



2017

S U M M E R / F A L L
P R O M O P A C K



MILLING SOLUTIONS
TURNING SOLUTIONS
DRILLING SOLUTIONS
SOLID ROUND SOLUTIONS

Special Offers for Milling, Turning, Drilling, and Solid Tooling Solutions...



VALID THROUGH
December 31, 2017

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

Sales, Tech Center & Marketing

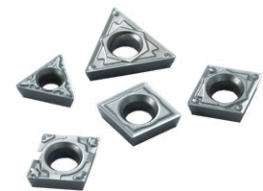
- North American Tech Center
- North American Sales, Marketing & Customer Service Center

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 2017 Summer / Fall Promo Pack

In 2017 Kyocera Precision Tools, Inc. is offering more ways 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 for all of your metal cutting needs. Read below for our latest cost-savings opportunities.

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

Milling Solutions

MFH-Micro High Feed Mills	FREE Holder with Purchase of 10 Inserts per Pocket	P4
MFH-Mini High Feed Mills	FREE Holder with Purchase of 10 Inserts per Pocket	P6
MFH-RAPTOR High Feed Mills	FREE Holder with Purchase of 20 Inserts per Pocket	P8
M-FOUR (MEW) Four-Edge Mills	FREE Holder with Purchase of 10 Inserts per Pocket	P10
M-SIX (MFWN) Six-Edge Mills	FREE Holder with Purchase of 10 or 20 Inserts per Pocket	P12

Turning Solutions

WE / WF Wiper Inserts for Steel Turning	Kits Include 1 Double-Clamp Holder and 10 Inserts	P14
	Buy 20 Inserts, Get 10 FREE	P14
KS6040 & KXW1 Ceramic Inserts for Roll Turning & HRSAs	Buy 30 Inserts, Get 10 FREE	P16
KBN05M Multi-edge CBN for Hard Turning	Kits Include 1 Double-Clamp Holder and 1 Insert	P18
	Buy 3 Inserts, Get 1 FREE	P18
Positive-style Turning Kits for Steel, Stainless, and Non-ferrous	Kits Include 1 Holder and 10 Inserts	P20
GBA Grooving System	Buy 10 Inserts, Get 1 Holder FREE	P24

Drilling Solutions

DRA Magic Drills	Kits Include 1 Drill Body and 2 Insert Tips	P26
	FREE Drill Body with Purchase of Designated Number of Inserts	P26
DRZ Magic Drills	Kits Include 1 Drill Body and 10 Inserts	P34
HOLESHOT Drills	Kits Include 1 Drill Body and 10 Inserts	P40

Solid Round Tooling Solutions

VULCAN Compression End Mills for Routing Composites	Buy 1, Get 1 50% Off (Equal or Lesser Value)	P46
HYDROS Coolant Fed Deep Drills & ORION High Performance Pilot Drills	Buy 1 HYDROS, Get 1 Matching Size ORION 50% Off	P48

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



NEW

MFH-RAPTOR MICRO

Smallest Diameter in High Feed Milling Series

Durable Design Aids in Chatter Resistance

Maximum D.O.C. 0.020" with stable high feed machining in a wide range of applications

Replaces Solid End Mills to Reduce Machining Costs

Suppresses chattering and increases milling efficiency

Advanced Coating Technology

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



Molded Convex Cutting Edge



High Precision G Class Insert

MILLING SOLUTIONS

TURNING SOLUTIONS

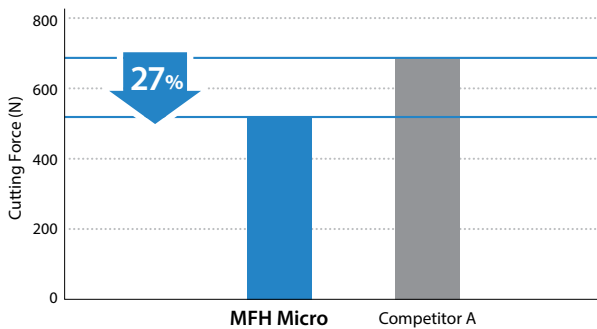
DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

1 Stable Machining with Chattering Resistance

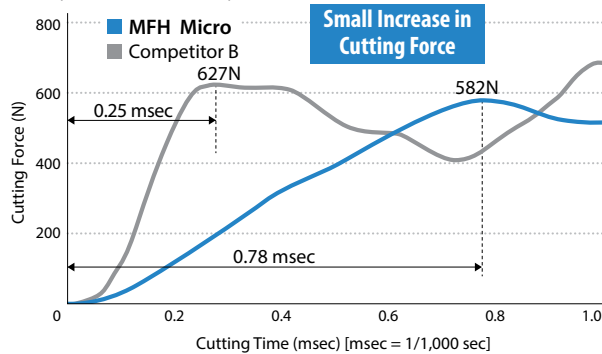
Molded Convex Cutting Edge Controls Initial Impact when Entering the Workpiece

Cutting Force Comparison (In-house Evaluation)



Cutting Conditions: $V_c = 390$ sfm, $f_z = 0.024$ ipt, D.O.C. = 0.016"
Cutter Dia. $\emptyset 0.375$ ", Slotting, Dry Workpiece: 1049

Increase in Cutting Force when Entering Work Piece (In-house Evaluation)



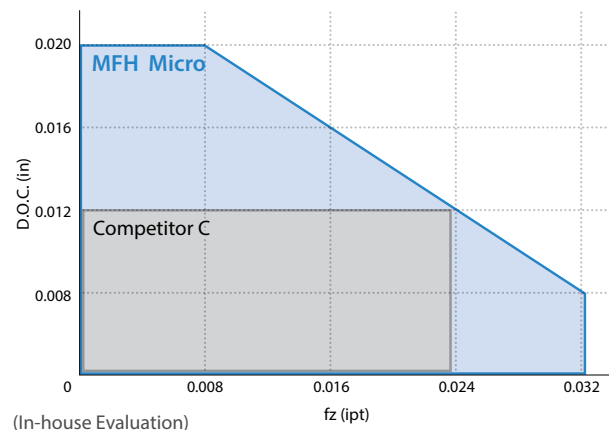
Cutting Conditions: $V_c = 390$ sfm, $f_z = 0.024$ ipt, D.O.C. $\times a_e = 0.016" \times 0.197"$
Cutter Dia. $\emptyset 0.375$ ", Dry Workpiece: 1049

2 Wide Range of Machining Applications

Wide Range of Machining Applications at a Maximum Depth of Cut of 0.020"

Stable Machining Even with Small Machining Centers

Cutting Performance Map (Cutter Dia. $\emptyset 0.375$ ")



(In-house Evaluation)

All 2017 Summer / Fall Promo Offers Valid through December 31, 2017

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MEGACOAT NANO
PR1525

First Choice for Carbon Steel and Alloy Steel

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



FREE MFH-Micro End Mills


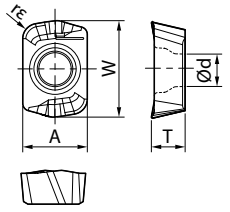
with Purchase of 10 Inserts per Pocket

Choose your Cutter and Grade
Promo Code: KYO-MICRO-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Standard Shank (Cylindrical)	MFH 0500-S500-01-3T-3	0.500"	3	LPGT010210ER-GM	PR1525 Carbon Steel & Alloy Steel	30
	MFH 0625-S625-01-4T35	0.625"	4		PR1535 Titanium & Precipitation Hardened Stainless Steel CA6535 Heat-Resistant Alloys	40

*Offer also applies to metric-size cutters. View brochure for product details.

MFH-Raptor Micro 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	W	re	PR1535	PR1525	CA6535	
 General Purpose		LPGT 010210ER-GM	0.165	0.086	0.083	0.247	0.039	●	●	●

● : U.S. Stock

Inserts sold in 10 piece boxes

KYOCERA Precision Tools, Inc.

P: 800.823.7284 • F: 828.692.1344 • E: ctsales@kyocera.com
 Official Website | www.kyoceraprecisiontools.com



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



MEGACOAT NANO
PR1525

First Choice for Carbon Steel and Alloy Steel

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



FREE MFH-Mini End Mills with Purchase of 10 Inserts per Pocket

Choose your Cutter and Grade
Promo Code: **KYO-MINI-FREE**

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Page 7	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Weldon Shank	MFH 0625-W625-03-2T-3	0.625"	2	LOGU030310ER-GM	PR1525 Carbon Steel & Alloy Steel	20
	MFH 0750-W750-03-3T-4	0.750"	3			30
	MFH 1000-W100-03-4T47	1.000"	4			40
	MFH 1000-W100-03-5T47	1.000"	5			50
	MFH 1250-W125-03-5T-5	1.250"	5			50
	MFH 1250-W125-03-6T-5	1.250"	6			60
Long Shank	MFH 0625-S625-03-2T-6	0.625"	2		CA6535 Heat-Resistant Alloys	20
	MFH 0750-S750-03-3T65	0.750"	3			30
	MFH 1000-S100-03-4T-7	1.000"	4			40
	MFH 1250-S125-03-5T-8	1.250"	5			50

*Offer also applies to metric-size cutters. View brochure for product details.

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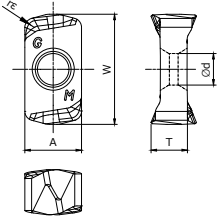
FREE MFH-Mini Face Mills with Purchase of 10 Inserts per Pocket

Choose your Cutter and Grade
Promo Code: KYO-MINI-FREE

Cutter Description	Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
MFH 1500R-03-5T	1.500"	5	LOGU030310ER-GM	PR1525 Carbon Steel & Alloy Steel	50
MFH 1500R-03-6T	1.500"	6		PR1535 Titanium & Precipitation Hardened Stainless Steel	60
MFH 2000R-03-8T	2.000"	8		CA6535 Heat-Resistant Alloys	80

*Offer also applies to metric-size cutters. View brochure for product details.

MFH-Raptor Mini Inserts

Usage Classification	P	Carbon Steel / Alloy Steel		★						
		Mold Steel		★						
<ul style="list-style-type: none"> ★ 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	W	rε	PR1535	PR1525	CA6535	
 General Purpose		LOGU 030310ER-GM	0.244	0.156	0.136	0.469	0.039	●	●	●

● : U.S. Stock

Inserts sold in 10 piece boxes



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



MEGACOAT NANO
PR1525

First Choice for Carbon Steel and Alloy Steel

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



FREE MFH Face Mills with Purchase of 20 Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFH-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Page 9	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Face Mills	MFH 2000R-10-4T	2.000"	4	SOMT100420ER	GM General Purpose LD Large Depths of Cut FL Full Profile	PR1525 Carbon Steel & Alloy Steel	80
	MFH 2000R-10-5T	2.000"	5				100
	MFH 2500R-10-5T	2.500"	5				100
	MFH 2500R-10-6T	2.500"	6				120
	MFH 3000R-10-7T	3.000"	7				140
	MFH 2000R-14-4T	2.000"	4				SOMT140520ER SOMT140514ER
	MFH 2500R-14-4T	2.500"	4	80			
	MFH 2500R-14-5T	2.500"	5	100			
	MFH 3000R-14-5T	3.000"	5	100			
	MFH 3000R-14-6T	3.000"	6	120			
	MFH 4000R-14-6T	4.000"	6	120			
	MFH 4000R-14-7T	4.000"	7	140			
	MFH 5000R-14-7T	5.000"	7	140			
	MFH 6000R-14-8T	6.000"	8	160			

*Offer also applies to metric-size cutters. View brochure for product details.

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TURNING SOLUTIONS

DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS



FREE MFH End Mills with Purchase of 20 Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFH-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
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	PR1525 Carbon Steel & Alloy Steel	40
	MFH 1250-W125-10-2T	1.250"	2				40
	MFH 1250-W125-10-3T	1.250"	3			60	
	MFH 1500-W150-10-3T	1.500"	3			60	
	MFH 1500-W150-10-4T	1.500"	4			80	
End Mills Long Shank (Cylindrical)	MFH 1000-S100-10-2T-8	1.000"	2			CA6535 Heat-Resistant Alloys	40
	MFH 1250-S125-10-2T-8	1.250"	2				40
	MFH 1500-S125-10-4T-10	1.500"	4				80

*Offer also applies to metric-size cutters. View brochure for product details.

MFH-Raptor Inserts

Usage Classification	P	Carbon Steel / Alloy Steel		M	Austenitic Stainless Steel		K	Gray Cast Iron		S	Heat Resistant Alloy (Ni-base)		H	Titanium Alloy (Ti-6Al-4V)		Hard Materials		
		★	☆		★	☆		★	☆		★	☆		★	☆			
★ 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							
			A	T	Ød	Z	rε	α	PR1535	PR1525	CA6535							
 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

KYOCERA Precision Tools, Inc.

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Official Website | www.kyoceraprecisiontools.com

Inserts sold in 10 piece boxes



M-FOUR (MEW)

Double-Sided 4-Edge Insert Face Mills & End Mills

Low Cutting Forces

Reduces cutting forces for reduced vibration

Improved Surface Finish

Sharp cutting for reduced burrs due to helical cutting edge and optimum axial rake design

Advanced Coating Technology

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



MEGACOAT NANO
PR1535

First Choice for Titanium and Austenitic Stainless Steel

MEGACOAT NANO
PR1525

First Choice for Carbon Steel and Alloy Steel

MEGACOAT NANO
PR1510

First Choice for Gray & Nodular Cast Iron

CVD Coated Carbide
CA6535

First Choice For Heat-Resistant Alloys and Martensitic Stainless Steel

DLC Coated / Uncoated Carbide
PDL025 / GW25

First Choice for Aluminum & Non-ferrous Metals



FREE M-FOUR (MEW) End Mills

with Purchase of 10 Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MEW-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Page 11	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Weldon	Standard Shank	MEW 0625-W500-10-2T	0.625"	2	LOMU1004..ER LOGT100408FR	GM General Purpose SM Low Cutting Force GH Heavy Milling AM Aluminum / Non-ferrous Metals (2-edge)	20
		MEW 0625-W625-10-2T	0.625"	2			20
		MEW 0750-W625-10-2T	0.750"	2			20
		MEW 0750-W750-10-2T	0.750	2			20
		MEW 0750-W750-10-3T	0.750	3			30
		MEW 0750-W750-4-10-3T	0.750	3			30
		MEW 1000-W750-10-3T	1.000	3			30
	MEW 1000-W100-10-2T	1.000	2	20			
	MEW 1000-W100-10-3T	1.000	3	30			
	MEW 1000-W100-475-10-3T	1.000	3	30			
	MEW 1250-W100-10-4T	1.250	4	40			
	MEW 1250-W125-10-3T	1.250	3	30			
	MEW 1250-W125-10-4T	1.250	4	40			
	MEW 1500-W125-10-5T	1.500	5	50			
Cylindrical	Long Overhang	MEW 0750-W750-4-10-3T	0.750	3	30	PR1535 Titanium & Precipitation Hardened Stainless Steel PR1525 Carbon Steel & Alloy Steel PR1510 Gray & Nodular Cast Iron	30
		MEW 1000-W100-45-10-3T	1.000	3	30		
		MEW 0625-S625-6-10-2T	0.625	2	20		
		MEW 0750-S750-7-10-2T	0.750	2	20		
		MEW 1000-S100-7-10-3T	1.000	3	30		
		MEW 1000-S100-8-10-2T	1.000	2	20		
		MEW 1000-S100-8-10-3T	1.000	3	30		
Weldon	Standard Shank	MEW 1250-S125-8-15-3T	1.250	3	30	CA6535 Heat-Resistant Alloys PDL025 / GW25 Aluminum / Non-ferrous Metals	30
		MEW 1500-S125-8-15-4T	1.500	4	40		
		MEW 1000-W750-15-2T	1.000	2	20		
		MEW 1000-W100-15-2T	1.000	2	20		
		MEW 1250-W100-15-2T	1.250	2	20		
		MEW 1250-W125-15-2T	1.250	2	20		
		MEW 1250-W125-15-3T	1.250	3	30		
		MEW 1500-W125-15-3T	1.500	3	30		
		MEW 1500-W125-15-4T	1.500	4	40		
		MEW 1000-W750-15-2T	1.000	2	20		
MEW 1000-W100-15-2T	1.000	2	20				

*Offer also applies to metric-size cutters. View brochure for product details.

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FREE M-FOUR (MEW) Face Mills

with Purchase of 10 Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MEW-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Face Mills	MEW 1500R-10-5T	1.500"	5	LOMU1004..ER LOGT100408FR	GM General Purpose SM Low Cutting Force GH Heavy Milling AM Aluminum / Non-ferrous metals (2-edge)	PR1535 Titanium & Precipitation Hardened Stainless Steel	50
	MEW 2000R-10-5T	2.000"	5			PR1525 Carbon Steel & Alloy Steel	60
	MEW 2500R-10-6T	2.500"	6			PR1510 Gray & Nodular Cast Iron	40
	MEW 2000R-15-4T	2.000"	4			CA6535 Heat-Resistant Alloys	50
	MEW 2000R-15-5T	2.000"	5	LOMU1505..ER LOGT150508FR		PDL025 / GW25 Aluminum / Non-ferrous Metals	60
	MEW 2500R-15-5T	2.500"	5			80	
	MEW 3000R-15-6T	3.000"	6				
	MEW 4000R-15-8T	4.000"	8				

*Offer also applies to metric-size cutters. View brochure for product details.

M-FOUR (MEW) Inserts																		
Usage Classification	P	Carbon Steel / Alloy Steel		M	Austenitic Stainless Steel		K	Gray Cast Iron		N	Non-ferrous Metals		S	Heat Resistant Alloy (Ni-base)		H	Hard Materials	
		Mold Steel																
★ 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			CVD Coating	DLC Coated Carbide	Carbide				
		A	T	Ød	W	Z	rε		α	PR1535	PR1525				PR1510	CA6535	PDL025	GW25
 General Purpose	LOMU 100404ER-GM	0.260	0.157	0.134	0.429	0.083	0.016	16°	●	●	●	●						
	LOMU 100408ER-GM					0.067	0.031		●	●	●	●						
	LOMU 100412ER-GM					0.051	0.047		●	●	●	●						
	LOMU 100416ER-GM					0.039	0.063		●	●	●	●						
	LOMU 100420ER-GM					0.039	0.079		●	●	●	●						
LOMU 150504ER-GM	0.362	0.220	0.189	0.618	0.087	0.016	16°	●	●	●	●							
LOMU 150508ER-GM					0.071	0.031		●	●	●	●							
LOMU 150510ER-GM					0.063	0.039		●	●	●	●							
LOMU 150512ER-GM					0.055	0.047		●	●	●	●							
LOMU 150516ER-GM					0.039	0.063		●	●	●	●							
LOMU 150520ER-GM	0.024	0.079	●	●	●	●												
 Low Cutting Force	LOMU 100408ER-SM	0.260	0.157	0.134	0.429	0.067		0.031	16°	●	●	●						
	LOMU 150508ER-SM	0.362	0.220	0.189	0.618	0.071				●	●	●						
 Tough Edge (Heavy Milling)	LOMU 100408ER-GH	0.260	0.157	0.134	0.429	0.067		0.031	16°	●	●	●						
	LOMU 150508ER-GH	0.362	0.220	0.189	0.618	0.071				●	●	●						
 Aluminum / Non-ferrous Metals (2-edge)	LOGT 100408FR-AM	0.268	0.157	0.142	0.437	0.110						●	●					
	LOGT 150508FR-AM	0.350	0.220	0.193	0.626	0.110						●	●					

● : U.S. Stock

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Inserts sold in 10 piece boxes

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M-SIX (MFWN)

Double-Sided 6-Edge Insert Face Mills & End Mills

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



MEGACOAT NANO
PR1535

First Choice for Titanium and Austenitic Stainless Steel

MEGACOAT NANO
PR1525

First Choice for Carbon Steel and Alloy Steel

MEGACOAT NANO
PR1510

First Choice for Gray & Nodular Cast Iron

DLC Coated / Uncoated Carbide
PDL025 / GW25

First Choice for Aluminum & Non-ferrous Metals



FREE M-SIX (MFWN) Face Mills

with Purchase of Designated Number of Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade

Promo Code: **KYO-MFWN-FREE**

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See ☺ Page 13	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
Coarse Pitch	MFWN 902500R-3T	2.500"	3	WNMU080604EN WNMU080608EN WNEU080608EN* WNGT080608FN*	GM General Purpose SM Low Cutting Force GH* Heavy Milling GL* Surface Finish AM* Aluminum / Non-ferrous Metals (3-edge)	PR1535 Titanium & Precipitation Hardened Stainless Steel PR1525 Carbon Steel & Alloy Steel PR1510 Gray & Nodular Cast Iron PDL025 / GW25 Aluminum / Non-ferrous Metals	60
	MFWN 903000R-4T	3.000"	4				80
	MFWN 904000R-5T	4.000"	5				100
	MFWN 905000R-6T	5.000"	6				120
	MFWN 906000R-8T	6.000"	8				160
	MFWN 908000R-10T	8.000"	10				200
	MFWN 901000R-12T	10.000"	12				240
Fine Pitch	NEW MFWN 902000R-4T	2.000"	4				80
	MFWN 902500R-4T	2.500"	4				80
	MFWN 903000R-5T	3.000"	5				100
	MFWN 904000R-7T	4.000"	7				140
	MFWN 905000R-8T	5.000"	8				160
	MFWN 906000R-10T	6.000"	10				200
	MFWN 908000R-12T	8.000"	12				240
	MFWN 901000R-14T	10.000"	14				280
Extra-Fine Pitch	MFWN 902500R-5T	2.500"	5				50
	MFWN 903000R-7T	3.000"	7				70
	MFWN 904000R-9T	4.000"	9				90
	MFWN 905000R-12T	5.000"	12				120
	MFWN 906000R-14T	6.000"	14				140
	MFWN 908000R-16T	8.000"	16				160
	MFWN 901000R-18T	10.000"	18	180			

*GL Chipbreaker is only available with WNEU080608EN insert.

*GH Chipbreaker is not recommended for extra-fine pitch face mills.

*AM Chipbreaker and grades PDL025 & GW25 are only available with WNGT080608FN insert.

*Offer also applies to metric-size cutters. View brochure for product details.

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FREE M-SIX (MFWN) End Mills with Purchase of 10 Inserts per Pocket

Choose your Cutter, Chipbreaker, and Grade
Promo Code: KYO-MFWN-FREE

Cutter Description		Cutting Dia.	No. of Insert Pockets	Insert Description See Below	Chipbreaker (Pick 1)	Grades (Pick 1)	Required Insert Purchase for FREE Cutter Body
End Mills	MFWN 902000R-W125-3T	2.000"	3	WNMU080604EN WNMU080608EN WNEU080608EN* WNGT080608FN*	GM General Purpose	PR1535 Titanium & Precipitation Hardened Stainless Steel	30
	MFWN 902500R-W125-4T	2.500"	4		SM Low Cutting Force		PR1525 Carbon Steel & Alloy Steel
	MFWN 903000R-W125-5T	3.000"	5		GH* Heavy Milling GL* Surface Finish AM* Aluminum / Non-ferrous Metals (3-edge)	PR1510 Gray & Nodular Cast Iron PDL025 / GW25 Aluminum / Non-ferrous Metals	50

*GL Chipbreaker is only available with WNEU080608EN insert.

*GH Chipbreaker is not recommended for extra-fine pitch face mills.

*AM Chipbreaker and grades PDL025 & GW25 are only available with WNGT080608FN insert.

*Offer also applies to metric-size cutters. View brochure for product details.

M-SIX (MFWN) 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		☆				
	Precipitation Hardened Stainless Steel		★					
	K	Gray Cast Iron				★		
		Ductile Cast Iron				★		
N	Non-ferrous Metals					★	☆	
S	Heat Resistant Alloy (Ni-base)		☆					
	Titanium Alloy (Ti-6Al-4V)		★					
H	Hard Materials				□			
Insert	Part Number	Dimensions (in)		MEGACOAT NANO			DLC Coated Carbide	Carbide
		Z	re	PR1535	PR1525	PR1510	PDL025	GW25
 General Purpose	WNMU 080604EN-GM	0.067	1/64	●	●	●		
	080608EN-GM	0.051	1/32	●	●	●		
 Low Cutting Force	WNMU 080608EN-SM	0.051	1/32	●	●	●		
 Tough Edge (Heavy Milling)	WNMU 080608EN-GH	0.051	1/32	●	●	●		
 Surface Finish Oriented Ground Tolerance	WNEU 080608EN-GL	0.059	1/32	●	●	●		
 Aluminum / Non-ferrous Metals (3-edge)	WNGT 080608FN-AM	0.061	1/32				●	●

● : U.S. Stock

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Inserts sold in 10 piece boxes



Wiper Inserts for Steel Turning

WE & WF Negative Wiper Inserts in Carbide and Cermet



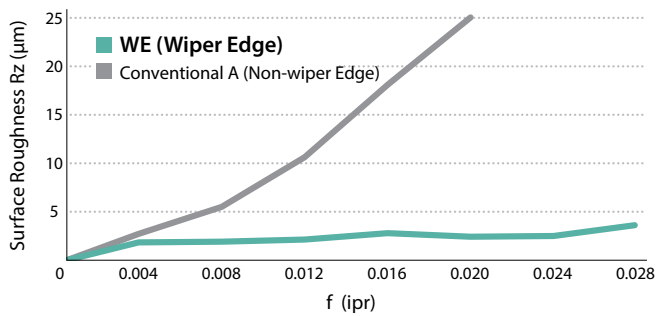
Two Ways to Save!

- 1) Buy 20 Inserts, Get 10 FREE (Promo Code: KYO-WIPER-20)
- 2) Turning Kits with Holder & 10 Inserts (Promo Code: KYO-WIPER-KIT)

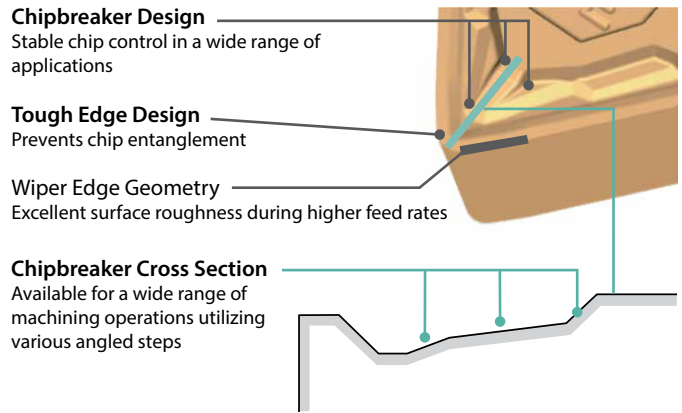
WE Chipbreaker (Finishing-Medium)

3 Times the Feed Rate of Standard Inserts with Excellent Surface Roughness

Surface Finish Comparison (Internal Evaluation)



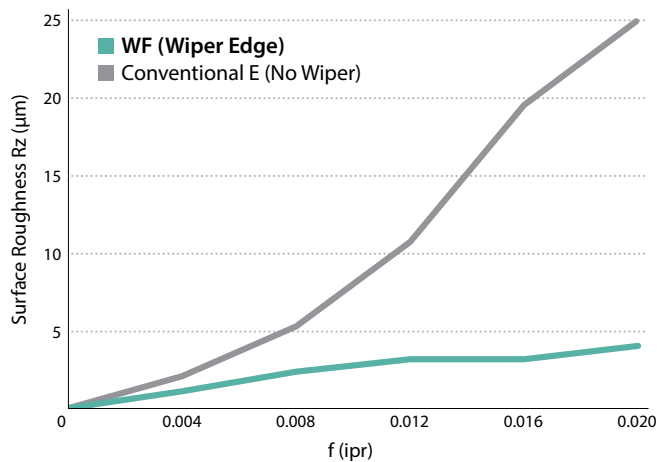
Cutting Conditions: $V_c = 820$ sfm, D.O.C. = 0.012", $f = 0.004 - 0.028$ ipr, Wet
CNMG432 Insert Workpiece: 4137



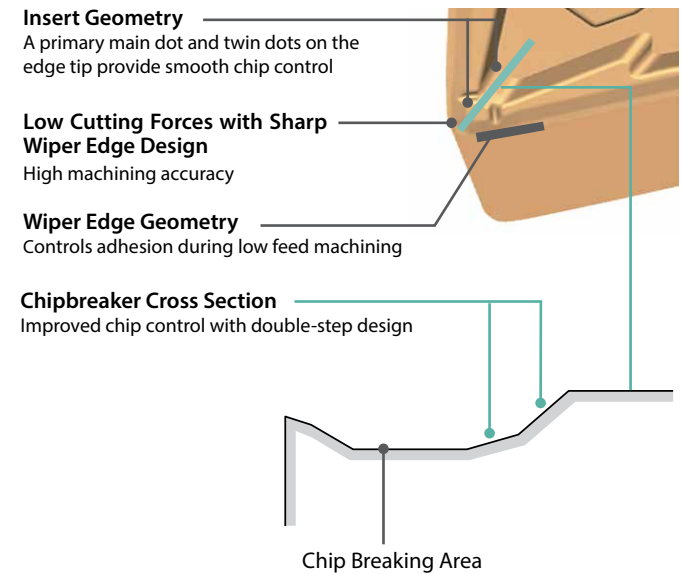
WF Chipbreaker (Finishing)

Excellent Surface Roughness with Twice the Feed Rate and Half the Cutting Time

Surface Finish Comparison (Internal Evaluation)



Cutting Conditions: $V_c = 820$ sfm, D.O.C. = 0.012", $f = 0.004 - 0.020$ ipr, Wet
CNMG432 Insert Workpiece: 4137



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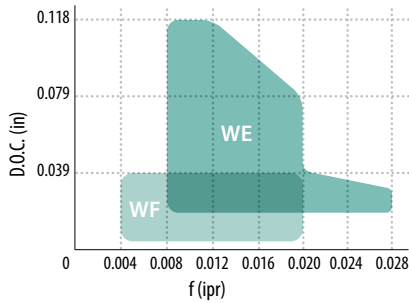
BUY 20 INSERTS, GET 10 FREE

All Inserts Must Be the Same Style and Grade

Promo Code: **KYO-WIPER-20**

WE Chipbreaker

Shape	Part Number	Dimensions (in)				MEGACOAT NANO Cermet		CVD Coated Carbide		
		I.C.	Thickness	Hole	Corner-R (re)	PV710	PV720	CA510	CA515	CA525
		● Light Interruption / 1st Choice ● Continuous / 1st Choice ○ Continuous / 2nd Choice								
	CNMG 431WE	1/2	3/16	0.203	1/64	●	●	○	●	●
	432WE				1/32	●	●	○	●	●
	433WE				3/64	●	●	○	●	●
	WNMG 431WE	1/2	3/16	0.203	1/64	●	●	○	●	●
	432WE				1/32	●	●	○	●	●
	433WE				3/64	●	●	○	●	●



WF Chipbreaker

Shape	Part Number	Dimensions (in)				MEGACOAT NANO Cermet		CVD Coated Carbide		
		I.C.	Thickness	Hole	Corner-R (re)	PV710	PV720	CA510	CA515	CA525
		● Light Interruption / 1st Choice ● Continuous / 1st Choice ○ Continuous / 2nd Choice								
	CNMG 431WF	1/2	3/16	0.203	1/64	●	●	○	●	●
	432WF				1/32	●	●	○	●	●
	DNMX 431WF	1/2	3/16	0.203	1/64	●	●	○	●	●
	432WF				1/32	●	●	○	●	●
	433WF				3/64	●	●	○	●	●
	DNMX 441WF		1/4	1/64	●	●	○	●	●	
	442WF			1/32	●	●	○	●	●	
443WF	3/64	●	●	○	●	●				
	TNMX 331WF	3/8	3/16	0.150	1/64	●	●	○	●	●
	332WF				1/32	●	●	○	●	●
	333WF				3/64	●	●	○	●	●
	WNMG 431WF	1/2	3/16	0.203	1/64	●	●	○	●	●
	432WF				1/32	●	●	○	●	●

● : U.S. Stock ○ : World Express (Shipping: 7-10 Business Days)

Inserts sold in 10 piece boxes

TURNING KITS

(1 Double-Clamp Holder & 10 Inserts)

Promo Code: **KYO-WIPER-KIT**

Toolholders

Toolholder	Shank Size (Square)	Overall Length	Insert Description	Chipbreaker (Pick 1)	Grades (Pick 1)	U.S. Kit Price				
	DCLN 12-4B	0.750"	CNMG431 CNMG432 CNMG433	WE (Finishing-Medium)	CVD Carbide CA510 CA515 CA525	\$99.00				
	DCLN 16-4D	1.000"				\$109.00				
	DDJN 12-4B	0.750"	DNMX431 DNMX432 DNMX433			WF (Finishing)	PVD Coated Cermet PV710 PV720	\$109.00		
	DDJN 16-4D	1.000"						\$119.00		
	DWLN 12-4B	0.750"	WNMG431 WNMG432 WNGM433					WE (Finishing-Medium)	CVD Carbide CA510 CA515 CA525	\$99.00
	DWLN 16-4D	1.000"								\$109.00

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Ceramic Turning Inserts

For Roll Turning & Heat-Resistant Alloys

Use grade KXW1 whisker-reinforced ceramic for plunging and semi-finishing and grade KS6040 SiAlON ceramic for roughing applications.



BUY 30 INSERTS, GET 10 FREE
All Inserts Must Be the Same Style and Grade

Promo Code: *KYO-CERAMIC-FREE*

KXW1

Whisker-Reinforced Ceramic

for Plunging & Semi-finish Work

When to Choose Whisker (KXW1)

- First choice for plunging operations
- Can be used at higher cutting speeds and lower feed rates than SiAlON (KS6040)
- Stable choice for roughing and semi-finishing operations

KXW1 Applications

Application	Cutting Speed (sfm)	Feed Rate (ipr)	Depth of Cut
Roughing	600 - 1200	0.004 - 0.010	0.040 - 0.125
Semi-Finish / Profiling	600 - 1500	0.004 - 0.008	0.020 - 0.080
Plunging	600 - 1200	0.003 - 0.006	-

KS6040

SiAlON Ceramic

for Roughing Applications

When to Choose SiAlON (KS6040)

- First choice for rough machining of inconel and waspalo alloy forgings
- Economical alternative to whisker-reinforced ceramics with lower cost per part for roughing operations
- Recommended at lower cutting speeds and higher feed rates than whisker (KXW1)
- Not recommended for plunging operations

KS6040 Applications

Application	Cutting Speed (sfm)	Feed Rate (ipr)	Depth of Cut
Roughing, with Scale	450 - 800	0.008 - 0.012	0.040 - 0.200
Roughing, without Scale	600 - 900	0.008 - 0.014	0.040 - 0.200

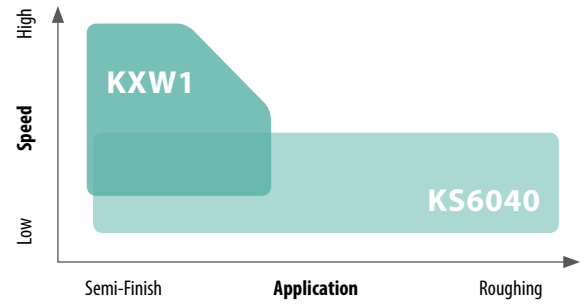
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BUY 30 INSERTS, GET 10 FREE
 All Inserts Must Be the Same Style and Grade

Promo Code: **KYO-CERAMIC-FREE**



Inserts

★ Roughing / 1st Choice ☆ Semi-Finishing / 1st Choice				S	Heat Resistant Alloy (Ni-base)		★	☆	
Edge Prep				Part Number	Edge Prep (in)	Dimensions (in)		SIAION Ceramic	Whisker-Reinforced Ceramic
Symbol	Cutting Edge Spec.					ØD	A	KS6040	KXW1
T	Chamfered Cutting Edge	T00420	0.004" x20° Chamfered Cutting Edge						
Insert									
				RNG 45T00420	T00420	1/2	5/16	●	●
				RNG 65T00420		3/4	5/16	●	
				RCGX 24T00220	T00220	1/4	1/4		●
				RCGX 35T00420	T00420	3/8	0.315	●	●
				RCGX 45T00420		1/2	0.315	●	●
				RPGX 35T00420	T00420	3/8	0.315	●	
				RPGX 45T00420		1/2	0.315	●	

● : U.S. Stock

Inserts sold in 10 piece boxes

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 SOLID ROUND SOLUTIONS

Multi-Edge CBN for Hard Turning

KBN05M Economical Double-sided, Multi-edge CBN Inserts

NEW



Two Ways to Save!

- 1) Buy 3 Inserts, Get 1 FREE (Promo Code: KYO-CBN-3)
- 2) Turning Kits with Holder & 1 Insert (Promo Code: KYO-CBN-KIT)

KBN05M CBN

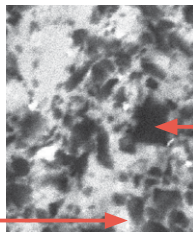
Used in a Wide Range of Applications from Continuous (High-speed Finishing) to Interrupted Machining

Hybrid Grain Structure (KBN05M)
Mixed Structure of Micro Grain CBN and Coarse Grain CBN

CBN possesses high hardness, toughness and thermal resistance characteristics

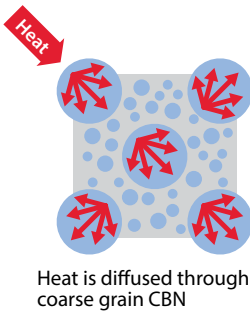
High Thermal Conductivity

CBN Structure



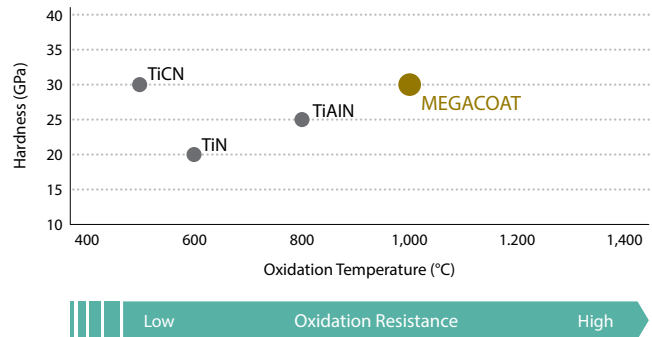
Coarse Grain CBN

Micro Grain CBN



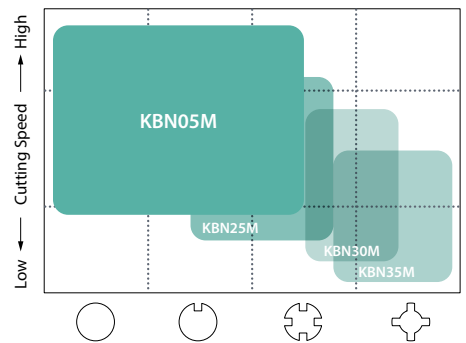
Superior Wear and Oxidation Resistance with MEGACOAT

Coating Properties



Recommended Cutting Conditions

Workpiece	Hardness	Application		Cutting Conditions		
				Vc (sfm)	D.O.C. (mm)	(ipr)
Hardened Material	> 55 HRC	General Finishing	Continuous to Interrupted	330 - 490 - 660	0.002 - 0.012 - 0.020	0.002 - 0.003 - 0.004



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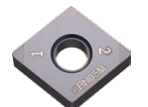



SOLID ROUND SOLUTIONS

BUY 3 INSERTS, GET 1 FREE

Mix-and-Match Sizes and Geometries / Free Insert Must Be of Equal or Lesser Value

Promo Code: **KYO-CBN-3**

KBN05M Inserts

Shape	Part Number	Edge Specification	Dimensions (in)					No. of Edges	KBN05M
			I.C.	Thickness	Hole	Corner-R (rε)	S		
	CNGA 431ME4	S00525	1/2	3/16	0.203	1/64	0.102	4	●
	432ME4					1/32	0.102		●
	433ME4					3/64	0.098		●
	DNGA 431ME4					1/64	0.102		●
	432ME4					1/32	0.087		●
	433ME4					3/64	0.075		●
	TNGA 331ME6		3/8	0.150	1/64	0.106	6	●	
	332ME6				1/32	3/32		●	
	333ME6				3/64	0.083		●	
	VNGA 331ME4	1/64			0.079	4	●		
	332ME4	1/32			0.071		●		

S00525: 0.005" X 25° Chamfered + Honed Cutting Edge

● : U.S. Stock




CBN Inserts sold in 1 piece boxes

TURNING KITS

(1 Double-Clamp Holder & 1 Insert)

Promo Code: **KYO-CBN-KIT**

Toolholders

Toolholder	Shank Size (Square)	Overall Length	Insert Description (Pick 1)	U.S. Kit Price
	DCLN 12-4B	0.750"	CNGA431ME4 KBN05M CNGA432ME4 KBN05M CNGA433ME4 KBN05M	\$109.00
	DCLN 16-4D	1.000"		\$119.00
	DDJN 12-4B	0.750"	DNGA431ME4 KBN05M DNGA432ME4 KBN05M DNGA433ME4 KBN05M	\$109.00
	DDJN 16-4D	1.000"		\$119.00
	DVJN 12-3B	0.750"	VNGA331ME4 KBN05M VNGA332ME4 KBN05M	\$109.00
	DVJN 16-3D	1.000"		\$119.00

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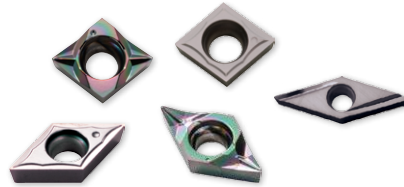
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Positive-Style Turning Kits

For Steel, Stainless Steel, and Non-Ferrous Turning

New turning kits available with multiple insert grades and chipbreakers to choose from to perform various machining operations in steel, stainless steel and non-ferrous.



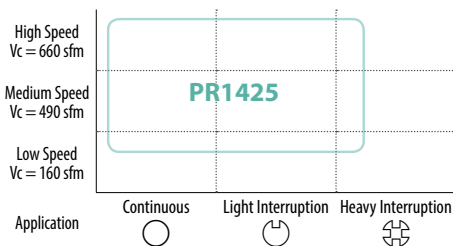
Grade Selection

Material	Description	Color	Main Component (Coating Composition)	Advantages
P Steel	PR1425	Blackish Red	MEGACOAT NANO	<ul style="list-style-type: none"> Nano thin multi-layer coating performs with superior wear resistance and high oxidation resistance Application: Stable cutting of steel and high-speed stainless steel with extended tool life
M Stainless Steel				
P Steel	PR1225	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> Superior wear and oxidation resistant MEGACOAT on micro grain carbide substrate Application: Light interrupted to interrupted cutting of stainless steel
M Stainless Steel				
N Non-Ferrous Metals	PDL025	Iridescent	C	<ul style="list-style-type: none"> Hydrogen free DLC coating for high hardness close to that of diamond Application: Stable cutting of aluminum

PR1425 MEGACOAT NANO

Steel Machining

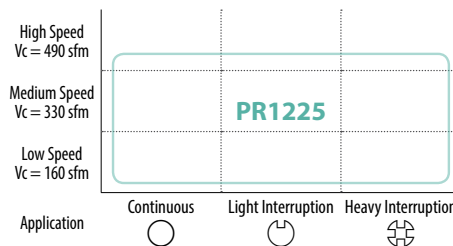
Superior performance in various steel cutting applications due to Kyocera's proprietary multi-layer MEGACOAT NANO coating.



PR1225 MEGACOAT

Stainless Steel Machining

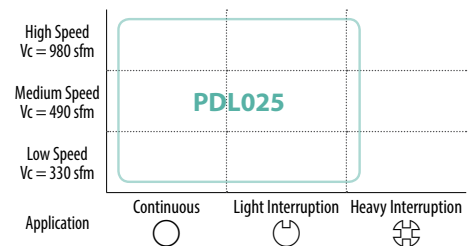
The high bonding strength of MEGACOAT technology provides the coating stability required for stainless steel machining.



PDL025 DLC Coating

Non-ferrous Machining

Achieves long tool life with Kyocera's proprietary hydrogen-free DLC coating with hardness close to that of diamond.



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SOLID ROUND SOLUTIONS

TURNING KITS

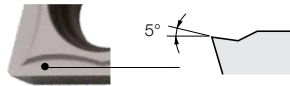
Choose 1 SCLC Holder and 10 CCGT Inserts

Promo Code: **KYO-TURNKIT-17**

GQ Chipbreaker

Finishing-Medium

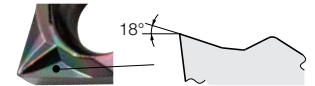
Enables cutting over a wide range of conditions by using the optimum chipbreaker width according to the cutting depth.



SK Chipbreaker

Finishing

Sharp cutting performance due to Large rake angle. Large dot to the corner edge improved chip control in a wide feed rate range.



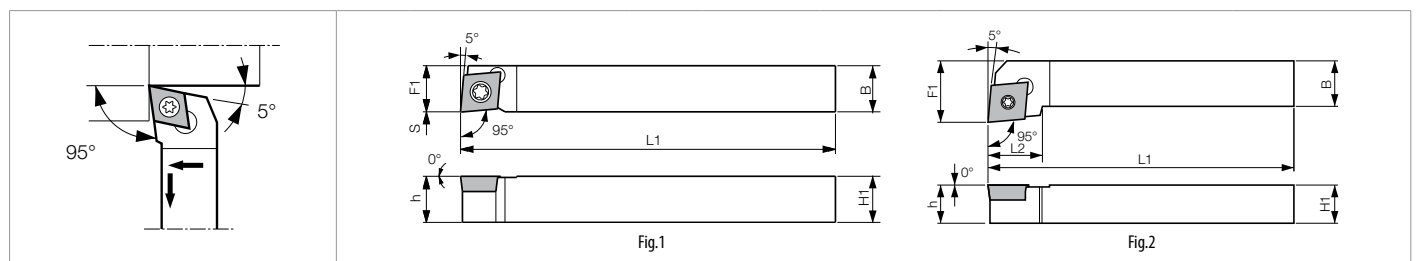
CCGT Inserts

Insert	Part Number	Dimensions (in)					MEGACOAT NANO	DLC Coating
		I.C.	Thickness	Hole	Corner-R (rε)	Relief Angle	PR1425	PDL025
	CCGT 32502MFP-GQ	3/8	5/32	0.173	<0.004	7°	●	
	32505MFP-GQ				<0.008		●	
	3251MFP-GQ				<1/64		●	
	CCGT 32502MFP-SK	3/8	5/32	0.173	<0.004	7°		●
	32505MFP-SK				<0.008			●
	3251MFP-SK				<1/64			●

● : U.S. Stock

Inserts sold in 10 piece boxes

SCLC Toolholders



Toolholder	Dimensions (in)					Corner-R (rε)	Drawing	Spare Parts		Insert Size See Above (Pick 1)	Chipbreaker & Grade See Above (Pick 1)	U.S. Kit Price
	H1=h	B	L1	L2	F1			Insert Screw	Wrench			
SCLC [®] 8-3JXFF	0.500	0.500	4.750	-	0.500	0.008	Fig.1	SB-4085TR	FT-15	CCGT32502 CCGT32505 CCGT3251	MFP-GQ PR1425 Finishing / Medium for Steel & Stainless Steel	\$99.00
SCLC [®] 10-3JXFF	0.625	0.625	4.750	-	0.625	0.008						\$109.00
SCLC [®] 12-3C	0.750	0.750	5.000	0.572	0.875	0.004	Fig.2	SB-4085TR	FT-15		MFP-SK PDL025 Finishing for Non-Ferrous Materials	\$119.00
SCLCR 16-3D	1.000	1.000	6.000	0.790	1.250	0.008						\$149.00

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SOLID ROUND SOLUTIONS

TURNING KITS

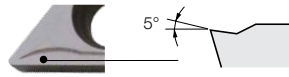
Choose 1 SDJC Holder and 10 DCGT Inserts

Promo Code: **KYO-TURNKIT-17**

GQ Chipbreaker

Finishing-Medium

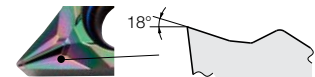
Enables cutting over a wide range of conditions by using the optimum chipbreaker width according to the cutting depth.



SK Chipbreaker

Finishing

Sharp cutting performance due to Large rake angle. Large dot to the corner edge improved chip control in a wide feed rate range.



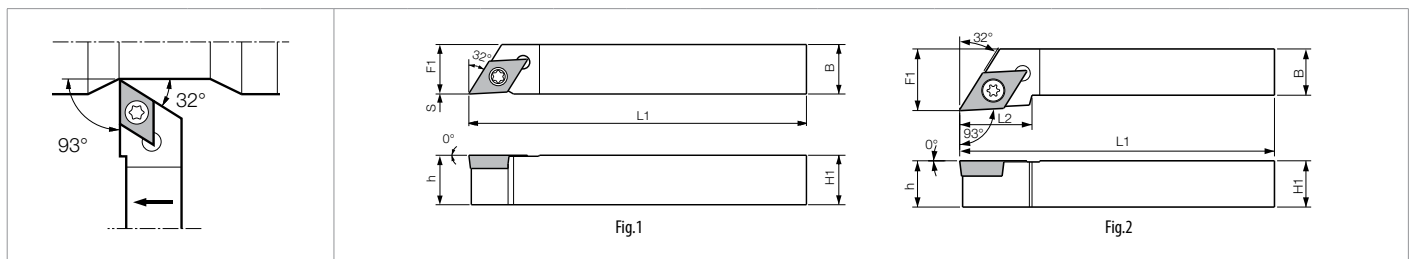
DCGT Inserts

Insert	Part Number	Dimensions (in)					MEGACOAT NANO	DLC Coating
		I.C.	Thickness	Hole	Corner-R (rc)	Relief Angle	PR1425	PDL025
	DCGT 32502MFP-GQ	3/8	5/32	0.173	<0.004	7°	●	
	32505MFP-GQ				<0.008		●	
	3251MFP-GQ				<1/64		●	
	DCGT 32502MFP-SK	3/8	5/32	0.173	<0.004	7°		●
	32505MFP-SK				<0.008			●
	3251MFP-SK				<1/64			●

● : U.S. Stock

Inserts sold in 10 piece boxes

SDJC Toolholders



Toolholder	Dimensions (in)					Corner-R (rc)	Drawing	Spare Parts		Insert Size See Above (Pick 1)	Chipbreaker & Grade See Above (Pick 1)	U.S. Kit Price
	H1=h	B	L1	L2	F1			Insert Screw	Wrench			
SDJC[®]/L 8-3JXFF	0.500	0.500	4.750	-	0.500	0.008	Fig.1	SB-408STR	FT-15	DCGT32502 DCGT32505 DCGT3251	MFP-GQ PR1425 Finishing / Medium for Steel & Stainless Steel	\$119.00
SDJC[®]/L 10-3JXFF	0.625	0.625	4.750	-	0.625	0.008						\$129.00
SDJC[®]/L 12-3C	0.750	0.750	5.000	0.709	0.875	0.004	Fig.2	SB-408STR	FT-15		MFP-SK PDL025 Finishing for Non-Ferrous Materials	\$139.00
SDJCR 16-3D	1.000	1.000	6.000	0.810	1.250	0.008					\$159.00	

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SOLID ROUND SOLUTIONS

TURNING KITS

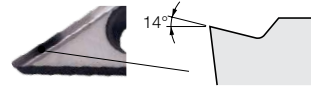
Choose 1 SVJB Holder and 10 VBGT Inserts

Promo Code: **KYO-TURNKIT-17**

Y Chipbreaker

Finishing-Medium

Sharp cutting performance and good surface finish.



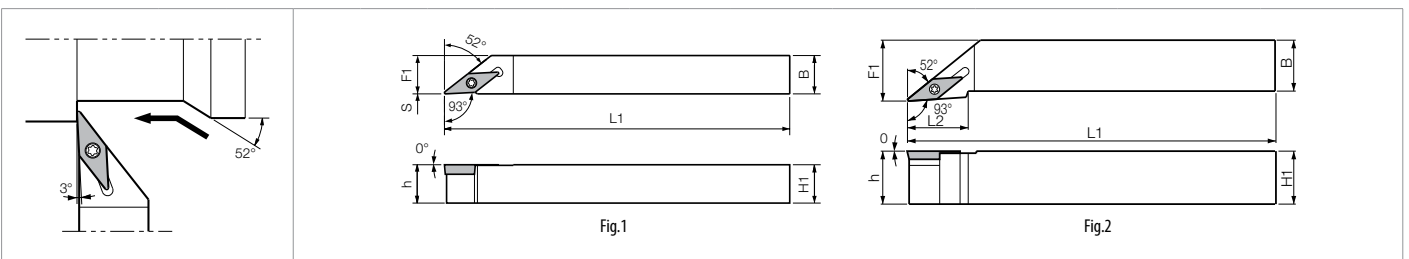
VBGT Inserts

Insert	Part Number	Dimensions (in)					MEGACOAT
		I.C.	Thickness	Hole	Corner-R (rε)	Relief Angle	PR1225
	VBGT 22013M%L -Y	1/4	1/8	0.110	<0.002	5°	●
	2202M%L -Y				<0.004		●
	2205M%L -Y				<0.008		●
	221M%L -Y				<1/64		●
	222M%L -Y				<1/32		●
	VBGT 3305M%L -Y	3/8	3/16	0.173	<0.008	5°	●
	331M%L -Y				<1/64		●
	332M%L -Y				<1/32		●

● : U.S. Stock

SVJB Toolholders

Inserts sold in 10 piece boxes



Toolholder	Dimensions (in)					Corner-R (rε)	Drawing	Spare Parts		Insert Size See Above (Pick 1)	Chipbreaker See Above	Grade See Above	U.S. Kit Price
	H1=h	B	L1	L2	F1			Insert Screw	Wrench				
SVJB%L 8-2JXFF	0.500	0.500	4.750	-	0.500	1/64	Fig.1	SB-408STR	FT-8	VBGT22013M%L VBGT2202M%L VBGT2205M%L VBGT221M%L VBGT222M%L	-Y Finishing / Medium	PR1225 for Steel & Stainless Steel	\$129.00
SVJB%L 10-2JXFF	0.625	0.625	4.750	-	0.625	1/64							\$139.00
SVJB%L 12-3C	0.750	0.750	5.000	1.220	0.875	1/32	Fig.2	SB-408STR	T-15				\$169.00
SVJBR 16-3D	1.000	1.000	6.000	1.250	1.250	1/32							\$179.00

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GBA Grooving System

Economical Grooving with 3 Cutting Edges per Insert

- Megacoat PR1215 inserts for consistently long tool life
- GBA-MY molded chipbreaker produces smooth chip evacuation
- Pin-lock Design eliminates top clamp and improves chip evacuation



Buy 10 GBA Inserts,
Get 1 Toolholder **FREE**

Promo Code: **KYO-GBA-FREE**

KGBA Toolholders

Toolholder		Shank Size (Square)	Overall Length	Insert Part Numbers Pick up to 2 Insert Sizes (See Next Page for Inserts)	Applicable Groove Width	Insert Grades (Pick 1)	Required Insert Purchase
	KGBAR 12-3	0.75" Square	5.00"	GBA32R000N	0.031" ~ 0.094"	PR1215 MEGACOAT Carbide for Steel, Stainless & Exotic Metals	10
	KGBAL 12-3	0.75" Square		GBA32L000N			10
	KGBAR 16-3	1.00" Square	6.00"	GBA32R000N			10
	KGBAL 16-3	1.00" Square		GBA32L000N			10
	KGBAR 12-4-15	0.75" Square	5.00"	GBA43R000(MY)N	0.031" ~ 0.088"		10
	KGBAL 12-4-15	0.75" Square		GBA43L000(MY)N			10
	KGBAR 12-4-25	0.75" Square	5.00"	GBA43R000(MY)N	0.094" ~ 0.125"		10
	KGBAL 12-4-25	0.75" Square		GBA43L000(MY)N			10
	KGBAR 12-4-35	0.75" Square	5.00"	GBA43R000(MY)N	0.141" ~ 0.188"		10
	KGBAL 12-4-35	0.75" Square		GBA43L000(MY)N			10
	KGBAR 16-4-15	1.00" Square	6.00"	GBA43R000(MY)N	0.031" ~ 0.088"		10
	KGBAL 16-4-15	1.00" Square		GBA43L000(MY)N			10
	KGBAR 16-4-25	1.00" Square	6.00"	GBA43R000(MY)N	0.094" ~ 0.125"		10
	KGBAL 16-4-25	1.00" Square		GBA43L000(MY)N			10
KGBAR 16-4-35	1.00" Square	6.00"	GBA43R000(MY)N	0.141" ~ 0.188"	10		
KGBAL 16-4-35	1.00" Square		GBA43L000(MY)N		10		
	KIGBAR 16-3	1.00" Round	9.00"	GBA32L000N	0.031" ~ 0.094"	PV7040 MEGACOAT Cermet for Steel & Cast Iron	10
	KIGBAL 16-3	1.00" Round		GBA32R000N			10
	KIGBAR 20-4	1.25" Round	10.00"	GBA43L000(MY)N	0.031" ~ 0.188"		10
	KIGBAL 20-4	1.25" Round		GBA43R000(MY)N			10

*Inserts sold in 5-piece packs. Not all 10 inserts need to be identical. Required insert purchase can be mixed-and-matched.

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SOLID ROUND SOLUTIONS

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



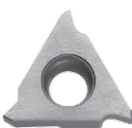
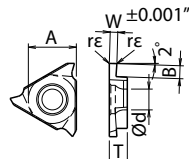
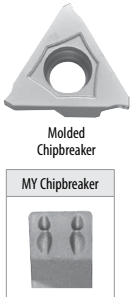
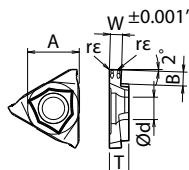
GBA-MY

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

Buy 10 GBA Inserts, Get 1 Toolholder FREE

Promo Code: **KYO-GBA-FREE**

GBA Inserts

Usage Classification		P	Carbon Steel / Alloy Steel	●	●	Applicable External Toolholder	Applicable Internal Toolholder		
● : Light Interruption / 1st Choice ● : Continuous / 1st Choice		M	Stainless Steel	●					
		K	Cast Iron						
		N	Non-ferrous Metals						
		S	Titanium Alloy (Ti-6Al-4V)	●					
		H	Hard Materials (≤40HRC)	●					
Insert	Part Number	Dimensions (in)						MEGACOAT Carbide	MEGACOAT Cermet
		A	T	Ød	W	B	rε	PR1215	PV7040
 	GBA32% 031N	0.375	0.125	0.173	0.031	0.079	0.002	●	
	041N				0.041	0.079	0.002	●	●
	047N				0.047	0.079	0.008	●	●
	058N				0.058	0.079	0.008	●	●
	062N				0.062	0.079	0.008	●	●
	078N				0.078	0.098	0.008	●	●
	094N				0.094	0.098	0.008	●	●
	GBA43% 031N	0.500	0.187	0.217	0.031	0.079	0.008	●	●
	047N				0.047	0.079	0.008	●	
	062N				0.062	0.138	0.008	●	●
	072N				0.072	0.138	0.008	●	●
	078N				0.078	0.138	0.008	●	
	088N				0.088	0.138	0.008	●	●
	094N				0.094	0.157	0.012	●	●
097N	0.097				0.157	0.012	●	●	
105N	0.105				0.157	0.012	●	●	
110N	0.11				0.157	0.012		●	
125N	0.125				0.157	0.012	●		
141N	0.141				0.197	0.012	●		
142N	0.142				0.197	0.012	●		
156N	0.156				0.197	0.016	●		
172N	0.172	0.197	0.016	●					
178N	0.178	0.197	0.016	●					
188N	0.188	0.197	0.016	●					
 	GBA43% 078MYN	0.375	0.125	0.173	0.078	0.138	0.008	●	
	094MYN				0.094	0.157	0.012	●	
	125MYN				0.125	0.157	0.012	●	
	156MYN				0.156	0.197	0.016	●	

• Dimension B shows available grooving depth

● : U.S. Stock ● : U.S. Stock (R-hand Only) ● : U.S. Stock (L-hand Only)

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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

New 1.5D Flange and Straight Shank Sizes Added! NEW



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TURNING SOLUTIONS

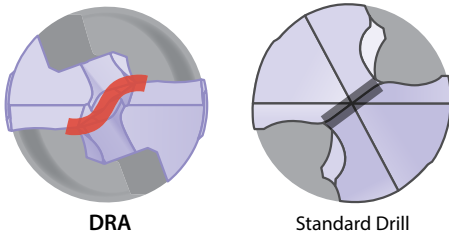
DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

1 Low Cutting Force Design Improves Hole Accuracy

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

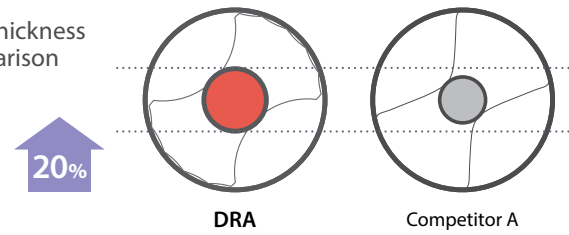
Cutting Edge Image



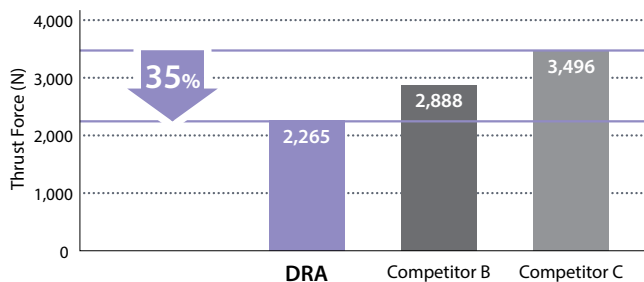
2 Optimal Web Thickness Limits Deflection

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

Web Thickness Comparison

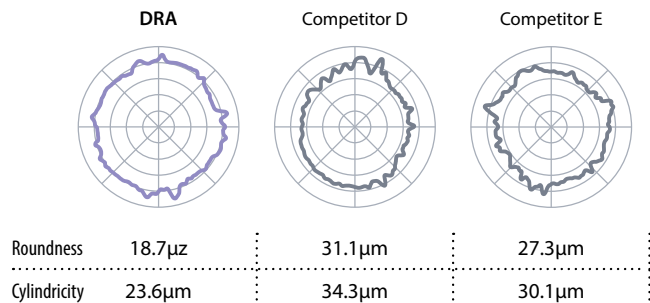


Low Cutting Force Comparison (In-house Evaluation)



Cutting Conditions : Vc = 390sfm, f = 0.010ipr, Drilling Diameter Ø0.551", Drilling Depth 1.772", Wet

Roundness · Cylindricity Comparison (In-house Evaluation)



Cutting Conditions : Vc = 390sfm, f = 0.012ipr, Drilling Diameter Ø0.551", Measurement Position 2.165", Wet Workpiece : 1049 Steel

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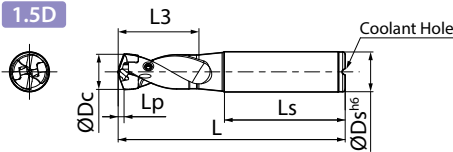
DRA Toolholders (Straight Shank - 1.5D) NEW

Choose (1) 1.5D Drill Body and (2) Inserts for Special Kit Price or Purchase (9) Inserts and Receive a 1.5D Drill Body FREE

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

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

Promo Code: **KYO-DRA-FREE**



For Lp dimension, reference insert dimension table.



Part Number	Stock	U.S. Kit Price	Dimension (in)						Applicable Insert See Page 32-33	Seat Size	Spare Parts	
			ØDc		ØDs	L	L3	Ls			Clamp Screw	Wrench
			min.	max.								
SS0375-DRA080M-1.5	●	\$219.00	0.313	0.334	0.375	2.608	0.504	1.575	DA0794M-GM ~ DA0840M-GM	080	HS-2524TRP	
SS0375-DRA085M-1.5	●	\$219.00	0.335	0.354		2.657	0.531		DA0850M-GM ~ DA0890M-GM	085		
SS0375-DRA090M-1.5	●	\$219.00	0.354	0.374		2.707	0.563		DA0900M-GM ~ DA0940M-GM	090		
SS0500-DRA095M-1.5	●	\$219.00	0.374	0.393	0.500	2.953	0.591	1.772	DA0950M-GM ~ DA0990M-GM	095		
SS0500-DRA100M-1.5	●	\$219.00	0.394	0.413		3.002	0.622		DA1000M-GM ~ DA1040M-GM	100		
SS0500-DRA105M-1.5	●	\$239.00	0.413	0.433		3.051	0.650		DA1050M-GM ~ DA1090M-GM	105		
SS0500-DRA110M-1.5	●	\$239.00	0.433	0.452	0.625	3.140	0.681	1.890	DA1100M-GM ~ DA1140M-GM	110	HS-2534TRP	FTP-5
SS0500-DRA115M-1.5	●	\$239.00	0.453	0.472		3.189	0.709		DA1150M-GM ~ DA1190M-GM	115		
SS0625-DRA120M-1.5	●	\$239.00	0.472	0.492		3.356	0.740		DA1200M-GM ~ DA1240M-GM	120		
SS0625-DRA125M-1.5	●	\$239.00	0.492	0.511	0.750	3.406	0.768	1.969	DA1250M-GM ~ DA1290M-GM	125		
SS0625-DRA130M-1.5	●	\$239.00	0.512	0.531		3.455	0.799		DA1300M-GM ~ DA1340M-GM	130		
SS0625-DRA135M-1.5	●	\$239.00	0.531	0.551		3.504	0.827		DA1350M-GM ~ DA1390M-GM	135		
SS0625-DRA140M-1.5	●	\$239.00	0.551	0.570	1.000	3.553	0.858	2.205	DA1400M-GM ~ DA1440M-GM	140	HS-3048TRP	FTP-6
SS0625-DRA145M-1.5	●	\$239.00	0.571	0.590		3.602	0.886		DA1450M-GM ~ DA1490M-GM	145		
SS0625-DRA150M-1.5	●	\$249.00	0.591	0.630		3.740	0.917		DA1500M-GM ~ DA1590M-GM	150		
SS0750-DRA160M-1.5	●	\$249.00	0.630	0.669	0.750	3.957	0.976	1.969	DA1600M-GM ~ DA1690M-GM	160		
SS0750-DRA170M-1.5	●	\$259.00	0.669	0.708		4.055	1.035		DA1700M-GM ~ DA1790M-GM	170		
SS0750-DRA180M-1.5	●	\$289.00	0.709	0.748		4.193	1.094		DA1800M-GM ~ DA1890M-GM	180		
SS1000-DRA190M-1.5	●	\$309.00	0.748	0.787	1.000	4.528	1.154	2.205	DA1900M-GM ~ DA1990M-GM	190	HS-4067TRP	FTP-7
SS1000-DRA200M-1.5	●	\$359.00	0.787	0.826		4.626	1.213		DA2000M-GM ~ DA2090M-GM	200		
SS1000-DRA210M-1.5	●	\$379.00	0.827	0.866		4.724	1.272		DA2100M-GM ~ DA2150M-GM	210		
SS1000-DRA220M-1.5	●	\$379.00	0.866	0.905	1.000	4.862	1.331	2.205	DA2200M-GM ~ DA2250M-GM	220		
SS1000-DRA230M-1.5	●	\$389.00	0.906	0.944		4.961	1.390		DA2300M-GM ~ DA2381M-GM	230		
SS1000-DRA240M-1.5	●	\$389.00	0.945	0.983		5.059	1.449		DA2400M-GM ~ DA2450M-GM	240		
SS1000-DRA250M-1.5	●	\$419.00	0.984	1.004		5.157	1.508		DA2500M-GM ~ DA2550M-GM	250		

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

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DRA Toolholders (with Flange - 1.5D) NEW

Choose (1) 1.5D Drill Body and (2) Inserts for Special Kit Price or Purchase (9) Inserts and Receive a 1.5D Drill Body FREE

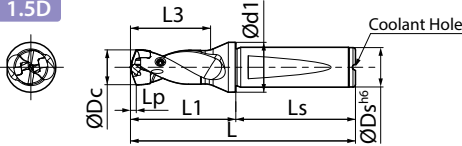
Chosen inserts must fit purchased drill body but do not need to be the same.

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

Promo Code: **KYO-DRA-FREE**

MILLING SOLUTIONS

1.5D



For Lp dimension, reference insert dimension table.



TURNING SOLUTIONS

DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

Part Number	Stock	U.S. Kit Price	Dimension (in)								Applicable Insert See Page 32-33	Seat Size	Spare Parts	
			ØDc		ØDs	L	L1	L3	Ls	Ød1			Clamp Screw	Wrench
			min.	max.										
SF0500-DRA080M-1.5	●	\$239.00	0.313	0.334	0.500	2.805	1.033	0.504	1.772	0.630	DA0794M-GM ~ DA0840M-GM	080	HS-2524TRP	
SF0500-DRA085M-1.5	●	\$239.00	0.335	0.354		2.854	1.083	0.531			DA0850M-GM ~ DA0890M-GM	085		
SF0500-DRA090M-1.5	●	\$239.00	0.354	0.374		2.904	1.132	0.563			DA0900M-GM ~ DA0940M-GM	090		
SF0500-DRA095M-1.5	●	\$239.00	0.374	0.393		2.953	1.181	0.591			DA0950M-GM ~ DA0990M-GM	095		
SF0625-DRA100M-1.5	●	\$239.00	0.394	0.413	0.625	3.120	1.230	0.622	1.890	0.787	DA1000M-GM ~ DA1040M-GM	100	HS-2534TRP	FTP-5
SF0625-DRA105M-1.5	●	\$239.00	0.413	0.433		3.169	1.280	0.650			DA1050M-GM ~ DA1090M-GM	105		
SF0625-DRA110M-1.5	●	\$239.00	0.433	0.452		3.258	1.368	0.681			DA1100M-GM ~ DA1140M-GM	110		
SF0625-DRA115M-1.5	●	\$239.00	0.453	0.472		3.307	1.417	0.709			DA1150M-GM ~ DA1190M-GM	115		
SF0625-DRA120M-1.5	●	\$239.00	0.472	0.492		3.356	1.467	0.740			DA1200M-GM ~ DA1240M-GM	120		
SF0625-DRA125M-1.5	●	\$239.00	0.492	0.511		3.406	1.516	0.768			DA1250M-GM ~ DA1290M-GM	125		
SF0625-DRA130M-1.5	●	\$239.00	0.512	0.531		3.455	1.565	0.799			DA1300M-GM ~ DA1340M-GM	130		
SF0625-DRA135M-1.5	●	\$239.00	0.531	0.551		3.504	1.614	0.827			DA1350M-GM ~ DA1390M-GM	135		
SF0625-DRA140M-1.5	●	\$239.00	0.551	0.570	0.750	3.553	1.663	0.858	1.969	0.984	DA1400M-GM ~ DA1440M-GM	140	HS-3048TRP	FTP-6
SF0625-DRA145M-1.5	●	\$239.00	0.571	0.590		3.602	1.713	0.886			DA1450M-GM ~ DA1490M-GM	145		
SF0750-DRA150M-1.5	●	\$239.00	0.591	0.630		3.819	1.850	0.917			DA1500M-GM ~ DA1590M-GM	150		
SF0750-DRA160M-1.5	●	\$239.00	0.630	0.669		3.957	1.988	0.976			DA1600M-GM ~ DA1690M-GM	160		
SF0750-DRA170M-1.5	●	\$259.00	0.669	0.708	1.000	4.055	2.087	1.035	2.205	1.260	DA1700M-GM ~ DA1790M-GM	170	HS-4067TRP	FTP-7
SF0750-DRA180M-1.5	●	\$279.00	0.709	0.748		4.193	2.224	1.094			DA1800M-GM ~ DA1890M-GM	180		
SF0750-DRA190M-1.5	●	\$299.00	0.748	0.787		4.291	2.323	1.154			DA1900M-GM ~ DA1990M-GM	190		
SF1000-DRA200M-1.5	●	\$349.00	0.787	0.826		4.626	2.421	1.213			DA2000M-GM ~ DA2090M-GM	200		
SF1000-DRA210M-1.5	●	\$359.00	0.827	0.866	4.724	2.520	1.272	DA2100M-GM ~ DA2150M-GM	210					
SF1000-DRA220M-1.5	●	\$359.00	0.866	0.905	4.862	2.657	1.331	DA2200M-GM ~ DA2250M-GM	220					
SF1000-DRA230M-1.5	●	\$389.00	0.906	0.944	4.961	2.756	1.390	DA2300M-GM ~ DA2381M-GM	230					
SF1000-DRA240M-1.5	●	\$389.00	0.945	0.983	5.059	2.854	1.449	DA2400M-GM ~ DA2450M-GM	240					
SF1000-DRA250M-1.5	●	\$419.00	0.984	1.004	5.157	2.953	1.508	DA2500M-GM ~ DA2550M-GM	250					

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

All 2017 Summer / Fall Promo Offers Valid through December 31, 2017

All promo 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. Prices Shown Valid in U.S. Only.

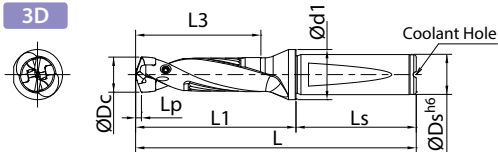
DRA Toolholders (with Flange - 3D)

Choose (1) 3D Drill Body and (2) Inserts for Special Kit Price or Purchase (10) Inserts and Receive a 3D Drill Body FREE

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

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

Promo Code: **KYO-DRA-FREE**



For Lp dimension, reference insert dimension table.



Part Number	Stock	U.S. Kit Price	Dimension (in)							Applicable Insert See Page 32-33	Seat Size	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	080	HS-2524TRP	
SF0500-DRA085M-3	●	\$249.00	0.335	0.354		3.386	1.614	1.063			DA0850M-GM ~ DA0890M-GM	085		
SF0500-DRA090M-3	●	\$249.00	0.354	0.374		3.465	1.693	1.122			DA0900M-GM ~ DA0940M-GM	090		
SF0500-DRA095M-3	●	\$249.00	0.374	0.393		3.543	1.772	1.181			DA0950M-GM ~ DA0990M-GM	095		
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	100	HS-2534TRP	FTP-5
SF0625-DRA105M-3	●	\$269.00	0.413	0.433		3.819	1.929	1.299			DA1050M-GM ~ DA1090M-GM	105		
SF0625-DRA110M-3	●	\$269.00	0.433	0.452		3.937	2.047	1.358			DA1100M-GM ~ DA1140M-GM	110		
SF0625-DRA115M-3	●	\$269.00	0.453	0.472		4.016	2.126	1.417			DA1150M-GM ~ DA1190M-GM	115		
SF0625-DRA120M-3	●	\$269.00	0.472	0.492		4.094	2.205	1.476			DA1200M-GM ~ DA1240M-GM	120		
SF0625-DRA125M-3	●	\$269.00	0.492	0.511		4.173	2.283	1.535			DA1250M-GM ~ DA1290M-GM	125		
SF0625-DRA130M-3	●	\$269.00	0.512	0.531		4.252	2.362	1.594			DA1300M-GM ~ DA1340M-GM	130		
SF0625-DRA135M-3	●	\$279.00	0.531	0.551		4.331	2.441	1.654			DA1350M-GM ~ DA1390M-GM	135		
SF0625-DRA140M-3	●	\$279.00	0.551	0.570		4.409	2.520	1.713			DA1400M-GM ~ DA1440M-GM	140		
SF0625-DRA145M-3	●	\$279.00	0.571	0.590		4.488	2.598	1.772			DA1450M-GM ~ DA1490M-GM	145		
SF0750-DRA150M-3	●	\$299.00	0.591	0.630	0.750	4.764	2.795	1.890	1.969	0.984	DA1500M-GM ~ DA1590M-GM	150	HS-3048TRP	FTP-6
SF0750-DRA160M-3	●	\$299.00	0.630	0.669		4.961	2.992	2.008			DA1600M-GM ~ DA1690M-GM	160		
SF0750-DRA170M-3	●	\$309.00	0.669	0.708		5.118	3.150	2.126			DA1700M-GM ~ DA1790M-GM	170		
SF0750-DRA180M-3	●	\$339.00	0.709	0.748		5.315	3.346	2.244			DA1800M-GM ~ DA1890M-GM	180		
SF0750-DRA190M-3	●	\$359.00	0.748	0.787	5.472	3.504	2.362	DA1900M-GM ~ DA1990M-GM	190					
SF1000-DRA200M-3	●	\$419.00	0.787	0.826	1.000	5.866	3.661	2.480	2.205	1.260	DA2000M-GM ~ DA2090M-GM	200	HS-4067TRP	FTP-7
SF1000-DRA210M-3	●	\$429.00	0.827	0.866		6.024	3.819	2.598			DA2100M-GM ~ DA2150M-GM	210		
SF1000-DRA220M-3	●	\$429.00	0.866	0.905		6.220	4.016	2.717			DA2200M-GM ~ DA2250M-GM	220		
SF1000-DRA230M-3	●	\$459.00	0.906	0.944		6.378	4.173	2.835			DA2300M-GM ~ DA2381M-GM	230		
SF1000-DRA240M-3	●	\$469.00	0.945	0.983		6.535	4.331	2.953			DA2400M-GM ~ DA2450M-GM	240		
SF1000-DRA250M-3	●	\$509.00	0.984	1.004		6.693	4.488	3.071			DA2500M-GM ~ DA2550M-GM	250		

● : 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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MILLING SOLUTIONS

TURNING SOLUTIONS

DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

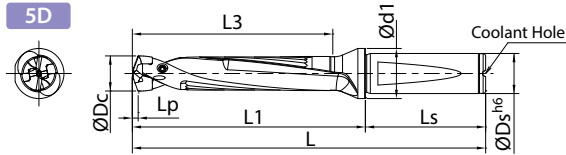
DRA Toolholders (with Flange - 5D)

Choose (1) 5D Drill Body and (2) Inserts for Special Kit Price or Purchase (11) Inserts and Receive a 5D Drill Body FREE

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

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

Promo Code: **KYO-DRA-FREE**



For Lp dimension, reference insert dimension table.



Part Number	Stock	U.S. Kit Price	Dimension (in)								Applicable Insert See Page 32-33	Seat Size	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	080	HS-2524TRP	
SF0500-DRA085M-5	●	\$279.00	0.335	0.354		4.094	2.323	1.772			DA0850M-GM ~ DA0890M-GM	085		
SF0500-DRA090M-5	●	\$279.00	0.354	0.374		4.213	2.441	1.870			DA0900M-GM ~ DA0940M-GM	090		
SF0500-DRA095M-5	●	\$279.00	0.374	0.393		4.331	2.559	1.969			DA0950M-GM ~ DA0990M-GM	095		
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	100	HS-2534TRP	FTP-5
SF0625-DRA105M-5	●	\$309.00	0.413	0.433		4.685	2.795	2.165			DA1050M-GM ~ DA1090M-GM	105		
SF0625-DRA110M-5	●	\$309.00	0.433	0.452		4.843	2.953	2.264			DA1100M-GM ~ DA1140M-GM	110		
SF0625-DRA115M-5	●	\$299.00	0.453	0.472		4.961	3.071	2.362			DA1150M-GM ~ DA1190M-GM	115		
SF0625-DRA120M-5	●	\$309.00	0.472	0.492		5.079	3.189	2.461			DA1200M-GM ~ DA1240M-GM	120		
SF0625-DRA125M-5	●	\$309.00	0.492	0.511		5.197	3.307	2.559			DA1250M-GM ~ DA1290M-GM	125		
SF0625-DRA130M-5	●	\$309.00	0.512	0.531		5.315	3.425	2.657			DA1300M-GM ~ DA1340M-GM	130		
SF0625-DRA135M-5	●	\$309.00	0.531	0.551		5.433	3.543	2.756			DA1350M-GM ~ DA1390M-GM	135		
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	140	HS-3048TRP	FTP-6
SF0625-DRA145M-5	●	\$309.00	0.571	0.590		5.669	3.780	2.953			DA1450M-GM ~ DA1490M-GM	145		
SF0750-DRA150M-5	●	\$339.00	0.591	0.630		6.024	4.055	3.150			DA1500M-GM ~ DA1590M-GM	150		
SF0750-DRA160M-5	●	\$339.00	0.630	0.669		6.299	4.331	3.346			DA1600M-GM ~ DA1690M-GM	160		
SF0750-DRA170M-5	●	\$349.00	0.669	0.708		6.535	4.567	3.543			DA1700M-GM ~ DA1790M-GM	170		
SF0750-DRA180M-5	●	\$389.00	0.709	0.748		6.811	4.843	3.740			DA1800M-GM ~ DA1890M-GM	180		
SF0750-DRA190M-5	●	\$409.00	0.748	0.787	7.047	5.079	3.937	DA1900M-GM ~ DA1990M-GM	190	HS-4067TRP	FTP-7			
SF1000-DRA200M-5	●	\$479.00	0.787	0.826	1.000	7.520	5.315	4.134	2.205			1.260	DA2000M-GM ~ DA2090M-GM	200
SF1000-DRA210M-5	●	\$489.00	0.827	0.866		7.756	5.551	4.331					DA2100M-GM ~ DA2150M-GM	210
SF1000-DRA220M-5	●	\$489.00	0.866	0.905		8.031	5.827	4.528					DA2200M-GM ~ DA2250M-GM	220
SF1000-DRA230M-5	●	\$519.00	0.906	0.944		8.268	6.063	4.724					DA2300M-GM ~ DA2381M-GM	230
SF1000-DRA240M-5	●	\$539.00	0.945	0.983		8.504	6.299	4.921					DA2400M-GM ~ DA2450M-GM	240
SF1000-DRA250M-5	●	\$579.00	0.984	1.004		8.740	6.535	5.116		DA2500M-GM ~ DA2550M-GM	250			

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

All 2017 Summer / Fall Promo Offers Valid through December 31, 2017

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MILLING SOLUTIONS
TURNING SOLUTIONS
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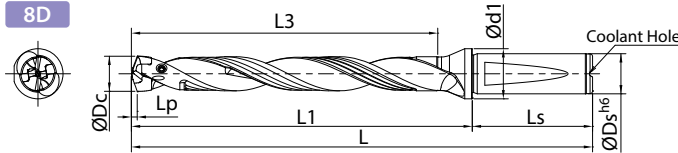
DRA Toolholders (with Flange - 8D)

Choose (1) 8D Drill Body and (2) Inserts for Special Kit Price or Purchase (12) Inserts and Receive a 8D Drill Body FREE

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

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

Promo Code: **KYO-DRA-FREE**



For Lp dimension, reference insert dimension table.



Part Number	Stock	U.S. Kit Price	Dimension (in)							Applicable Insert See Page 32-33	Seat Size	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	080	HS-2524TRP						
SF0500-DRA085M-8	●	\$329.00	0.335	0.354		5.157	3.386	2.835			DA0850M-GM ~ DA0890M-GM	085							
SF0500-DRA090M-8	●	\$329.00	0.354	0.374		5.315	3.543	2.992			DA0900M-GM ~ DA0940M-GM	090							
SF0500-DRA095M-8	●	\$329.00	0.374	0.393		5.512	3.740	3.150			DA0950M-GM ~ DA0990M-GM	095							
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	100	HS-2534TRP	FTP-5					
SF0625-DRA105M-8	●	\$359.00	0.413	0.433		5.984	4.094	3.465			DA1050M-GM ~ DA1090M-GM	105							
SF0625-DRA110M-8	●	\$359.00	0.433	0.452		6.181	4.291	3.622			DA1100M-GM ~ DA1140M-GM	110							
SF0625-DRA115M-8	●	\$359.00	0.453	0.472		6.378	4.488	3.780			DA1150M-GM ~ DA1190M-GM	115							
SF0625-DRA120M-8	●	\$369.00	0.472	0.492		6.535	4.646	3.937			DA1200M-GM ~ DA1240M-GM	120							
SF0625-DRA125M-8	●	\$359.00	0.492	0.511		6.732	4.843	4.094			DA1250M-GM ~ DA1290M-GM	125							
SF0625-DRA130M-8	●	\$369.00	0.512	0.531		6.890	5.000	4.252			DA1300M-GM ~ DA1340M-GM	130							
SF0625-DRA135M-8	●	\$359.00	0.531	0.551		7.087	5.197	4.409			DA1350M-GM ~ DA1390M-GM	135							
SF0625-DRA140M-8	●	\$359.00	0.551	0.570		7.244	5.354	4.567			DA1400M-GM ~ DA1440M-GM	140							
SF0625-DRA145M-8	●	\$359.00	0.571	0.590		7.441	5.551	4.724			DA1450M-GM ~ DA1490M-GM	145							
SF0750-DRA150M-8	●	\$379.00	0.591	0.630		0.750	7.913	5.945			5.039	1.969			0.984	DA1500M-GM ~ DA1590M-GM	150	HS-3048TRP	FTP-6
SF0750-DRA160M-8	●	\$389.00	0.630	0.669			8.307	6.339			5.354					DA1600M-GM ~ DA1690M-GM	160		
SF0750-DRA170M-8	●	\$399.00	0.669	0.708	8.661		6.693	5.669	DA1700M-GM ~ DA1790M-GM	170									
SF0750-DRA180M-8	●	\$449.00	0.709	0.748	9.055		7.087	5.984	DA1800M-GM ~ DA1890M-GM	180									
SF0750-DRA190M-8	●	\$469.00	0.748	0.787	9.409	7.441	6.299	DA1900M-GM ~ DA1990M-GM	190										
SF1000-DRA200M-8	●	\$549.00	0.787	0.826	1.000	10.000	7.795	6.614	2.205	1.260	DA2000M-GM ~ DA2090M-GM	200	HS-4067TRP	FTP-7					
SF1000-DRA210M-8	●	\$559.00	0.827	0.866		10.354	8.150	6.929			DA2100M-GM ~ DA2150M-GM	210							
SF1000-DRA220M-8	●	\$559.00	0.866	0.905		10.748	8.543	7.244			DA2200M-GM ~ DA2250M-GM	220							
SF1000-DRA230M-8	●	\$599.00	0.906	0.944		11.102	8.898	7.559			DA2300M-GM ~ DA2381M-GM	230							
SF1000-DRA240M-8	●	\$609.00	0.945	0.983		11.457	9.252	7.874			DA2400M-GM ~ DA2450M-GM	240							
SF1000-DRA250M-8	●	\$659.00	0.984	1.004		11.811	9.606	8.189			DA2500M-GM ~ DA2550M-GM	250							

● : U.S. Stock

Kit Includes 1 Drill Body and 2 Inserts

KYOCERA Precision Tools, Inc.

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MILLING SOLUTIONS

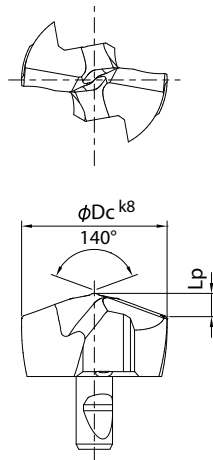
TURNING SOLUTIONS

DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

DRA Inserts

Cutting Diameter $\varnothing 0.313" \sim \varnothing 0.528"$ ($\varnothing 7.94\text{mm} \sim \varnothing 13.40\text{mm}$)



k8 Tolerance

$\varnothing Dc$ (in)	k8 (in)	$\varnothing Dc$ (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		Seat Size	Applicable Toolholder
	$\varnothing Dc$		L_p (in)	PR1535	PR1525		
	in	mm					
DA0794M-GM	0.313	7.94	0.053	●	●	080	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	●	●	085	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	●	●		
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	●	●		
DA0953M-GM	0.375	9.53	0.064	●	●		
DA0960M-GM	0.378	9.60	0.064	●	●	095	SS0500-DRA095M-○ SF0500-DRA095M-○
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	●	●		
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		Seat Size	Applicable Toolholder
	$\varnothing Dc$		L_p (in)	PR1535	PR1525		
	in	mm					
DA1050M-GM	0.413	10.50	0.071	●	●	105	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	●	●		
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	●	●	115	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	●	●		
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	●	●	125	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	●	●		

● : U.S. Stock

Inserts Sold in 1 Piece Boxes | Kits Include 2 Inserts

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DRILLING SOLUTIONS

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1st Recommendation

Steel
PR1535

Cast Iron
PR1525

DRA Inserts (Continued)

Cutting Diameter Ø0.531" ~ Ø1.004" (Ø13.50mm ~ Ø25.50mm)

Description	Dimensions			Grade		Seat Size	Applicable Toolholder	Description	Dimensions			Grade		Seat Size	Applicable Toolholder
	ØDc		Lp (in)	PR1535	PR1525				ØDc		Lp (in)	PR1535	PR1525		
	in	mm							in	mm					
DA1350M-GM	0.531	13.50	0.090	●	●	135	SS0625-DRA135M-○ SF0625-DRA135M-○	DA1800M-GM	0.709	18.00	0.120	●	●	180	SS0750-DRA180M-○ SF0750-DRA180M-○
DA1360M-GM	0.535	13.60	0.091	●	●			DA1810M-GM	0.713	18.10	0.120	●	●		
DA1370M-GM	0.539	13.70	0.092	●	●			DA1820M-GM	0.717	18.20	0.121	●	●		
DA1380M-GM	0.543	13.80	0.092	●	●			DA1830M-GM	0.720	18.30	0.122	●	●		
DA1390M-GM	0.547	13.90	0.093	●	●			DA1840M-GM	0.724	18.40	0.122	●	●		
DA1400M-GM	0.551	14.00	0.092	●	●	DA1850M-GM	0.728	18.50	0.123	●	●				
DA1410M-GM	0.555	14.10	0.092	●	●	DA1860M-GM	0.732	18.60	0.124	●	●				
DA1420M-GM	0.559	14.20	0.093	●	●	DA1870M-GM	0.736	18.70	0.125	●	●				
DA1430M-GM	0.563	14.30	0.094	●	●	DA1880M-GM	0.740	18.80	0.125	●	●				
DA1440M-GM	0.567	14.40	0.094	●	●	DA1890M-GM	0.744	18.90	0.126	●	●				
DA1450M-GM	0.571	14.50	0.095	●	●	DA1900M-GM	0.748	19.00	0.126	●	●				
DA1460M-GM	0.575	14.60	0.096	●	●	DA1905M-GM	0.750	19.05	0.127	●	●				
DA1468M-GM	0.578	14.68	0.096	●	●	DA1910M-GM	0.752	19.10	0.127	●	●				
DA1470M-GM	0.579	14.70	0.097	●	●	DA1920M-GM	0.756	19.20	0.128	●	●				
DA1480M-GM	0.583	14.80	0.097	●	●	DA1930M-GM	0.760	19.30	0.129	●	●				
DA1490M-GM	0.587	14.90	0.098	●	●	DA1940M-GM	0.764	19.40	0.129	●	●				
DA1500M-GM	0.591	15.00	0.099	●	●	DA1950M-GM	0.768	19.50	0.130	●	●				
DA1510M-GM	0.594	15.10	0.100	●	●	DA1960M-GM	0.772	19.60	0.131	●	●				
DA1520M-GM	0.598	15.20	0.101	●	●	DA1970M-GM	0.776	19.70	0.132	●	●				
DA1530M-GM	0.602	15.30	0.101	●	●	DA1980M-GM	0.780	19.80	0.132	●	●				
DA1540M-GM	0.606	15.40	0.102	●	●	DA1990M-GM	0.783	19.90	0.133	●	●				
DA1550M-GM	0.610	15.50	0.103	●	●	DA2000M-GM	0.787	20.00	0.133	●	●				
DA1560M-GM	0.614	15.60	0.103	●	●	DA2010M-GM	0.791	20.10	0.134	●	●				
DA1570M-GM	0.618	15.70	0.104	●	●	DA2020M-GM	0.795	20.20	0.134	●	●				
DA1580M-GM	0.622	15.80	0.105	●	●	DA2030M-GM	0.799	20.30	0.135	●	●				
DA1590M-GM	0.626	15.90	0.106	●	●	DA2040M-GM	0.803	20.40	0.136	●	●				
DA1600M-GM	0.630	16.00	0.106	●	●	DA2050M-GM	0.807	20.50	0.136	●	●				
DA1610M-GM	0.634	16.10	0.107	●	●	DA2060M-GM	0.811	20.60	0.137	●	●				
DA1620M-GM	0.638	16.20	0.107	●	●	DA2064M-GM	0.813	20.64	0.137	●	●				
DA1630M-GM	0.642	16.30	0.108	●	●	DA2070M-GM	0.815	20.70	0.138	●	●				
DA1640M-GM	0.646	16.40	0.109	●	●	DA2080M-GM	0.819	20.80	0.139	●	●				
DA1650M-GM	0.650	16.50	0.110	●	●	DA2090M-GM	0.823	20.90	0.139	●	●				
DA1660M-GM	0.654	16.60	0.110	●	●	DA2100M-GM	0.827	21.00	0.140	●	●				
DA1667M-GM	0.656	16.67	0.111	●	●	DA2150M-GM	0.846	21.50	0.143	●	●				
DA1670M-GM	0.657	16.70	0.111	●	●	DA2200M-GM	0.866	22.00	0.146	●	●				
DA1680M-GM	0.661	16.80	0.112	●	●	DA2223M-GM	0.875	22.23	0.148	●	●				
DA1690M-GM	0.665	16.90	0.112	●	●	DA2250M-GM	0.886	22.50	0.150	●	●				
DA1700M-GM	0.669	17.00	0.113	●	●	DA2300M-GM	0.906	23.00	0.153	●	●				
DA1710M-GM	0.673	17.10	0.113	●	●	DA2350M-GM	0.925	23.50	0.156	●	●				
DA1720M-GM	0.677	17.20	0.114	●	●	DA2381M-GM	0.937	23.81	0.158	●	●				
DA1730M-GM	0.681	17.30	0.115	●	●	DA2400M-GM	0.945	24.00	0.159	●	●				
DA1740M-GM	0.685	17.40	0.116	●	●	DA2450M-GM	0.965	24.50	0.163	●	●				
DA1746M-GM	0.687	17.46	0.116	●	●	DA2500M-GM	0.984	25.00	0.165	●	●				
DA1750M-GM	0.689	17.50	0.116	●	●	DA2540M-GM	1.000	25.40	0.168	●	●				
DA1760M-GM	0.693	17.60	0.117	●	●	DA2550M-GM	1.004	25.50	0.169	●	●				
DA1770M-GM	0.697	17.70	0.118	●	●										
DA1780M-GM	0.701	17.80	0.118	●	●										
DA1790M-GM	0.705	17.90	0.119	●	●										

● : U.S. Stock

Inserts Sold in 1 Piece Boxes | Kits Include 2 Inserts

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DRZ Magic Drill Kits

Stable and Efficient Indexable Drills

Four Cutting Edges per Insert

Promotes cost savings and increased efficiency with a single insert in both pockets

Smooth Chip Evacuation

Molded chipbreaker produces three separate chips for smooth chip evacuation

MEGACOAT PVD for Long Tool Life

MEGACOAT PVD coated carbides for stable machining of a variety of applications


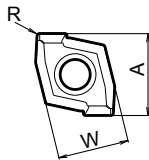
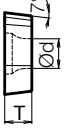


MILLING SOLUTIONS

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DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

DRZ Magic Drill Inserts												
Usage Classification	P	Carbon Steel / Alloy Steel						★	☆			
		Mold Steel						★				
★ 1st Choice ☆ 2nd Choice	M	Stainless Steel						☆	★			
	K	Gray Cast Iron									★	
		Ductile Cast Iron										
	N	Non-ferrous Metals										★
Insert	Part Number	Dimensions (in)					Angle	MEGACOAT				Uncoated Carbide
		A	T	Ød	W	re	α	PR1230	PR1225	PR1210	KW10	
  	ZCMT 050203	0.232	0.094	0.091	0.107	0.012	7°	●	●	●	●	
	06T204	0.276	0.110	0.098	0.236	0.016	7°	●	●	●	●	
	080304	0.381	0.125	0.114	0.323	0.016	7°	●	●	●	●	
	10T304	0.473	0.156	0.173	0.409	0.016	7°	●	●	●	●	
	12T306	0.562	0.156	0.220	0.504	0.024	7°	●	●	●	●	
	150408	0.702	0.187	0.220	0.622	0.031	7°	●	●	●	●	

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Inserts sold in 10 piece boxes

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Inch Dia. / Inch Shank
DRZ Toolholders (Ø0.562"~Ø2.000")



Choose (1) Drill Body and (10) Inserts

Choose your drill and insert grade.
 Promo Code: **KYO-DRZ-KIT**

2xD

Drill Description	Stock	Drill Dia.	Insert Description See ☺ Page 34	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
S75-DRZ5621125-05G	●	0.562"	ZCMT050203	PR1230 Carbon Steel & Alloy Steel PR1225 Stainless Steel PR1210 Gray and Nodular Cast Iron KW10 Non-ferrous Metals	10	\$299.00
S100-DRZ6251250-06G	●	0.625"	ZCMT06T204		10	\$309.00
S100-DRZ6561312-06G	●	0.656"			10	\$309.00
S100-DRZ6881375-06G	●	0.688"			10	\$309.00
S100-DRZ7501500-06G	●	0.750"			10	\$309.00
S100-DRZ8121625-06G	●	0.812"			10	\$309.00
S100-DRZ8751750-08G	●	0.875"	ZCMT080304		10	\$309.00
S100-DRZ9381875-08G	●	0.938"			10	\$309.00
S100-DRZ10002000-08G	●	1.000"			10	\$349.00
S100-DRZ10622125-10G	●	1.062"	ZCMT10T304		10	\$349.00
S100-DRZ11252250-10G	●	1.125"			10	\$349.00
S100-DRZ11882375-10G	●	1.188"			10	\$349.00
S100-DRZ12502500-10G	●	1.250"			10	\$349.00
S125-DRZ13122625-12G	●	1.312"	ZCMT12T306		10	\$349.00
S125-DRZ13752750-12G	●	1.375"			10	\$349.00
S125-DRZ14382875-12G	●	1.438"			10	\$349.00
S125-DRZ15003000-12G	●	1.500"			10	\$349.00
S125-DRZ15623125-12G	●	1.562"			10	\$419.00
S125-DRZ16253250-15G	●	1.625"			10	\$419.00
S125-DRZ16883375-15G	●	1.688"			ZCMT150408	10
S125-DRZ17503500-15G	●	1.750"	10	\$419.00		
S125-DRZ18123625-15G	●	1.812"	10	\$419.00		
S125-DRZ18753750-15G	●	1.875"	10	\$419.00		
S125-DRZ19383875-15G	●	1.938"	10	\$419.00		
S125-DRZ20004000-15G	●	2.000"	10	\$419.00		

DRZ
Magic Drills
2xD

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Inch Dia. / Inch Shank
DRZ Toolholders (Ø0.562"~Ø2.000")



Choose (1) Drill Body and (10) Inserts

Choose your drill and insert grade.
 Promo Code: **KYO-DRZ-KIT**

3xD

Drill Description	Stock	Drill Dia.	Insert Description See Page 34	Grades (Pick 1)	Kit Option		
					Kit Insert Qty.	U.S. Kit Price	
S75-DRZ5621687-05G	●	0.562"	ZCMT050203	PR1230 Carbon Steel & Alloy Steel PR1225 Stainless Steel PR1210 Gray and Nodular Cast Iron KW10 Non-ferrous Metals	10	\$299.00	
S100-DRZ6251875-06G	●	0.625"	ZCMT06T204		10	\$309.00	
S100-DRZ6561969-06G	●	0.656"			10	\$309.00	
S100-DRZ6882062-06G	●	0.688"			10	\$309.00	
S100-DRZ7502250-06G	●	0.750"			10	\$309.00	
S100-DRZ8122438-06G	●	0.812"			10	\$309.00	
S100-DRZ8752625-08G	●	0.875"	ZCMT080304		10	\$309.00	
S100-DRZ9382814-08G	●	0.938"			10	\$309.00	
S100-DRZ10003000-08G	●	1.000"			10	\$349.00	
S100-DRZ10623187-10G	●	1.062"	ZCMT10T304		10	\$349.00	
S100-DRZ11253375-10G	●	1.125"			10	\$349.00	
S100-DRZ11883562-10G	●	1.188"			10	\$349.00	
S100-DRZ12503750-10G	●	1.250"	ZCMT12T306		10	\$349.00	
S125-DRZ13123938-12G	●	1.312"			10	\$369.00	
S125-DRZ13754125-12G	●	1.375"			10	\$369.00	
S125-DRZ14384312-12G	●	1.438"			10	\$369.00	
S125-DRZ15004500-12G	●	1.500"			10	\$369.00	
S125-DRZ15624688-12G	●	1.562"			10	\$449.00	
S125-DRZ16254875-15G	●	1.625"			ZCMT150408	10	\$449.00
S125-DRZ16885062-15G	●	1.688"				10	\$449.00
S125-DRZ17505250-15G	●	1.750"	10	\$449.00			
S125-DRZ18125438-15G	●	1.812"	10	\$449.00			
S125-DRZ18755625-15G	●	1.875"	10	\$449.00			
S125-DRZ19385812-15G	●	1.938"	10	\$449.00			
S125-DRZ20006000-15G	●	2.000"	10	\$449.00			

● : U.S. Stock

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Metric Dia. / Inch Shank
DRZ Toolholders (Ø13mm~Ø49mm)



Choose (1) Drill Body and (10) Inserts

Choose your drill and insert grade.
 Promo Code: **KYO-DRZ-KIT**

3xD

Drill Description	Stock	Drill Dia.	Insert Description See ☺ Page 34	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DRZ Magic Drills 3xD Metric Diameter Inch Shank	●	13.0mm	ZCMT050203	PR1230 Carbon Steel & Alloy Steel PR1225 Stainless Steel PR1210 Gray and Nodular Cast Iron KW10 Non-ferrous Metals	10	\$309.00
	●	13.5mm			10	\$309.00
	●	14.0mm			10	\$309.00
	●	14.5mm			10	\$309.00
	●	15.0mm			10	\$309.00
	●	15.5mm			10	\$309.00
	●	16.0mm	ZCMT06T204		10	\$309.00
	●	16.5mm			10	\$309.00
	●	17.0mm			10	\$309.00
	●	18.0mm			10	\$309.00
	●	18.5mm			10	\$309.00
	●	19.0mm			10	\$309.00
	●	19.5mm	ZCMT080304		10	\$309.00
	●	20.0mm			10	\$309.00
	●	21.0mm			10	\$309.00
	●	21.5mm			10	\$319.00
	●	22.0mm			10	\$319.00
	●	22.0mm			10	\$319.00
	●	23.0mm	ZCMT10T304		10	\$319.00
	●	24.0mm			10	\$319.00
	●	25.0mm			10	\$319.00
	●	26.0mm			10	\$319.00
	●	27.0mm			10	\$349.00
	●	28.0mm			10	\$349.00
	●	29.0mm	ZCMT12T306		10	\$349.00
	●	30.0mm			10	\$349.00
	●	31.0mm			10	\$349.00
	●	32.0mm			10	\$349.00
	●	33.0mm			10	\$359.00
	●	34.0mm			10	\$349.00
	●	35.0mm	ZCMT150408		10	\$349.00
	●	36.0mm			10	\$349.00
	●	37.0mm			10	\$349.00
	●	38.0mm			10	\$349.00
	●	39.0mm			10	\$419.00
	●	40.0mm			10	\$419.00
	●	41.0mm	ZCMT150408		10	\$419.00
	●	42.0mm			10	\$419.00
	●	43.0mm			10	\$419.00
	●	44.0mm			10	\$419.00
●	45.0mm	10		\$419.00		
●	46.0mm	10		\$419.00		
●	47.0mm	ZCMT150408	10	\$419.00		
●	48.0mm		10	\$419.00		
●	49.0mm		10	\$419.00		

● : U.S. Stock

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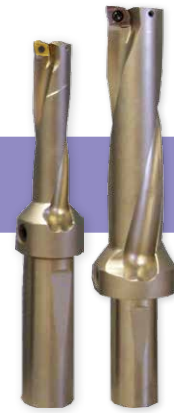
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SOLID ROUND SOLUTIONS

Inch Dia. / Inch Shank
DRZ Toolholders (Ø0.562"~Ø2.000")



Choose (1) Drill Body and (10) Inserts

Choose your drill and insert grade.
 Promo Code: **KYO-DRZ-KIT**

4xD

Drill Description	Stock	Drill Dia.	Insert Description See Page 34	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
S75-DRZ5622250-05G	●	0.562"	ZCMT050203	PR1230 Carbon Steel & Alloy Steel PR1225 Stainless Steel PR1210 Gray and Nodular Cast Iron KW10 Non-ferrous Metals	10	\$319.00
S100-DRZ6252500-06G	●	0.625"	ZCMT06T204		10	\$319.00
S100-DRZ6882750-06G	●	0.688"			10	\$319.00
S100-DRZ7503000-06G	●	0.750"			10	\$319.00
S100-DRZ8123250-06G	●	0.812"			10	\$319.00
S100-DRZ8753500-08G	●	0.875"	ZCMT080304		10	\$319.00
S100-DRZ9383750-08G	●	0.938"			10	\$319.00
S100-DRZ10004000-08G	●	1.000"			10	\$319.00
S125-DRZ10624250-10G	●	1.062"	ZCMT10T304		10	\$369.00
S125-DRZ11254500-10G	●	1.125"			10	\$369.00
S125-DRZ11884750-10G	●	1.188"			10	\$369.00
S125-DRZ12505000-10G	●	1.250"			10	\$369.00
S125-DRZ13125250-12G	●	1.312"			ZCMT12T306	10
S125-DRZ13755500-12G	●	1.375"	10			\$369.00
S125-DRZ14385750-12G	●	1.438"	10			\$369.00
S125-DRZ15006000-12G	●	1.500"	10			\$369.00
S125-DRZ15626250-12G	●	1.562"	10			\$369.00
S125-DRZ16256500-15G	●	1.625"	ZCMT150408			10
S150-DRZ16886750-15G	●	1.688"			10	\$419.00
S150-DRZ17507000-15G	●	1.750"			10	\$419.00
S150-DRZ18127250-15G	●	1.812"		10	\$419.00	
S150-DRZ18757500-15G	●	1.875"		10	\$419.00	
S150-DRZ19387750-15G	●	1.938"		10	\$419.00	
S150-DRZ20008000-15G	●	2.000"		10	\$419.00	

● : U.S. Stock

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 SOLID ROUND SOLUTIONS

Inch Dia. / Inch Shank
DRZ Toolholders (Ø1.062" ~ Ø2.000")



Choose (1) Drill Body and (10) Inserts

Choose your drill and insert grade.
 Promo Code: **KYO-DRZ-KIT**

5xD

Drill Description	Stock	Drill Dia.	Insert Description See Page 34	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DRZ Magic Drills 5xD	●	1.062"	ZCMT10T304	PR1230 Carbon Steel & Alloy Steel PR1225 Stainless Steel PR1210 Gray and Nodular Cast Iron KW10 Non-ferrous Metals	10	\$419.00
	●	1.125"			10	\$419.00
	●	1.188"			10	\$419.00
	●	1.250"			10	\$419.00
	●	1.312"	ZCMT12T306		10	\$449.00
	●	1.375"			10	\$449.00
	●	1.438"			10	\$449.00
	●	1.500"			10	\$449.00
	●	1.562"	ZCMT150408		10	\$449.00
	●	1.625"			10	\$459.00
	●	1.188"			10	\$459.00
	●	1.750"			10	\$459.00
	●	1.812"			10	\$459.00
	●	1.875"			10	\$459.00
	●	1.938"			10	\$459.00
	●	2.000"			10	\$459.00

● : U.S. Stock

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SOLID ROUND SOLUTIONS



HOLESHOT™ Kits

DR Indexable Drills

Optimized Flute Design

Maximum rigidity and good chip evacuation

Patented Swept Back Design

Enables drilling of stacked plates and welded assemblies

Excellent Chip Control

Reduces slug formation with superior chip control



MILLING SOLUTIONS

TURNING SOLUTIONS

DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

Patented Swept Back Design



HOLESHOT Drill Inserts

Usage Classification	P	Carbon Steel / Alloy Steel		★			
		Mold Steel		★			
★ 1st Choice ☆ 2nd Choice	M	Stainless Steel		☆			
	K	Gray Cast Iron					
Insert		Part Number	Dimensions (in)				Angle
	A		T	Ød	rε	α	PR1230
	WCMX 040204-M1A	1/4	0.094	0.110	1/64	7°	●
	050308-M1	5/16	1/8	0.125	1/32		●
	050308-M1A	5/16	1/8	0.125	1/32		●
	06T308-M1	3/8	5/32	0.146	1/32		●
	06T308-M1A	3/8	5/32	0.146	1/32		●

WCMX...M1 : General purpose drilling insert. First choice for medium-high carbon steel, tool steels, and cast iron. Tougher edge than **M1A** chipbreaker.

WCMX...M1A : First choice for low-carbon steel and other "sticky" materials. Freer cutting than **M1** chipbreaker

● : U.S. Stock

Inserts sold in 10 piece boxes

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HOLESHOT™ (Ø0.688"~Ø1.156")

Choose (1) Drill Body and (10) Inserts

Choose your drill and insert.
 Promo Code: **KYO-DR-KIT**



Drill Description	Stock	Drill Dia.	Insert Description (Pick 1) See Page 40	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
Drill Diameter 0.688"~1.156"	●	0.688"	WCMX040204M1A	PR1230 Carbon Steel & Alloy Steel	10	\$249.00
	●	0.709" (18mm)			10	\$249.00
	●	0.719"			10	\$249.00
	●	0.750"			10	\$269.00
	●	0.781"			10	\$269.00
	●	0.787" (20mm)			10	\$269.00
	●	0.813"			10	\$269.00
	●	0.827" (21mm)			10	\$269.00
	●	0.844"			10	\$269.00
	●	0.866" (22mm)			10	\$279.00
	●	0.866" (22mm)	10		\$309.00	
	●	0.875"	10		\$279.00	
	●	0.875"	10		\$309.00	
	●	0.906" (23mm)	10		\$279.00	
	●	0.906" (23mm)	10		\$309.00	
	●	0.937"	10		\$279.00	
	●	0.937"	10		\$309.00	
	●	0.945" (24mm)	10		\$279.00	
	●	0.945" (24mm)	10		\$309.00	
	●	0.969"	10		\$279.00	
	●	0.969"	10		\$309.00	
	●	0.984" (25mm)	10		\$279.00	
	●	0.984" (25mm)	10		\$309.00	
	●	1.000"	10		\$279.00	
	●	1.000"	10		\$309.00	
	●	1.024" (26mm)	10		\$279.00	
	●	1.024" (26mm)	10		\$309.00	
	●	1.031"	10		\$349.00	
	●	1.031"	10		\$369.00	
	●	1.062" (27mm)	10		\$349.00	
	●	1.062" (27mm)	10		\$369.00	
	●	1.094"	10		\$349.00	
	●	1.094"	10		\$369.00	
	●	1.102" (28mm)	10		\$349.00	
	●	1.102" (28mm)	10		\$369.00	
	●	1.125"	10		\$349.00	
	●	1.125"	10		\$369.00	
	●	1.142" (29mm)	10		\$349.00	
	●	1.142" (29mm)	10		\$369.00	
	●	1.156"	10		\$349.00	
●	1.156"	10	\$369.00			

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HOLESHOT™ (Ø1.181"~Ø1.562")

Choose (1) Drill Body and (10) Inserts

Choose your drill and insert.
 Promo Code: **KYO-DR-KIT**



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SOLID ROUND SOLUTIONS

Drill Description	Stock	Drill Dia.	Insert Description (Pick 1) See Page 40	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DR-1181	●	1.181" (30mm)	WCMX06T308M1 WCMX06T308M1A	PR1230 Carbon Steel & Alloy Steel	10	\$349.00
DR-1181-X3N	●	1.181" (30mm)			10	\$369.00
DR-1187	●	1.187"			10	\$349.00
DR-1187-X3N	●	1.187"			10	\$369.00
DR-1219	●	1.219"			10	\$349.00
DR-1219-X3N	●	1.219"			10	\$369.00
DR-1250	●	1.250"			10	\$349.00
DR-1250-X3N	●	1.250"			10	\$369.00
DR-1260	●	1.260" (32mm)			10	\$349.00
DR-1260-X3N	●	1.260" (32mm)			10	\$369.00
DR-1281	●	1.281"			10	\$349.00
DR-1281-X3N	●	1.281"			10	\$369.00
DR-1299	●	1.299" (33mm)			10	\$349.00
DR-1299-X3N	●	1.299" (33mm)			10	\$369.00
DR-1312	●	1.312"			10	\$349.00
DR-1312-X3N	●	1.312"			10	\$369.00
DR-1339	●	1.339" (34mm)			10	\$349.00
DR-1339-X3N	●	1.339" (34mm)			10	\$369.00
DR-1344	●	1.344"			10	\$349.00
DR-1344-X3N	●	1.344"			10	\$369.00
DR-1375	●	1.375"			10	\$349.00
DR-1375-X3N	●	1.375"			10	\$369.00
DR-1406	●	1.406"			10	\$389.00
DR-1406-X3N	●	1.406"			10	\$399.00
DR-1417	●	1.417" (36mm)			10	\$389.00
DR-1417-X3N	●	1.417" (36mm)			10	\$399.00
DR-1437	●	1.437"			10	\$389.00
DR-1437-X3N	●	1.437"			10	\$399.00
DR-1457	●	1.457" (37mm)			10	\$389.00
DR-1457-X3N	●	1.457" (37mm)			10	\$399.00
DR-1469	●	1.469"			10	\$389.00
DR-1469-X3N	●	1.469"			10	\$399.00
DR-1496	●	1.496" (38mm)			10	\$389.00
DR-1496-X3N	●	1.496" (38mm)			10	\$399.00
DR-1500	●	1.500"			10	\$389.00
DR-1500-X3N	●	1.500"			10	\$399.00
DR-1531	●	1.531"			10	\$399.00
DR-1531-X3N	●	1.531"			10	\$429.00
DR-1535-X3N	●	1.535" (39mm)			10	\$429.00
DR-1562	●	1.562"			10	\$399.00
DR-1562-X3N	●	1.562"	10	\$429.00		

Drill Diameter
1.181"~1.562"

All 2017 Summer / Fall Promo Offers Valid through December 31, 2017

● : U.S. Stock

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HOLESHOT™ (Ø1.575"~Ø2.000")

Choose (1) Drill Body and (10) Inserts

Choose your drill and insert.
 Promo Code: **KYO-DR-KIT**



Drill Description	Stock	Drill Dia.	Insert Description (Pick 1) See Page 40	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DR-1575	●	1.575" (40mm)	WCMX050308M1 WCMX050308M1A	PR1230 Carbon Steel & Alloy Steel	10	\$399.00
DR-1575-X3N	●	1.575" (40mm)			10	\$429.00
DR-1594	●	1.594"			10	\$399.00
DR-1594-X3N	●	1.594"			10	\$429.00
DR-1614	●	1.614" (41mm)			10	\$399.00
DR-1614-X3N	●	1.614" (41mm)			10	\$429.00
DR-1625	●	1.625"			10	\$399.00
DR1625-X3N	●	1.625"			10	\$429.00
DR-1656	●	1.656"			10	\$399.00
DR-1656-X3N	●	1.656"			10	\$429.00
DR-1687	●	1.687"			10	\$399.00
DR-1687-X3N	●	1.687"			10	\$429.00
DR-1693	●	1.693" (43mm)			10	\$419.00
DR-1693-X3N	●	1.693" (43mm)			10	\$449.00
DR-1719	●	1.719"			10	\$419.00
DR-1719-X3N	●	1.719"			10	\$449.00
DR-1732	●	1.732" (44mm)			10	\$419.00
DR-1732-X3N	●	1.732" (44mm)			10	\$449.00
DR-1750	●	1.750"			10	\$419.00
DR-1750-X3N	●	1.750"			10	\$449.00
DR-1772	●	1.772" (45mm)			10	\$419.00
DR-1772-X3N	●	1.772" (45mm)			10	\$449.00
DR-1781	●	1.781"			10	\$419.00
DR-1781-X3N	●	1.781"			10	\$449.00
DR-1812	●	1.812"			10	\$419.00
DR-1812-X3N	●	1.812"			10	\$449.00
DR-1844	●	1.844"			10	\$439.00
DR-1844-X3N	●	1.844"			10	\$469.00
DR-1850	●	1.850" (47mm)			10	\$439.00
DR-1850-X3N	●	1.850" (47mm)			10	\$469.00
DR-1875	●	1.875"			10	\$439.00
DR-1875-X3N	●	1.875"			10	\$469.00
DR-1890-X3N	●	1.890"			10	\$439.00
DR-1906	●	1.906"			10	\$469.00
DR-1906-X3N	●	1.906"			10	\$439.00
DR-1929	●	1.929" (49mm)			10	\$469.00
DR-1929-X3N	●	1.929" (49mm)			10	\$439.00
DR-1937	●	1.937"			10	\$469.00
DR-1937-X3N	●	1.937"			10	\$439.00
DR-1969	●	1.969" (50mm)			10	\$469.00
DR-1969-X3N	●	1.969" (50mm)	10	\$439.00		
DR-2000	●	2.000"	10	\$469.00		
DR-2000-X1	●	2.000"	10	\$439.00		
DR-2000-X3N	●	2.000"	10	\$469.00		

Drill Diameter
1.575"~2.000"

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HOLESHOT™ (Ø2.008"~Ø2.362")

Choose (1) Drill Body and (10) Inserts

Choose your drill and insert.
 Promo Code: **KYO-DR-KIT**



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DRILLING SOLUTIONS

SOLID ROUND SOLUTIONS

Drill Description	Stock	Drill Dia.	Insert Description (Pick 1) See Page 40	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DR-2008	●	2.008" (51mm)	WCMX050308M1 WCMX050308M1A	PR1230 Carbon Steel & Alloy Steel	10	\$439.00
DR-2008-X3N	●	2.008" (51mm)			10	\$469.00
DR-2031	●	2.031"			10	\$479.00
DR-2031-X1	●	2.031"			10	\$479.00
DR-2031-X3N	●	2.031"			10	\$479.00
DR-2047	●	2.047" (52mm)			10	\$459.00
DR-2047-X3N	●	2.047" (52mm)			10	\$489.00
DR-2062	●	2.062"			10	\$459.00
DR-2062-X1	●	2.062"			10	\$459.00
DR-2062-X3N	●	2.062"			10	\$489.00
DR-2094	●	2.094"	10		\$459.00	
DR-2094-X1	●	2.094"	10		\$459.00	
DR-2094-X3N	●	2.094"	10		\$489.00	
DR-2125	●	2.125" (54mm)	WCMX06T308M1 WCMX06T308M1A		10	\$459.00
DR-2125-X1	●	2.125" (54mm)			10	\$459.00
DR-2125-X3N	●	2.125" (54mm)			10	\$489.00
DR-2156	●	2.156"			10	\$479.00
DR-2156-X1	●	2.156"			10	\$519.00
DR-2156-X3N	●	2.156"			10	\$479.00
DR-2187	●	2.187"			10	\$519.00
DR-2187-X1	●	2.187"			10	\$479.00
DR-2187-X3N	●	2.187"			10	\$519.00
DR-2205	●	2.205" (56mm)			10	\$479.00
DR-2205-X3N	●	2.205" (56mm)			10	\$519.00
DR-2219	●	2.219"			10	\$479.00
DR-2219-X1	●	2.219"			10	\$479.00
DR-2219-X3N	●	2.219"			10	\$519.00
DR-2244	●	2.244" (57mm)			10	\$499.00
DR-2244-X3N	●	2.244" (57mm)			10	\$529.00
DR-2250	●	2.250"			10	\$499.00
DR-2250-X1	●	2.250"		10	\$499.00	
DR-2250-X3N	●	2.250"		10	\$529.00	
DR-2281	●	2.281"		10	\$499.00	
DR-2281-X1	●	2.281"	10	\$499.00		
DR-2281-X3N	●	2.281"	10	\$529.00		
DR-2312	●	2.312"	10	\$499.00		
DR-2312-X1	●	2.312"	10	\$499.00		
DR-2312-X3N	●	2.312"	10	\$529.00		
DR-2323	●	2.323" (59mm)	10	\$499.00		
DR-2344	●	2.344"	10	\$499.00		
DR-2344-X1	●	2.344"	10	\$499.00		
DR-2344-X3N	●	2.344"	10	\$529.00		
DR-2362	●	2.362" (60mm)	10	\$499.00		
DR-2362-X3N	●	2.362" (60mm)	10	\$529.00		

Drill Diameter
2.008"~2.362"

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● : U.S. Stock

HOLESHOT™ (Ø2.375"~Ø4.000")

Choose (1) Drill Body and (10) Inserts

Choose your drill and insert.
 Promo Code: **KYO-DR-KIT**



Drill Description	Stock	Drill Dia.	Insert Description (Pick 1) See Page 40	Grades (Pick 1)	Kit Option	
					Kit Insert Qty.	U.S. Kit Price
DR-2375	●	2.375"	WCMX06T308M1 WCMX06T308M1A	PR1230 Carbon Steel & Alloy Steel	10	\$499.00
DR-2375-X1	●	2.375"			10	\$499.00
DR-2375-X3N	●	2.375"			10	\$529.00
DR-2406	●	2.406"			10	\$499.00
DR-2406-X1	●	2.406"			10	\$499.00
DR-2406-X3N	●	2.406"			10	\$520.00
DR-2437	●	2.437"			10	\$499.00
DR-2437-X1	●	2.437"			10	\$499.00
DR-2437-X3N	●	2.437"			10	\$529.00
DR-2441	●	2.441" (62mm)			10	\$499.00
DR-2441-X3N	●	2.441" (62mm)			10	\$529.00
DR-2469	●	2.469"			10	\$499.00
DR-2469-X1	●	2.469"			10	\$499.00
DR-2469-X3N	●	2.469"			10	\$529.00
DR-2480	●	2.480" (63mm)			10	\$499.00
DR-2480-X3N	●	2.480" (63mm)			10	\$529.00
DR-2500	●	2.500"			10	\$499.00
DR-2500-X1	●	2.500"			10	\$499.00
DR-2500-X3N	●	2.500"			10	\$529.00
DR-2625	●	2.625"			10	\$569.00
DR-2625-X1	●	2.656"			10	\$569.00
DR-2750	●	2.750"			10	\$649.00
DR-2750-X1	●	2.750"			10	\$649.00
DR-2875	●	2.875"			10	\$669.00
DR-2875-X1	●	2.875"			10	\$669.00
DR-3000	●	3.000"			10	\$699.00
DR-3000-X1	●	3.000"			10	\$699.00
DR-3125	●	3.125"			10	\$699.00
DR-3125-X1	●	3.125"			10	\$699.00
DR-3250	●	3.250"			10	\$699.00
DR-3250-X1	●	3.250"			10	\$699.00
DR-3375	●	3.375"			10	\$789.00
DR-3375-X1	●	3.375"			10	\$789.00
DR-3500	●	3.500"			10	\$789.00
DR-3500-X1	●	3.500"			10	\$789.00
DR-3625	●	3.625"			10	\$809.00
DR-3625-X1	●	3.625"			10	\$809.00
DR-3750	●	3.750"			10	\$849.00
DR-3750-X1	●	3.750"			10	\$849.00
DR-3875	●	3.875"			10	\$849.00
DR-3875-X1	●	3.875"	10	\$849.00		
DR-4000	●	4.000"	10	\$899.00		
DR-4000-X1	●	4.000"	10	\$899.00		

Drill Diameter
2.375"~4.000"

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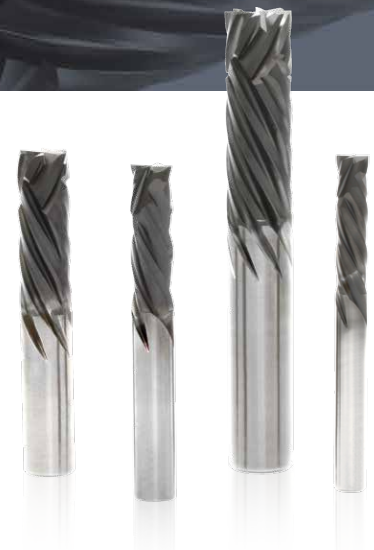
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VULCAN Compression End Mills

Unique Compression Design for Routing Composites

Used in the automotive and aerospace industries, composite layer materials are dense and abrasive by nature and require unique tools like the compression end mill to create clean edges and surface finish.

MILLING SOLUTIONS

TURNING SOLUTIONS

DRILLING SOLUTIONS

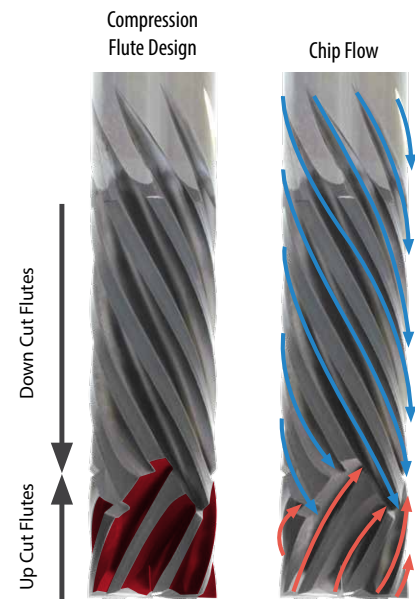
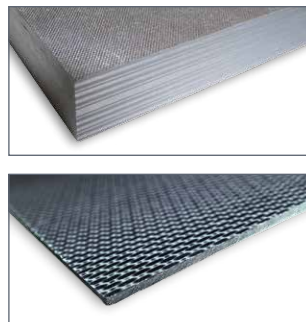
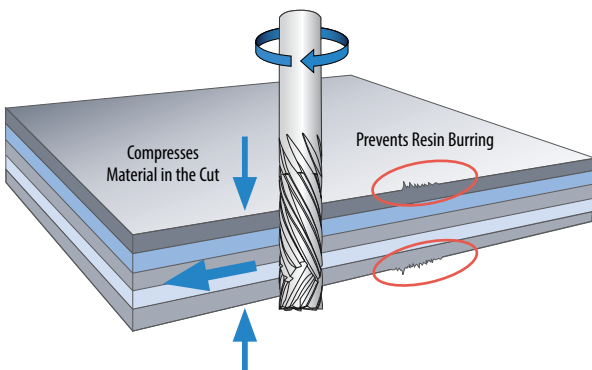
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BUY 1, GET 1 50% OFF
of Equal or Lesser Value

Mix-and-match among sizes!
Promo Code: **KYO-VULCAN**

1 Compression of Cutting Forces and Chip Flow

The compression end mill is designed with up cut and down cut flutes to compress the composite material preventing delamination. The spiral flute design creates a shearing action to cleanly cut the fibers. Utilizing a positive rake angle, the compression end mill makes quick sharp cuts minimizing heat and preventing the formation of resin burrs.



2 CVD Diamond Coating to Withstand Highly Abrasive Material

Utilizes strong CVD Diamond Coating for improving wear resistance and maintaining sharp cutting edges.

- CVD Diamond (Real Diamond)
- Thick Coating of 0.0006" (0.015mm)
- Smooth Surface for Efficient Coverage of the Coating





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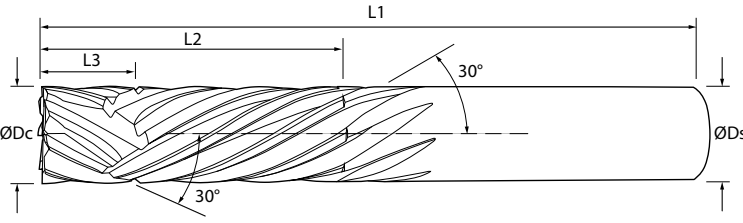
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VULCAN - Series 1890 Compression End Mills

4 Flute 

6 Flute 

8 Flute 



The diagram shows a side view of the end mill with dimensions: ØDc (Cutting Dia.), ØDs (Shank Dia.), $L1$ (Total Length), $L2$ (Length of Cut), $L3$ (Flute Length), and a 30° lead angle.

Cutting Dia. (ØDc)	Tolerance
Inch Sizes	+0.000" -0.003"
Metric Sizes	+0.00mm -0.08mm
Shank Dia. (ØDs)	Tolerance
Inch Sizes	h6
Metric Sizes	h6

VULCAN Dimensions (Inch Sizes)

Part Number	Stock	Dimensions (in)					No. of Flutes
		ØDc	ØDs	L1	*L2	L3	
1890-2500V1000	●	1/4	1/4	2 1/2	1	0.175	4
1890-3125V1000	●	5/16	5/16	2 1/2	1	0.220	4
1890-3750V1125	●	3/8	3/8	2 1/2	1 1/8	0.265	6
1890-5000V1500	●	1/2	1/2	3 1/2	1 1/2	0.360	8

*L2 dimensions refers to the length of cut.

● : U.S. Stock

VULCAN Dimensions (Metric Sizes)

Part Number	Stock	Dimensions (mm)					No. of Flutes
		ØDc	ØDs	L1	*L2	L3	
1890-2362V709	●	6	6	63	25	4.10	4
1890-3150V984	●	8	8	63	25	5.58	4
1890-3937V984	●	10	10	63	28	7.05	6
1890-4724V1496	●	12	12	89	38	8.60	8

*L2 dimensions refers to the length of cut.

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HYDROS Drills NEW

10xD Coolant Fed Deep Drills

Excellent hole accuracy with a low cutting force design and good for difficult-to-cut materials



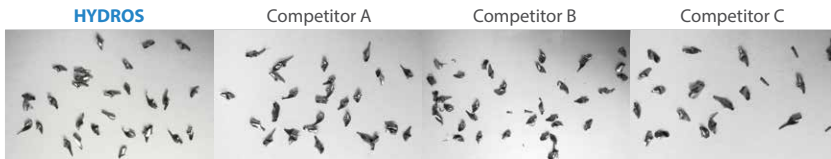
Buy 1 HYDROS, Get 1 Matching Diameter ORION 50% OFF

Promo Code: *KYO-ORION-50*

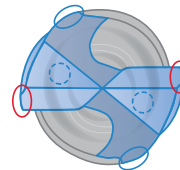
Double Margin for Smooth Hole Finish

Two margins create a cutting and wiping effect that create a smooth hole finish and smooth cutting performance along the hole wall.

Chip Comparison



Double Margins

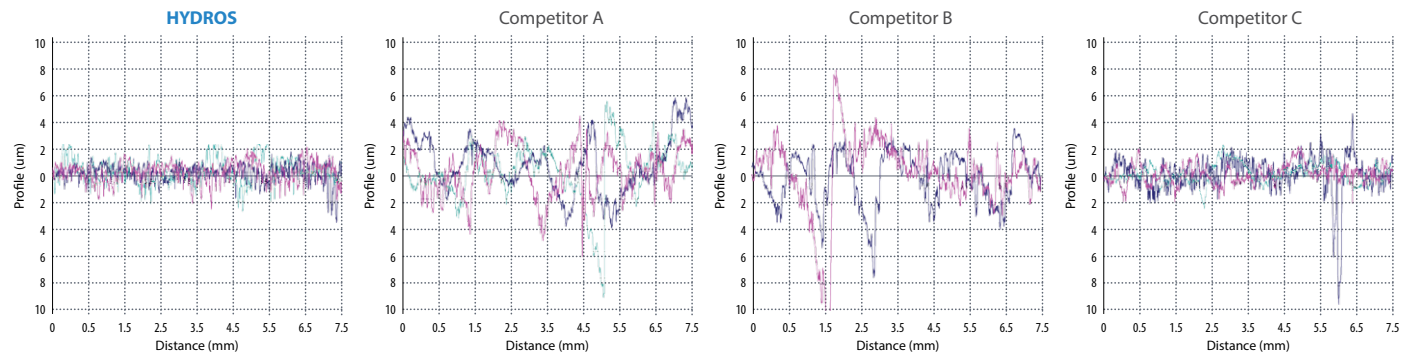


Cutting Edge

Wiping Edge

Optimized for smooth cutting performance with excellent chip evacuation

Hole Roughness (In-house Evaluation)



	HYDROS			Competitor A			Competitor B			Competitor C		
	Hole 1	Hole 300	Hole 600	Hole 1	Hole 300	Hole 600	Hole 1	Hole 300	Hole 600	Hole 1	Hole 300	Hole 600
R _a (μm)	0.421	0.539	0.676	1.705	1.540	1.572	1.638	1.977	Broken	0.893	0.559	0.562
R _q (μm)	0.554	0.677	0.869	2.123	1.832	2.113	1.979	2.581	Broken	1.249	0.712	0.687
R _z (μm)	3.282	3.478	4.406	8.076	8.480	10.077	8.847	10.973	Broken	7.178	3.845	3.206

Cutting Conditions: N = 6468rpm, Vf = 575mm/min Drill Diameter Ø3mm Drilling Depth 25.4mm 17-4PH-900

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ORION Drills NEW

High Performance Pilot Drills

The ORION drills feature an optimized cutting edge for increased accuracy during the initial cut.



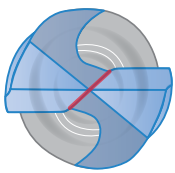
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Promo Code: *KYO-ORION-50*

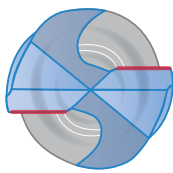
Optimized Cutting Edge for Increased Accuracy

The optimized cutting edge creates excellent drilling accuracy during the initial cut by consistently controlling the cutting force across the face of both cutting edges.

Cutting Edge



Centering Edge

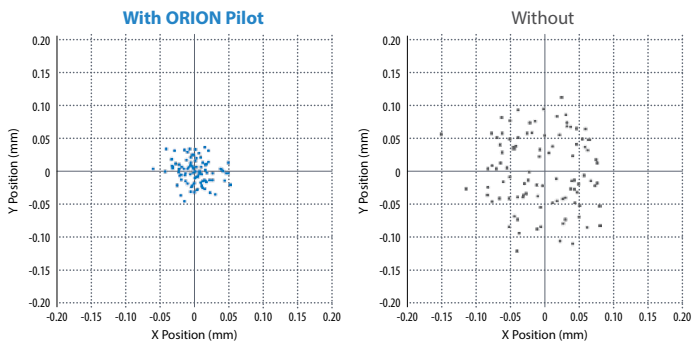


Primary Cutting Edge

Centering Edge



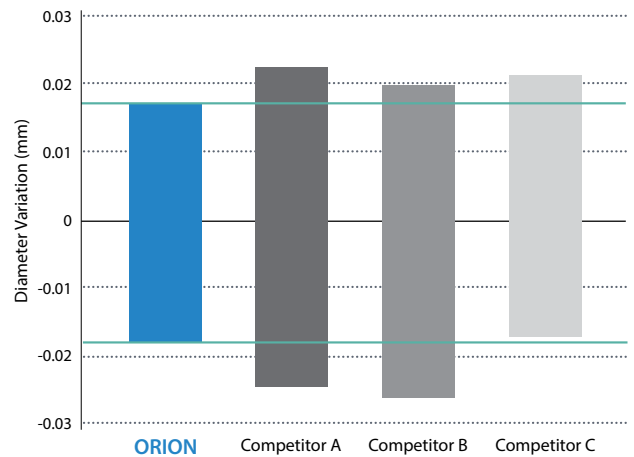
3mm Coolant Fed Drill Hole Positional Accuracy (After using the ORION as a pilot drill)



	With ORION	Without
Cp	3.80	1.98
CpK	3.17	1.06
Spec (+/-)	0.15	0.15

Cutting Conditions : N = 2588rpm, Vf = 196mm/min Drill Diameter Ø3mm Drilling Depth 9mm 17-4PH-900

Hole Diameter Variation (In-house Evaluation)



Drill	No. of Holes	Diameter Variation (mm)
ORION	600	0.0071
Competitor A	600	0.0113
Competitor B	600	0.0109
Competitor C	600	0.0087

Cutting Conditions : N = 2588rpm, Vf = 196mm/min Drill Diameter Ø3mm Drilling Depth 9mm 17-4PH-900

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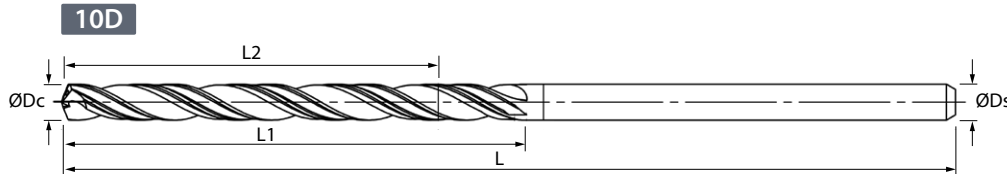
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Buy 1 HYDROS, Get 1 Matching Diameter ORION 50% OFF

Promo Code: *KYO-ORION-50*

HYDROS Deep Drills - Inch Sizes (Ø0.1250" - Ø0.5000")



Cutting Dia. (ØDc)	Cutting Dia. Tolerance	Shank Tolerance
0.1250" ~ 0.2344"	+0.0000" -0.0005"	+0.00000" -0.00032"
0.2500" ~ 0.3750"	+0.0000" -0.0006"	+0.00000" -0.00035"
0.4219" ~ 0.5000"	+0.0000" -0.0007"	+0.00000" -0.00043"

HYDROS Drill Dimensions

Part Number	Stock	Dimensions (in)					Point Angle	
		ØDc		ØDs	L	L1		*L2
860-1250AG1625	●	0.1250	1/8	0.1250	3 1/2	1.6250	1.2500	135°
860-1406AG1828	●	0.1406	9/64	0.1875	4	1.8280	1.4060	
860-1563AG2031	●	0.1563	5/32		4	2.0310	1.5630	
860-1719AG2234	●	0.1719	11/64		4	2.2340	1.7190	
860-1875AG2438	●	0.1875	3/16		4 1/2	2.4380	1.8750	
860-2031AG2641	●	0.2031	13/64	0.2500	4 1/2	2.6410	2.0310	
860-2188AG2844	●	0.2188	7/32		5	2.8440	2.1880	
860-2344AG3047	●	0.2344	15/64		5	3.0470	2.3440	
860-2500AG3250	●	0.2500	1/4		5	3.2500	2.5000	
860-2570AG3341	●	0.2570	F	0.3125	5 1/2	3.3410	2.5700	
860-2656AG3453	●	0.2656	17/64		5 1/2	3.4530	2.6560	
860-2813AG3656	●	0.2813	9/32		5 1/2	3.6560	2.8130	
860-3125AG4063	●	0.3125	5/16		6	4.0630	3.1250	
860-3320AG4316	●	0.3320	Q	0.3750	6 1/2	4.3160	3.3200	
860-3438AG4469	●	0.3438	11/32		6 1/2	4.4690	3.4380	
860-3750AG4875	●	0.3750	3/8		7	4.8750	3.7500	
860-4219AG5484	●	0.4219	27/64		0.4375	7 1/2	5.4840	
860-4375AG5688	●	0.4375	7/16	7 1/2		5.6880	4.3750	
860-4531AG5891	●	0.4531	29/64	0.5000	8	5.8910	4.5310	
860-5000AG6500	●	0.5000	1/2		8 1/2	6.5000	5.0000	

L2 dimension refers to the Max. Length of Cut (10 x ØDc).

● : U.S. Stock

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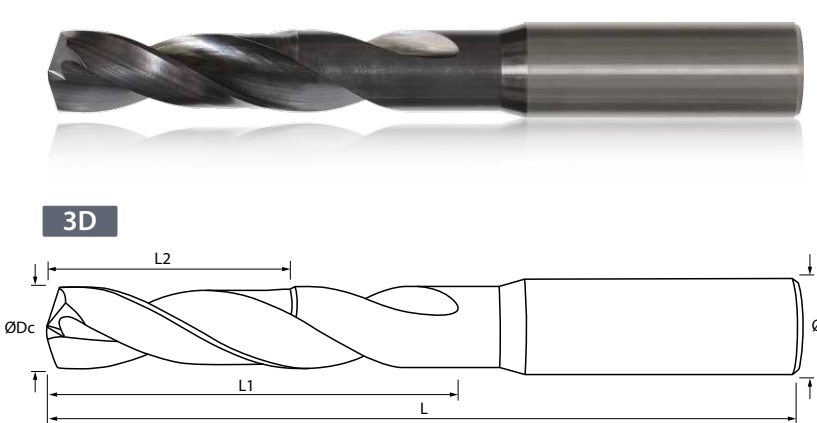
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Buy 1 HYDROS, Get 1 Matching Diameter ORION 50% OFF

Promo Code: *KYO-ORION-50*

ORION Drills - Inch Sizes (Ø0.1250" - Ø0.5000")



Cutting Dia. (ØDc)	Cutting Dia. Tolerance	Shank Tolerance
0.1250" ~ 0.2344"	+0.00016" +0.00063"	+0.00000" -0.00032"
0.2500" ~ 0.3750"	+0.00024" +0.00083"	+0.00000" -0.00035"
0.4219" ~ 0.5000"	+0.00028" +0.00098"	+0.00000" -0.00043"

ORION Drill Dimensions

Part Number	Stock	Dimensions (in)					Point Angle	
		ØDc	ØDs	L	L1	*L2		
160-1250AG625	●	0.1250	1/8	0.1875	2.5	0.625	0.375	142°
160-1406AG703	●	0.1406	9/64			0.703	0.422	
160-1563AG781	●	0.1563	5/32			0.781	0.468	
160-1719AG859	●	0.1719	11/64			0.859	0.515	
160-1875AG938	●	0.1875	3/16	0.2500	2.5	0.938	0.563	
160-2031AG1016	●	0.2031	13/64			1.016	0.610	
160-2188AG1094	●	0.2188	7/32			1.094	0.656	
160-2344AG1172	●	0.2344	15/64			1.172	0.703	
160-2500AG1250	●	0.2500	1/4	0.3125	3.0	1.250	0.750	
160-2570AG1285	●	0.2570	F			1.285	0.771	
160-2656AG1328	●	0.2656	17/64			1.328	0.797	
160-2813AG1406	●	0.2813	9/32			1.406	0.843	
160-3125AG1563	●	0.3125	5/16	0.3750	4.0	1.563	0.938	
160-3320AG1660	●	0.3320	Q			1.660	0.996	
160-3438AG1719	●	0.3438	11/32			1.719	1.031	
160-3750AG1875	●	0.3750	3/8			1.875	1.125	
160-4219AG2109	●	0.4219	27/64	0.4375	4.5	2.109	1.265	
160-4375AG2188	●	0.4375	7/16			2.188	1.313	
160-4531AG2266	●	0.4531	29/64	0.5000	5.0	2.266	1.360	
160-5000AG2500	●	0.5000	1/2			2.500	1.500	

L2 dimension refers to the Max. Length of Cut (3 x ØDc).
There is a 2 x ØDc length at the top of the flute for chip exhaust.

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