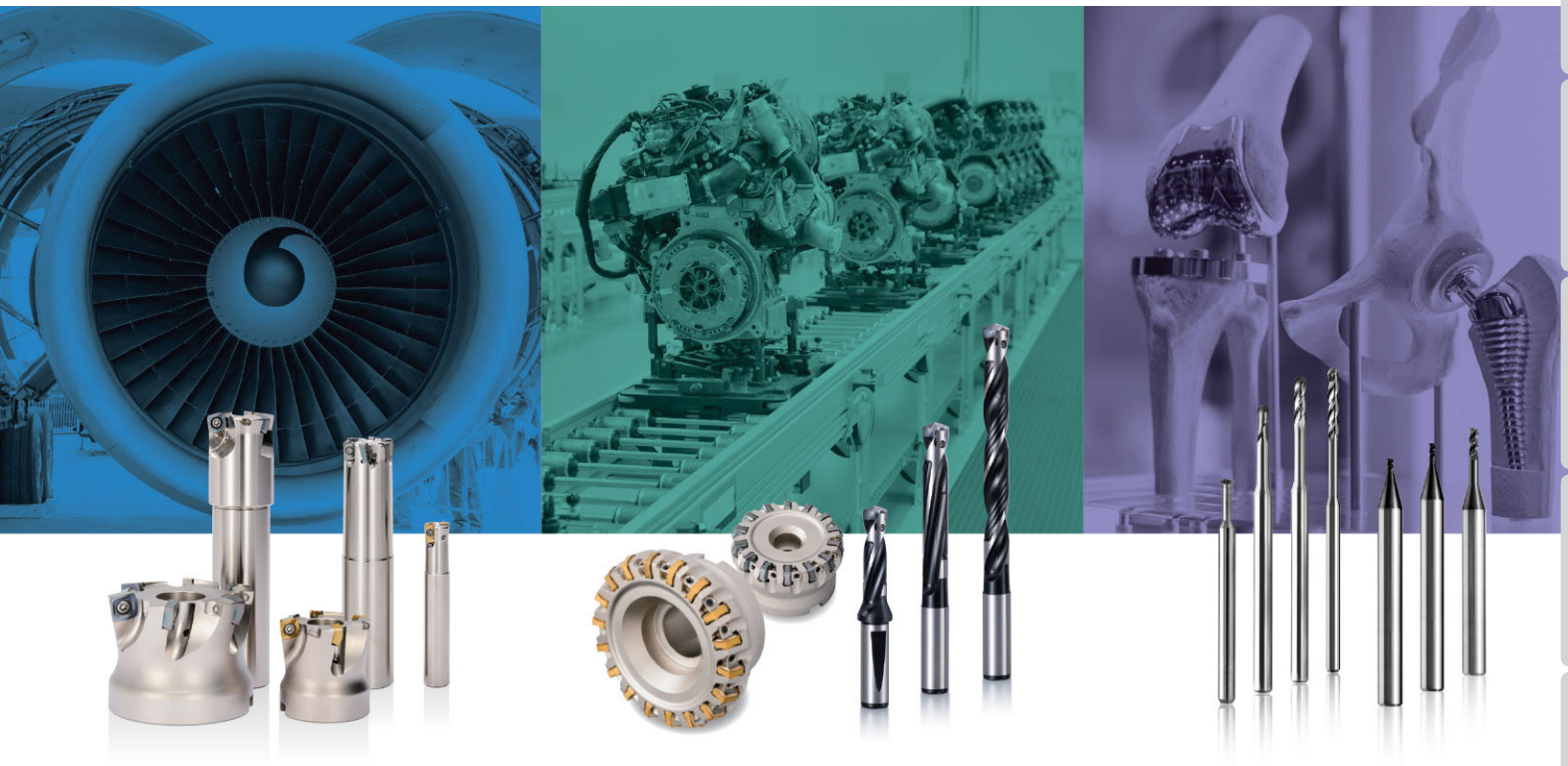




2016

SUMMER / FALL

PROMO PACK



***Special Offers for Aerospace, Automotive, and Medical & Dental Solutions...
Plus Free Milling Cutter and Indexable Drill Offers***



VALID THROUGH
December 31st, 2016

PR13-SERIES
HSSA TURNING GRADE

MILLING KITS FOR
TITANIUM, HSSA & STAINLESS

MICRO DRILLS &
MICRO REAMERS

MILLING KITS FOR
STEEL & CAST IRON

DPA MAGIC DRILL
MODULAR DRILL KITS

G8A 3-EDGE
GROOVING SYSTEM

MICRO DRILLS &
MICRO BORING BARS

ROUND SHANK
SUB SPINDLE HOLDER KITS

SOLID END MILLS, BALL NOSE END
MILLS & MICRO THREAD MILLS

KPTI Company Overview

Established in April 2014, KPTI unifies two of the world's leading cutting tool manufacturers, Kyocera Tycom Corporation (KTC) and the Cutting Tool Division of Kyocera Industrial Ceramics Corporation (KICC-CT).

The new company creates a combined enterprise that optimizes the strengths of both organizations and facilitates expansion of Kyocera's overall cutting tool-related business in North America. The new combined entity will unify cutting tool resources to create greater efficiencies while positioning the new organization for continued success.

Customers will benefit from a unified sales and support team offering improved customer service and an expanded portfolio of cutting tool products and solutions for the automotive, aerospace, general machining, medical, power generation, printed circuit board and steel markets.

KPTI North American Operations



Costa Mesa, CA

Wapakoneta, OH

Hendersonville, NC



Administration & Manufacturing

- Administration & Accounting Center
- Micro-Tools Manufacturing
- Printed Circuit Board Drill Manufacturing
- Micro-Tools & PCB Sales & Customer Service Center

Steel Tool Holder Manufacturing

- Indexable Drills
- Milling End Mills & Face Mills
- Boring Bars
- Turning and Grooving Holders
- API Ring Groovers

KPTI North American HQ

- Indexable Insert Manufacturing
- North American Tech Center
- North American Sales, Marketing & Customer Service Center

KPTI

Manufactured Products



Steel Toolholders for Milling, Turning, Grooving, Threading and Drilling Metal



Indexable metal cutting inserts made of carbide, ceramic, cermet, Cubic Boron Nitride, and Polycrystalline diamond



Solid carbide cutting tools for tight tolerance and micro-diameter metal cutting applications

KPTI Markets Served



Automotive



Aerospace



Medical



Printed Circuit Board



Power Generation

Explore the Many Ways to Save with the Kyocera 2016 Summer / Fall Promo Pack

In 2016 Kyocera Precision Tools, Inc. is offering more ways than ever to advance your productivity while also reducing your tooling costs. With our wide array of indexable and solid round cutting tools, we strive to be your primary source for high-quality, cost-effective solutions to all of your metal cutting needs. Read below for our latest cost-savings opportunities in the Aerospace, Automotive, and Medical & Dental industries.

To learn more about KPTI, please visit www.kyoceraprecisiontools.com.

AEROSPACE SOLUTIONS

PR13-Series Turning Grades for Heat-Resistant Alloys

BUY 20, GET 10 FREE

RAD-6 Radius Milling Cutter

MFH-Raptor High Feed Milling Cutter

MFH-Mini Small Diameter High Feed Milling Cutter

COST-EFFICIENT KITS

Series 105 Micro-Drills

Series MR Micro-Reamers

BUY 10, GET 5 FREE

AUTOMOTIVE SOLUTIONS

CA45-Series Turning Grades for Cast Iron

BUY 20, GET 10 FREE

MFK Cast Iron Milling Cutter

MFH-Raptor High Feed Milling Cutter

MFH-Mini Small Diameter High Feed Milling Cutter

COST-EFFICIENT KITS

Magic Drill DRA Modular Drill with Replaceable Tips

COST-EFFICIENT KITS

GBA 3-Edge Grooving System

FREE HOLDER WITH
PURCHASE OF 10 INSERTS

Series 226 Micro-Drills

Series MBE Boring Bars

BUY 10, GET 5 FREE

MEDICAL & DENTAL SOLUTIONS

Round Shank Sub-Spindle Holder Kits

COST-EFFICIENT KITS

TITAN-AX Solid End Mills

Ball Nose End Mills

Series 98M Micro Thread Mills

BUY 10, GET 5 FREE

How to Order

We sell our high-performance lineup of indexable and solid round cutting tools through our North American Distribution Partners. When placing an order for items in this Promo Pack, please reference the promo code provided.

To locate an Authorized Kyocera Distributor, please visit www.kyoceraprecisiontools.com/locate

PR13-Series

Turning Grades for Heat-Resistant Alloys

PVD Coated Carbide for Nickel-based, Iron-based, and Cobalt-based Heat-Resistant Alloys



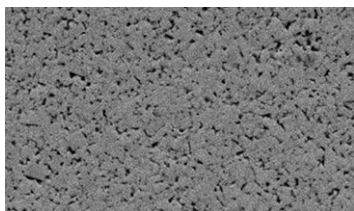
BUY 20 INSERTS, GET 10 FREE

Inserts must be chosen from available stock standard items. All 30 inserts must be the same.

Promo Code: **KYO-PR13-FREE**

1 Special Carbide Substrates

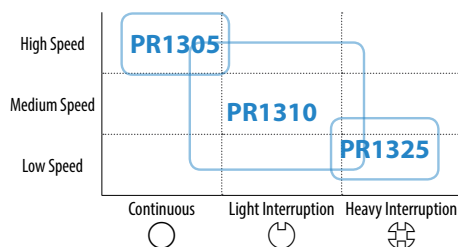
The PR13-Series grades for heat-resistant alloys have excellent fracture resistance and stabilization.



A uniform grain structure provides superior thermal shock resistance and hardness stability

Insert Grade	Application
PR1305	Continuous / Finishing
PR1310	Mid to High-Speed Machining / Light Interruption
PR1325	Interrupted / Roughing

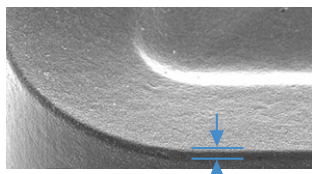
PR13-Series Application Range



2 Low Cutting Forces for Reduced Chattering Improve Performance

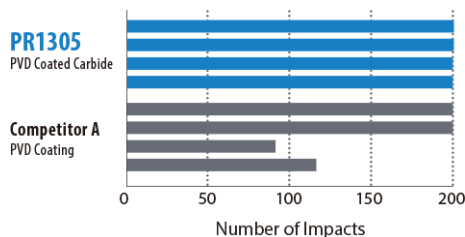
The Fine Edge Treatment (FET) edge preparation of the PR13-Series improves cutting edge condition and wear resistance.

Large rake angle and minimal honing controls burrs and notching and improves surface finish



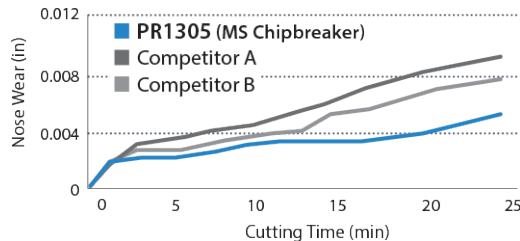
Improved cutting edge condition by Fine Edge Treatment (FET) technology

PR1305 Cutting Performance



Interrupted (External) - Internal Evaluation
Cutting Conditions: $V_c = 150$ sfm, $D.O.C. = 0.010"$, $f = 0.006$ ipr,
Workpiece Material: Inconel 718, Insert: CNMG432MS PR1305

PR1305 Wear Resistance



Continuous (External) - Internal Evaluation
Cutting Conditions: $V_c = 150$ sfm, $D.O.C. = 0.010"$, $f = 0.006$ ipr,
Workpiece Material: Inconel 718, Insert: CNMG432MS PR1305

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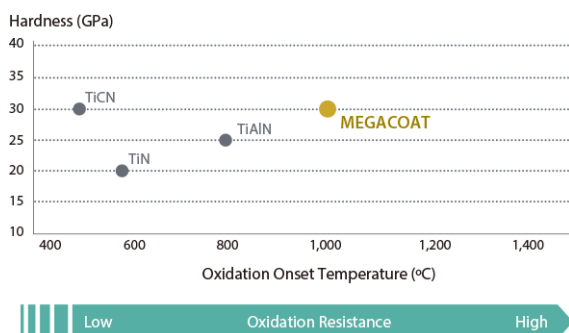
To locate a distributor visit www.kyoceraprecisiontools.com/locate. Prices Shown Valid in U.S. Only.

3

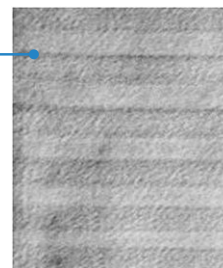
MEGACOAT Coating Technology

Stabilized turning operations and long tool life with Kyocera's special MEGACOAT coating layer.

MEGACOAT NANO protects against wear and fracturing with its high hardness (30GPa) and superior oxidation resistance (oxidation temperature: 1,000°C).



MEGACOAT
Layer Structure



Case Studies

INCONEL® 718

Aircraft Parts (Ring)

Vc = 125 sfm
D.O.C. = 0.039"
0.008 ipr
Wet
CNMG432TK PR1305



Tool Life

PR1305

10 pcs/edge

Tool Life
Better
Wear

Competitor A

10 pcs/edge

After 10 pieces, the PR1305 insert showed better wear resistance than Competitor A which allowed for continued machining.



PR1305



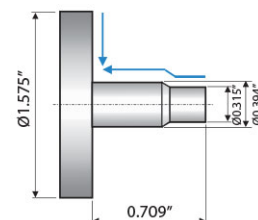
Competitor B

(User Evaluation)

INCONEL® 718

Stator

Vc = 125 sfm
D.O.C. = 0.020"
0.008 ipr
Wet
WNMG432MU PR1310



Tool Life

PR1305

30-40 pcs/edge

Tool Life
2X

Competitor B

15-20 pcs/edge

Kyocera showed 2 times longer tool life than Competitor B.

(User Evaluation)

RAD-6 (MRX)

6-Edge Radius Milling Cutter

Low Cutting Forces

Sharp cutting with lower cutting forces due to steep rake angle

Superior Fracture Resistance

Thick edge and stable clamping due to unique insert face design

Advanced Coating Technology

MEGACOAT Coating technology increases tool life when machining difficult-to-cut materials

MEGACOAT NANO

PR1535

First Choice for Titanium and
Austenitic Stainless Steel

CVD Coated Carbide

CA6535

First Choice For Heat-Resistant Alloys and
Martensitic Stainless Steel



MRX Face Mill Kits

Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter, Chipbreaker, and Grade

Promo Code: KYO-MRX-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See 📄 Page 7	Grades (Pick 1)	Kit Option	
						Kit Insert Qty.	U.S. Kit Price
Face Mills	MRX 2000R-10-6T	2.000"	6	RPMT10T3M0ER-GM (M-Class General Purpose)	PR1535 Titanium & Precipitation Hardened Stainless Steel CA6535 Heat-Resistant Alloys	10	\$359.00
	MRX 2000R-12-5T	2.000"	5	RPMT1204M0ER-GM (M-Class General Purpose)		10	\$339.00
	MRX 3000R-12-6T	3.000"	6			10	\$399.00
	MRX 2500R-16-5T	2.500"	5	RPMT1605M0ER-GM (M-Class General Purpose)		10	\$389.00
	MRX 3000R-16-6T	3.000"	6			10	\$419.00
	MRX 4000R-16-7T	4.000"	7			10	\$509.00

*GH Chipbreaker is only available in grade PR1525

**RPMW style only available in grade PR1525 and PR1535

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MRX End Mill Kits

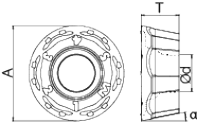
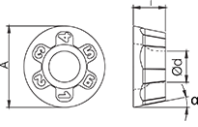
Kits Include (1) Cutter and (10) Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MRX-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Kit Option	
						Kit Insert Qty.	U.S. Kit Price
End Mills	MRX 0625-W625-08-2T	0.625"	2	RDMT0803M0ER-GM (M-Class General Purpose)	PR1535 Titanium & Precipitation Hardened Stainless Steel CA6535 Heat-Resistant Alloys	10	\$209.00
	MRX 0750-W750-08-2T	0.750"	2			10	\$219.00
	MRX 1000-W100-08-4T	1.000"	4			10	\$279.00
	MRX 1000-W100-10-3T	1.000"	3	RPMT10T3M0ER-GM (M-Class General Purpose)		10	\$259.00
	MRX 1500-W125-12-4T	1.500"	4	RPMT1204M0ER-GM (M-Class General Purpose) RPMW1204M0TN (M-Class Heavy Milling)		10	\$359.00
	MRX 1500-W125-16-2T	1.500"	2	RPMT1605M0ER-GM (M-Class General Purpose)		10	\$319.00
	MRX 2000-W150-16-4T	2.000"	4	RPMW1605M0TN (M-Class Heavy Milling)		10	\$369.00

*GH Chipbreaker is only available in grade PR1525

**RPMW style only available in grade PR1535

RAD-6 (MRX) Inserts

Usage Classification		P	Carbon Steel / Alloy Steel							Applicable Toolholder	
			Mold Steel								
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice ■ Finishing / 1st Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)		M	Austenitic Stainless Steel					★			
			Martensitic Stainless Steel					☆	★		
		K	Gray Cast Iron								
			Ductile Cast Iron								
		S	Heat Resistant Alloy (Ni-base)					☆	★		
Titanium Alloy (Ti-6Al-4V)					★						
		H	Hard Materials								
Insert		Part Number		Dimensions (in)				Angle	MEGACOAT NANO	CVD Coating	
				ØA	T	Ød	rε	α	PR1535	CA6535	
 General Purpose (M-Class)		RDMT 0803M0ER-GM		0.315 (8mm)	0.125	0.118	0.157	15°	●	●	MRX...-08
		RPMT 10T3M0ER-GM		0.394 (10mm)	0.156	0.138	0.197	11°	●	●	MRX...-10
		1204M0ER-GM		0.472 (12mm)	0.187	0.181	0.236	11°	●	●	MRX...-12
		1605M0ER-GM		0.630 (16mm)	0.219	0.228	0.315	11°	●	●	MRX...-16
 Flat Top (Heavy Milling)		RPMW 1204M0TN		0.472 (12mm)	0.187	0.181	0.236	11°	●		MRX...-12
		1605M0TN		0.630 (16mm)	0.219	0.228	0.315	11°	●		MRX...-16

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MFH-RAPTOR

Anti-Vibration Design for High Feed Milling Applications

High Feed with Less Vibration

Offering a variety of options with 3 different insert designs

Higher Productivity

Available for ramping and helical milling

Advanced Coating Technology

MEGACOAT Coating technology increases tool life when machining difficult-to-cut materials



MEGACOAT NANO
PR1535

First Choice for Titanium and
Austenitic Stainless Steel

CVD Coated Carbide
CA6535

First Choice For Heat-Resistant Alloys and
Martensitic Stainless Steel



MFH Face Mill Kits

Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter, Chipbreaker, and Grade

Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See 📄 Page 9	Chipbreaker (Pick 1)	Grades (Pick 1)	Kit Option	
							Kit Insert Qty.	U.S. Kit Price
Face Mills	MFH 2000R-10-4T	2.000"	4	SOMT100420ER	GM General Purpose LD Large Depths of Cut FL Full Profile	PR1535 Titanium & Precipitation Hardened Stainless Steel CA6535 Heat-Resistant Alloys	10	\$389.00
	MFH 2000R-10-5T	2.000"	5				10	\$389.00
	MFH 2500R-10-5T	2.500"	5				10	\$399.00
	MFH 2500R-10-6T	2.500"	6				10	\$419.00
	MFH 3000R-10-7T	3.000"	7				10	\$419.00
	MFH 2000R-14-4T	2.000"	4	SOMT140520ER			10	\$379.00
	MFH 2500R-14-4T	2.500"	4				10	\$399.00
	MFH 2500R-14-5T	2.500"	5				10	\$409.00
	MFH 3000R-14-5T	3.000"	5				10	\$429.00
	MFH 3000R-14-6T	3.000"	6				10	\$449.00
	MFH 4000R-14-6T	4.000"	6				10	\$489.00
	MFH 4000R-14-7T	4.000"	7				10	\$509.00
	MFH 5000R-14-7T	5.000"	7				10	\$599.00
	MFH 6000R-14-8T	6.000"	8				10	\$919.00

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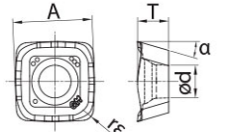
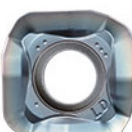
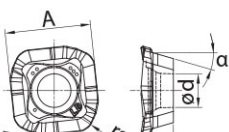
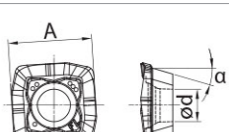


MFH End Mill Kits

Kits Include (1) Cutter and (10) Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Chipbreaker (Pick 1)	Grades (Pick 1)	Kit Option	
							Kit Insert Qty.	U.S. Kit Price
End Mills Standard Shank (Weldon)	MFH 1000-W100-10-2T	1.000"	2	SOMT100420ER	GM General Purpose	PR1535 Titanium & Precipitation Hardened Stainless Steel	10	\$219.00
	MFH 1250-W125-10-2T	1.250"	2				10	\$249.00
	MFH 1250-W125-10-3T	1.250"	3				10	\$259.00
	MFH 1500-W150-10-3T	1.500"	3				10	\$289.00
	MFH 1500-W150-10-4T	1.500"	4				10	\$339.00
End Mills Long Shank (Cylindrical)	MFH 1000-S100-10-2T-8	1.000"	2		LD Large Depths of Cut	CA6535 Heat-Resistant Alloys	10	\$239.00
	MFH 1250-S125-10-2T-8	1.250"	2				10	\$269.00
	MFH 1500-S125-10-4T-10	1.500"	4				10	\$339.00

MFH-Raptor Inserts

Usage Classification		P	Carbon Steel / Alloy Steel							
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice ■ Finishing / 1st Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)		M	Austenitic Stainless Steel					★		
			Martensitic Stainless Steel					☆	★	
		K	Gray Cast Iron							
			Ductile Cast Iron							
		S	Heat Resistant Alloy (Ni-base)					☆	★	
			Titanium Alloy (Ti-6Al-4V)					★		
		H	Hard Materials							
Insert		Part Number	Dimensions (in)					Angle	MEGACOAT NANO PR1535	CVD Coating CA6535
			A	T	Ød	Z	rε	α		
 General Purpose		SOMT 100420ER-GM	0.406	0.180	0.181	-	0.079	16°	●	●
		SOMT 140520ER-GM	0.557	0.219	0.228	-	0.079	16°	●	●
 Large D.O.C.		SOMT 100420ER-LD	0.411	0.180	0.181	0.035	0.079	16°	●	●
		SOMT 140520ER-LD	0.581	0.219	0.228	0.063	0.079	16°	●	●
 Wiper Edge		SOMT 100420ER-FL	0.411	0.180	0.181	0.055	0.079	16°	●	●
		SOMT 140514ER-FL	0.574	0.219	0.228	0.122	0.055	16°	●	●

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MFH-RAPTOR-Mini

Small Diameter High Feed End Mills & Face Mills

Expanded Lineup

New MFH-Mini face mills now available in 1.500" and 2.000" diameters

Higher Productivity

Double-sided 4-edge inserts will save money and increase productivity

Advanced Coating Technology

MEGACOAT Coating technology increases tool life when machining difficult-to-cut materials



MEGACOAT NANO

PR1535

First Choice for Titanium and
Austenitic Stainless Steel

CVD Coated Carbide

CA6535

First Choice For Heat-Resistant Alloys and
Martensitic Stainless Steel



MFH-Mini End Mill Kits

Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter and Grade

Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See 📄 Page 11	Grades (Pick 1)	Kit Option	
						Kit Insert Qty.	U.S. Kit Price
Weldon Shank	MFH 0625-W625-03-2T-3	0.625	2	LOGU30310ER-GM	PR1535 Titanium & Precipitation Hardened Stainless Steel CA6535 Heat-Resistant Alloys	10	\$219.00
	MFH 0750-W750-03-3T-4	0.750	3			10	\$259.00
	MFH 1000-W100-03-4T47	1.000	4			10	\$269.00
	MFH 1000-W100-03-5T47	1.000	5			10	\$289.00
	MFH 1250-W125-03-5T-5	1.250	5			10	\$299.00
	MFH 1250-W125-03-6T-5	1.250	6			10	\$309.00
Long Shank	MFH 0625-S625-03-2T-6	0.625	2			10	\$239.00
	MFH 0750-S750-03-3T65	0.750	3			10	\$279.00
	MFH 1000-S100-03-4T-7	1.000	4			10	\$299.00
	MFH 1250-S125-03-5T-8	1.250	5			10	\$309.00

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NEW



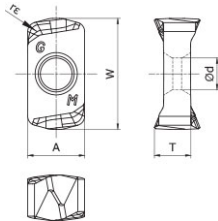
MFH-Mini Face Mill Kits

Kits Include (1) Cutter and (10) Inserts.
Choose your Cutter and Grade

Promo Code: KYO-MFH-KIT

Cutter Description	Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
MFH 1500R-03-5T	1.500"	5	LOG030310ERGM	PR1535 Titanium & Precipitation Hardened Stainless Steel	10	\$339.00
MFH 1500R-03-6T	1.500"	6			10	\$359.00
MFH 2000R-03-8T	2.000"	8		CA6535 Heat-Resistant Alloys	10	\$479.00

MFH-Raptor Inserts

Usage Classification		P	Carbon Steel / Alloy Steel							
			Mold Steel							
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice ■ Finishing / 1st Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)	M	Austenitic Stainless Steel		★						
		Martensitic Stainless Steel		☆	★					
	K	Gray Cast Iron								
		Ductile Cast Iron								
	S	Heat Resistant Alloy (Ni-base)		☆	★					
		Titanium Alloy (Ti-6Al-4V)		★						
		H	Hard Materials							
Insert		Part Number		Dimensions (in)			MEGACOAT NANO	CVD Coating		
				A	T	Ød	Z	rε	PR1535	CA6535
 General Purpose		LOGU 030310ER-GM		0.244	0.156	0.136	0.469	0.039	●	●

● : U.S. Stock

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MILLING KITS FOR
TITANIUM, HBSA & STAINLESS

MICRO DRILLS &
MICRO REAMERS

MILLING KITS FOR
STEEL & CAST IRON

DRA MFG CO DRILL
MODULAR DRILL KITS

GSA 3-EDGE
GROOVING SYSTEM

MICRO DRILLS &
MICRO BORING BARS

ROUND SHANK
SUB SPINDLE HOLDER KITS

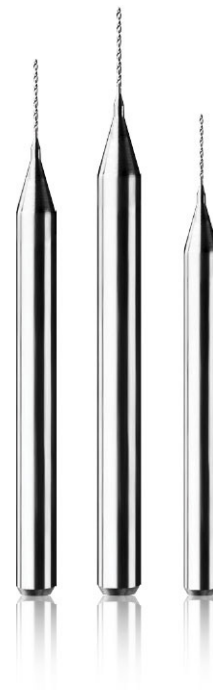
SOLID END MILLS, BALL NOSE END
MILLS, & MICRO THREAD MILLS

Series 105 Micro Drills

Solid Carbide Coated and Uncoated

1/8" Shank with Diameters from 0.0040" - 0.0200"

- Mirror Surface Finish
- Sub Micron Grain Carbide
- Standard and Extended Flute Length Available
- Great for CFRP, Fiber Glass, and Composites
- Industry Leading TIGHT Diameter Tolerance, Even More Precise than h6



BUY 10, GET 5 FREE

Items can be Mixed-and-Matched Among Available Series 105 Drills

*Promo Code: **KYO-105-FREE***

View the entire lineup of Series 105 Micro Drills at:

www.kyoceraprecisiontools.com/micro/drilling/micro-drills.html



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To locate a distributor visit www.kyoceraprecisiontools.com/locate. Prices Shown Valid in U.S. Only.

MR-Series Micro Reamers

4-Flute & 6-Flute Left-hand Spiral, Right-hand Cutting

3mm, 4mm, 6mm, 8mm, 10mm Shank
Diameters from 0.20mm - 8.03mm

- Mirror Surface Finish
- Sub Micron Grain Carbide
- For Reaming Through Holes
- Great for CFRP, Fiber Glass, and Composites
- Ask About Our Custom One Shot Reamers



BUY 10, GET 5 FREE

Items can be Mixed-and-Matched Among Available Series MR Reamers
Promo Code: **KYO-MR-FREE**

View the entire lineup of MR-Series Micro Reamers at:

www.kyoceraprecisiontools.com/micro/reaming

PR-3-SERIES
HRSA TURNING GRADE

MILLING KITS FOR
TITANIUM, HRSA & STAINLESS

MICRO DRILLS &
MICRO REAMERS

MILLING KITS FOR
STEEL & CAST IRON

DRA MGC DRILL
MODULAR DRILL KITS

G&A 3-EDGE
GROOVING SYSTEM

MICRO DRILLS &
MICRO BORING BARS

ROUND SHANK
SUB SPINDLE HOLDER KITS

SOLID END MILLS, BALL NOSE END
MILLS & MICRO THREAD MILLS

KYOCERA Precision Tools, Inc.

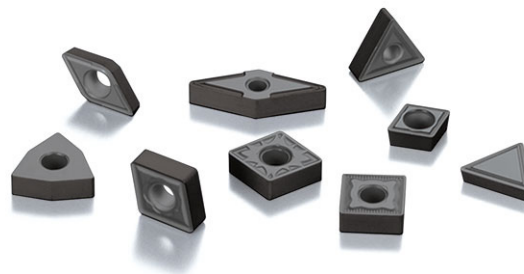
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Official Website | www.kyoceraprecisiontools.com • Distributor Website | mykpti.kyocera.com

CA45-Series

Turning Grades for Gray and Nodular Cast Iron

CVD Coated Carbide with improved coating adhesion due to Bright Black (BB) coating technology resulting in longer and more consistent tool life.



BUY 20 INSERTS, GET 10 FREE

Inserts must be chosen from available stock standard items. All 30 inserts must be the same.

*Promo Code: **KYO-CA45-FREE***

**Inserts purchased at standard distributor discount*

CA4515

- First choice for stability
- Wide application range for continuous to heavy interrupted cutting

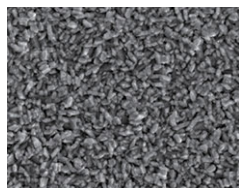
CA4505

- Suitable for high-speed and efficient cutting
- Improved tool life through superior wear resistance

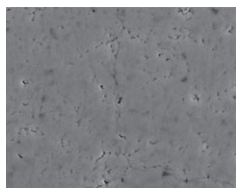
1

Special Top Coating

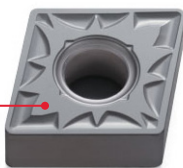
The innovative surface treatment applied to the top layer of the BB Coating prevents chip adhesion.



Un-Processed



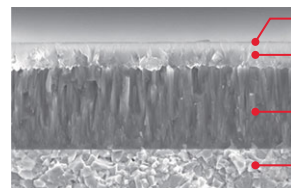
PICA Process



2

Special Coating Structure for Gray / Nodular Cast Iron

Long and stable tool life is attained through the use of a multi-layer coating structure with a dedicated substrate for cast iron turning.



- Special Top Coating
- α - Aluminum Coating
- Ultra Fine TiCN
- Carbide Substrate

PICA Technology: Promotes a smooth insert surface and reduces built-up-edge

Improved resistance to delamination (coating peeling) and improved chipping resistance

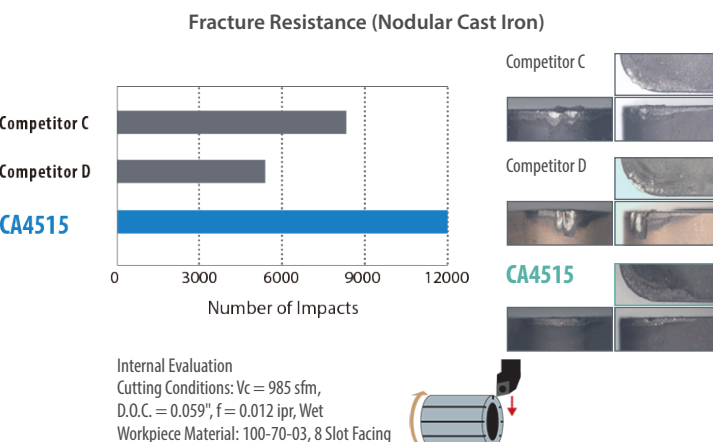
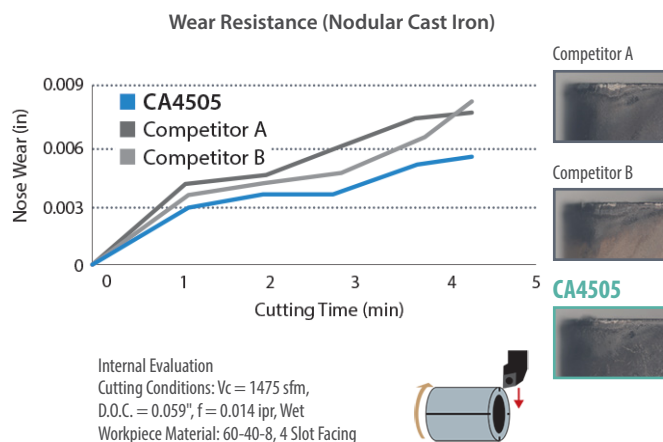
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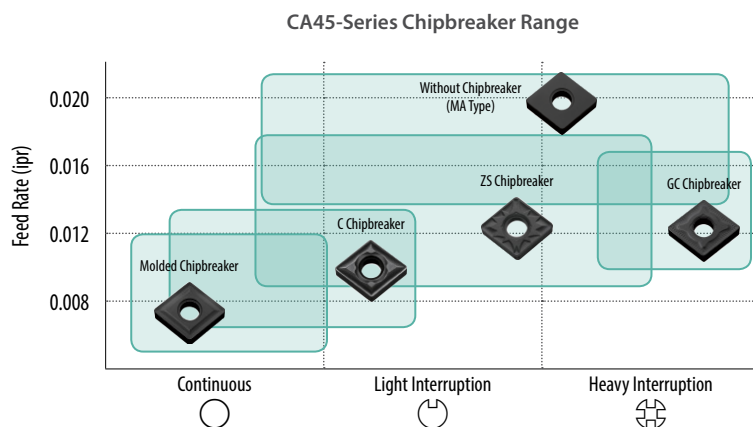
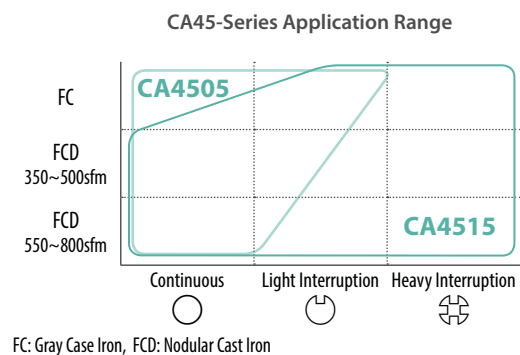
3

Excellent Wear and Fracture Resistance



4

Wide Application Range with Various Chipbreakers



MFK

High Efficiency Multi-Edge Mill Cutter for Cast Iron

Low Cutting Forces

Prevent chattering with helical cutting edge design

Tough and Reliable Insert Construction

Dual angle edge design prevents fracturing and creates a smooth surface finish

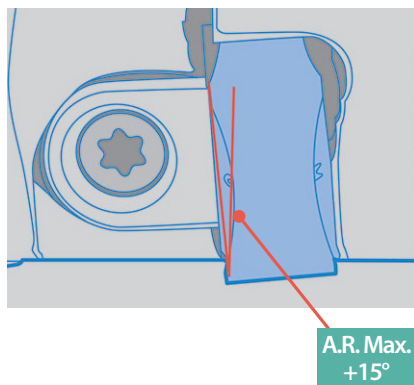
Long Tool Life and Stable Machining

Insert grade CA420M features advanced CVD coating technology

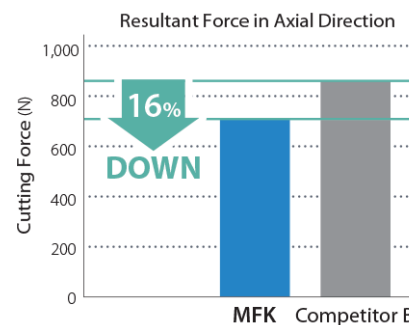
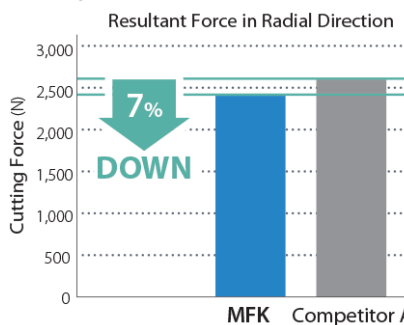


1 Low Cutting Forces Prevent Chattering

Low Cutting Forces with Helical Cutting Edge Design



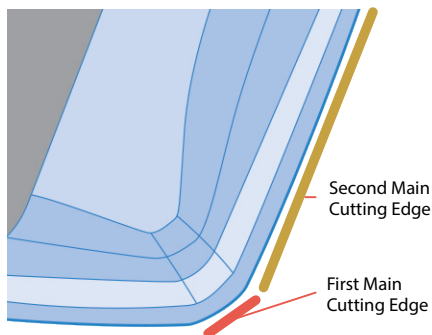
Cutting Force Comparison (Internal Evaluation)



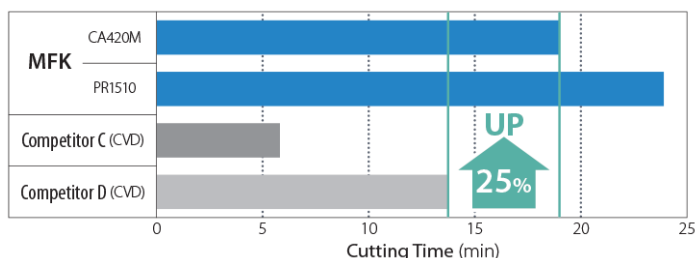
Cutting Conditions: $V_c = 590$ sfm, $f_z = 0.012$ ipt, $a_p \times a_e = 0.118'' \times 2.441''$, Dry Workpiece: Nodular Cast Iron (80-60-03), Ø5.000"

2 Tough and Reliable Insert Construction Prevents Fracturing

Tough and Reliable Dual Angle Edge Design



Fracture Resistance Comparison (Internal Evaluation)



Cutting Conditions: $V_c = 980$ sfm, $f_z = 0.020$ ipt, $a_p = 0.079''$, Wet Workpiece: Nodular Cast Iron (65-45-12) with 4 Bores

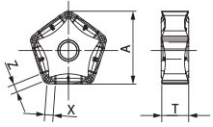
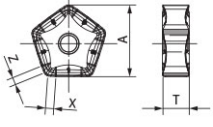
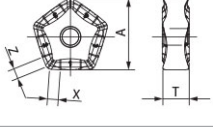


MFK Face Mill Kits

Kits Include (1) Cutter and the Specified Number of Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFK-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Kit Option	
						Kit Insert Qty.	U.S. Kit Price
Face Mills	MFK3000R-11-8T	3.0"	8	GM (General Purpose) GH (Heavy Duty) GL (Finishing)	CA420M (Long Tool Life) PR1525 (Fracture Resistance) PR1510 (Stable Machining)	10	\$529.00
	MFK3000R-11-10T	3.0"	10			10	\$599.00
	MFK4000R-11-10T	4.0"	10			10	\$619.00
	MFK4000R-11-14T	4.0"	14			20	\$839.00
	MFK5000R-11-12T	5.0"	12			20	\$829.00
	MFK5000R-11-18T	5.0"	18			20	\$1,049.00
	MFK6000R-11-16T	6.0"	16			20	\$1,049.00
	MFK6000R-11-22T	6.0"	22			30	\$1,299.00

MFK Inserts

Insert		Description	Dimensions (in)				CVD Coated	MEGACOAT NANO	
			A	T	X	Z		CA420M	PR1510 PR1525
		PNMG 1106XNEN-GM	0.678	0.250	0.079	0.079	●	●	●
		PNMG 1106XNEN-GH	0.678	0.250	0.079	0.079	●	●	●
		PNEG 1106XNEN-GL	0.676	0.250	0.102	0.102	●	●	●

● : U.S. Stock



Long Tool Life
(1st Recommendation)
CA420M



Stable Machining
PR1510



Fracture Resistance
PR1525

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MFH-RAPTOR

Anti-Vibration Design for High Feed Milling Applications

High Feed with Less Vibration

Offering a variety of options with 3 different insert designs

Higher Productivity

Available for ramping and helical milling

Advanced Coating Technology

MEGACOAT Coating technology increases tool life when machining difficult-to-cut materials



MEGACOAT NANO
PR1525

For Steel

MEGACOAT NANO
PR1510

For Cast Iron



MFH Face Mill Kits

Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter, Chipbreaker, and Grade

Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See 📄 Page 19	Chipbreaker (Pick 1)	Grades (Pick 1)	Kit Option	
							Kit Insert Qty.	U.S. Kit Price
Face Mills	MFH 2000R-10-4T	2.000"	4	SOMT100420ER	GM General Purpose LD Large Depths of Cut FL Full Profile	PR1510 Gray and Nodular Cast Iron PR1525 Steel	10	\$389.00
	MFH 2000R-10-5T	2.000"	5				10	\$389.00
	MFH 2500R-10-5T	2.500"	5				10	\$399.00
	MFH 2500R-10-6T	2.500"	6				10	\$419.00
	MFH 3000R-10-7T	3.000"	7				10	\$419.00
	MFH 2000R-14-4T	2.000"	4	SOMT140520ER			10	\$379.00
	MFH 2500R-14-4T	2.500"	4				10	\$399.00
	MFH 2500R-14-5T	2.500"	5				10	\$409.00
	MFH 3000R-14-5T	3.000"	5				10	\$429.00
	MFH 3000R-14-6T	3.000"	6				10	\$449.00
	MFH 4000R-14-6T	4.000"	6				10	\$489.00
	MFH 4000R-14-7T	4.000"	7				10	\$509.00
	MFH 5000R-14-7T	5.000"	7				10	\$599.00
	MFH 6000R-14-8T	6.000"	8				10	\$919.00

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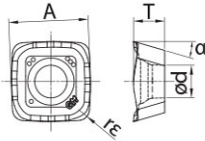
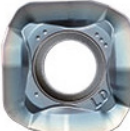
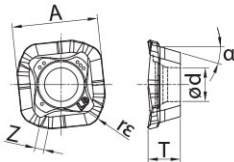
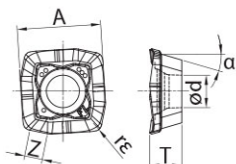


MFH End Mill Kits

Kits Include (1) Cutter and (10) Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Chipbreaker (Pick 1)	Grades (Pick 1)	Kit Option	
							Kit Insert Qty.	U.S. Kit Price
End Mills Standard Shank (Weldon)	MFH 1000-W100-10-2T	1.000"	2	SOMT100420ER	GM General Purpose LD Large Depths of Cut FL Full Profile	PR1510 Gray and Nodular Cast Iron PR1525 Steel	10	\$219.00
	MFH 1250-W125-10-2T	1.250"	2				10	\$249.00
	MFH 1250-W125-10-3T	1.250"	3				10	\$259.00
	MFH 1500-W150-10-3T	1.500"	3				10	\$289.00
	MFH 1500-W150-10-4T	1.500"	4				10	\$339.00
End Mills Long Shank (Cylindrical)	MFH 1000-S100-10-2T-8	1.000"	2				10	\$239.00
	MFH 1250-S125-10-2T-8	1.250"	2				10	\$269.00
	MFH 1500-S125-10-4T-10	1.500"	4				10	\$339.00

MFH-Raptor Inserts

Usage Classification		P	Carbon Steel / Alloy Steel			★							
			Mold Steel			★							
		M	Austenitic Stainless Steel			☆							
			Martensitic Stainless Steel										
		K	Gray Cast Iron		★								
			Ductile Cast Iron		★								
		S	Heat Resistant Alloy (Ni-base)										
			Titanium Alloy (Ti-6Al-4V)										
		H	Hard Materials			□							
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice ■ Finishing / 1st Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)		Insert		Part Number		Dimensions (in)					Angle	MEGACOAT NANO	
						A	T	Ød	Z	rε	α	PR1510	PR1525
 General Purpose		SOMT 100420ER-GM		0.406	0.180	0.181	-	0.079	16°	●	●		
		SOMT 140520ER-GM		0.557	0.219	0.228	-	0.079	16°	●	●		
 Large D.O.C.		SOMT 100420ER-LD		0.411	0.180	0.181	0.035	0.079	16°	●	●		
		SOMT 140520ER-LD		0.581	0.219	0.228	0.063	0.079	16°	●	●		
 Wiper Edge		SOMT 100420ER-FL		0.411	0.180	0.181	0.055	0.079	16°	●	●		
		SOMT 140514ER-FL		0.574	0.219	0.228	0.122	0.055	16°	●	●		

● : U.S. Stock

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PR13-SERIES
HBSA TURNING GRADE

MILLING KITS FOR
TITANIUM, HBSA & STAINLESS

MICRO DRILLS &
MICRO REAMERS

MILLING KITS FOR
STEEL & CAST IRON

DRA MFG DRILL
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MICRO DRILLS &
MICRO BORING BARS

ROUND SHANK
SUB SPINDLE HOLDER KITS

SOLID END MILLS, BALL NOSE END
MILLS, & MICRO THREAD MILLS

MFH-RAPTOR-Mini

Small Diameter High Feed End Mills & Face Mills

Expanded Lineup

New MFH-Mini face mills now available in 1.500" and 2.000" diameters

Higher Productivity

Double-sided 4-edge inserts will save money and increase productivity

Advanced Coating Technology

MEGACOAT Coating technology increases tool life when machining difficult-to-cut materials



MEGACOAT NANO
PR1525

For Steel

MEGACOAT NANO
PR1510

For Cast Iron



MFH-Mini End Mill Kits

Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter and Grade

Promo Code: KYO-MFH-KIT

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Page 21	Grades (Pick 1)	Kit Option	
						Kit Insert Qty.	U.S. Kit Price
Weldon Shank	MFH 0625-W625-03-2T-3	0.625	2	LOGU30310ER-GM	PR1510 Gray and Nodular Cast Iron PR1525 Steel	10	\$219.00
	MFH 0750-W750-03-3T-4	0.750	3			10	\$259.00
	MFH 1000-W100-03-4T47	1.000	4			10	\$269.00
	MFH 1000-W100-03-5T47	1.000	5			10	\$289.00
	MFH 1250-W125-03-5T-5	1.250	5			10	\$299.00
	MFH 1250-W125-03-6T-5	1.250	6			10	\$309.00
Long Shank	MFH 0625-S625-03-2T-6	0.625	2			10	\$239.00
	MFH 0750-S750-03-3T65	0.750	3			10	\$279.00
	MFH 1000-S100-03-4T-7	1.000	4			10	\$299.00
	MFH 1250-S125-03-5T-8	1.250	5			10	\$309.00

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MFH-Mini Face Mill Kits

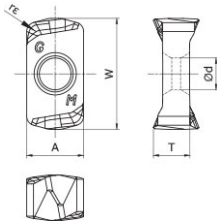
Kits Include (1) Cutter and (10) Inserts.

Choose your Cutter and Grade

Promo Code: KYO-MFH-KIT

Cutter Description	Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
MFH 1500R-03-5T	1.500"	5	LOG030310ERGM	PR1510 Gray and Nodular Cast Iron PR1525 Steel	10	\$339.00
MFH 1500R-03-6T	1.500"	6			10	\$359.00
MFH 2000R-03-8T	2.000"	8			10	\$479.00

MFH-Raptor Inserts

Usage Classification		P	Carbon Steel / Alloy Steel			★				
			Mold Steel			★				
		M	Austenitic Stainless Steel			☆				
			Martensitic Stainless Steel							
		K	Gray Cast Iron		★					
			Ductile Cast Iron		★					
		S	Heat Resistant Alloy (Ni-base)							
			Titanium Alloy (Ti-6Al-4V)							
		H	Hard Materials			□				
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice ■ Finishing / 1st Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)		Part Number		Dimensions (in)					MEGACOAT NANO	
				A	T	Ød	Z	rε	PR1510	PR1525
 General Purpose		LOGU 030310ER-GM		0.244	0.156	0.136	0.469	0.039	●	●

● : U.S. Stock

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DRA Magic Drill Kits

High Efficiency and Low Cutting Force Modular Drill

Excellent Hole Accuracy

S-curve reduces thrust force and controls vibration

Fine Chip Breaking Even in Deep Hole Drilling Applications

Optimized chip thinning for stable chip evacuation

Long Tool Life and Stable Machining of Various Workpieces

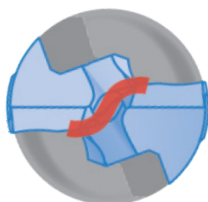
MEGACOAT NANO grade PR1535 is used to machine various materials from steel to stainless steel



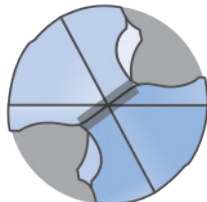
1 Low Cutting Force Design Improves Hole Accuracy

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

Cutting Edge Image



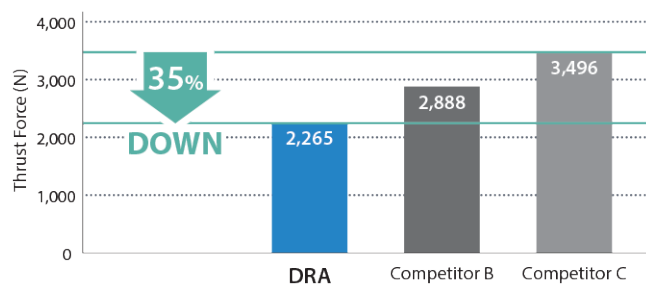
DRA



Standard Drill

Low Cutting Force Comparison

(In-house Evaluation)

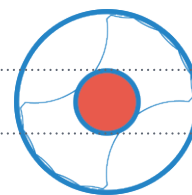


Cutting Conditions : $V_c = 390 \text{sfm}$, $f = 0.010 \text{ipr}$,
Drilling Diameter $\varnothing 0.551"$, Drilling Depth 1.772", Wet

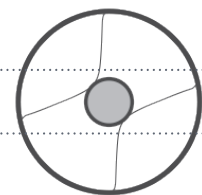
2 Optimal Web Thickness Limits Deflection

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

Web Thickness Comparison



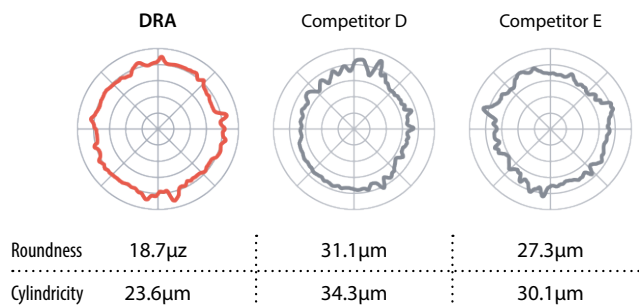
DRA



Competitor A

Roundness · Cylindricity Comparison

(In-house Evaluation)



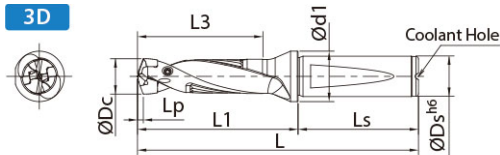
Cutting Conditions : $V_c = 390 \text{sfm}$, $f = 0.012 \text{ipr}$,
Drilling Diameter $\varnothing 0.551"$, Measurement Position 2.165", Wet Workpiece : 1049 Steel

DRA Toolholders (with Flange - 3D)

CHOOSE (1) DRILL BODY AND (2) INSERTS

Chosen inserts must fit purchased drill body but do not need to be the same.

Promo Code: **KYO-DRA-KIT**



For Lp dimension, reference insert dimension table.



Part Number	Stock	Kit Price	Dimension (in)								Applicable Insert	Spare Parts	
			ØDc		ØDs	L	L1	L3	Ls	Ød1		Clamp Screw	Wrench
			min.	max.									
SF0500-DRA080M-3	●	\$249.00	0.313	0.334	0.500	3.307	1.535	1.004	1.772	0.630	DA0794M-GM ~ DA0840M-GM	HS-2524TRP	FTP-5
SF0500-DRA085M-3	●	\$249.00	0.335	0.354		3.386	1.614	1.063			DA0850M-GM ~ DA0890M-GM		
SF0500-DRA090M-3	●	\$249.00	0.354	0.374		3.465	1.693	1.122			DA0900M-GM ~ DA0940M-GM		
SF0500-DRA095M-3	●	\$249.00	0.374	0.393		3.543	1.772	1.181			DA0950M-GM ~ DA0990M-GM		
SF0625-DRA100M-3	●	\$249.00	0.394	0.413	0.625	3.740	1.850	1.240	1.890	0.787	DA1000M-GM ~ DA1040M-GM	HS-2534TRP	
SF0625-DRA105M-3	●	\$269.00	0.413	0.433		3.819	1.929	1.299			DA1050M-GM ~ DA1090M-GM		
SF0625-DRA110M-3	●	\$269.00	0.433	0.452		3.937	2.047	1.358			DA1100M-GM ~ DA1140M-GM		
SF0625-DRA115M-3	●	\$269.00	0.453	0.472		4.016	2.126	1.417			DA1150M-GM ~ DA1190M-GM		
SF0625-DRA120M-3	●	\$269.00	0.472	0.492		4.094	2.205	1.476			DA1200M-GM ~ DA1240M-GM		
SF0625-DRA125M-3	●	\$269.00	0.492	0.511		4.173	2.283	1.535			DA1250M-GM ~ DA1290M-GM		
SF0625-DRA130M-3	●	\$269.00	0.512	0.531		4.252	2.362	1.594			DA1300M-GM ~ DA1340M-GM		
SF0625-DRA135M-3	●	\$279.00	0.531	0.551		4.331	2.441	1.654			DA1350M-GM ~ DA1390M-GM		
SF0625-DRA140M-3	●	\$279.00	0.551	0.570	0.750	4.409	2.520	1.713	1.969	0.984	DA1400M-GM ~ DA1440M-GM	HS-3048TRP	
SF0625-DRA145M-3	●	\$279.00	0.571	0.590		4.488	2.598	1.772			DA1450M-GM ~ DA1490M-GM		
SF0750-DRA150M-3	●	\$299.00	0.591	0.630		4.764	2.795	1.890			DA1500M-GM ~ DA1590M-GM		
SF0750-DRA160M-3	●	\$299.00	0.630	0.669		4.961	2.992	2.008			DA1600M-GM ~ DA1690M-GM		
SF0750-DRA170M-3	●	\$309.00	0.669	0.708	1.000	5.118	3.150	2.126	2.205	1.260	DA1700M-GM ~ DA1790M-GM	HS-4067TRP	
SF0750-DRA180M-3	●	\$339.00	0.709	0.748		5.315	3.346	2.244			DA1800M-GM ~ DA1890M-GM		
SF0750-DRA190M-3	●	\$359.00	0.748	0.787		5.472	3.504	2.362			DA1900M-GM ~ DA1990M-GM		
SF1000-DRA200M-3	●	\$419.00	0.787	0.826		5.866	3.661	2.480			DA2000M-GM ~ DA2090M-GM		
SF1000-DRA210M-3	●	\$429.00	0.827	0.866	6.024	3.819	2.598	DA2100M-GM ~ DA2150M-GM					
SF1000-DRA220M-3	●	\$429.00	0.866	0.905	6.220	4.016	2.717	DA2200M-GM ~ DA2250M-GM					
SF1000-DRA230M-3	●	\$459.00	0.906	0.944	1.000	6.378	4.173	2.835	2.205	1.260	DA2300M-GM ~ DA2381M-GM	FTP-7	
SF1000-DRA240M-3	●	\$469.00	0.945	0.984		6.535	4.331	2.953			DA2400M-GM ~ DA2450M-GM		
SF1000-DRA250M-3	●	\$509.00	0.984	1.023		6.693	4.488	3.071			DA2500M-GM ~ DA2550M-GM		

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

KYOCERA Precision Tools, Inc.

P: 800.823.7284 • F: 828.692.1344 • E: ctsales@kyocera.com

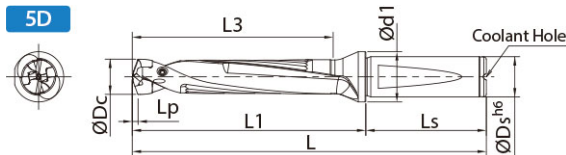
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DRA Toolholders (with Flange - 5D)

CHOOSE (1) DRILL BODY AND (2) INSERTS

Chosen inserts must fit purchased drill body but do not need to be the same.

Promo Code: **KYO-DRA-KIT**



For Lp dimension, reference insert dimension table.



Part Number	Stock	Kit Price	Dimension (in)							Applicable Insert	Spare Parts		
			ØDc		ØDs	L	L1	L3	Ls		Ød1	Clamp Screw	Wrench
			min.	max.									
SF0500-DRA080M-5	●	\$279.00	0.313	0.334	0.500	3.976	2.205	1.673	1.772	0.630	DA0794M-GM ~ DA0840M-GM	HS-2524TRP	
SF0500-DRA085M-5	●	\$279.00	0.335	0.354		4.094	2.323	1.772			DA0850M-GM ~ DA0890M-GM		
SF0500-DRA090M-5	●	\$279.00	0.354	0.374		4.213	2.441	1.870			DA0900M-GM ~ DA0940M-GM		
SF0500-DRA095M-5	●	\$279.00	0.374	0.393		4.331	2.559	1.969			DA0950M-GM ~ DA0990M-GM		
SF0625-DRA100M-5	●	\$289.00	0.394	0.413	0.625	4.567	2.677	2.067	1.890	0.787	DA1000M-GM ~ DA1040M-GM	HS-2534TRP	FTP-5
SF0625-DRA105M-5	●	\$309.00	0.413	0.433		4.685	2.795	2.165			DA1050M-GM ~ DA1090M-GM		
SF0625-DRA110M-5	●	\$309.00	0.433	0.452		4.843	2.953	2.264			DA1100M-GM ~ DA1140M-GM		
SF0625-DRA115M-5	●	\$299.00	0.453	0.472		4.961	3.071	2.362			DA1150M-GM ~ DA1190M-GM		
SF0625-DRA120M-5	●	\$309.00	0.472	0.492		5.079	3.189	2.461			DA1200M-GM ~ DA1240M-GM		
SF0625-DRA125M-5	●	\$309.00	0.492	0.511		5.197	3.307	2.559			DA1250M-GM ~ DA1290M-GM		
SF0625-DRA130M-5	●	\$309.00	0.512	0.531		5.315	3.425	2.657			DA1300M-GM ~ DA1340M-GM		
SF0625-DRA135M-5	●	\$309.00	0.531	0.551		5.433	3.543	2.756			DA1350M-GM ~ DA1390M-GM		
SF0625-DRA140M-5	●	\$309.00	0.551	0.570	0.750	5.551	3.661	2.854	1.969	0.984	DA1400M-GM ~ DA1440M-GM	HS-3048TRP	FTP-6
SF0625-DRA145M-5	●	\$309.00	0.571	0.590		5.669	3.780	2.953			DA1450M-GM ~ DA1490M-GM		
SF0750-DRA150M-5	●	\$339.00	0.591	0.630	0.750	6.024	4.055	3.150	1.969	0.984	DA1500M-GM ~ DA1590M-GM	HS-3048TRP	FTP-6
SF0750-DRA160M-5	●	\$339.00	0.630	0.669		6.299	4.331	3.346			DA1600M-GM ~ DA1690M-GM		
SF0750-DRA170M-5	●	\$349.00	0.669	0.708		6.535	4.567	3.543			DA1700M-GM ~ DA1790M-GM		
SF0750-DRA180M-5	●	\$389.00	0.709	0.748		6.811	4.843	3.740			DA1800M-GM ~ DA1890M-GM		
SF0750-DRA190M-5	●	\$409.00	0.748	0.787	1.000	7.047	5.079	3.937	2.205	1.260	DA1900M-GM ~ DA1990M-GM	HS-4067TRP	FTP-7
SF1000-DRA200M-5	●	\$479.00	0.787	0.826		7.520	5.315	4.134			DA2000M-GM ~ DA2090M-GM		
SF1000-DRA210M-5	●	\$489.00	0.827	0.866		7.756	5.551	4.331			DA2100M-GM ~ DA2150M-GM		
SF1000-DRA220M-5	●	\$489.00	0.866	0.905		8.031	5.827	4.528			DA2200M-GM ~ DA2250M-GM		
SF1000-DRA230M-5	●	\$519.00	0.906	0.944		8.268	6.063	4.724			DA2300M-GM ~ DA2381M-GM		
SF1000-DRA240M-5	●	\$539.00	0.945	0.984		8.504	6.299	4.921			DA2400M-GM ~ DA2450M-GM		
SF1000-DRA250M-5	●	\$579.00	0.984	1.023		8.740	6.535	5.116			DA2500M-GM ~ DA2550M-GM		

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

All 2016 Summer / Fall Offers Valid through December 31, 2016

All promo items are available exclusively through Authorized North American Kyocera Precision Tool Distributors. Please use specified Promo Code when placing orders.

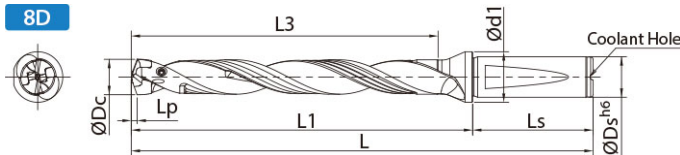
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DRA Toolholders (with Flange - 8D)

CHOOSE (1) DRILL BODY AND (2) INSERTS

Chosen inserts must fit purchased drill body but do not need to be the same.

Promo Code: **KYO-DRA-KIT**



For Lp dimension, reference insert dimension table.



Part Number	Stock	Kit Price	Dimension (in)							Applicable Insert	Spare Parts		
			ØDc		ØDs	L	L1	L3	Ls		Ød1	Clamp Screw	Wrench
			min.	max.									
SF0500-DRA080M-8	●	\$329.00	0.313	0.334	0.500	4.961	3.189	2.677	1.772	0.630	DA0794M-GM ~ DA0840M-GM	HS-2524TRP	FTP-5
SF0500-DRA085M-8	●	\$329.00	0.335	0.354		5.157	3.386	2.835			DA0850M-GM ~ DA0890M-GM		
SF0500-DRA090M-8	●	\$329.00	0.354	0.374		5.315	3.543	2.992			DA0900M-GM ~ DA0940M-GM		
SF0500-DRA095M-8	●	\$329.00	0.374	0.393		5.512	3.740	3.150			DA0950M-GM ~ DA0990M-GM		
SF0625-DRA100M-8	●	\$339.00	0.394	0.413	0.625	5.787	3.898	3.307	1.890	0.787	DA1000M-GM ~ DA1040M-GM	HS-2534TRP	
SF0625-DRA105M-8	●	\$359.00	0.413	0.433		5.984	4.094	3.465			DA1050M-GM ~ DA1090M-GM		
SF0625-DRA110M-8	●	\$359.00	0.433	0.452		6.181	4.291	3.622			DA1100M-GM ~ DA1140M-GM		
SF0625-DRA115M-8	●	\$359.00	0.453	0.472		6.378	4.488	3.780			DA1150M-GM ~ DA1190M-GM		
SF0625-DRA120M-8	●	\$369.00	0.472	0.492		6.535	4.646	3.937			DA1200M-GM ~ DA1240M-GM		
SF0625-DRA125M-8	●	\$359.00	0.492	0.511		6.732	4.843	4.094			DA1250M-GM ~ DA1290M-GM		
SF0625-DRA130M-8	●	\$369.00	0.512	0.531		6.890	5.000	4.252			DA1300M-GM ~ DA1340M-GM		
SF0625-DRA135M-8	●	\$359.00	0.531	0.551		7.087	5.197	4.409			DA1350M-GM ~ DA1390M-GM		
SF0625-DRA140M-8	●	\$359.00	0.551	0.570	0.750	7.244	5.354	4.567	1.969	0.984	DA1400M-GM ~ DA1440M-GM	HS-3048TRP	
SF0625-DRA145M-8	●	\$359.00	0.571	0.590		7.441	5.551	4.724			DA1450M-GM ~ DA1490M-GM		
SF0750-DRA150M-8	●	\$379.00	0.591	0.630		7.913	5.945	5.039			DA1500M-GM ~ DA1590M-GM		
SF0750-DRA160M-8	●	\$389.00	0.630	0.669		8.307	6.339	5.354			DA1600M-GM ~ DA1690M-GM		
SF0750-DRA170M-8	●	\$399.00	0.669	0.708	1.000	8.661	6.693	5.669	2.205	1.260	DA1700M-GM ~ DA1790M-GM	HS-4067TRP	
SF0750-DRA180M-8	●	\$449.00	0.709	0.748		9.055	7.087	5.984			DA1800M-GM ~ DA1890M-GM		
SF0750-DRA190M-8	●	\$469.00	0.748	0.787		9.409	7.441	6.299			DA1900M-GM ~ DA1990M-GM		
SF1000-DRA200M-8	●	\$549.00	0.787	0.826		10.000	7.795	6.614			DA2000M-GM ~ DA2090M-GM		
SF1000-DRA210M-8	●	\$559.00	0.827	0.866		10.354	8.150	6.929			DA2100M-GM ~ DA2150M-GM		
SF1000-DRA220M-8	●	\$559.00	0.866	0.905		10.748	8.543	7.244			DA2200M-GM ~ DA2250M-GM		
SF1000-DRA230M-8	●	\$599.00	0.906	0.944	1.000	11.102	8.898	7.559	2.205	1.260	DA2300M-GM ~ DA2381M-GM	FTP-7	
SF1000-DRA240M-8	●	\$609.00	0.945	0.984		11.457	9.252	7.874			DA2400M-GM ~ DA2450M-GM		
SF1000-DRA250M-8	●	\$659.00	0.984	1.023		11.811	9.606	8.189			DA2500M-GM ~ DA2550M-GM		

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

KYOCERA Precision Tools, Inc.

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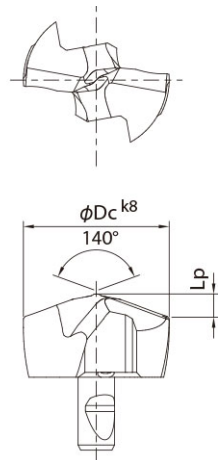
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MILLS & MICRO THREAD MILLS

DRA Inserts

Cutting Diameter Ø0.313" ~ Ø0.528" (Ø7.94mm ~ Ø13.40mm)



k8 Tolerance

ØDc (in)	k8 (in)	ØDc (mm)	k8 (mm)
0.313 ~ 0.394	+0.0009 0	7.94 ~ 10.00	+0.022 0
0.394 ~ 0.709	+0.0011 0	10.10 ~ 18.00	+0.027 0
0.713 ~ 1.004	+0.0013 0	18.10 ~ 25.50	+0.033 0

k8 is the dimension tolerance of the insert.
It is not the tolerance of the cutting diameter.

1st Recommendation

Steel PR1535	Cast Iron PR1525
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Description	Dimensions			Grade		Applicable Toolholder
	ØDc		Lp (in)	PR1535	PR1525	
	in	mm				
DA0794M-GM	0.313	7.94	0.053	●	●	SS0375-DRA080M-○ SF0500-DRA080M-○
DA0800M-GM	0.315	8.00	0.053	●	●	
DA0810M-GM	0.319	8.10	0.054	●	●	
DA0818M-GM	0.322	8.18	0.054	●	■	
DA0820M-GM	0.323	8.20	0.055	●	●	
DA0830M-GM	0.327	8.30	0.055	●	●	
DA0840M-GM	0.331	8.40	0.056	●	●	
DA0850M-GM	0.335	8.50	0.057	●	●	SS0375-DRA085M-○ SF0500-DRA085M-○
DA0860M-GM	0.339	8.60	0.057	●	●	
DA0870M-GM	0.343	8.70	0.058	●	●	
DA0880M-GM	0.346	8.80	0.059	●	●	
DA0890M-GM	0.350	8.90	0.060	●	●	
DA0900M-GM	0.354	9.00	0.060	●	●	SS0375-DRA090M-○ SF0500-DRA090M-○
DA0910M-GM	0.358	9.10	0.061	●	●	
DA0920M-GM	0.362	9.20	0.061	●	●	
DA0930M-GM	0.366	9.30	0.062	●	●	
DA0940M-GM	0.370	9.40	0.063	●	●	
DA0950M-GM	0.374	9.50	0.063	●	●	SS0500-DRA095M-○ SF0500-DRA095M-○
DA0953M-GM	0.375	9.53	0.064	●	■	
DA0960M-GM	0.378	9.60	0.064	●	●	
DA0970M-GM	0.382	9.70	0.065	●	●	
DA0980M-GM	0.386	9.80	0.066	●	●	
DA0990M-GM	0.390	9.90	0.066	●	●	
DA1000M-GM	0.394	10.00	0.067	●	●	
DA1010M-GM	0.398	10.10	0.068	●	●	SS0500-DRA100M-○ SF0625-DRA100M-○
DA1020M-GM	0.402	10.20	0.068	●	●	
DA1030M-GM	0.406	10.30	0.069	●	●	
DA1040M-GM	0.409	10.40	0.070	●	●	

Description	Dimensions			Grade		Applicable Toolholder
	ØDc		Lp (in)	PR1535	PR1525	
	in	mm				
DA1050M-GM	0.413	10.50	0.071	●	●	SS0500-DRA105M-○ SF0625-DRA105M-○
DA1060M-GM	0.417	10.60	0.071	●	●	
DA1070M-GM	0.421	10.70	0.072	●	●	
DA1072M-GM	0.422	10.72	0.072	●	■	
DA1080M-GM	0.425	10.80	0.073	●	●	
DA1090M-GM	0.429	10.90	0.073	●	●	
DA1100M-GM	0.433	11.00	0.074	●	●	SS0500-DRA110M-○ SF0625-DRA110M-○
DA1110M-GM	0.437	11.10	0.074	●	●	
DA1120M-GM	0.441	11.20	0.075	●	●	
DA1130M-GM	0.445	11.30	0.076	●	●	
DA1140M-GM	0.449	11.40	0.076	●	●	
DA1150M-GM	0.453	11.50	0.077	●	●	
DA1160M-GM	0.457	11.60	0.078	●	●	SS0500-DRA115M-○ SF0625-DRA115M-○
DA1170M-GM	0.461	11.70	0.079	●	●	
DA1180M-GM	0.465	11.80	0.079	●	●	
DA1190M-GM	0.469	11.90	0.080	●	●	
DA1200M-GM	0.472	12.00	0.080	●	●	
DA1210M-GM	0.476	12.10	0.081	●	●	
DA1220M-GM	0.480	12.20	0.081	●	●	SS0625-DRA120M-○ SF0625-DRA120M-○
DA1230M-GM	0.484	12.30	0.082	●	●	
DA1240M-GM	0.488	12.40	0.083	●	●	
DA1250M-GM	0.492	12.50	0.083	●	●	
DA1260M-GM	0.496	12.60	0.084	●	●	
DA1270M-GM	0.500	12.70	0.085	●	●	
DA1280M-GM	0.504	12.80	0.086	●	●	SS0625-DRA125M-○ SF0625-DRA125M-○
DA1290M-GM	0.508	12.90	0.086	●	●	
DA1300M-GM	0.512	13.00	0.087	●	●	
DA1310M-GM	0.516	13.10	0.087	●	●	
DA1320M-GM	0.520	13.20	0.088	●	●	
DA1330M-GM	0.524	13.30	0.089	●	●	
DA1340M-GM	0.528	13.40	0.089	●	●	SS0625-DRA130M-○ SF0625-DRA130M-○

● : U.S. Stock ■ : Made to Order

Inserts Sold in 1 Piece Boxes | Kits Include 2 Inserts

All 2016 Summer / Fall Offers Valid through December 31, 2016

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1st Recommendation

Steel
PR1535

Cast Iron
PR1525

DRA Inserts (Continued)

Cutting Diameter Ø0.531" ~ Ø0.1004" (Ø13.50mm ~ Ø25.50mm)

Description	Dimensions			Grade		Applicable Toolholder
	ØDc		Lp (in)	PR1535	PR1525	
	in	mm				
DA1350M-GM	0.531	13.50	0.090	●	●	SS0625-DRA135M-○ SF0625-DRA135M-○
DA1360M-GM	0.535	13.60	0.091	●	●	
DA1370M-GM	0.539	13.70	0.092	●	●	
DA1380M-GM	0.543	13.80	0.092	●	●	
DA1390M-GM	0.547	13.90	0.093	●	●	
DA1400M-GM	0.551	14.00	0.092	●	●	SS0625-DRA140M-○ SF0625-DRA140M-○
DA1410M-GM	0.555	14.10	0.092	●	●	
DA1420M-GM	0.559	14.20	0.093	●	●	
DA1430M-GM	0.563	14.30	0.094	●	●	
DA1440M-GM	0.567	14.40	0.094	●	●	
DA1450M-GM	0.571	14.50	0.095	●	●	SS0625-DRA145M-○ SF0625-DRA145M-○
DA1460M-GM	0.575	14.60	0.096	●	●	
DA1468M-GM	0.578	14.68	0.096	●	■	
DA1470M-GM	0.579	14.70	0.097	●	●	
DA1480M-GM	0.583	14.80	0.097	●	●	
DA1490M-GM	0.587	14.90	0.098	●	●	SS0625-DRA150M-○ SF0750-DRA150M-○
DA1500M-GM	0.591	15.00	0.099	●	●	
DA1510M-GM	0.594	15.10	0.100	●	●	
DA1520M-GM	0.598	15.20	0.101	●	●	
DA1530M-GM	0.602	15.30	0.101	●	●	
DA1540M-GM	0.606	15.40	0.102	●	●	
DA1550M-GM	0.610	15.50	0.103	●	●	
DA1560M-GM	0.614	15.60	0.103	●	●	
DA1570M-GM	0.618	15.70	0.104	●	●	
DA1580M-GM	0.622	15.80	0.105	●	●	
DA1590M-GM	0.626	15.90	0.106	●	●	SS0750-DRA160M-○ SF0750-DRA160M-○
DA1600M-GM	0.630	16.00	0.106	●	●	
DA1610M-GM	0.634	16.10	0.107	●	●	
DA1620M-GM	0.638	16.20	0.107	●	●	
DA1630M-GM	0.642	16.30	0.108	●	●	
DA1640M-GM	0.646	16.40	0.109	●	●	
DA1650M-GM	0.650	16.50	0.110	●	●	
DA1660M-GM	0.654	16.60	0.110	●	●	
DA1667M-GM	0.656	16.67	0.111	●	■	
DA1670M-GM	0.657	16.70	0.111	●	●	
DA1680M-GM	0.661	16.80	0.112	●	●	SS0750-DRA170M-○ SF0750-DRA170M-○
DA1690M-GM	0.665	16.90	0.112	●	●	
DA1700M-GM	0.669	17.00	0.113	●	●	
DA1710M-GM	0.673	17.10	0.113	●	●	
DA1720M-GM	0.677	17.20	0.114	●	●	
DA1730M-GM	0.681	17.30	0.115	●	●	SS0750-DRA170M-○ SF0750-DRA170M-○
DA1740M-GM	0.685	17.40	0.116	●	●	
DA1746M-GM	0.687	17.46	0.116	●	■	
DA1750M-GM	0.689	17.50	0.116	●	●	
DA1760M-GM	0.693	17.60	0.117	●	●	
DA1770M-GM	0.697	17.70	0.118	●	●	SS0750-DRA170M-○ SF0750-DRA170M-○
DA1780M-GM	0.701	17.80	0.118	●	●	
DA1790M-GM	0.705	17.90	0.119	●	●	

Description	Dimensions			Grade		Applicable Toolholder
	ØDc		Lp (in)	PR1535	PR1525	
	in	mm				
DA1800M-GM	0.709	18.00	0.120	●	●	SS0750-DRA180M-○ SF0750-DRA180M-○
DA1810M-GM	0.713	18.10	0.120	●	●	
DA1820M-GM	0.717	18.20	0.121	●	●	
DA1830M-GM	0.720	18.30	0.122	●	●	
DA1840M-GM	0.724	18.40	0.122	●	●	
DA1850M-GM	0.728	18.50	0.123	●	●	
DA1860M-GM	0.732	18.60	0.124	●	●	
DA1870M-GM	0.736	18.70	0.125	●	●	
DA1880M-GM	0.740	18.80	0.125	●	●	
DA1890M-GM	0.744	18.90	0.126	●	●	
DA1900M-GM	0.748	19.00	0.126	●	●	SS1000-DRA190M-○ SF0750-DRA190M-○
DA1905M-GM	0.750	19.05	0.127	●	■	
DA1910M-GM	0.752	19.10	0.127	●	●	
DA1920M-GM	0.756	19.20	0.128	●	●	
DA1930M-GM	0.760	19.30	0.129	●	●	
DA1940M-GM	0.764	19.40	0.129	●	●	
DA1950M-GM	0.768	19.50	0.130	●	●	
DA1960M-GM	0.772	19.60	0.131	●	●	
DA1970M-GM	0.776	19.70	0.132	●	●	
DA1980M-GM	0.780	19.80	0.132	●	●	
DA1990M-GM	0.783	19.90	0.133	●	●	SS1000-DRA200M-○ SF1000-DRA200M-○
DA2000M-GM	0.787	20.00	0.133	●	●	
DA2010M-GM	0.791	20.10	0.134	●	●	
DA2020M-GM	0.795	20.20	0.134	●	●	
DA2030M-GM	0.799	20.30	0.135	●	●	
DA2040M-GM	0.803	20.40	0.136	●	●	
DA2050M-GM	0.807	20.50	0.136	●	●	
DA2060M-GM	0.811	20.60	0.137	●	●	
DA2064M-GM	0.813	20.64	0.137	●	■	
DA2070M-GM	0.815	20.70	0.138	●	●	
DA2080M-GM	0.819	20.80	0.139	●	●	SS1000-DRA210M-○ SF1000-DRA210M-○
DA2090M-GM	0.823	20.90	0.139	●	●	
DA2100M-GM	0.827	21.00	0.140	●	●	
DA2150M-GM	0.846	21.50	0.143	●	●	SS1000-DRA220M-○ SF1000-DRA220M-○
DA2200M-GM	0.866	22.00	0.146	●	●	
DA2223M-GM	0.875	22.23	0.148	●	■	
DA2250M-GM	0.886	22.50	0.150	●	●	SS1000-DRA230M-○ SF1000-DRA230M-○
DA2300M-GM	0.906	23.00	0.153	●	●	
DA2350M-GM	0.925	23.50	0.156	●	●	
DA2381M-GM	0.937	23.81	0.158	●	■	SS1000-DRA240M-○ SF1000-DRA240M-○
DA2400M-GM	0.945	24.00	0.159	●	●	
DA2450M-GM	0.965	24.50	0.163	●	●	
DA2500M-GM	0.984	25.00	0.165	●	●	SS1000-DRA250M-○ SF1000-DRA250M-○
DA2540M-GM	1.000	25.40	0.168	●	■	
DA2550M-GM	1.004	25.50	0.169	●	●	

● : U.S. Stock ■ : Made to Order

Inserts Sold in 1 Piece Boxes | Kits Include 2 Inserts

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GBA Grooving System

3 Cutting Edges Per Insert

MEGACOAT PR1215 Insert

For consistently long tool life

GBA-MY

Molded chipbreaker produces smooth chip evacuation

Pin Lock Design

Eliminates top clamp and improves chip evacuation



PURCHASE 10 INSERTS AND RECEIVE A FREE HOLDER

**10 Insert Purchase Required for KGBA External Holders / *15 Insert Purchase Required for KIGBA Internal Holders*

**Inserts sold in 5 pc packs. Not all 10 inserts need to be identical but must fit in chosen toolholder.*

Promo Code: KYO-GBA-FREE

KGBA Toolholders

Toolholder (Pick 1)		Shank Size	Overall Length	Insert Description (Pick Up to 3 Insert Sizes) See 🔄 Page 29	Applicable Grooving Depth	Grades (Pick 1)	Required Insert Purchase
External Grooving Holders	KGBAR 12-3	0.75" Square	5.00"	GBA32R○○○N	0.031" ~ 0.094"	PR1215 MEGACOAT Carbide for Steel, Stainless & Exotic Metals PV7040 MEGACOAT Cermet for Steel & Cast Iron	10
	KGBAL 12-3	0.75" Square		GBA32L○○○N			10
	KGBAR 16-3	1.00" Square	6.00"	GBA32R○○○N			10
	KGBAL 16-3	1.00" Square		GBA32L○○○N			10
	KGBAR 12-4-15	0.75" Square	5.00"	GBA43R○○○(MY)N	0.031" ~ 0.088"		10
	KGBAL 12-4-15	0.75" Square		GBA43L○○○(MY)N			10
	KGBAR 12-4-25	0.75" Square	5.00"	GBA43R○○○(MY)N	0.094" ~ 0.125"		10
	KGBAL 12-4-25	0.75" Square		GBA43L○○○(MY)N			10
	KGBAR 12-4-35	0.75" Square	5.00"	GBA43R○○○(MY)N	0.141" ~ 0.188"		10
	KGBAL 12-4-35	0.75" Square		GBA43L○○○(MY)N			10
	KGBAR 16-4-15	1.00" Square	6.00"	GBA43R○○○(MY)N	0.031" ~ 0.088"		10
	KGBAL 16-4-15	1.00" Square		GBA43L○○○(MY)N			10
	KGBAR 16-4-25	1.00" Square	6.00"	GBA43R○○○(MY)N	0.094" ~ 0.125"		10
	KGBAL 16-4-25	1.00" Square		GBA43L○○○(MY)N			10
	KGBAR 16-4-35	1.00" Square	6.00"	GBA43R○○○(MY)N	0.141" ~ 0.188"		10
	KGBAL 16-4-35	1.00" Square		GBA43L○○○(MY)N			10
Internal Grooving Holders	KIGBAR 16-3	1.00" Round	9.00"	GBA32L○○○N	0.031" ~ 0.094"	15	
	KIGBAL 16-3	1.00" Round		GBA32R○○○N		15	
	KIGBAR 20-4	1.25" Round	10.00"	GBA43L○○○(MY)N	0.031" ~ 0.188"	15	
	KIGBAL 20-4	1.25" Round		GBA43R○○○(MY)N		15	

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PR1215 PVD MEGACOAT

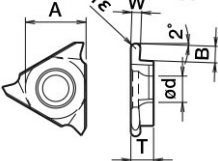
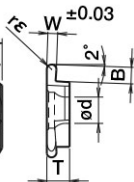
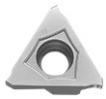
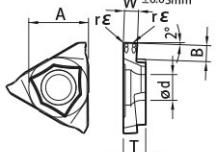
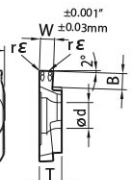
- Micro-grain carbide substrate provides a highly reliable and long lasting grooving insert
- Superior hardness and oxidation resistance provide stable tool life at high speeds
- Allows for light grooving of both steel and stainless steel



GBA-MY

The MY Molded Chipbreaker produces manageable curled chips for smooth chip evacuation

GBA Inserts

Part Number	A	T	Ød	P	Carbon Steel / Alloy Steel		★	Usage Classification																								
GBA32_	0.375	0.125	0.173	M	Stainless Steel		★	☆	★ Roughing / 1st Choice ☆ Roughing / 2nd Choice □ Finishing / 2nd Choice (When hardness is under 45HRC)																							
				K	Cast Iron																											
GBA43_	0.500	0.187	0.217	S	Titanium Alloy (Ti-6Al-4V)		★																									
				H	Pre-Heat Treat Steel (<45HRC)		□																									
Insert				Part Number	Previous Part Number	Dimensions (in)			MEGACOAT Carbide PR1215	MEGACOAT Cermet PV7040	Applicable External Toolholder	Applicable Internal Toolholder																				
  				GBA32 $\frac{R}{L}$	031N	GBA32 $\frac{R}{L}$ 02	0.031	0.079	0.002	●	●	KGBA $\frac{R}{L}$ 12-3 KGBA $\frac{R}{L}$ 16-3	KIGBA $\frac{R}{L}$ 16-3																			
					041N	-	0.041	0.079	0.002	●	●																					
					047N	GBA32 $\frac{R}{L}$ 03	0.047	0.079	0.008	●	●																					
					058N	-	0.058	0.079	0.008	●	●																					
					062N	-	0.062	0.079	0.008	●	●																					
					078N	GBA32 $\frac{R}{L}$ 05	0.078	0.098	0.008	●	●																					
					094N	06	0.094	0.098	0.008	●	●																					
									GBA43 $\frac{R}{L}$	031N	-	0.031	0.079	0.008	●	●	KGBA $\frac{R}{L}$ 12-4-15 KGBA $\frac{R}{L}$ 16-4-15															
										047N	GBA43 $\frac{R}{L}$ 03	0.047	0.079	0.008	●	●																
										062N	04	0.062	0.138	0.008	●	●																
										072N	-	0.072	0.138	0.008	●	●																
										078N	GBA43 $\frac{R}{L}$ 05	0.078	0.138	0.008	●	●																
										088N	-	0.088	0.138	0.008	●	●																
																								094N	GBA43 $\frac{R}{L}$ 06	0.094	0.157	0.012	●	●		
																								097N	-	0.097	0.157	0.012	●	●		
																								105N	-	0.105	0.157	0.012	●	●		
																								109N	GBA43 $\frac{R}{L}$ 07	0.109	0.157	0.012	●			
																								110N	-	0.110	0.157	0.012	●	●		
																								125N	GBA43 $\frac{R}{L}$ 08	0.125	0.157	0.012	●	●		
																								141N	09	0.141	0.197	0.012	●			
																								142N	-	0.142	0.197	0.012	●	●		
																								156N	GBA43 $\frac{R}{L}$ 10	0.156	0.197	0.016	●	●		
																								172N	11	0.172	0.197	0.016	●			
																								178N	-	0.178	0.197	0.016	●	●		
188N	GBA43 $\frac{R}{L}$ 12	0.188	0.197	0.016																				●								
   MY Chipbreaker				GBA43 $\frac{R}{L}$																				078MYN	-	0.078	0.138	0.008	●		KGBA $\frac{R}{L}$ 12-4-15 KGBA $\frac{R}{L}$ 16-4-15	KIGBA $\frac{R}{L}$ 20-4
																								094MYN	-	0.094	0.157	0.012	●		KGBA $\frac{R}{L}$ 12-4-25 KGBA $\frac{R}{L}$ 16-4-25	
																								125MYN	-	0.125	0.157	0.012	●		KGBA $\frac{R}{L}$ 12-4-35 KGBA $\frac{R}{L}$ 16-4-35	
																								156MYN	-	0.156	0.197	0.016	●		KGBA $\frac{R}{L}$ 12-4-35 KGBA $\frac{R}{L}$ 16-4-35	

● : U.S. Stock

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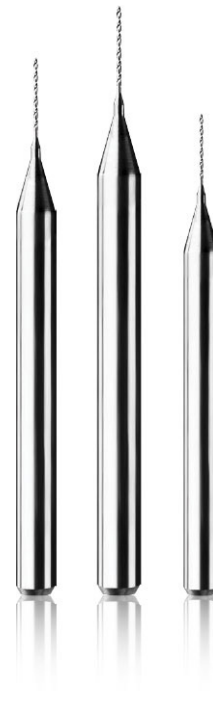
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Series 226 Micro Drills

Metric Solid Carbide Coated and Uncoated

3mm Shank with Diameters from 0.04mm - 3.00mm

- Mirror Surface Finish
- Sub Micron Grain Carbide
- Standard and Extended Flute Length Available
- Vast Selection of Micro Drills as **Stock Standards**



BUY 10, GET 5 FREE

Promo Code: **KYO-226-FREE**

View the entire lineup of Series 226 Micro Drills at:

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**Metric Extended Reach
Internal Diameter Profile Boring Bars**

Diameters from 0.04mm - 6.00mm

- Mirror Surface Finish
- Sub Micron Grain Carbide
- Ask About Custom Pitch and Complex Custom Boring



BUY 10, GET 5 FREE

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PR-3-SERIES
HBSA TURNING GRADE

MILLING KITS FOR
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G&A 3-EDGE
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MILLS & MICRO THREAD MILLS

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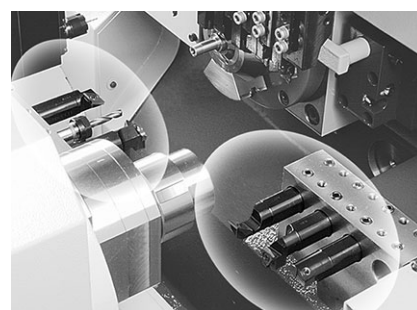
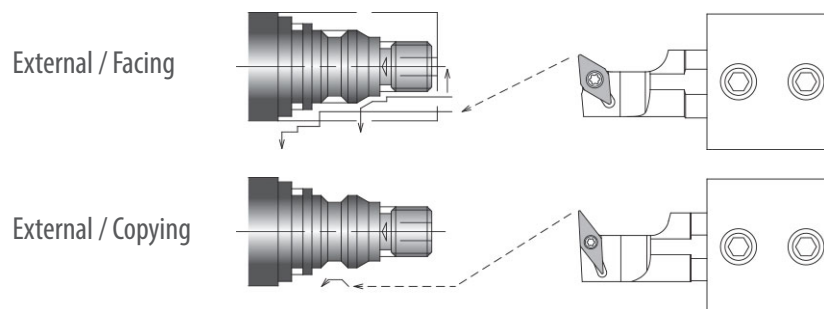
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Round Shank Sub-Spindle Holder Kits

for Turning with Applicable CC, DC, and VC Inserts

CHOOSE 1 ROUND SHANK HOLDER AND 10 INSERTS

Sub-Spindle Tooling Examples

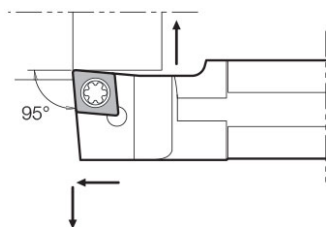


S...SCLC Holder Kits (External / Facing)

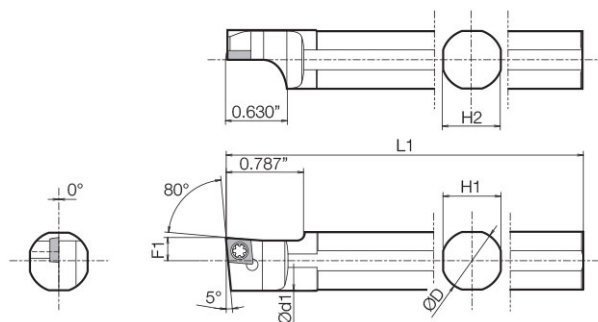
Kits Include (1) Holder and (10) Inserts.

Choose your Cutter, Chipbreaker, and Grade

Promo Code: KYO-SCLC-KIT



• Left-hand Shown



CC Insert

Right-hand Inserts for Left-hand Toolholders.

Part Number	Dimensions (in)					Standard Corner-R (r)	Spare Parts		Applicable Insert Page 34	Chipbreakers (Pick 1)	Grades (Pick 1)	Kit Option	
							Clamp Screw	Wrench				Kit Insert Qty.	U.S. Kit Price
	ØD	L1	F1	Ød1	H1=H2								
S15F -SCLCL06	0.625	3.346	0.236	0.606	0.590	0.016	SB-2570TR	FT-8	CCGT215...	MFP-SK Sharp Edge / Polished Finishing	PR1225 Stainless Steel	10	\$189.00
S19G -SCLCL09	0.750	3.543	0.393	0.724	0.669	0.016	SB-4065TR	FT-5	CCGT325...			10	\$199.00
S25K -SCLCL09	1.000	4.724	0.393	0.976	0.905	0.016	SB-4065TR	FT-5				MFP-GQ Sharp Edge / Polished Finishing-Medium	PR1425 Steel

All 2016 Summer / Fall Offers Valid through December 31, 2016

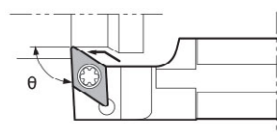
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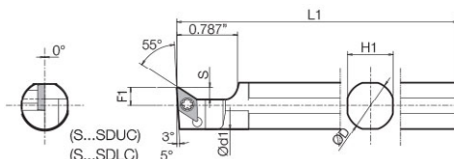
S...SDUC / S...SDLC Holder Kits (External / Copying)

Kits Include (1) Holder and (10) Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-SDLC-KIT

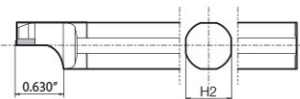


$\theta = 93^\circ$ (S...SDUC)
 $\theta = 95^\circ$ (S...SDLC)

• Left-hand Shown



DC Insert



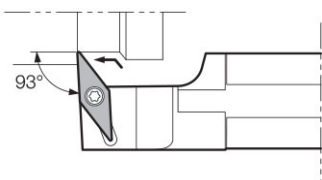
Right-hand Inserts for Left-hand Toolholders.

Part Number	Dimensions (in)						Standard Corner-R (rε)	Spare Parts		Applicable Insert Page 34	Chipbreakers (Pick 1)	Grades (Pick 1)	Kit Option	
	ØD	L1	F1	Ød1	H1=H2	S		Clamp Screw	Wrench				Kit Insert Qty.	U.S. Kit Price
S15F -SDUCL07	0.625	3.346	0.236	0.606	0.590	0.150	0.016	SB-2560TR	FT-8	DCGT215...	MFP-SK Sharp Edge / Polished Finishing	PR1225 Stainless Steel	10	\$189.00
S19G -SDUCL07	0.750	3.543	0.236	0.724	0.669	0.150	0.016	SB-2560TR	FT-8				10	\$199.00
S15F -SDLC L07	0.625	3.346	0.236	0.606	0.590	0.150	0.016	SB-2560TR	FT-8				10	\$189.00
S19G -SDLC L07	0.750	3.543	0.236	0.724	0.669	0.150	0.016	SB-2560TR	FT-8				10	\$189.00
S19G -SDLC L11	0.750	3.543	0.393	0.724	0.669	0.228	0.016	SB-4085TR	FT-15	DCGT325...	MFP-GQ Sharp Edge / Polished Finishing-Medium	PR1425 Steel	10	\$219.00
S19G -SDUCL11	0.750	3.543	0.393	0.724	0.669	0.228	0.016	SB-4085TR	FT-15				10	\$219.00

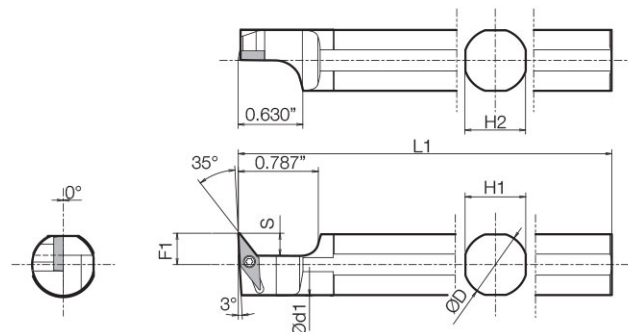


S...SVUC / S...SVUB Holder Kits (External / Copying)

Kits Include (1) Holder and (10) Inserts.
Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-SVUC-KIT



• Left-hand Shown



VC / VB Insert

Right-hand Inserts for Left-hand Toolholders.

Part Number	Dimensions (in)						Standard Corner-R (rε)	Spare Parts		Applicable Insert Page 34	Chipbreakers (Pick 1)	Grades (Pick 1)	Kit Option	
	ØD	L1	F1	Ød1	H1=H2	S		Clamp Screw	Wrench				Kit Insert Qty.	U.S. Kit Price
S15F -SVUCL08	0.625	3.346	0.315	0.606	0.591	0.217	0.016	SB-2050TR	FT-6	VCMT1515...	VF Finishing	PR1225 Stainless Steel	10	\$199.00
S25K -SVUBL11	1.000	4.724	0.413	0.976	0.906	0.315	0.016	SB-2050TR	FT-6	V(B/C)MT22...	HQ Finishing-Medium		10	\$249.00

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MICRO DRILLS &
MICRO REAMERS

MILLING KITS FOR
STEEL & CAST IRON

DRA MFGC DRILL
MODULAR DRILL KITS

G&A 3-EDGE
GROOVING SYSTEM

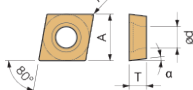
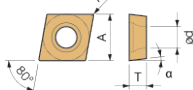
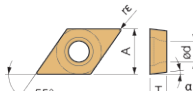
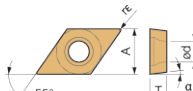
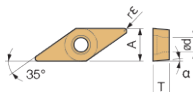
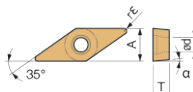
MICRO DRILLS &
MICRO BORING BARS

ROUND SHANK
SUB SPINDLE HOLDER KITS

SOLID END MILLS, BALL NOSE END
MILLS & MICRO THREAD MILLS

Round Shank Sub-Spindle Holder Kits

for Turning with Applicable CC, DC, and VC Inserts

Sub-Spindle Holder Inserts										
Usage Classification		P	Steel					★	☆	Applicable Toolholder Page 32-33
★ 1st Choice / ☆ 2nd Choice		M	Stainless Steel					☆	★	
Insert		Part Number	Dimensions (in)				Angle	MEGACOAT / MEGACOAT NANO		
			A	T	Ød	rε	α	PR1425	PR1225	
 Finishing Sharp Edge / Polished		CCGT 21502MFP-SK	1/4	3/32	0.110	<0.004	7°		●	S15F -SCLCL06
		21505MFP-SK				<0.008		●	●	
		2151MFP-SK				<1/64		●	●	
		CCGT 32502MFP-SK	3/8	5/32	0.173	<0.004	7°	●	●	S19G -SCLCL09 S25K -SCLCL09
		32505MFP-SK				<0.008		●	●	
		3251MFP-SK				<1/64		●	●	
 Finishing-Medium Sharp Edge / Polished		CCGT 21502MFP-GQ	1/4	3/32	0.110	<0.004	7°	●	●	S15F -SCLCL06
		21505MFP-GQ				<0.008		●	●	
		2151MFP-GQ				<1/64		●	●	
		CCGT 32502MFP-GQ	3/8	5/32	0.173	<0.004	7°	●	●	S19G -SCLCL09 S25K -SCLCL09
		32505MFP-GQ				<0.008		●	●	
		3251MFP-GQ				<1/64		●	●	
 Finishing Sharp Edge / Polished		DCGT 21502MFP-SK	1/4	3/32	0.110	<0.004	7°	●	●	S15F -SDUCL07 S19G -SDUCL07 S15F -SDLCL07 S19G -SDLCL07
		21505MFP-SK				<0.008		●	●	
		2151MFP-SK				<1/64		●	●	
		DCGT 32502MFP-SK	3/8	5/32	0.173	<0.004	7°	●	●	S19G -SDLCL11 S19G -SDUCL11
		32505MFP-SK				<0.008		●	●	
		3251MFP-SK				<1/64		●	●	
 Finishing-Medium Sharp Edge / Polished		DCGT 21502MFP-GQ	1/4	3/32	0.110	<0.004	7°	●	●	S15F -SDUCL07 S19G -SDUCL07 S15F -SDLCL07 S19G -SDLCL07
		21505MFP-GQ				<0.008		●	●	
		2151MFP-GQ				<1/64		●	●	
		DCGT 32502MFP-GQ	3/8	5/32	0.173	<0.004	7°	●	●	S19G -SDLCL11 S19G -SDUCL11
		32505MFP-GQ				<0.008		●	●	
		3251MFP-GQ				<1/64		●	●	
 Finishing		VCMT 151505VF	3/16	3/32	0.091	0.008	11°	●		S15F -SVUCL08
		15151VF				1/64		●		
		VBMT 2205VF	1/4	1/8	0.110	0.008	5°	●		S25K -SVUBL11
		221VF				1/64		●		
222VF	1/32	●								
 Finishing-Medium		VCMT 151505HQ	3/16	3/32	0.091	0.008	11°	●		S15F -SVUCL08
		15151HQ				1/64		●		
		VBMT 221HQ	1/4	1/8	0.110	1/64	5°	●		S25K -SVUBL11
		222HQ				1/32		●		

• Insert whose corner R(rε) dimension expressed with less than sign (e.g. <0.002, <0.004, <0.008 etc.) indicate models with minus tolerance for corner R(rε).

● : U.S. Stock

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- Sub Micron Grain Carbide
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