the cost-efficiency that today's metalworking consumer demands. Though ceramic technologies were the nucleus of the original business model, Kyocera has become a global leader in the metal removal industry by developing state-of-the-art cutting tool solutions using carbide, cermet, CBN and PCD. Over the past 40 years, Kyocera has developed some of the highest-quality, innovative indexable tooling solutions the industry has seen, including the **MEC Ultra-Hurricane** 90° Milling Cutters, the **MFH-Raptor** High-Feed Milling Cutters, the **DRZ & DRV** Family of Magic Drills, and **CCX**, the first-ever CVD Coated Cermet.



PRODUCTS



Turning & Boring



Holemaking



Indexable Milling



*Small Tools for
Swiss Lathes*



*Quick-Change Tooling &
Specialty Tools*



Grooving & Cut-Off

HOW TO REACH US

KYOCERA Precision Tools

102 Industrial Park Road
Hendersonville, NC 28792

Phone: (800) 823-7284

Email: ctsales@kyocerapti.com

Web: www.kyoceraprecisiontools.com

Spring 2021 Product Guide Overview

2021 Spring Promos

Page 4 ~ 9

New Promotions Available!

- **25% OFF** the Purchase of a DRA Replaceable Tip Drill Body and 1 or more DA Drill Tips
- **50% OFF** the Purchase of a M-THREE (MEV) Milling Cutter and 10 or more Compatible TOMT Inserts
- **50% OFF** the Purchase of a KTKF Jet Coolant-Through Cut-Off Holder and 10 or more Compatible Inserts in Grades PR1725 or PR1535
- **50% OFF** the Purchase of a Swiss Jet Coolant-Through Turning Holder and 10 or more Compatible Inserts in Grades PR1725, PR1705 or PR1535

2021 Spring New Products

Page 10 ~ 23

New Products and Lineup Expansions Available!

- DRV Magic Drill Expansion
- MFLN Heavy Milling Series
- MFF Finish Milling Series
- MFH-RAPTOR High-Feed Milling Expansion
- MEAS High-Speed Aluminum Milling Series
- KPK High Performance Cut-Off Blade Series
- EZ-Bar Small Internal Machining Series Expansion
- SIGC Small Internal Grooving Expansion
- SKS Chipbreaker Molded Sharp Edge Finishing Inserts



Locate a Distributor

Use our *Locate a Distributor* map at:
www.KyoceraPrecisionTools.com/locate



FREE Ceramic Knife

Receive a free Kyocera Ceramic Knife with
test report submission:
[See Back Cover](#)

DRA

MAGIC DRILL

High-Efficiency
Replaceable Tip Drill



25% OFF the Purchase of a **DRA Drill Body**
and 1 or more **DA Insert Tips**

Promo Code: DRA25

View DRA Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/DRA

Replaceable Tip Drills

High-Efficiency and Fast Insert Replacement

Optimal Web Thickness Limits Deflection
Fine Chip Breaking and Smooth Deep Hole Cutting
Long Tool Life and Stable Machining of Various Workpieces
Easy Insert Replacement



GM

General Purpose



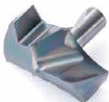
KM

Cast Iron

1st Recommendation

Steel
PR1535

Cast Iron
PR1525



FTP

Flat Bottom
Counterboring



NEW

HQP

High
Precision

NEW

Lineup Expansion with Chamfering
Attachment and 12xD Sizes



All 2021 Spring Promo Offers Valid through June 30, 2021

All promotional items are available exclusively through Authorized North American Kyocera Precision Tool Distributors.
Please use specified Promo Code when placing orders. To locate a distributor visit www.kyoceraprecisiontools.com/locate.



25% OFF the Purchase of a **DRA Drill Body** and 1 or more **DA Insert Tips**

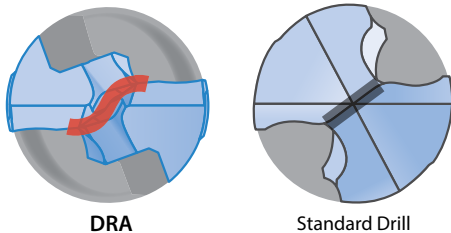
Promo Code: **DRA25**

View DRA Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/DRA

Low Cutting Force Design Improves Hole Accuracy

The special chisel edge with S-curve reduces thrust force and controls vibration

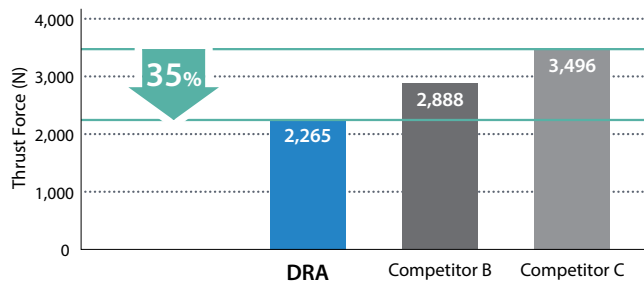
Cutting Edge Image



DRA

Standard Drill

Low Cutting Force Comparison
(Internal Evaluation)

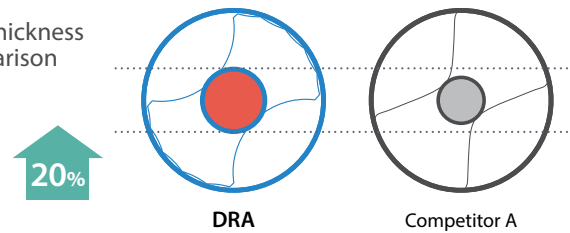


Cutting Conditions : $V_c = 390$ sfm, $f = 0.010$ ipr,
Drilling Diameter $\varnothing 0.551"$, Drilling Depth 1.772", Wet, Workpiece : 1049 Steel

Optimal Web Thickness Limits Deflection

The hole accuracy is improved by controlling drill deflection with a 20% thicker web compared with Competitor A

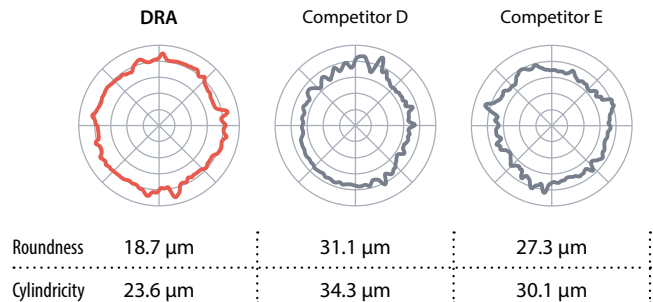
Web Thickness Comparison



DRA

Competitor A

Roundness · Cylindricity Comparison
(Internal Evaluation)



Cutting Conditions : $V_c = 390$ sfm, $f = 0.012$ ipr
Drilling Diameter $\varnothing 0.551"$, Measurement Position 2.165", Wet Workpiece : 1049 Steel



50% OFF the Purchase of an **M-THREE (MEV) Milling Cutter** and **10 or more Compatible TOMT Inserts**

Promo Code: MEV50

View MEV Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/MEV

Multi-Functional Milling

High-Efficiency and Fast Insert Replacement

The next generation of high-performance, economical, multi-functional milling cutters

New triangular insert designs for lower cutting forces, higher rigidity, and excellent chatter resistance

Wide variety of applications from slotting, helical milling, and shouldering, to ramping, facing and pocketing



Large Axial Rake

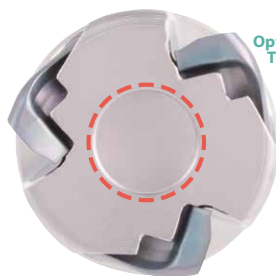
**A.R.
Max. 17°**



Low Cutting Force

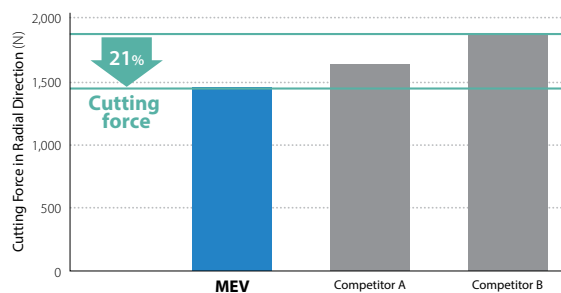
Larger Optimized Web Thickness

**about
120%
Optimal Web
Thickness**



High Rigidity

Cutting Force Comparison (Internal Evaluation)



Cutting Conditions: $V_c = 655 \text{ sfm}$, $D.O.C. \times a_e = 0.118" \times 0.709"$, $f_z = 0.004 \text{ ipt}$
End Mill: $\emptyset 0.750"$ (3 flutes), Dry Workpiece: 4140

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50% OFF the Purchase of an **M-THREE (MEV) Milling Cutter** and **10** or more Compatible **TOMT Inserts** Promo Code: MEV50

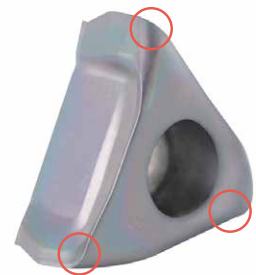
View MEV Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/MEV

The Economical Choice: Improved Insert Life with 3 Cutting Edges

Insert

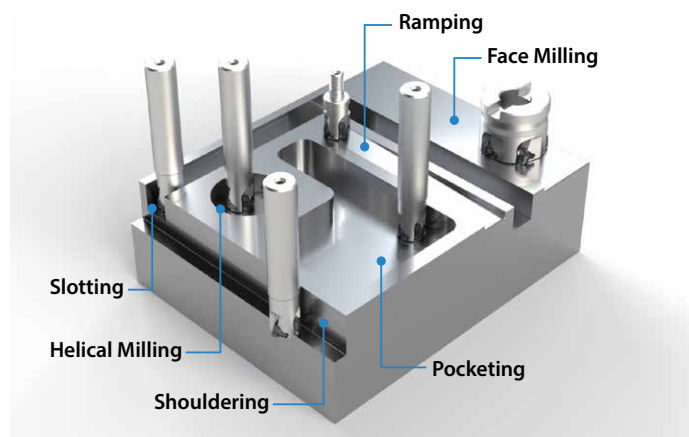
Unique triangle inserts with 3 cutting edges

PR15-series utilizes excellent MEGACOAT NANO coating technology with wear and adhesion resistance



Toolholder

Engineered with state-of-the-art simulation and analysis technology, the MEV is built to reduce cutting stress on the cutter body
Increased hardness and wide contact surface for improved durability



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JCT

SWISS SERIES

Jet Coolant-Through
Turning and Cut-Off



50% OFF the Purchase of a **KTKF Jet Coolant-Through (JCT)** Cut-Off Holder and **10** or more Compatible Inserts in Grades **PR1725** or **PR1535**

Promo Code: **JCT50**

View JCT Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/JCT

KTKF-JCT

Jet Coolant-Through Cut-Off Holders

The KTKF-JCT discharges coolant in two directions toward rake surface of insert and breaks chips into small pieces

Coolant is also directed from the flank face of the insert to supply an ample amount of coolant to the tool edge area to help further suppress insert wear



PR1725

1st recommendation for
steel machining

Excellent surface finish and
long tool life

Steel

	Continuous	Light Interruption	Heavy Interruption
High Speed	PR1705	PR1725	
Medium Speed		PR1425	
Low Speed	PR930		

PR1535

1st recommendation for
stainless steel machining

Tough substrate and special nano
layer coating with improved stability

Stainless Steel

	Continuous	Light Interruption	Heavy Interruption
High Speed		PR1725	
Medium Speed			
Low Speed			PR1535

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50% OFF the Purchase of a **Swiss Jet Coolant-Through (JCT)** Turning Holder and **10** or more Compatible Inserts in Grades **PR1725, PR1705** or **PR1535**

View JCT Brochure for Full Product Offering: WWW.KYOCERAPRECISIONTOOLS.COM/JCT

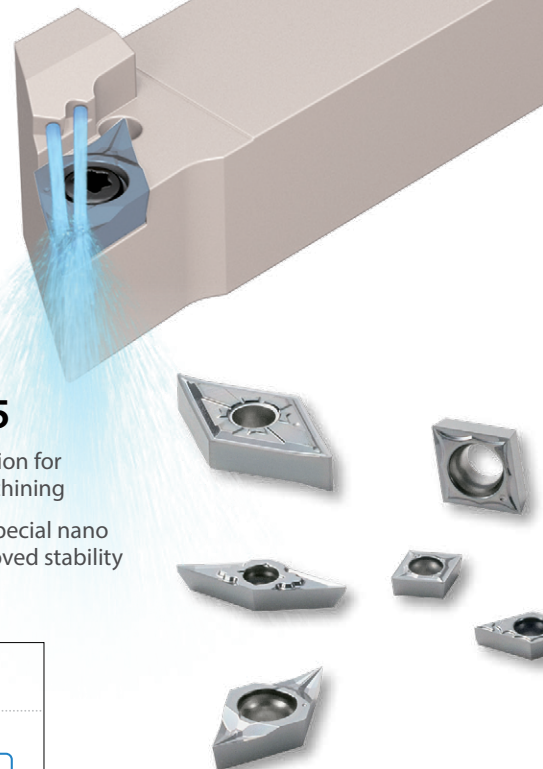
Promo Code: **JCT50**

Screw-Clamp-JCT

Jet Coolant-Through Turning for Small Parts Machining

Double coolant hole design delivers an ample supply of coolant to the cutting edge with excellent chip control and longer tool life

Available in SCLC, SDJC, SVJB and SVJP styles for CC., DC., VB., and VP.. insert geometries



PR1725

1st recommendation for steel machining
Excellent surface finish and long tool life

PR1705

High-hardness ultra-fine particle carbide substrates
Excellent wear resistance and high precision machining

PR1535

1st recommendation for stainless steel machining
Tough substrate and special nano layer coating with improved stability

Steel

	Continuous	Light Interruption	Heavy Interruption
High Speed	PR1705	PR1725	
Medium Speed		PR1425	
Low Speed	PR930		

Stainless Steel

	Continuous	Light Interruption	Heavy Interruption
High Speed			
Medium Speed	PR1725		
Low Speed			PR1535

Product
Brochure



Product
Video



View
Online



DRV

MAGIC DRILL

High-Speed Indexable Drill

For more product information visit:
WWW.KYOCERAPRECISIONTOOLS.COM/DRV

Economical Inserts with 4 Cutting Edges and Excellent Chip Evacuation

2xD to 6xD drilling lineup with 4 chipbreakers for various machining applications

High speed and highly efficient machining with the combination of a CVD outer insert and PVD inner insert

Excellent hole accuracy with a highly rigid design for better chatter resistance



Metric Sizes

DRV

Ø12mm~Ø60mm
2D~6D

Inch Sizes

DRV

Ø0.500"~Ø2.000"
2D~6D

00.500 01.000 01.500 02.000 02.500
Drill Diameter (in)

NEW

Ø1.562" ~ Ø2.000"

(2D, 3D, 4D, 5D, 6D)

Large Dia Lineup Expansion

NEW

Ø40mm ~ Ø60mm

(2D, 3D, 4D, 5D, 6D)

Large Dia. Lineup Expansion



NEW

Chamfering
Attachment



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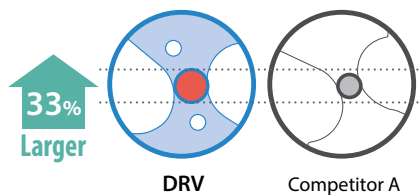
Featured New Products

1

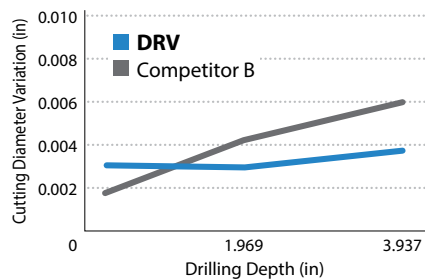
Excellent Drilling Precision with Less Variation in Cutting Diameter

Optimal Web Thickness and Low Cutting Force Design Reduces Chattering

Web Thickness Comparison
(Internal Evaluation)

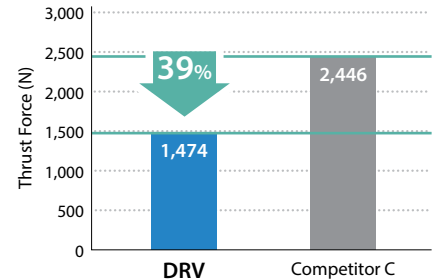


Cutting Diameter Variation Comparison
(Internal Evaluation)



Cutting Conditions : $V_c = 490$ sfm, $f = 0.0024$ ipr
Cutting Dia. $\varnothing 0.812$ " (5D), Wet, Workpiece : 1049

Cutting Force Comparison
(Internal Evaluation)



Cutting Conditions : $V_c = 660$ sfm, $f = 0.0047$ ipr
Cutting Dia. $\varnothing 0.812$ " (3D), Wet, Workpiece : 1049

2

Unique Insert Design to Control Chip Flow

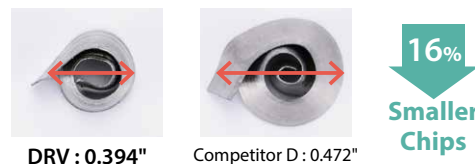
Outer Edge Insert

Unique Insert Pattern to Differentiate between Outside and Inside Inserts



Smooth Chip Evacuation with Compact Chips

Chip Shape Comparison of Outer Insert Cutting Edge
(Internal Evaluation)



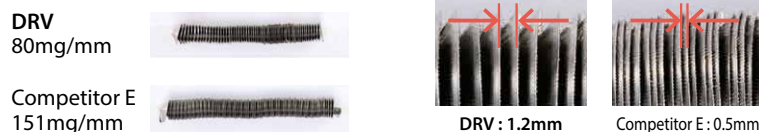
Cutting Conditions : $V_c = 490$ sfm, $f = 0.0024$ ipr, Cutting Dia. $\varnothing 0.812$ (3D), Wet Workpiece : 1049

Inner Edge Insert



Excellent Chip Evacuation with 6xD Maximum Deep-Hole Drilling

Weight per Unit of Length for Chips Generated by the Inner Insert
(Internal Evaluation)



Cutting Conditions : $V_c = 820$ sfm, $f = 0.0031$ ipr, Cutting Dia. $\varnothing 0.812$ (5D), Wet, Workpiece : 304



MFLN

Tangential Face Mills for
Heavy Milling

For more product information visit:

WWW.KYOCERAPRECISIONTOOLS.COM/INDEXABLE/MILLING/HEAVY-MILLING/MFLN

4-Edged Tangential Inserts for Large Depths of Cut and High Feed Rates

Tough and Reliable 4-edged Inserts for Stable Heavy Milling

Highly Efficient Milling with Large Depths of Cut up to 20 mm and Feed Rates up to 0.016 ipt

Three Different Cutting Lead Angles Available



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Featured New Products

1

Tough and Reliable Inserts for Stable Heavy Milling

Inserts up to 20mm long offer increased rigidity

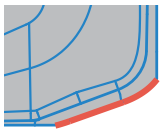
Tangentially mounted inserts provide 2 cutting edges on each side

Corner Chamfer

(only available on MFLN90)

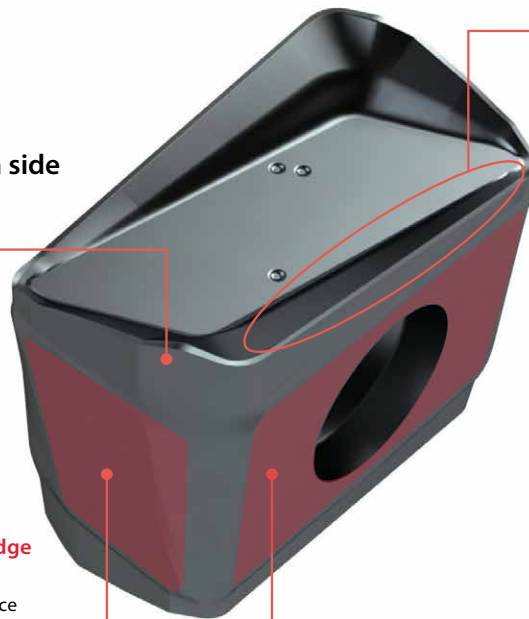
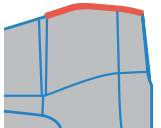
Both general corner-R type and chamfered corner type available

Prevents chattering and insert fracturing



Convex cutting edge ridge

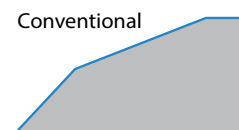
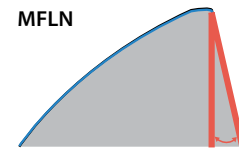
Reduced impact forces when entering the workpiece



Obtuse Edge Design

Increases the cutting edge angle only at the tip to maintain both strength and sharpness

Cross-section view of cutting edge



Wide Flat Mounting Surface

Holds insert firmly in heavy milling applications

2

Large D.O.C. and High Feed Rates with 90°, 70°, and 45° Cutting Edge Angles

3 Cutter styles cover a wide variety of machining applications

MFLN90

(Cutting edge angle 90°)



MFLN70

(Cutting edge angle 70°)

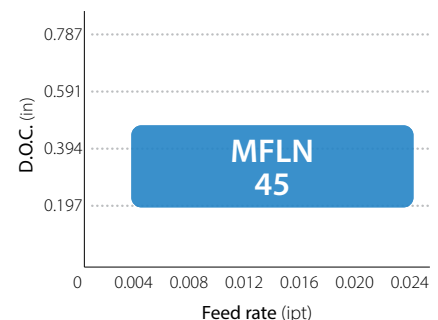
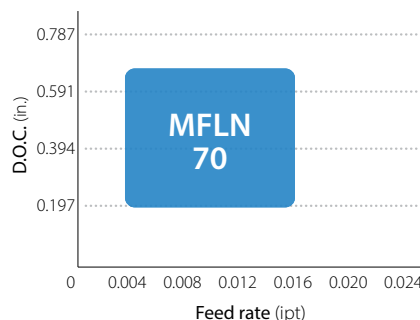
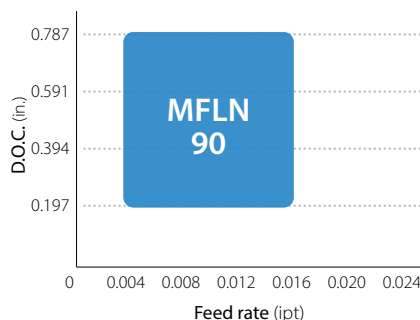


MFLN45

(Cutting edge angle 45°)



Applicable Range



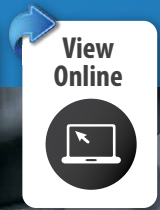
For more product information visit:

WWW.KYOCERAPRECISIONTOOLS.COM/MFLN

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MFF

High-Precision Cutter for
Finishing Applications

For more product information visit:

WWW.KYOCERAPRECISIONTOOLS.COM/INDEXABLE/MILLING/FINISH-MILLING/MFF

Innovative Finishing Technology with Excellent Efficiency

Enhanced Cutter Design for a Better Finishing Solution

Molded Wiper Insert Design

High Feed Rates ($f = \text{Max } 0.197 \text{ ipt}$) and High-Quality Surface Finish ($0.8 \mu\text{m Ra}$)

Adjustable Cutting Edge Height for Improved Usability



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Featured New Products

1 Innovative Solutions for Finish Machining

Designed with a unique insert combination of semi-finishing and finishing, the MFF drastically improves productivity by reducing finish quality issues.



SOLUTION

Increase feed to $f = 0.197 \text{ ipt}$

Achieved $0.8 \mu\text{m Ra}$ surface finish

No grinding required

Achieved $5 \mu\text{m}$ flatness

The above is the result of a field test. Actual results will depend on machining environment, workpiece rigidity, machine, etc. For more details, see case studies on page 4 and 5.

2 Molded Wiper Insert for High-Quality Surface Finish

Utilizes Kyocera's unique molded insert technology for high feed rates and excellent surface finish



MFF Machining Solutions

Can be used on a wide variety of parts and workpieces

Parts	Workpieces	Industries
Plate / Frame / Case Cylinder Pump / Rail Turbine Housing Casing / Mold Base	SS400 / NO.45 / 80-60-03 Cast Iron Mold Steel Carburized and Hardened Steel (60 HRC)	Industrial Machining Machine Tools Shipbuilding / Automotive Construction Machinery Molds





MFH

High-Feed Milling Series

For more product information visit:
WWW.KYOCERAPRECISIONTOOLS.COM/MFH

Stable Machining with Greater Chatter Resistance

Reduce Cycle Time During Roughing Applications
Multi-Functional for Various Applications
MFH Mini / Micro High Feed Mills for Small Machining Centers



NEW Tough Edge GH Chipbreaker and
Grade PR015S Added



NEW **MFH-Micro**
10mm Dia. / Inch Shank End Mill
0.500" Dia. / Fine Pitch End Mill

NEW **MFH-Mini**
0.750" ~ 1.250"
Long Shank End Mills



KYOCERA Precision Tools

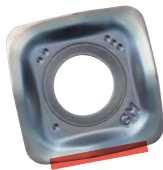
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Featured New Products

4 Different Insert Designs Offer a Variety of Machining Options

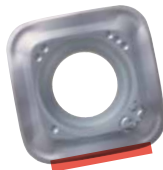
GM (General Milling)



1st Choice for General Purpose
Multiple Metalworking Processes

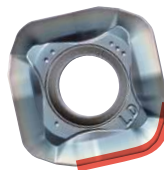
NEW

GH (Tough Edge)



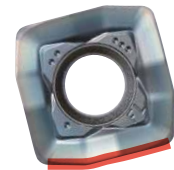
Tough Edge
Excellent Fracture Resistance

LD (Large D.O.C.)



1st Choice for Large D.O.C.
Available for Scale Removal

FL (Wiper Edge)



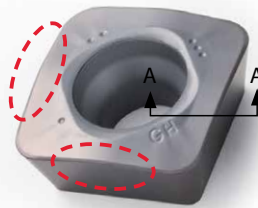
Wiper Edge
Roughing and Finishing Even in Low Horsepower Machining Centers

GH Chipbreaker

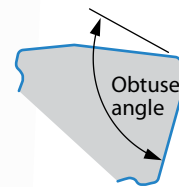
Excellent Fracture Resistance

Convex Cutting Edge Design

Reduces cutting force when entering workpiece
Suppresses chattering and fracturing



A - A' Section



Tough Edge Design

Combining with PR015S is excellent for machining hardened material with improved fracture resistance

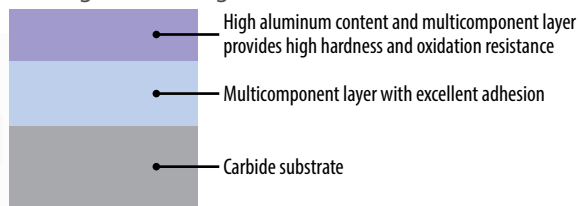
PR015S
MEGACOAT HARD

NEW

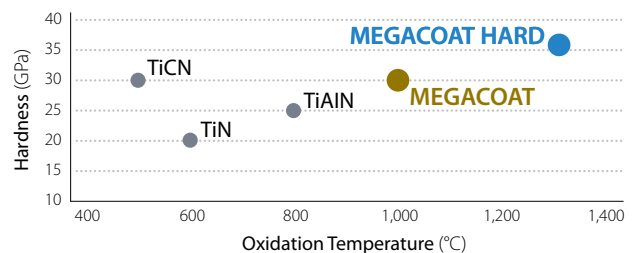
Thermal property of the substrate reduces cracks and notch wear with a high hardness and heat-resistant coating for improved wear resistance when machining in hardened materials

MEGACOAT HARD Improves Wear Resistance with High Hardness and High Heat-resistant PVD Layer

Coating Pattern Diagram

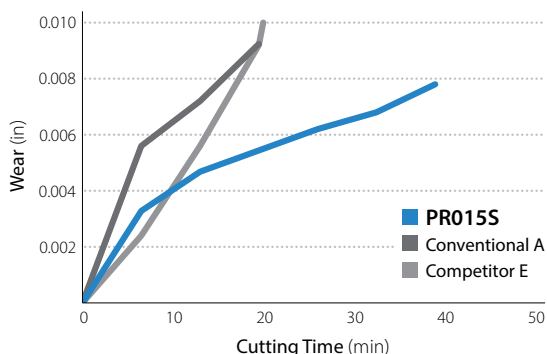


Coating Properties (Internal Evaluation)



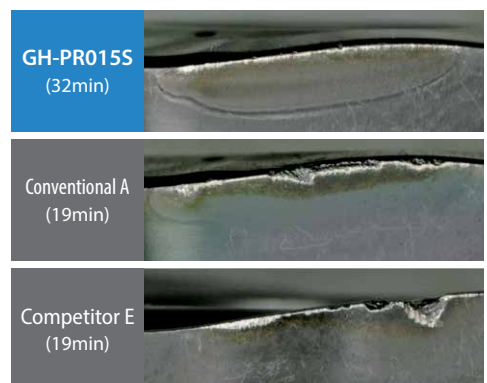
Combining GH chipbreaker and grade PR015S reduces heat cracking and improves fracture resistance for stable machining in hardened material

Cutting Performance Comparison (Internal Evaluation)



Cutting Conditions:
Vc = 165 sfm,
fz = 0.008ipt,
D.O.C. = 0.039" x 1.240",
Wet
SOMT140520ER-GH
Competitor Tough Edge Chipbreaker
(Flat type)
Workpiece: D2 (55HRC)

Cutting Edge



KYOCERA Precision Tools

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Official Website: www.kyoceraprecisiontools.com • Distributor Website: portal.kyoceraprecisiontools.com



MEAS

Series for Small Parts Machining

For more product information visit:
WWW.KYOCERAPRECISIONTOOLS.COM/MEAS

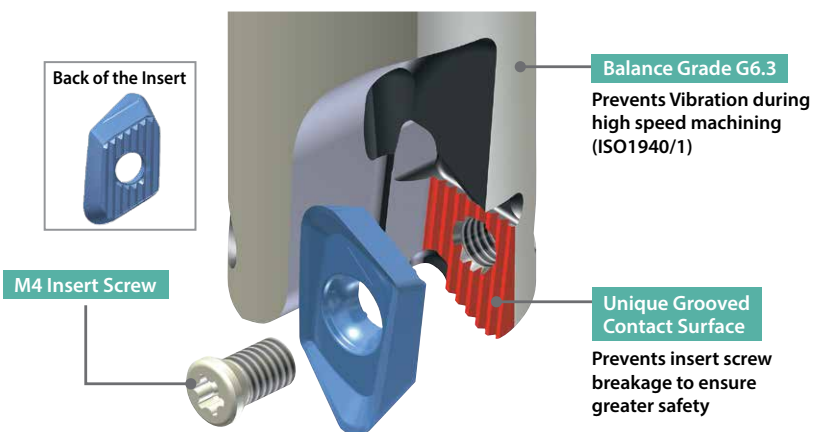
High Consistency, High Speed and High Efficiency Machining for Aluminum

Grooved Insert Pockets Provide Secure Clamping to Ensure Stable, High Speed Machining

Sharp Cutting Edge with Low Cutting Force Design

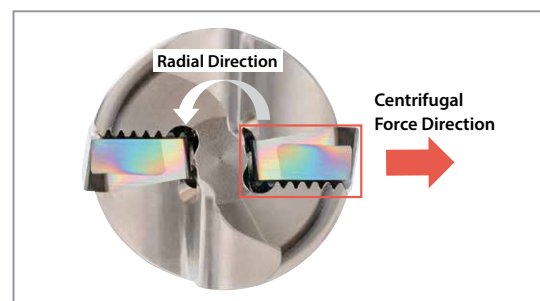
Simultaneous 3-axis with a Max. Ramping Angle of 20°
(Ø1.000" / Ø25mm)

Kyocera's Proprietary Hydrogen-free DLC Coated PDL025 Inserts

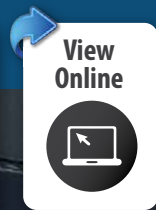


Grooved Insert Pocket

Centrifugal force is applied across the grooved surface to reduce pressure on the insert screw and to prevent insert screw breakage and safely secure the insert during high-speed revolutions



Featured New Products



KPK

High-Performance
Cut-Off Solutions

For more product information visit:
WWW.KYOCERAPRECISIONTOOLS.COM/KPK

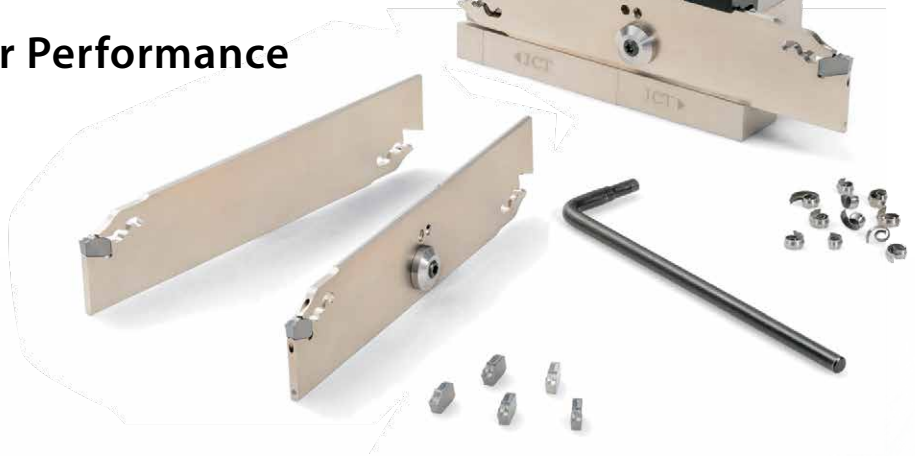
Unique Design for Superior Performance in Cut-Off Operations

Easy insert replacement

Strong clamping mechanism for added
safety and security

Long tool life and stable machining with
unique chipbreaker designs

Jet coolant-through styles available (JCT)



JCT Series

Jet Coolant-Through

Long tool life with internal
coolant and excellent
chip evacuation

NEW

Newly Developed Blade Design

Durable Performance

NEW

High-Rigidity Tool Block

Firm Clamping Power

NEW

High-Performance Insert

Advanced Chipbreaker Technology



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EZ Bar

Small Internal Machining Series

For more product information visit:

WWW.KYOCERAPRECISIONTOOLS.COM/INDEXABLE/SMALL-TOOLS/EZ-BAR

Easy Adjustment and High Precision for a Wide Range of Applications

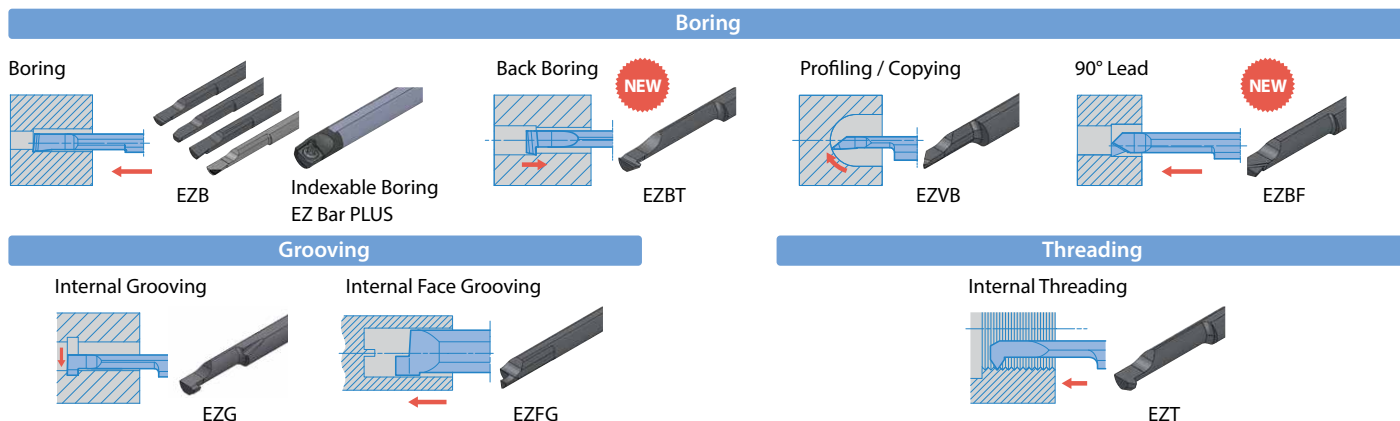
The EZ Bar Prevents Deviation with High-rigidity Clamping

Unique Design Provides a Smooth Supply of Coolant

Large Lineup for Internal Grooving, Threading, Boring, and Back Turning Operations



NEW PR1725 MEGACOAT NANO PLUS Grade for Long Tool Life and Excellent Surface Finish



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PR1725 NEW

PVD Coating for Small Parts Machining

1st Recommendation for Steel Machining

Excellent Surface Finish and Long Tool Life

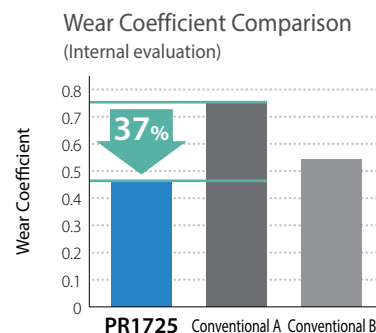
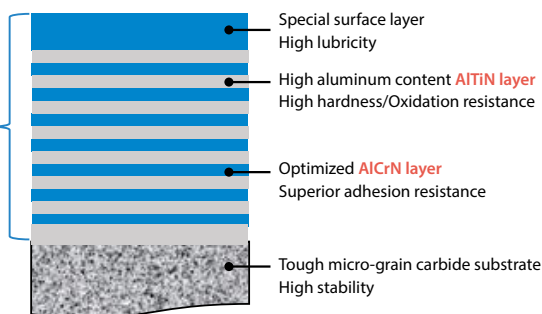
Great Performance in Small Parts Machining Applications

MEGACOAT NANO PLUS

AlTiN/AlCrN Nano laminated film with superior wear resistance and adhesion resistance. Excellent surface finish and long tool life.

REDUCES CRACKING

Reduces abnormal damage such as chipping because of increased lamination layer with a thinner gap than conventional coatings



Superior Wear and Chipping Resistance

High Strength with nano laminated film layer properties
Internal stress optimization reduces chipping

Excellent Surface Finish

Special surface layer with great lubricity reduces adhesion

Applicable to Various Workpiece Materials

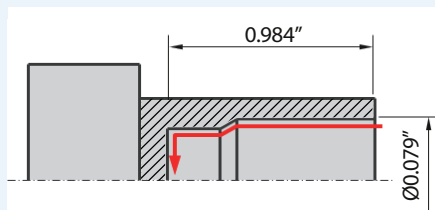
Superior high temperature properties and oxidation resistance make for great performance in steel, stainless steel and free-cutting steel

High Machining Stability

Tough micro-grain carbide substrate provides stable machining

Improved machining efficiency. 2.8 times longer tool life

Automotive Parts 1045



$V_c = 160 \text{ sfm}$

$f = 0.0018 \text{ ipr}$

D.O.C. = 0.008"

Wet

EZBR035035HP-015F PR1725

KYOCERA

EZ Bar PR1725

18,000 pcs/corner

Tool Life

\uparrow
x 2.8

Conventional

Conventional Tool A

6,300 pcs/corner

The EZ Bar (PR 1725) showed 2.8 times longer tool life than Conventional A's tooling.

(User Evaluation)



SIGC

High-Precision
Small Internal Grooving



For more product information visit:

WWW.KYOCERAPRECISIONTOOLS.COM/INDEXABLE/GROOVING/INTERNAL/SIGC

High-Precision Small Internal Grooving with a ø8 mm Minimum Bore Diameter

Newly Developed Clamping System Ensures a Firm Insert Hold for High-Precision Machining

Excellent Chip Evacuation with Double Coolant Holes

Long Tool Life with MEGACOAT NANO PLUS "PR1725"

Minimum Bore Diameter ø8mm

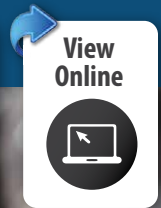
NEW Full Radius Inserts Added



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SKS

Chipbreaker

for Finishing Applications

For more product information visit:
WWW.KYOCERAPRECISIONTOOLS.COM/PR17

Molded Sharp Edge Chipbreaker for Small Part Finish Applications

Featured in Grades
PR1725, PR1705, and PR1535

Excellent Chip Control in a Wide Range of Machining Applications

High-Precision Sharp Edge with Periphery Grinding

Anti-welding Properties for Improved Mirror Surface Finishes

NEW

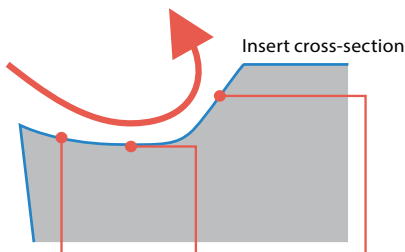
SKS Chipbreaker

D.O.C.: 0.008" to 0.059"

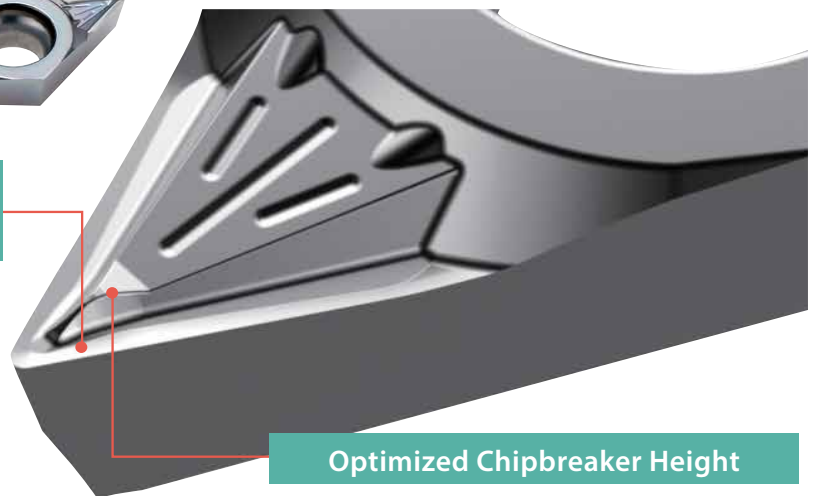
Excellent Chip Control and Surface Finish



Rake face, bottom face, and chipbreaker face ensure properly curled chips



Rake Face Bottom Face Chipbreaker Face



Optimized Chipbreaker Height

Stabilized chip control when machining at high feed rates
Improved chip evacuation when machining at large D.O.C.

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REVOLUTION 3" CERAMIC PARING KNIFE

A versatile must-have tool in the kitchen, the Revolution 3" paring knife features a non-beveled, ultra-sharp zirconia narrow blade with a pointed tip. The ergonomic handle provides knuckle clearance and precise control for small cutting tasks including trimming and peeling.



FREE Ceramic Knife with Each Test Report Submitted

Submit a **Test Report** of any products listed in this **Spring 2021 Product Guide** and we'll send you one of Kyocera's popular ceramic paring knives **FREE!**

To fill out a test report form visit:

WWW.KYOCERAPRECISIONTOOLS.COM/TESTING



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