



2023 | SUMMER & FALL

# PROMO PACK

**MILLING** | **TURNING** | **DRILLING**

S O L U T I O N S



Discounted Kits for Maximizing Productivity  
Offers Valid through December 31, 2023

## KYOCERA PRECISION TOOLS (KPT)

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



KYOCERA Precision Tools

## CUTTING-EDGE, COST-EFFICIENT SOLUTIONS

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



## PRODUCTS



Turning & Boring



Holemaking



Indexable Milling



Small Tools for Swiss Lathes



Quick-Change Tooling & Specialty Tools



Grooving & Cut-Off

## MARKETS SERVED



Aerospace



Automotive



Medical & Dental



Power Generation



Oil & Gas

## Milling Solutions

Cost-Efficient Kits Featuring (1) Milling Cutter and (10 Inserts)

MFH-MAX: High-Feed Milling with Larger Depths of Cut

MFH-Mini: Small Diameter High-Feed End Mills and Face Mills

MFH-Raptor: High-Feed Milling with Anti-Vibration Design

MFH-Micro: Smallest Diameter High-Feed Milling

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Page 16

## Turning Solutions

Cost-Efficient Kits Featuring (1) Toolholder and (10) Inserts

Steel Turning Kits featuring new CVD Grades CA115P & CA125P

Stainless Steel & HRSA Turning Kits featuring new PVD Grades PR115S & PR120S

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## Drilling Solutions

Cost-Efficient Kits Featuring (1) Drill Body,  
(10) Inside Inserts and (10) Outside Inserts

DRV Magic Drill High-Performance Indexable Drilling Kits

Page 28

**Find a Distributor Near You**

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**Contact a Sales Engineer**

[www.KyoceraPrecisionTools.com/sales](http://www.KyoceraPrecisionTools.com/sales)

**KYOCERA Precision Tools**

P : 800.823.7284 • F : 828.692.1344 • E : [ctsales@kyocerapti.com](mailto:ctsales@kyocerapti.com)

Official Website : [www.kyoceraprecisiontools.com](http://www.kyoceraprecisiontools.com) • Distributor Website : [portal.kyoceraprecisiontools.com](http://portal.kyoceraprecisiontools.com)

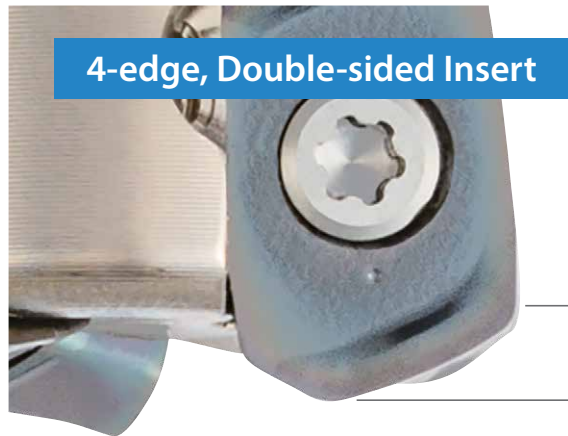


# MFH-MAX

## High Feed Milling with a Larger Depth of Cut

Newest Addition to the MFH High Feed Milling Family with Larger D.O.C. Capabilities  
 Excellent Performance in Various Applications, including Automotive Parts, Difficult-to-cut Materials, and Mold Machining

MILLING KITS  
 TURNING KITS  
 DRILLING KITS



4-edge, Double-sided Insert

Max. Depth of Cut  
**0.098"**



Large lineup of end mills, face mills, and modular types available

### NEW PR18-Series Grade Inserts



Double Lamination Technology  
 Maintains Longer Tool Life

Multi-layer structure with two unique nano layers  
 Superior abrasion resistance and fracture resistance

PR1825

P

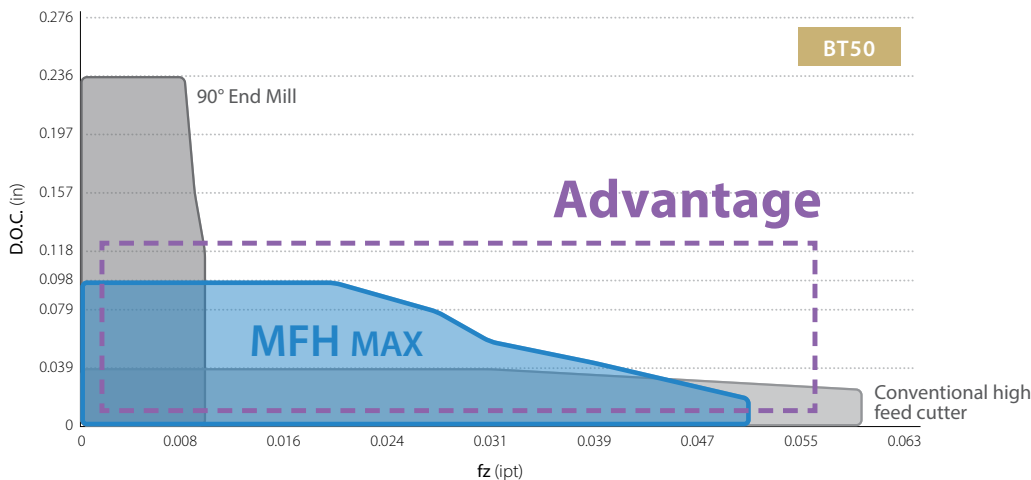
for Steel (Wear resistance oriented)

PR1835

M

for Steel (Stability oriented)  
 for Stainless Steel (1st recommendation)

## The MFH MAX Advantage



Vc = 490 sfm, ae = 0.492" (ae/DCX = 50%), 1049 Dry Ø1.000" Overhang length 2.362" BT50

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Please use specified Promo Code or Kit Part Number when placing orders. To locate a distributor visit [www.kyoceraprecisiontools.com/locate](http://www.kyoceraprecisiontools.com/locate).

## Higher Efficiency at 0.098" Max. Depth of Cut

### 1 Better Alternative to Conventional 90° End Mills (Roughing to Medium-Finishing)



Automotive Suspension Parts

#### Automotive Parts

##### General Steel Machining

- Increased productivity with large D.O.C. machining
- High reliability in unstable machining environments
- Long overhang length and better clamping rigidity
- Stable machining with low rigidity machines
- High-efficiency ramping and Large ramping angle (Small dia. Ø25mm: 3°)
- Dramatic efficiency improvement when ramping in pockets

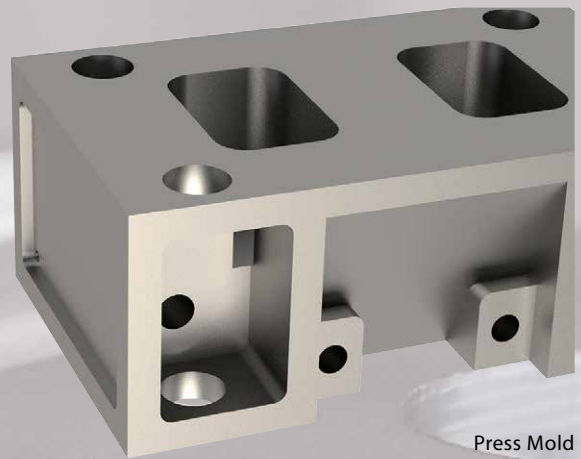
### 2 More Capabilities than Conventional High Feed Cutters

#### General Parts/Molds (Roughing/Facing)

##### General Parts, Pressing and Die Casting

- Higher productivity with larger D.O.C.
- Long tool life and improved efficiency through the reduction of tool paths
- Reduced machining time when machining workpieces with large variations in machining margins
- Longer tool life with high-efficiency machining

\*MFH-Mini/RAPTOR recommended for contouring with small depth of cut and high feed



Press Mold

### 3 Excellent Solution for Machining Difficult-to-cut Materials



Aircraft Landing Gear Parts

#### Aircraft/Energy Industry Parts

##### Difficult-to-cut materials such as titanium alloy and stainless steel machining

- High feed rates increase productivity
- Long tool life through the reduction of tool paths
- Heat-resistant grade PR1535 provides long tool life and stable machining

**Improve Productivity and Reduce Machining Costs**

## MFH-MAX End Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade



	Pick 1 Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Page 7	Pick 1 Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
End Mills Standard Shank (Weldon)	MFH 1000-W100-04-3T	1.000"	3	LOMU 040410ER-GM	PR1825	THN08662KITPR1825	\$330.00	\$460.00
					PR1835	THN08662KITPR1835		
End Mills Standard Shank (Cylindrical)	MFH 1250-W125-04-5T	1.250"	5	LOMU 040410ER-GM	PR1825	THN08664KITPR1825	\$390.00	\$550.00
					PR1835	THN08664KITPR1835		
End Mills Standard Shank (Cylindrical)	MFH 1000-S100-04-3T	1.000"	3	LOMU 040410ER-GM	PR1825	THN08657KITPR1825	\$300.00	\$420.00
					PR1835	THN08657KITPR1835		
End Mills Standard Shank (Cylindrical)	MFH 1250-S125-04-5T	1.250"	5	LOMU 040410ER-GM	PR1825	THN08659KITPR1825	\$350.00	\$490.00
					PR1835	THN08659KITPR1835		
End Mills Long Shank (Cylindrical)	MFH 1000-S100-04-3T-7	1.000"	3	LOMU 040410ER-GM	PR1825	THN08666KITPR1825	\$340.00	\$480.00
					PR1835	THN08666KITPR1835		
End Mills Long Shank (Cylindrical)	MFH 1250-S125-04-4T-8	1.250"	4	LOMU 040410ER-GM	PR1825	THN08667KITPR1825	\$390.00	\$550.00
					PR1835	THN08667KITPR1835		
End Mills Modular	MFH 1000-M12-04-3T	1.000"	3	LOMU 040410ER-GM	PR1825	THN08678KITPR1825	\$300.00	\$420.00
					PR1835	THN08678KITPR1835		
End Mills Modular	MFH 1250-M16-04-5T	1.250"	5	LOMU 040410ER-GM	PR1825	THN08680KITPR1825	\$350.00	\$490.00
					PR1835	THN08680KITPR1835		

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## MFH-MAX Face Mill Kits


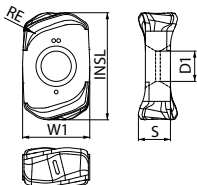
Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade



	Pick 1 Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number	Pick 1 Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
Face Mills	MFH 1500R-04-6T	1.500"	6	LOMU 040410ER-GM	PR1825	THN08670KITPR1825	\$470.00	\$660.00
					PR1835	THN08670KITPR1835		
	MFH 2000R-04-7T	2.000"	7	LOMU 040410ER-GM	PR1825	THN08672KITPR1825	\$520.00	\$730.00
					PR1835	THN08672KITPR1835		
	MFH 2500R-04-9T	2.500"	9	LOMU 040410ER-GM	PR1825	THN08674KITPR1825	\$570.00	\$800.00
					PR1835	THN08674KITPR1835		
	MFH 3000R-04-10T	3.000"	10	LOMU 040410ER-GM	PR1825	THN08676KITPR1825	\$620.00	\$870.00
					PR1835	THN08676KITPR1835		

### MFH-MAX Inserts

Usage Classification	P	Carbon Steel / Alloy Steel		M	Austenitic Stainless Steel		Martensitic Stainless Steel	
		★	★		★	☆	★	☆
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice								
Insert	Part Number	Dimensions (in)					MEGACOAT NANO EX	
		W1	S	D1	INSL	RE	PR1835	PR1825
 General Purpose	 LOMU 040410ER-GM	0.358	0.173	0.161	0.571	0.039	●	●

Workpiece material	P Steel					M Stainless steel				
	01	10	20	30	40	01	10	20	30	40
ISO										
Lineup	Wear resistance oriented <span style="background-color: #0070C0; color: white; padding: 2px;">PR1825</span>					1st recommendation <span style="background-color: #FF9900; color: white; padding: 2px;">PR1835</span>				
	Stability oriented <span style="background-color: #0070C0; color: white; padding: 2px;">PR1835</span>									



# MFH-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 EX Coating technology increases tool life when machining difficult-to-cut materials



MILLING KITS

## NEW PR18-Series Grade Inserts NEW

**MEGACOAT**  
NANO EX | Milling |

Double Lamination  
Technology  
Maintains Longer Tool Life

Multi-layer structure with two unique nano layers  
Superior abrasion resistance and fracture resistance

- PR1825

P

for Steel (Wear resistance oriented)
- PR1835

M

for Steel (Stability oriented)  
for Stainless Steel (1st recommendation)

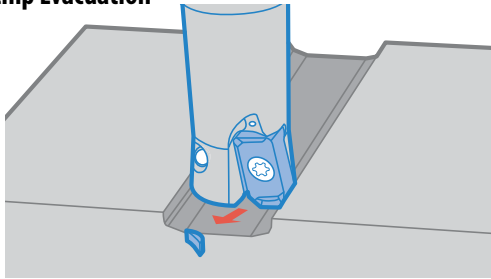
TURNING KITS

## Good Chip Evacuation

MFH Mini Controls Chip Biting with Convex Cutting Edge

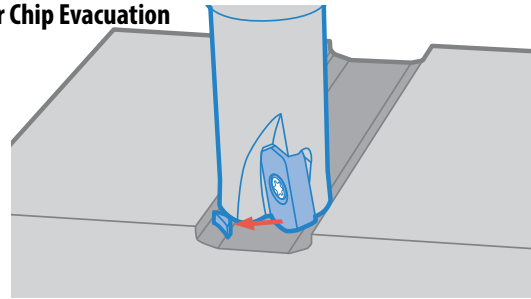
MFH Mini

Good Chip Evacuation



Competitor High Feed Cutter

Poor Chip Evacuation



DRILLING KITS

## Fine Pitch for Efficient Machining

Cutter Dia. 1.000" Type

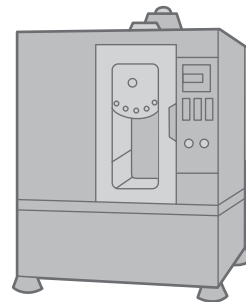
MFH Mini

5 Inserts  
MFH1000-W100-03-5T47

MFH

2 Inserts  
MFH1000-W100-10-2T

## Recommended for Roughing of Molds



High Feed Machining in  
Small Machining Centers

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## MFH-Mini End Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade



	Pick 1 Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Page 11	Pick 1 Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
End Mills Standard Shank (Weldon)	MFH 0625-W625-03-2T-3	0.625"	2	LOGU030310ER-GM	PR1825	THN07720KITPR1825	\$300.00	\$420.00
					PR1835	THN07720KITPR1835		
	MFH 0750-W750-03-3T-4	0.750"	3	LOGU030310ER-GM	PR1825	THN07722KITPR1825	\$340.00	\$480.00
					PR1835	THN07722KITPR1835		
	MFH 1000-W100-03-4T47	1.000"	4	LOGU030310ER-GM	PR1825	THN07724KITPR1825	\$350.00	\$490.00
					PR1835	THN07724KITPR1835		
	MFH 1000-W100-03-5T47	1.000"	5	LOGU030310ER-GM	PR1825	THN07726KITPR1825	\$350.00	\$490.00
					PR1835	THN07726KITPR1835		
	MFH 1250-W125-03-5T-5	1.250"	5	LOGU030310ER-GM	PR1825	THN07728KITPR1825	\$400.00	\$560.00
					PR1835	THN07728KITPR1835		
MFH 1250-W125-03-6T-5	1.250"	6	LOGU030310ER-GM	PR1825	THN07730KITPR1825	\$420.00	\$590.00	
				PR1835	THN07730KITPR1835			
End Mills Standard Shank (Cylindrical)	MFH 0625-S625-03-2T-6	0.625"	2	LOGU030310ER-GM	PR1825	THN07810KITPR1825	\$310.00	\$440.00
					PR1835	THN07810KITPR1835		
	MFH 0750-S750-03-3T55	0.750"	3	LOGU030310ER-GM	PR1825	THN08568KITPR1825	\$340.00	\$480.00
					PR1835	THN08568KITPR1835		
	MFH 0750-S750-03-3T65	0.750"	3	LOGU030310ER-GM	PR1825	THN07812KITPR1825	\$350.00	\$490.00
					PR1835	THN07812KITPR1835		
	MFH 0875-S750-03-3T55	0.875"	3	LOGU030310ER-GM	PR1825	THN08569KITPR1825	\$350.00	\$490.00
					PR1835	THN08569KITPR1835		
	MFH 1000-S100-03-4T-5	1.000"	4	LOGU030310ER-GM	PR1825	THN08570KITPR1825	\$390.00	\$550.00
					PR1835	THN08570KITPR1835		
MFH 1000-S100-03-4T-7	1.000"	4	LOGU030310ER-GM	PR1825	THN07814KITPR1825	\$390.00	\$550.00	
				PR1835	THN07814KITPR1835			
MFH 1250-S125-03-5T-62	1.250"	5	LOGU030310ER-GM	PR1825	THN08571KITPR1825	\$430.00	\$610.00	
				PR1835	THN08571KITPR1835			
MFH 1250-S125-03-5T-8	1.250"	5	LOGU030310ER-GM	PR1825	THN07816KITPR1825	\$430.00	\$610.00	
				PR1835	THN07816KITPR1835			

MILLING KITS

TURNING KITS

DRILLING KITS

## MFH-Mini Modular End Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade



	Pick 1	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Page 11	Pick 1	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
	Cutter Part Number				Insert Grade			
End Mills Modular	MFH 0625-M08-03-2T	0.625"	2	LOGU030310ER-GM	PR1825	THN07570KITPR1825	\$260.00	\$370.00
					PR1835	THN07570KITPR1835		
	MFH 0750-M10-03-3T	0.750"	3	LOGU030310ER-GM	PR1825	THN07572KITPR1825	\$310.00	\$440.00
					PR1835	THN07572KITPR1835		
	MFH 1000-M12-03-4T	1.000"	4	LOGU030310ER-GM	PR1825	THN07574KITPR1825	\$340.00	\$480.00
					PR1835	THN07574KITPR1835		
	MFH 1000-M12-03-5T	1.000"	5	LOGU030310ER-GM	PR1825	THN07575KITPR1825	\$360.00	\$510.00
					PR1835	THN07575KITPR1835		
	MFH 1250-M16-03-5T	1.250"	5	LOGU030310ER-GM	PR1825	THN07576KITPR1825	\$360.00	\$510.00
					PR1835	THN07576KITPR1835		
	MFH 1250-M16-03-6T	1.250"	6	LOGU030310ER-GM	PR1825	THN07577KITPR1825	\$390.00	\$550.00
					PR1835	THN07577KITPR1835		
	MFH 1500-M16-03-6T	1.500"	6	LOGU030310ER-GM	PR1825	THN08347KITPR1825	\$530.00	\$750.00
					PR1835	THN08347KITPR1835		

## MFH-Mini Face Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade



	Pick 1	Cutting Dia.	No. of Insert Pockets	Insert Part Number	Pick 1	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
	Cutter Part Number				Insert Grade			
Face Mills	MFH 1500R-03-5T	1.500"	5	LOGU030310ER-GM	PR1825	THN08237KITPR1825	\$420.00	\$590.00
					PR1835	THN08237KITPR1835		
	MFH 1500R-03-6T	1.500"	6	LOGU030310ER-GM	PR1825	THN08238KITPR1825	\$430.00	\$610.00
					PR1835	THN08238KITPR1835		
	MFH 2000R-03-8T	2.000"	8	LOGU030310ER-GM	PR1825	THN08239KITPR1825	\$590.00	\$830.00
					PR1835	THN08239KITPR1835		
	MFH 2000R-03-9T	2.000"	9	LOGU030310ER-GM	PR1825	THN08681KITPR1825	\$610.00	\$860.00
					PR1835	THN08681KITPR1835		

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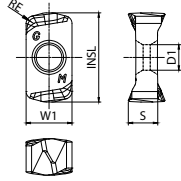
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MILLING KITS

TURNING KITS

DRILLING KITS

MFH-Mini Inserts									
Usage Classification		P	Carbon Steel / Alloy Steel						★
			Mold Steel						★
★ Roughing / 1st Choice		M	Austenitic Stainless Steel					★	☆
☆ Roughing / 2nd Choice			Martensitic Stainless Steel					★	☆
Insert	Part Number	Dimensions (in)					MEGACOAT NANO EX		
		W1	S	D1	INSL	RE	PR1835	PR1825	
 General Purpose		<b>LOGU 030310ER-GM</b>	0.244	0.156	0.136	0.469	0.039	●	●

Workpiece material	P Steel					M Stainless steel				
	01	10	20	30	40	01	10	20	30	40
Lineup	Wear resistance oriented					1st recommendation				
	PR1825					PR1835				
	Stability oriented									
	PR1835									

MILLING KITS

TURNING KITS

DRILLING KITS



# 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



MILLING KITS

TURNING KITS

DRILLING KITS

## NEW PR18-Series Grade Inserts

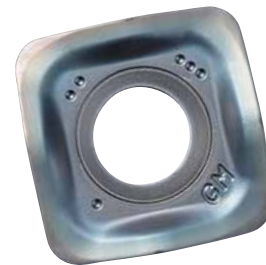


**MEGACOAT NANO EX** | Milling | **Double Lamination Technology**  
Maintains Longer Tool Life

Multi-layer structure with two unique nano layers  
Superior abrasion resistance and fracture resistance

- PR1825** **P** for Steel (Wear resistance oriented)
- PR1835** **M** for Steel (Stability oriented)  
for Stainless Steel (1st recommendation)

## GM Chipbreaker for General Purpose Milling



**1st Choice for General Purpose**



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### MFH-RAPTOR End Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade

	<b>Pick 1</b> Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Page 15	<b>Pick 1</b> Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
End Mills Standard Shank (Weldon)	MFH 1000-W100-10-2T	1.000"	2	SOMT100420ER-GM	PR1825	THN07800KITPR1825	\$290.00	\$410.00
					PR1835	THN07800KITPR1835		
	MFH 1250-W125-10-3T	1.250"	3	SOMT100420ER-GM	PR1825	THN07802KITPR1825	\$300.00	\$420.00
					PR1835	THN07802KITPR1835		
	MFH 1500-W150-10-3T	1.500"	3	SOMT100420ER-GM	PR1825	THN07803KITPR1825	\$340.00	\$480.00
					PR1835	THN07803KITPR1835		
	MFH 1500-W150-10-4T	1.500"	4	SOMT100420ER-GM	PR1825	THN07804KITPR1825	\$420.00	\$590.00
					PR1835	THN07804KITPR1835		
End Mills Long Shank (Cylindrical)	MFH 1000-S100-10-2T-8	1.000"	2	SOMT100420ER-GM	PR1825	THN07805KITPR1825	\$290.00	\$410.00
					PR1835	THN07805KITPR1835		
	MFH 1250-S125-10-2T-8	1.250"	2	SOMT100420ER-GM	PR1825	THN07806KITPR1825	\$350.00	\$490.00
					PR1835	THN07806KITPR1835		
	MFH 1500-S125-10-4T-10	1.500"	4	SOMT100420ER-GM	PR1825	THN07807KITPR1825	\$470.00	\$660.00
					PR1835	THN07807KITPR1835		

MILLING KITS  
TURNING KITS  
DRILLING KITS



## MFH-RAPTOR Face Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade

	<b>Pick 1</b> Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Page 15	<b>Pick 1</b> Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
Face Mills with 10mm Inserts	MFH 2000R-10-4T	2.000"	4	SOMT100420ER-GM	PR1825	THN07820KITPR1825	\$460.00	\$650.00
					PR1835	THN07820KITPR1835		
	MFH 2000R-10-5T	2.000"	5	SOMT100420ER-GM	PR1825	THN07821KITPR1825	\$460.00	\$650.00
					PR1835	THN07821KITPR1835		
	MFH 2500R-10-5T	2.500"	5	SOMT100420ER-GM	PR1825	THN07822KITPR1825	\$480.00	\$680.00
					PR1835	THN07822KITPR1835		
	MFH 2500R-10-6T	2.500"	6	SOMT100420ER-GM	PR1825	THN07823KITPR1825	\$480.00	\$680.00
					PR1835	THN07823KITPR1835		
	MFH 3000R-10-7T	3.000"	7	SOMT100420ER-GM	PR1825	THN07824KITPR1825	\$520.00	\$730.00
					PR1835	THN07824KITPR1835		
Face Mills with 14mm Inserts	MFH 2000R-14-4T	2.000"	4	SOMT140520ER-GM	PR1825	8606874KITPR1825	\$460.00	\$650.00
					PR1835	8606874KITPR1835		
	MFH 2000R-14-5T	2.000"	5	SOMT140520ER-GM	PR1825	THN08514KITPR1825	\$460.00	\$650.00
					PR1835	THN08514KITPR1835		
	MFH 2500R-14-4T	2.500"	4	SOMT140520ER-GM	PR1825	THN07825KITPR1825	\$460.00	\$650.00
					PR1835	THN07825KITPR1835		
	MFH 2500R-14-5T	2.500"	5	SOMT140520ER-GM	PR1825	THN07826KITPR1825	\$460.00	\$650.00
					PR1835	THN07826KITPR1835		
	MFH 2500R-14-5T-1000	2.500"	5	SOMT140520ER-GM	PR1825	THN08572KITPR1825	\$460.00	\$650.00
					PR1835	THN08572KITPR1835		
	MFH 3000R-14-5T	3.000"	5	SOMT140520ER-GM	PR1825	THN07827KITPR1825	\$480.00	\$680.00
					PR1835	THN07827KITPR1835		
	MFH 3000R-14-6T	3.000"	6	SOMT140520ER-GM	PR1825	THN07828KITPR1825	\$480.00	\$680.00
					PR1835	THN07828KITPR1835		
MFH 3000R-14-6T-1250	3.000"	6	SOMT140520ER-GM	PR1825	THN08573KITPR1825	\$480.00	\$680.00	
				PR1835	THN08573KITPR1835			

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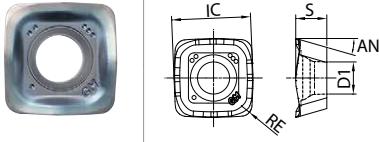
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MILLING KITS

TURNING KITS

DRILLING KITS

## MFH-Raptor Inserts

Usage Classification		P	Carbon Steel / Alloy Steel					★
			Mold Steel					★
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice		M	Austenitic Stainless Steel				★	☆
			Martensitic Stainless Steel				★	☆
Insert	Part Number	Dimensions (in)				Angle	MEGACOAT NANO EX	
		IC	S	D1	RE		PR1835	PR1825
 General Purpose	<b>SOMT 100420ER-GM</b>	0.406	0.180	0.181	0.079	16°	●	●
	<b>SOMT 140520ER-GM</b>	0.557	0.219	0.228	0.079	16°	●	●

Workpiece material	P Steel					M Stainless steel				
	01	10	20	30	40	01	10	20	30	40
Lineup	Wear resistance oriented					1st recommendation				
	PR1825					PR1835				
	Stability oriented									
	PR1835									

MILLING KITS

TURNING KITS

DRILLING KITS



# MFH-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

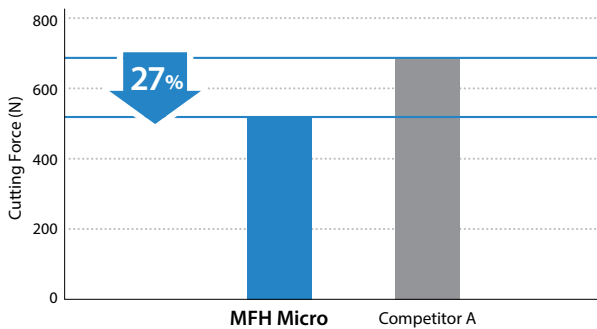


High Precision G Class Insert

## 1 Stable Machining with Chattering Resistance

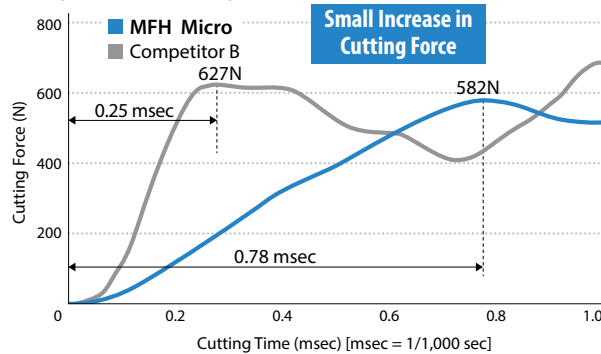
### Molded Convex Cutting Edge Controls Initial Impact when Entering the Workpiece

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)



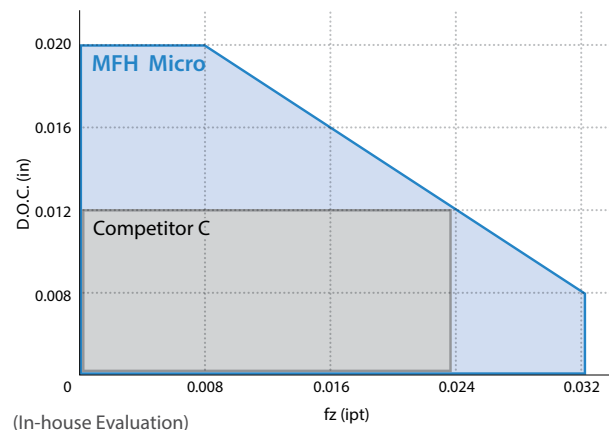
Cutting Conditions:  $V_c = 390$  sfm,  $f_z = 0.024$  ipt, D.O.C.  $\times ae = 0.016" \times 0.197"$   
Cutter Dia.  $\emptyset 0.375$ ", Dry Workpiece: 1049

## 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)

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MILLING KITS

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## MFH-Micro End Mill Kits

Includes (1) Cutter and (10) Inserts

Choose your Cutter and Insert Grade




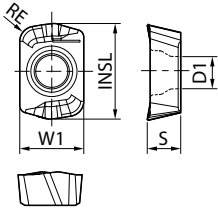
Cylindrical Shank End Mills



Modular End Mill

	Pick 1 Cutter Part Number	Cutting Dia.	No. of Insert Pockets	Insert Part Number See Below	Pick 1 Insert Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
Standard Shank (Cylindrical)	MFH 0375-S375-01-1T-3	0.375"	1	LPGT010210ER-GM	PR1825	975698KITPR1825	\$250.00	\$350.00
					PR1835	975698KITPR1835		
	MFH 0394-S375-01-2T-3	0.394"	2	LPGT010210ER-GM	PR1825	THN08566KITPR1825	\$250.00	\$350.00
					PR1835	THN08566KITPR1835		
	MFH 0500-S500-01-3T-3	0.500"	3	LPGT010210ER-GM	PR1825	8607020KITPR1825	\$250.00	\$350.00
				PR1835	8607020KITPR1835			
MFH 0500-S500-01-3T-5	0.500"	3	LPGT010210ER-GM	PR1825	THN08567KITPR1825	\$250.00	\$350.00	
				PR1835	THN08567KITPR1835			
Modular End Mill	MFH 0625-S625-01-4T35	0.625"	4	LPGT010210ER-GM	PR1825	8607021KITPR1825	\$250.00	\$350.00
					PR1835	8607021KITPR1835		
	MFH 0500-M06-01-3T	0.500"	3	LPGT010210ER-GM	PR1825	THN08345KITPR1825	\$250.00	\$350.00
					PR1835	THN08345KITPR1835		
	MFH 0625-M08-01-4T	0.625"	4	LPGT010210ER-GM	PR1825	THN08346KITPR1825	\$250.00	\$350.00
					PR1835	THN08346KITPR1835		

### MFH-Micro Inserts

Usage Classification	P	Carbon Steel / Alloy Steel								
		Mold Steel								
★ Roughing / 1st Choice ☆ Roughing / 2nd Choice	M	Austenitic Stainless Steel		★	☆					
		Martensitic Stainless Steel		★	☆					
Insert	Part Number	Dimensions (in)					MEGACOAT NANO EX			
		W1	S	D1	INSL	RE	PR1835	PR1825		
 General Purpose		LPGT	010210ER-GM	0.165	0.086	0.083	0.247	0.039	●	●

Workpiece material	P Steel					M Stainless steel				
	01	10	20	30	40	01	10	20	30	40
ISO										
Lineup	Wear resistance oriented PR1825					1st recommendation PR1835				
	Stability oriented PR1835									

New CVD Coated Carbide Grade for Steel

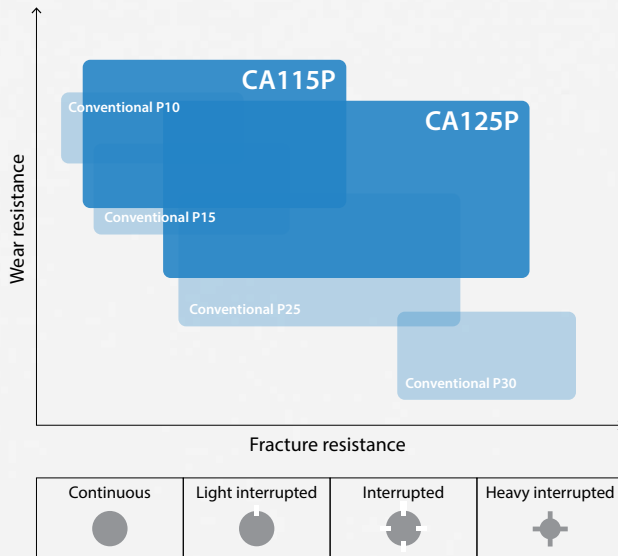
# CA115P/CA125P NEW

The new standard for steel machining

Longer tool life in a wide range of machining environments

Expanded lineup of chipbreakers for steel machining in various applications

## Application Map



## CA115P

Continuous-light interrupted machining of steel

For high-efficiency machining  
with wear and chipping resistance

## CA125P

Continuous-heavy interrupted steel machining

First recommendation for steel machining  
High versatility



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## Advanced Technology

### New coating & carbide substrate



Black & Gold

Excellent wear and fracture resistance

## Innovative Layering Technology

### Ultra-uniform alumina layering

Proprietary crystal forming technology

Achieving significant crystal growth uniformity and direction

Reduces crater wear and extends tool life



## New Chipbreaker Design

### PMG Chipbreaker for Medium-Roughing

Unique design covers a wide range of machining applications

Maintains excellent chip control



For medium-roughing

# PMG Chipbreaker NEW

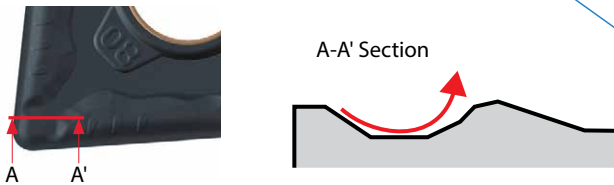
Covers a wide range of machining applications from medium machining to roughing  
 Excellent wear resistance with low cutting force design  
 Reduces chip shape inconsistencies and improves tool life

## Step breaker structure

Suppresses chip entanglement during large D.O.C. machining with a gently rising surface

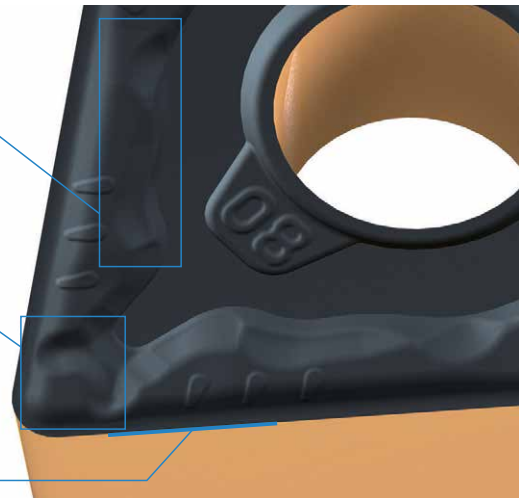
## Circular Dot

Control chips during small D.O.C. machining



## High Rake Perimeter

Low resistance design suppresses rake face temperature rise  
 Reduces chipbreakers wear and chip shape changes



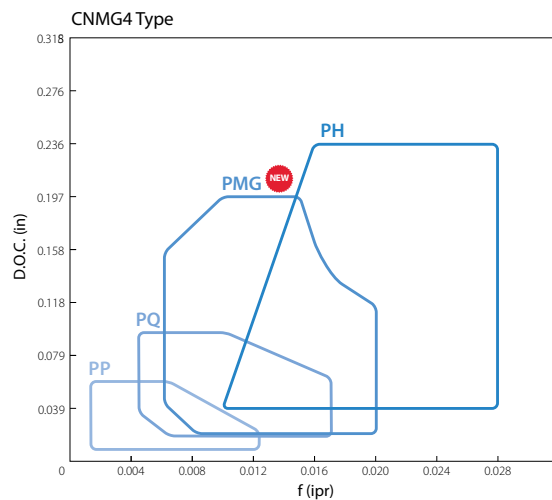
For finishing

# PP Chipbreaker

For Finishing  
 Low Resistance



Applicable Chipbreaker Range  
 (D.O.C. indicates radial depth of cut)



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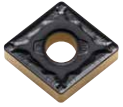
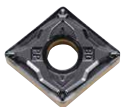
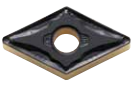
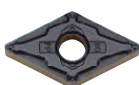
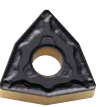


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MILLING KITS

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**CA115P & CA125P Inserts**

Usage Classification								
★ Continuous-Light Interrupted / 1st Choice ☆ Continuous-Heavy Interrupted / 1st Choice		P	Carbon Steel / Alloy Steel				★	☆
			Mold Steel				★	☆
Insert	Part Number	Dimensions (in)				CVD Coating	CVD Coating	
		IC	Thickness	Hole	Corner-R (RE)	CA115P	CA125P	
Medium-Roughing 	<b>CNMG 432PMG</b>	1/2	3/16	0.203	1/32	●	●	
Finishing 	<b>CNMG 432PP</b>					●	●	
Medium-Roughing 	<b>DNMG 432PMG</b>	1/2	3/16	0.203	1/32	●	●	
Finishing 	<b>DNMG 432PP</b>					●	●	
Medium-Roughing 	<b>WNMG 432PMG</b>	1/2	3/16	0.203	1/32	●	●	
Finishing 	<b>WNMG 432PP</b>					●	●	
Finishing 	<b>VNMG 331PP</b>	3/8	3/16	0.150	1/64	●	●	

MILLING KITS  
TURNING KITS  
DRILLING KITS

**Recommended Cutting Conditions**



**Vc (sfm)**

Insert	Low Carbon Steel Low Carbon Alloy Steel		Medium Carbon Steel Medium Carbon Alloy Steel		High Carbon Alloy Steel
	Up to 25 HRC			Up to 32 HRC	
CA115P	Negative	490 ~ <b>980</b> ~ 1310		490 ~ <b>920</b> ~ 1180	
	Positive	390 ~ <b>790</b> ~ 1050		360 ~ <b>720</b> ~ 950	
CA125P	Negative	490 ~ <b>790</b> ~ 1050		490 ~ <b>720</b> ~ 920	
	Positive	390 ~ <b>620</b> ~ 850		360 ~ <b>560</b> ~ 750	

## Steel Turning Kits

Includes (1) Double-Clamp Turning Toolholder and (10) Inserts

Choose your Toolholder, Insert Chipbreaker, and Insert Grade

Pick 1 Toolholder Part Number		Shank Size (Square)	Overall Length	Insert	Pick 1 Chipbreaker	Pick 1 Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
 <p>DCLN... Double-Clamp Turning Holder</p>	DCLNR 12-4B	0.750"	4.500"	CNMG432	PMG	CA115P	THC89560KITMGCA115	\$120.00	\$170.00
						CA125P	THC89560KITMGCA125		
					PP	CA115P	THC89560KITPPCA115		
						CA125P	THC89560KITPPCA125		
	DCLNL 12-4B	0.750"	4.500"		PMG	CA115P	THC89600KITMGCA115		
						CA125P	THC89600KITMGCA125		
					PP	CA115P	THC89600KITPPCA115		
						CA125P	THC89600KITPPCA125		
	DCLNR 16-4D	1.000"	6.000"		PMG	CA115P	THC89561KITMGCA115		
						CA125P	THC89561KITMGCA125		
					PP	CA115P	THC89561KITPPCA115		
						CA125P	THC89561KITPPCA125		
DCLNL 16-4D	1.000"	6.000"	PMG	CA115P	THC89601KITMGCA115				
				CA125P	THC89601KITMGCA125				
			PP	CA115P	THC89601KITPPCA115				
				CA125P	THC89601KITPPCA125				
 <p>DDJN... Double-Clamp Turning Holder</p>	DDJNR 12-4B	0.750"	4.500"	DNMG432	PMG	CA115P	THC89568KITMGCA115	\$140.00	\$200.00
						CA125P	THC89568KITMGCA125		
					PP	CA115P	THC89568KITPPCA115		
						CA125P	THC89568KITPPCA125		
	DDJNL 12-4B	0.750"	4.500"		PMG	CA115P	THC89608KITMGCA115		
						CA125P	THC89608KITMGCA125		
					PP	CA115P	THC89608KITPPCA115		
						CA125P	THC89608KITPPCA125		
	DDJNR 16-4D	1.000"	6.000"		PMG	CA115P	THC89569KITMGCA115		
						CA125P	THC89569KITMGCA125		
					PP	CA115P	THC89569KITPPCA115		
						CA125P	THC89569KITPPCA125		
DDJNL 16-4D	1.000"	6.000"	PMG	CA115P	THC89609KITMGCA115				
				CA125P	THC89609KITMGCA125				
			PP	CA115P	THC89609KITPPCA115				
				CA125P	THC89609KITPPCA125				

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MILLING KITS

TURNING KITS

DRILLING KITS

# Steel Turning Kits

Includes (1) Double-Clamp Turning Toolholder and (10) Inserts

Choose your Toolholder, Insert Chipbreaker, and Insert Grade

Pick 1 Toolholder Part Number		Shank Size (Square)	Overall Length	Insert	Pick 1 Chipbreaker	Pick 1 Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
 <p>DWLN... Double-Clamp Turning Holder</p>	DWLNR 12-4B	0.750"	4.500"	WNMG432	PMG	CA115P	THC89590KITMGCA115	\$120.00	\$170.00
						CA125P	THC89590KITMGCA125		
					PP	CA115P	THC89590KITPPCA115		
						CA125P	THC89590KITPPCA125		
	PMG	CA115P	THC89630KITMGCA115						
		CA125P	THC89630KITMGCA125						
	PP	CA115P	THC89630KITPPCA115						
		CA125P	THC89630KITPPCA125						
	DWLNR 16-4D	1.000"	6.000"		PMG	CA115P	THC89592KITMGCA115		
						CA125P	THC89592KITMGCA125		
					PP	CA115P	THC89592KITPPCA115		
						CA125P	THC89592KITPPCA125		
DWLNL 16-4D	1.000"	6.000"	PMG	CA115P	THC89632KITMGCA115				
				CA125P	THC89632KITMGCA125				
			PP	CA115P	THC89632KITPPCA115				
				CA125P	THC89632KITPPCA125				
 <p>DVJN... Double-Clamp Turning Holder</p>	DVJNR 12-3B	0.750"	4.500"	VNMG331	PP	CA115P	THC89585KITPPCA115	\$140.00	\$200.00
						CA125P	THC89585KITPPCA125		
	DVJNL 12-3B	0.750"	4.500"		PP	CA115P	THC89625KITPPCA115		
						CA125P	THC89625KITPPCA125		
	DVJNR 16-3D	1.000"	6.000"		PP	CA115P	THC89586KITPPCA115		
						CA125P	THC89586KITPPCA125		
	DVJNL 16-3D	1.000"	6.000"		PP	CA115P	THC89626KITPPCA115		
						CA125P	THC89626KITPPCA125		

MILLING KITS  
TURNING KITS  
DRILLING KITS

PVD Coating for Heat-Resistant Alloy

# PR115S/PR120S <sup>NEW</sup>



Unique carbide substrate with excellent heat-resistant properties and new coating technology “MEGACOAT TOUGH” provides longer tool life for heat-resistant alloy machining. Low cutting force and stable machining with specialized chipbreakers.

MILLING KITS

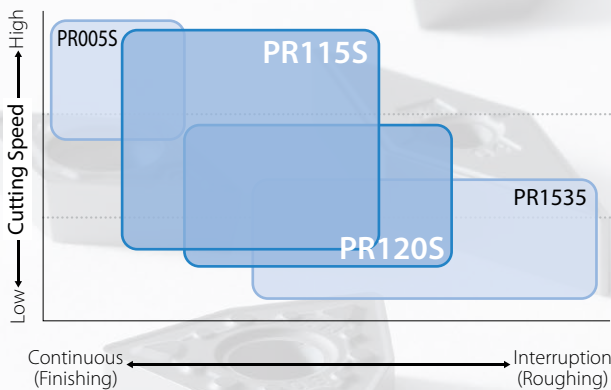
TURNING KITS

DRILLING KITS

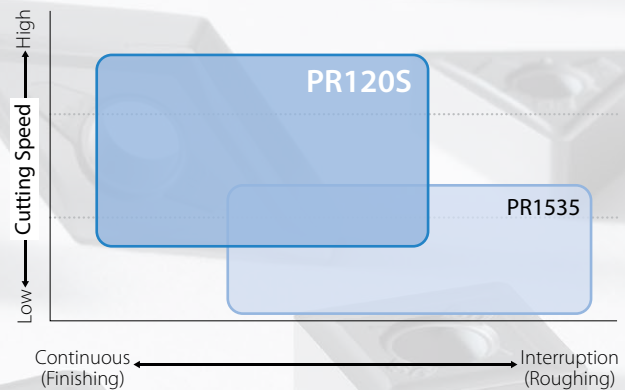
**PR115S** Covers a wide range of difficult-to-cut material machining applications  
1st recommendation for continuous finishing of heat-resistant alloys

**PR120S** Long tool life and stable machining in interrupted machining of heat-resistant alloys  
1st recommendation for continuous finishing to light interrupted machining of stainless steel  
Longer tool life extension possible for stainless steel machining

**S** Heat-Resistant Alloys Application map

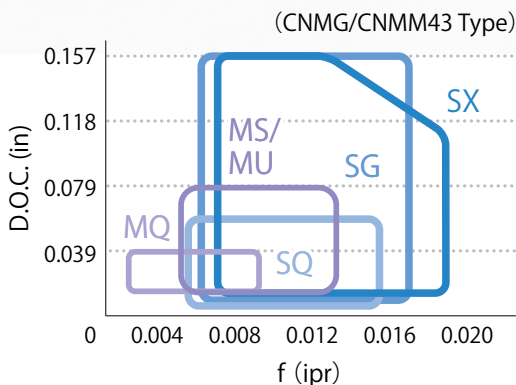


**M** Stainless Steel Application map

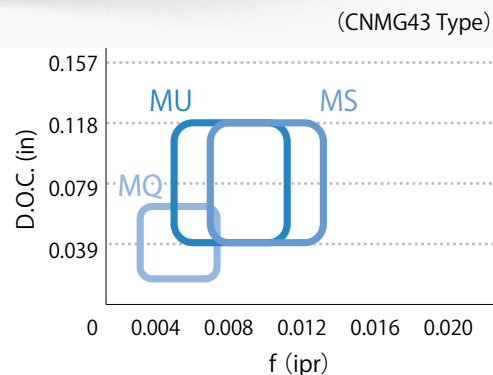


**Applicable Chipbreaker Range** (D.O.C. Indicates radial depth of cut per side)

**Heat-Resistant Alloys**



**Stainless Steel**










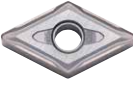






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## PR115S & PR125S Inserts

Usage Classification								
★ 1st Choice ☆ 2nd Choice	M	Stainless Steel					☆	★
	S	Heat-Resistant Alloy					★	☆
Insert	Part Number	Dimensions (in)				PVD Coating		
		IC	Thickness	Hole	Corner-R (RE)	PR115S	PR120S	
Finishing-Medium		<b>CNMG 432MQ</b>	1/2	3/16	0.203	1/32	●	●
Medium-Roughing		<b>CNMG 432MS</b>					●	●
Roughing		<b>CNMG 432SG</b>					●	●
Finishing-Medium		<b>CNMG432SQ</b>					●	●
Finishing-Medium		<b>DNMG 432MQ</b>	1/2	3/16	0.203	1/32	●	●
Medium-Roughing		<b>DNMG 432MS</b>					●	●
Roughing		<b>DNMG 432SG</b>					●	●
Finishing-Medium		<b>DNMG 432SQ</b>					●	●
Finishing-Medium		<b>WNMG 432MQ</b>	1/2	3/16	0.203	1/32	●	●
Medium-Roughing		<b>WNMG 432MS</b>					●	●
Roughing		<b>WNMG 432SG</b>					●	●
Finishing-Medium		<b>VNMG331 MQ</b>	3/8	3/16	0.150	1/64	●	●
Medium-Roughing		<b>VNMG331 MS</b>					●	●
Roughing		<b>VNMG331 SG</b>					●	●

MILLING KITS



TURNING KITS

DRILLING KITS

## HRSA Turning Kits

Includes (1) Double-Clamp Turning Toolholder and (10) Inserts

Choose your Toolholder, Insert Chipbreaker, and Insert Grade

Pick 1 Toolholder Part Number		Shank Size (Square)	Overall Length	Pick 1 Insert	Pick 1 Chipbreaker	Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price		
 <p>DCLN... Double-Clamp Turning Holder</p>	DCLNR 12-4B	0.750"	4.500"	CNMG432	MQ	PR115S	THC89560KITMQPR115	\$120.00	\$170.00		
						PR120S	THC89560KITMQPR120				
					MS	PR115S	THC89560KITMSPR115				
						PR120S	THC89560KITMSPR120				
					SG	PR115S	THC89560KITSGPR115				
	PR120S					THC89560KITSGPR120					
	SQ				PR115S	THC89560KITSQPR115					
					PR120S	THC89560KITSQPR120					
	DCLNL 12-4B				0.750"	4.500"	MQ			PR115S	THC89600KITMQPR115
										PR120S	THC89600KITMQPR120
		MS	PR115S				THC89600KITMSPR115				
			PR120S				THC89600KITMSPR120				
		SG	PR115S				THC89600KITSGPR115				
	PR120S		THC89600KITSGPR120								
	SQ	PR115S	THC89600KITSQPR115								
		PR120S	THC89600KITSQPR120								
	DCLNR 16-4D	1.000"	6.000"				MQ			PR115S	THC89561KITMQPR115
										PR120S	THC89561KITMQPR120
					MS	PR115S	THC89561KITMSPR115				
						PR120S	THC89561KITMSPR120				
SG				PR115S	THC89561KITSGPR115						
	PR120S			THC89561KITSGPR120							
SQ	PR115S			THC89561KITSQPR115							
	PR120S			THC89561KITSQPR120							
DCLNL 16-4D	1.000"			6.000"	MQ	PR115S	THC89601KITMQPR115				
						PR120S	THC89601KITMQPR120				
		MS	PR115S		THC89601KITMSPR115						
			PR120S		THC89601KITMSPR120						
		SG	PR115S		THC89601KITSGPR115						
PR120S			THC89601KITSGPR120								
SQ		PR115S	THC89601KITSQPR115								
		PR120S	THC89601KITSQPR120								
 <p>DDJN... Double-Clamp Turning Holder</p>		DDJNR 12-4B	0.750"		4.500"	DNMG432	MQ	PR115S	THC89568KITMQPR115	\$140.00	\$200.00
								PR120S	THC89568KITMQPR120		
	MS			PR115S			THC89568KITMSPR115				
				PR120S			THC89568KITMSPR120				
	SG			PR115S			THC89568KITSGPR115				
		PR120S		THC89568KITSGPR120							
	SQ	PR115S		THC89568KITSQPR115							
		PR120S		THC89568KITSQPR120							
	DDJNL 12-4B	0.750"		4.500"			MQ	PR115S	THC89608KITMQPR115		
								PR120S	THC89608KITMQPR120		
			MS		PR115S		THC89608KITMSPR115				
					PR120S		THC89608KITMSPR120				
			SG		PR115S		THC89608KITSGPR115				
	PR120S				THC89608KITSGPR120						
	SQ		PR115S		THC89608KITSQPR115						
			PR120S		THC89608KITSQPR120						
	DDJNR 16-4D		1.000"		6.000"		MQ	PR115S	THC89569KITMQPR115		
								PR120S	THC89569KITMQPR120		
		MS		PR115S			THC89569KITMSPR115				
				PR120S			THC89569KITMSPR120				
SG		PR115S		THC89569KITSGPR115							
	PR120S	THC89569KITSGPR120									
SQ	PR115S	THC89569KITSQPR115									
	PR120S	THC89569KITSQPR120									
DDJNL 16-4D	1.000"	6.000"		MQ		PR115S	THC89609KITMQPR115				
						PR120S	THC89609KITMQPR120				
			MS	PR115S	THC89609KITMSPR115						
				PR120S	THC89609KITMSPR120						
			SG	PR115S	THC89609KITSGPR115						
PR120S				THC89609KITSGPR120							
SQ			PR115S	THC89609KITSQPR115							
			PR120S	THC89609KITSQPR120							

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MILLING KITS



TURNING KITS

DRILLING KITS

## HRSA Turning Kits

Includes (1) Double-Clamp Turning Toolholder and (10) Inserts

Choose your Toolholder, Insert Chipbreaker, and Insert Grade

Pick 1 Toolholder Part Number		Shank Size (Square)	Overall Length	Pick 1 Insert	Pick 1 Chipbreaker	Grade	Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
 <p>DWLN... Double-Clamp Turning Holder</p>	DWLNR 12-4B	0.750"	4.500"	WNMG432	MQ	PR115S	THC89590KITMQPR115	\$120.00	\$170.00
						PR120S	THC89590KITMQPR120		
					MS	PR115S	THC89590KITMSPR115		
						PR120S	THC89590KITMSPR120		
					SG	PR115S	THC89590KITSGPR115		
						PR120S	THC89590KITSGPR120		
	MQ	PR115S	THC89630KITMQPR115						
		PR120S	THC89630KITMQPR120						
	MS	PR115S	THC89630KITMSPR115						
		PR120S	THC89630KITMSPR120						
	SG	PR115S	THC89630KITSGPR115						
		PR120S	THC89630KITSGPR120						
	DWLNR 16-4D	1.000"	6.000"		MQ	PR115S	THC89592KITMQPR115		
						PR120S	THC89592KITMQPR120		
MS				PR115S	THC89592KITMSPR115				
				PR120S	THC89592KITMSPR120				
SG				PR115S	THC89592KITSGPR115				
				PR120S	THC89592KITSGPR120				
MQ	PR115S	THC89632KITMQPR115							
	PR120S	THC89632KITMQPR120							
DWLNL 16-4D	1.000"	6.000"	MS	PR115S	THC89632KITMSPR115				
				PR120S	THC89632KITMSPR120				
			SG	PR115S	THC89632KITSGPR115				
				PR120S	THC89632KITSGPR120				
			MQ	PR115S	THC89632KITMQPR115				
				PR120S	THC89632KITMQPR120				
 <p>DVJN... Double-Clamp Turning Holder</p>	DVJNR 12-3B	0.750"	4.500"	VNMG331	MQ	PR115S	THC89585KITMQPR115	\$140.00	\$200.00
						PR120S	THC89585KITMQPR120		
					MS	PR115S	THC89585KITMSPR115		
						PR120S	THC89585KITMSPR120		
					SG	PR115S	THC89585KITSGPR115		
						PR120S	THC89585KITSGPR120		
	MQ	PR115S	THC89625KITMQPR115						
		PR120S	THC89625KITMQPR120						
	MS	PR115S	THC89625KITMSPR115						
		PR120S	THC89625KITMSPR120						
	SG	PR115S	THC89625KITSGPR115						
		PR120S	THC89625KITSGPR120						
	DVJNR 16-3D	1.000"	6.000"		MQ	PR115S	THC89586KITMQPR115		
						PR120S	THC89586KITMQPR120		
MS				PR115S	THC89586KITMSPR115				
				PR120S	THC89586KITMSPR120				
SG				PR115S	THC89586KITSGPR115				
				PR120S	THC89586KITSGPR120				
MQ	PR115S	THC89626KITMQPR115							
	PR120S	THC89626KITMQPR120							
DVJNL 16-3D	1.000"	6.000"	MS	PR115S	THC89626KITMSPR115				
				PR120S	THC89626KITMSPR120				
			SG	PR115S	THC89626KITSGPR115				
				PR120S	THC89626KITSGPR120				
			MQ	PR115S	THC89626KITMQPR115				
				PR120S	THC89626KITMQPR120				
SG	PR115S	THC89626KITSGPR115							
	PR120S	THC89626KITSGPR120							

MILLING KITS

TURNING KITS

DRILLING KITS



# DRV Magic Drill Kits

## High Efficiency and High Speed Indexable Drill

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

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

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

MILLING KITS

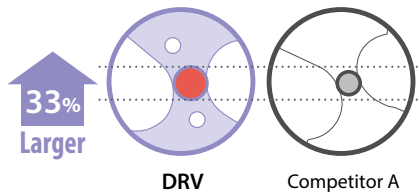
TURNING KITS

DRILLING KITS

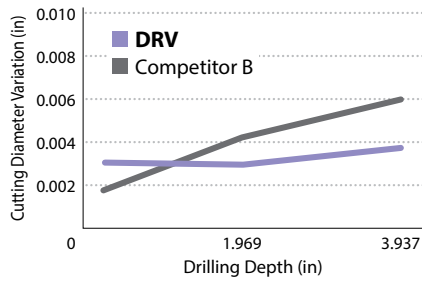
### 1 Excellent Drilling Precision with Less Variation in Cutting Diameter

#### Optimal Web Thickness and Low Cutting Force Design Reduces Chattering

Web Thickness Comparison  
(Internal Evaluation)

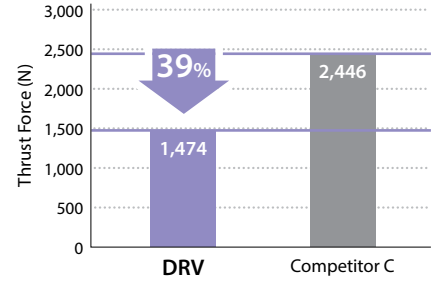


Cutting Diameter Variation Comparison  
(Internal Evaluation)



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

Cutting Force Comparison  
(Internal Evaluation)



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



Variety of Lengths Available from 2D ~ 6D

Expanded Lineup from  $\varnothing 0.500'' \sim \varnothing 2.000''$

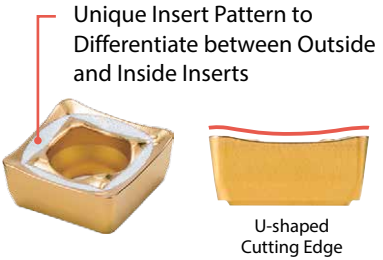
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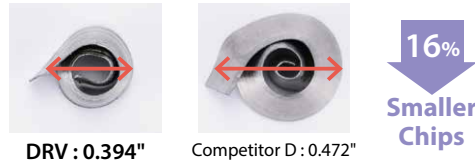
## 2 Unique Insert Design to Control Chip Flow

### Outer Edge Insert



### Smooth Chip Evacuation with Compact Chips

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



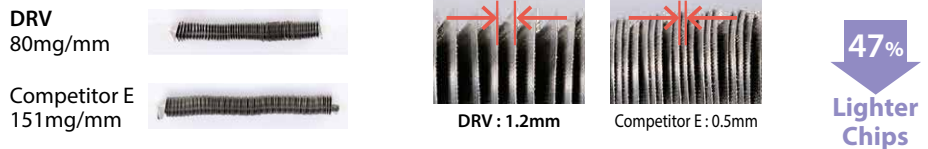
Cutting Conditions : Vc = 490 sfm, f = 0.0024 ipr, Cutting Dia. 00.812 (3D), Wet Workpiece : 1049

### Inner Edge Insert



### Excellent Chip Evacuation with 6xD Maximum Deep-Hole Drilling

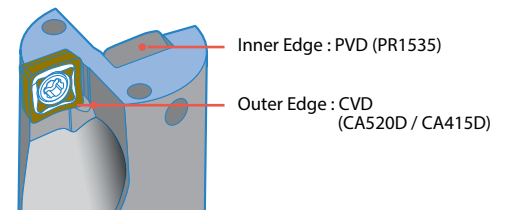
Weight per Unit of Length for Chips Generated by the Inner Insert (Internal Evaluation)



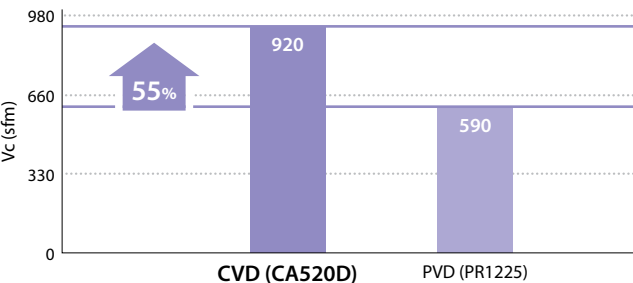
Cutting Conditions : Vc = 820 sfm, f = 0.0031 ipr, Cutting Dia. 00.812 (5D), Wet, Workpiece : 304

## 3 New Insert Grades Developed for Drilling

### High Speed and Highly Efficient Machining with the Combination of CVD (Outer Edge) and PVD (Inner Edge) Inserts

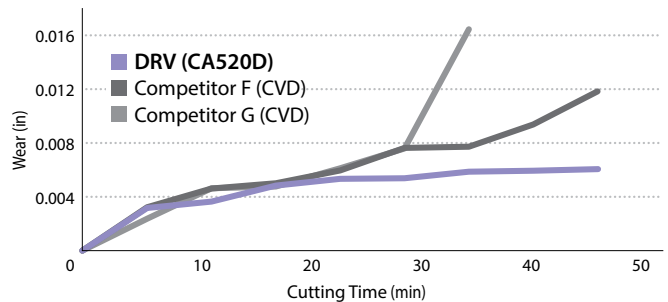


Recommended Cutting Conditions (Maximum Values)



Cutting Dia. 00.812" (3D) Workpiece : 1049

Wear Resistance Comparison (Internal Evaluation)



Cutting Conditions : Vc = 660 sfm, f = 0.0047 ipr, Cutting Dia. 00.812" (3D), Wet Workpiece : 4140H



2D



DRV Magic Drill - 2D Kits

Includes (1) Drill and (10) Inside Inserts and (10) Outside Inserts

Choose Your Drill Size and 1 of 2 Insert Combinations

MILLING KITS

TURNING KITS

DRILLING KITS

Pick 1 Drill Body Part Number	Cutting Dia.	Shank Dia.	Pick 1 of 2 Combinations for Inside and Outside Inserts GM KIT for General Purpose / SM KIT for Stainless Steel				Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
			Inside Edge Insert	Insert Grade	Outside Edge Insert	Insert Grade			
S075-DRV0500-2-03	0.500"	0.750"	LCMT030205-GM-I	PR1535	LCMT030203-GM-E	CA520D	THD11891_KITGM	\$340.00	\$440.00
			LCMT030205-SM-I	PR1535	LCMT030203-SM-E	PR1225	THD11891_KITSM		
S075-DRV0562-2-04	0.562"	0.750"	SCMT040209-GM-I	PR1535	SCMT040205-GM-E	CA520D	THD11812_KITGM	\$360.00	\$470.00
			SCMT040209-SM-I	PR1535	SCMT040205-SM-E	PR1225	THD11812_KITSM		
S075-DRV0625-2-05	0.625"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11706_KITGM	\$360.00	\$470.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11706_KITSM		
S075-DRV0656-2-05	0.656"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11711_KITGM	\$360.00	\$470.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11711_KITSM		
S100-DRV0688-2-05	0.688"	1.000"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11716_KITGM	\$360.00	\$470.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11716_KITSM		
S100-DRV0750-2-06	0.750"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11721_KITGM	\$360.00	\$470.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11721_KITSM		
S100-DRV0812-2-06	0.812"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11731_KITGM	\$360.00	\$470.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11731_KITSM		
S100-DRV0875-2-06	0.875"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11736_KITGM	\$360.00	\$470.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11736_KITSM		
S100-DRV0938-2-07	0.938"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11746_KITGM	\$380.00	\$490.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11746_KITSM		
S100-DRV0984-2-07	0.984"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11751_KITGM	\$380.00	\$490.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11751_KITSM		
S100-DRV1000-2-07	1.000"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11756_KITGM	\$380.00	\$490.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11756_KITSM		
S125-DRV1062-2-09	1.062"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11822_KITGM	\$430.00	\$560.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11822_KITSM		
S125-DRV1125-2-09	1.125"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11823_KITGM	\$430.00	\$560.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11823_KITSM		
S125-DRV1188-2-09	1.188"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11824_KITGM	\$430.00	\$560.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11824_KITSM		
S150-DRV1250-2-09	1.250"	1.500"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11825_KITGM	\$430.00	\$560.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11825_KITSM		
S150-DRV1312-2-11	1.312"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11853_KITGM	\$470.00	\$610.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11853_KITSM		
S150-DRV1375-2-11	1.375"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11854_KITGM	\$470.00	\$610.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11854_KITSM		
S150-DRV1438-2-11	1.438"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11855_KITGM	\$470.00	\$610.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11855_KITSM		
S150-DRV1500-2-11	1.500"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11856_KITGM	\$470.00	\$610.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11856_KITSM		
S150-DRV1625-2-14	1.625"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12014_KITGM	\$520.00	\$680.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12014_KITSM		
S150-DRV1750-2-14	1.750"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12024_KITGM	\$520.00	\$680.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12024_KITSM		
S150-DRV1875-2-14	1.875"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12034_KITGM	\$520.00	\$680.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12034_KITSM		
S150-DRV2000-2-17	2.000"	1.500"	SCMT170610-GM-I	PR1535	SCMT170608-GM-E	CA520D	THD12044_KITGM	\$570.00	\$740.00
			SCMT170610-SM-I	PR1535	SCMT170608-SM-E	PR1225	THD12044_KITSM		

Estimated Cutting Tolerance (2D)

Applicable Insert Information Page 35

DC	Estimated Cutting Tolerance (in)
Ø.500" - Ø2.000"	+0.012 0

These values are estimates.  
These values may change due to  
machine, workpiece, clamping power,  
and cutting conditions

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3D



## DRV Magic Drill - 3D Kits

Includes (1) Drill and (10) Inside Inserts and (10) Outside Inserts  
Choose Your Drill Size and 1 of 2 Insert Combinations

Product Info



Pick 1 Drill Body Part Number	Cutting Dia.	Shank Dia.	Pick 1 of 2 Combinations for Inside and Outside Inserts GM KIT for General Purpose / SM KIT for Stainless Steel				Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
			Inside Edge Insert	Insert Grade	Outside Edge Insert	Insert Grade			
S075-DRV0500-3-03	0.500"	0.750"	LCMT030205-GM-I	PR1535	LCMT030203-GM-E	CA520D	THD11895_KITGM	\$350.00	\$460.00
			LCMT030205-SM-I	PR1535	LCMT030203-SM-E	PR1225	THD11895_KITSM		
S075-DRV0562-3-04	0.562"	0.750"	SCMT040209-GM-I	PR1535	SCMT040205-GM-E	CA520D	THD11814_KITGM	\$370.00	\$480.00
			SCMT040209-SM-I	PR1535	SCMT040205-SM-E	PR1225	THD11814_KITSM		
S075-DRV0625-3-05	0.625"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11707_KITGM	\$370.00	\$480.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11707_KITSM		
S075-DRV0656-3-05	0.656"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11712_KITGM	\$370.00	\$480.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11712_KITSM		
S100-DRV0688-3-05	0.688"	1.000"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11717_KITGM	\$370.00	\$480.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11717_KITSM		
S100-DRV0750-3-06	0.750"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11722_KITGM	\$380.00	\$490.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11722_KITSM		
S100-DRV0812-3-06	0.812"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11732_KITGM	\$380.00	\$490.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11732_KITSM		
S100-DRV0875-3-06	0.875"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11737_KITGM	\$380.00	\$490.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11737_KITSM		
S100-DRV0938-3-07	0.938"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11747_KITGM	\$390.00	\$510.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11747_KITSM		
S100-DRV0984-3-07	0.984"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11752_KITGM	\$390.00	\$510.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11752_KITSM		
S100-DRV1000-3-07	1.000"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11757_KITGM	\$390.00	\$510.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11757_KITSM		
S125-DRV1062-3-09	1.062"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11826_KITGM	\$450.00	\$590.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11826_KITSM		
S125-DRV1125-3-09	1.125"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11827_KITGM	\$450.00	\$590.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11827_KITSM		
S125-DRV1188-3-09	1.188"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11828_KITGM	\$450.00	\$590.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11828_KITSM		
S150-DRV1250-3-09	1.250"	1.500"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11829_KITGM	\$450.00	\$590.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11829_KITSM		
S150-DRV1312-3-11	1.312"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11857_KITGM	\$490.00	\$640.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11857_KITSM		
S150-DRV1375-3-11	1.375"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11858_KITGM	\$490.00	\$640.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11858_KITSM		
S150-DRV1438-3-11	1.438"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11859_KITGM	\$490.00	\$640.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11859_KITSM		
S150-DRV1500-3-11	1.500"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11860_KITGM	\$490.00	\$640.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11860_KITSM		
S150-DRV1625-3-14	1.625"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12015_KITGM	\$540.00	\$700.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12015_KITSM		
S150-DRV1750-3-14	1.750"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12025_KITGM	\$540.00	\$700.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12025_KITSM		
S150-DRV1875-3-14	1.875"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12035_KITGM	\$540.00	\$700.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12035_KITSM		
S150-DRV2000-3-17	2.000"	1.500"	SCMT170610-GM-I	PR1535	SCMT170608-GM-E	CA520D	THD12045_KITGM	\$590.00	\$770.00
			SCMT170610-SM-I	PR1535	SCMT170608-SM-E	PR1225	THD12045_KITSM		

MILLING KITS

TURNING KITS

DRILLING KITS

■ Estimated Cutting Tolerance (3D)

Applicable Insert Information Page 35

DC	Estimated Cutting Tolerance (in)
Ø0.500" - Ø2.000"	+0.012 0

These values are estimates.  
These values may change due to  
machine, workpiece, damping power,  
and cutting conditions

KYOCERA Precision Tools

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4D



### DRV Magic Drill - 4D Kits

Includes (1) Drill and (10) Inside Inserts and (10) Outside Inserts

Choose Your Drill Size and 1 of 2 Insert Combinations

MILLING KITS

TURNING KITS

DRILLING KITS

Pick 1 Drill Body Part Number	Cutting Dia.	Shank Dia.	Pick 1 of 2 Combinations for Inside and Outside Inserts GM KIT for General Purpose / SM KIT for Stainless Steel				Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
			Inside Edge Insert	Insert Grade	Outside Edge Insert	Insert Grade			
S075-DRV0500-4-03	0.500"	0.750"	LCMT030205-GM-I	PR1535	LCMT030203-GM-E	CA520D	THD11899_KITGM	\$390.00	\$510.00
			LCMT030205-SM-I	PR1535	LCMT030203-SM-E	PR1225	THD11899_KITSM		
S075-DRV0562-4-04	0.562"	0.750"	SCMT040209-GM-I	PR1535	SCMT040205-GM-E	CA520D	THD11816_KITGM	\$400.00	\$520.00
			SCMT040209-SM-I	PR1535	SCMT040205-SM-E	PR1225	THD11816_KITSM		
S075-DRV0625-4-05	0.625"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11708_KITGM	\$400.00	\$520.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11708_KITSM		
S075-DRV0656-4-05	0.656"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11713_KITGM	\$400.00	\$520.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11713_KITSM		
S100-DRV0688-4-05	0.688"	1.000"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11718_KITGM	\$400.00	\$520.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11718_KITSM		
S100-DRV0750-4-06	0.750"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11723_KITGM	\$410.00	\$530.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11723_KITSM		
S100-DRV0812-4-06	0.812"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11733_KITGM	\$410.00	\$530.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11733_KITSM		
S100-DRV0875-4-06	0.875"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11738_KITGM	\$410.00	\$530.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11738_KITSM		
S100-DRV0938-4-07	0.938"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11748_KITGM	\$430.00	\$560.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11748_KITSM		
S100-DRV0984-4-07	0.984"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11753_KITGM	\$430.00	\$560.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11753_KITSM		
S100-DRV1000-4-07	1.000"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11758_KITGM	\$430.00	\$560.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11758_KITSM		
S125DRV1062-4-09	1.062"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11830_KITGM	\$490.00	\$640.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11830_KITSM		
S125-DRV1125-4-09	1.125"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11831_KITGM	\$490.00	\$640.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11831_KITSM		
S125-DRV1188-4-09	1.188"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11832_KITGM	\$490.00	\$640.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11832_KITSM		
S150-DRV1250-4-09	1.250"	1.500"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11833_KITGM	\$490.00	\$640.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11833_KITSM		
S150-DRV1312-4-11	1.312"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11861_KITGM	\$550.00	\$720.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11861_KITSM		
S150-DRV1375-4-11	1.375"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11862_KITGM	\$550.00	\$720.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11862_KITSM		
S150-DRV1438-4-11	1.438"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11863_KITGM	\$550.00	\$720.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11863_KITSM		
S150-DRV1500-4-11	1.500"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11864_KITGM	\$550.00	\$720.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11864_KITSM		
S150-DRV1625-4-14	1.625"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12016_KITGM	\$590.00	\$770.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12016_KITSM		
S150-DRV1750-4-14	1.750"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12026_KITGM	\$590.00	\$770.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12026_KITSM		
S200-DRV1875-4-14	1.875"	2.000"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12036_KITGM	\$610.00	\$790.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12036_KITSM		
S200-DRV2000-4-17	2.000"	2.000"	SCMT170610-GM-I	PR1535	SCMT170608-GM-E	CA520D	THD12046_KITGM	\$640.00	\$830.00
			SCMT170610-SM-I	PR1535	SCMT170608-SM-E	PR1225	THD12046_KITSM		

Estimated Cutting Tolerance (4D)

Applicable Insert Information Page 35

DC	Estimated Cutting Tolerance (in)	DC	Estimated Cutting Tolerance (in)
Ø0.500" - Ø1.500"	+0.014 0	Ø1.625" - Ø2.000"	+0.016 0

These values are estimates. These values may change due to machine, workpiece, clamping power, and cutting conditions

2023 Summer / Fall Promo Pack Offers Valid through December 31, 2023

All promotional items are available exclusively through Authorized North American Kyocera Precision Tool Distributors.

Please use specified Promo Code or Kit Part Number when placing orders. To locate a distributor visit [www.kyoceraprecisiontools.com/locate](http://www.kyoceraprecisiontools.com/locate).



5D



## DRV Magic Drill - 5D Kits

Includes (1) Drill and (10) Inside Inserts and (10) Outside Inserts  
Choose Your Drill Size and 1 of 2 Insert Combinations

Product Info



Pick 1 Drill Body Part Number	Cutting Dia.	Shank Dia.	Pick 1 of 2 Combinations for Inside and Outside Inserts GM KIT for General Purpose / SM KIT for Stainless Steel				Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
			Inside Edge Insert	Insert Grade	Outside Edge Insert	Insert Grade			
S075-DRV0500-5-03	0.500"	0.750"	LCMT030205-GM-I	PR1535	LCMT030203-GM-E	CA520D	THD11903_KITGM	\$420.00	\$550.00
			LCMT030205-SM-I	PR1535	LCMT030203-SM-E	PR1225	THD11903_KITSM		
S075-DRV0562-5-04	0.562"	0.750"	SCMT040209-GM-I	PR1535	SCMT040205-GM-E	CA520D	THD11818_KITGM	\$430.00	\$560.00
			SCMT040209-SM-I	PR1535	SCMT040205-SM-E	PR1225	THD11818_KITSM		
S075-DRV0625-5-05	0.625"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11709_KITGM	\$430.00	\$560.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11709_KITSM		
S075-DRV0656-5-05	0.656"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11714_KITGM	\$430.00	\$560.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11714_KITSM		
S100-DRV0688-5-05	0.688"	1.000"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11719_KITGM	\$430.00	\$560.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11719_KITSM		
S100-DRV0750-5-06	0.750"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11724_KITGM	\$450.00	\$590.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11724_KITSM		
S100-DRV0812-5-06	0.812"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11734_KITGM	\$450.00	\$590.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11734_KITSM		
S100-DRV0875-5-06	0.875"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11739_KITGM	\$480.00	\$620.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11739_KITSM		
S100-DRV0938-5-07	0.938"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11749_KITGM	\$480.00	\$620.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11749_KITSM		
S100-DRV0984-5-07	0.984"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11754_KITGM	\$480.00	\$620.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11754_KITSM		
S100-DRV1000-5-07	1.000"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11759_KITGM	\$480.00	\$620.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11759_KITSM		
S125-DRV1062-5-09	1.062"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11834_KITGM	\$530.00	\$690.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11834_KITSM		
S125-DRV1125-5-09	1.125"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11835_KITGM	\$530.00	\$690.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11835_KITSM		
S125-DRV1188-5-09	1.188"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11836_KITGM	\$530.00	\$690.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11836_KITSM		
S150-DRV1250-5-09	1.250"	1.500"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11837_KITGM	\$530.00	\$690.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11837_KITSM		
S150-DRV1312-5-11	1.312"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11865_KITGM	\$590.00	\$770.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11865_KITSM		
S150-DRV1375-5-11	1.375"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11866_KITGM	\$590.00	\$770.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11866_KITSM		
S150-DRV1438-5-11	1.438"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11867_KITGM	\$590.00	\$770.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11867_KITSM		
S150-DRV1500-5-11	1.500"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11868_KITGM	\$590.00	\$770.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11868_KITSM		
S150-DRV1625-5-14	1.625"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12017_KITGM	\$630.00	\$820.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12017_KITSM		
S150-DRV1750-5-14	1.750"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12027_KITGM	\$630.00	\$820.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12027_KITSM		
S200-DRV1875-5-14	1.875"	2.000"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12037_KITGM	\$650.00	\$850.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12037_KITSM		
S200-DRV2000-5-17	2.000"	2.000"	SCMT170610-GM-I	PR1535	SCMT170608-GM-E	CA520D	THD12047_KITGM	\$680.00	\$880.00
			SCMT170610-SM-I	PR1535	SCMT170608-SM-E	PR1225	THD12047_KITSM		

■ Estimated Cutting Tolerance (5D)

Applicable Insert Information Page 35

DC	Estimated Cutting Tolerance (in)	DC	Estimated Cutting Tolerance (in)
Ø0.500" - Ø1.500"	+0.014 0	Ø1.625" - Ø2.000"	+0.016 0

These values are estimates.  
These values may change due to  
machine, workpiece, clamping power,  
and cutting conditions

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MILLING KITS

TURNING KITS

DRILLING KITS



6D



### DRV Magic Drill - 6D Kits

Includes (1) Drill and (10) Inside Inserts and (10) Outside Inserts

Choose Your Drill Size and 1 of 2 Insert Combinations

MILLING KITS

TURNING KITS

DRILLING KITS

Pick 1 Drill Body Part Number	Cutting Dia.	Shank Dia.	Pick 1 of 2 Combinations for Inside and Outside Inserts GM KIT for General Purpose / SM KIT for Stainless Steel				Kit Part Number (Use when Ordering)	\$USD Kit Price	\$CAD Kit Price
			Inside Edge Insert	Insert Grade	Outside Edge Insert	Insert Grade			
S075-DRV0500-6-03	0.500"	0.750"	LCMT030205-GM-I	PR1535	LCMT030203-GM-E	CA520D	THD11907_KITGM	\$470.00	\$610.00
			LCMT030205-SM-I	PR1535	LCMT030203-SM-E	PR1225	THD11907_KITSM		
S075-DRV0562-6-04	0.562"	0.750"	SCMT040209-GM-I	PR1535	SCMT040205-GM-E	CA520D	THD11820_KITGM	\$490.00	\$640.00
			SCMT040209-SM-I	PR1535	SCMT040205-SM-E	PR1225	THD11820_KITSM		
S075-DRV0625-6-05	0.625"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11710_KITGM	\$490.00	\$640.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11710_KITSM		
S075-DRV0656-6-05	0.656"	0.750"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11715_KITGM	\$490.00	\$640.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11715_KITSM		
S100-DRV0688-6-05	0.688"	1.000"	SCMT050210-GM-I	PR1535	SCMT050205-GM-E	CA520D	THD11720_KITGM	\$490.00	\$640.00
			SCMT050210-SM-I	PR1535	SCMT050205-SM-E	PR1225	THD11720_KITSM		
S100-DRV0750-6-06	0.750"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11725_KITGM	\$490.00	\$640.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11725_KITSM		
S100-DRV0812-6-06	0.812"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11735_KITGM	\$490.00	\$640.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11735_KITSM		
S100-DRV0875-6-06	0.875"	1.000"	SCMT060210-GM-I	PR1535	SCMT060205-GM-E	CA520D	THD11740_KITGM	\$490.00	\$640.00
			SCMT060210-SM-I	PR1535	SCMT060205-SM-E	PR1225	THD11740_KITSM		
S100-DRV0938-6-07	0.938"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11750_KITGM	\$520.00	\$680.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11750_KITSM		
S100-DRV0984-6-07	0.984"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11755_KITGM	\$520.00	\$680.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11755_KITSM		
S100-DRV1000-6-07	1.000"	1.000"	SCMT070310-GM-I	PR1535	SCMT070305-GM-E	CA520D	THD11760_KITGM	\$520.00	\$680.00
			SCMT070310-SM-I	PR1535	SCMT070305-SM-E	PR1225	THD11760_KITSM		
S125-DRV1062-6-09	1.062"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11838_KITGM	\$600.00	\$780.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11838_KITSM		
S125-DRV1125-6-09	1.125"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11839_KITGM	\$600.00	\$780.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11839_KITSM		
S125-DRV1188-6-09	1.188"	1.250"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11840_KITGM	\$600.00	\$780.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11840_KITSM		
S150-DRV1250-6-09	1.250"	1.500"	SCMT090410-GM-I	PR1535	SCMT090405-GM-E	CA520D	THD11841_KITGM	\$600.00	\$780.00
			SCMT090410-SM-I	PR1535	SCMT090405-SM-E	PR1225	THD11841_KITSM		
S150-DRV1312-6-11	1.312"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11869_KITGM	\$670.00	\$870.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11869_KITSM		
S150-DRV1375-6-11	1.375"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11870_KITGM	\$670.00	\$870.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11870_KITSM		
S150-DRV1438-6-11	1.438"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11871_KITGM	\$670.00	\$870.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11871_KITSM		
S150-DRV1500-6-11	1.500"	1.500"	SCMT110410-GM-I	PR1535	SCMT110406-GM-E	CA520D	THD11872_KITGM	\$670.00	\$870.00
			SCMT110410-SM-I	PR1535	SCMT110406-SM-E	PR1225	THD11872_KITSM		
S150-DRV1625-6-14	1.625"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12018_KITGM	\$730.00	\$950.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12018_KITSM		
S150-DRV1750-6-14	1.750"	1.500"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12028_KITGM	\$730.00	\$950.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12028_KITSM		
S200-DRV1875-6-14	1.875"	2.000"	SCMT140510-GM-I	PR1535	SCMT140508-GM-E	CA520D	THD12038_KITGM	\$760.00	\$990.00
			SCMT140510-SM-I	PR1535	SCMT140508-SM-E	PR1225	THD12038_KITSM		
S200-DRV2000-6-17	2.000"	2.000"	SCMT170610-GM-I	PR1535	SCMT170608-GM-E	CA520D	THD12048_KITGM	\$790.00	\$1,030.00
			SCMT170610-SM-I	PR1535	SCMT170608-SM-E	PR1225	THD12048_KITSM		

Estimated Cutting Tolerance (6D)

Applicable Insert Information Page 35

DC	Estimated Cutting Tolerance (in)	DC	Estimated Cutting Tolerance (in)
Ø0.500" - Ø1.500"	+0.018 0	Ø1.625" - Ø2.000"	+0.020 0

These values are estimates. These values may change due to machine, workpiece, clamping power, and cutting conditions

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## DRV Inserts

Choose (10) Inserts for the Outside Edge and (10) Inserts for the Inside Edge

Usage Classification		P	Carbon Steel / Alloy Steel	☆	★	★				
★ : 1st Recommendation (High Speed and Highly Efficient Machining)		M	Tool Steel	☆	★	★				
☆ : 2nd Recommendation (Stable Machining Oriented)		K	Stainless Steel	☆	★	★				
			Cast Iron	☆		★				
Insert	Insert Pocket	Part Number	Dimensions (in)				Angle	MEGACOAT	CVD Coated Carbide	MEGACOAT NANO
			IC W1/INSL	S	D1	RE	AN	PR1225	CA520D	PR1535
<p>General Purpose</p>	Outer Edge	LCMT 030203-GM-E	0.173/0.218	0.079	0.091	0.012	7°		●	
		SCMT 040205-GM-E	0.189	0.087	0.094	0.020			●	
		050205-GM-E	0.207	0.102	0.094	0.020			●	
		060205-GM-E	0.252	0.110	0.114	0.020			●	
		070305-GM-E	0.301	0.126	0.138	0.020			●	
		090405-GM-E	0.358	0.161	0.157	0.020			●	
		110406-GM-E	0.433	0.177	0.181	0.024			●	
		140508-GM-E	0.543	0.197	0.224	0.031			●	
		170608-GM-E	0.661	0.259	0.272	0.031			●	
		<p>Stainless Steel</p>	Outer Edge	LCMT 030203-SM-E	0.173/0.218	0.079		0.091	0.012	7°
SCMT 040205-SM-E	0.189			0.087	0.094	0.020		●		
050205-SM-E	0.207			0.102	0.094	0.020		●		
060205-SM-E	0.252			0.110	0.114	0.020		●		
070305-SM-E	0.301			0.126	0.138	0.020		●		
090405-SM-E	0.358			0.161	0.157	0.020		●		
110406-SM-E	0.433			0.177	0.181	0.024		●		
140508-SM-E	0.543			0.197	0.224	0.031		●		
170608-SM-E	0.661			0.259	0.272	0.031		●		
<p>General Purpose</p>	Inner Edge			LCMT 030205-GM-I	0.164/0.221	0.079	0.091	0.020	7°	
		SCMT 040209-GM-I	0.197	0.087	0.094	0.035				●
		050210-GM-I	0.224	0.102	0.094	0.039				●
		060210-GM-I	0.272	0.110	0.114	0.039				●
		070310-GM-I	0.323	0.126	0.138	0.039				●
		090410-GM-I	0.386	0.161	0.157	0.039				●
		110410-GM-I	0.469	0.177	0.181	0.039				●
		140510-GM-I	0.587	0.197	0.224	0.039				●
		170610-GM-I	0.705	0.259	0.272	0.039				●
		<p>Stainless Steel</p>	Inner Edge	LCMT 030205-SM-I	0.164/0.221	0.079	0.091	0.020		7°
SCMT 040209-SM-I	0.197			0.087	0.094	0.035			●	
050210-SM-I	0.224			0.102	0.094	0.039			●	
060210-SM-I	0.272			0.110	0.114	0.039			●	
070310-SM-I	0.323			0.126	0.138	0.039			●	
090410-SM-I	0.386			0.161	0.157	0.039			●	
110410-SM-I	0.469			0.177	0.181	0.039			●	
140510-SM-I	0.587			0.197	0.224	0.039			●	
170610-SM-I	0.705			0.259	0.272	0.039			●	

-E : Outer Edge Insert -I : Inner Edge Insert  
 \*LCMT03... is a 2-edge insert

● : Standard Item

### Insert Grade Selection Guide

Select CVD for the outer edge when performing high speed and high efficiency drilling and for abrasion resistance and long tool life.  
 Select PVD MEGACOAT for the outer edge for stable machining and a better surface finish.  
 PVD MEGACOAT is recommended for the outer edge if chattering occurs, machining with lathe, or if cutting conditions cannot be increased to the recommended speed for CVD.

#### 1st Recommendation

(High Speed and High Efficiency Machining)

Outer Edge : CVD(CA520D)

Inner Edge : PVD (PR1535)

#### Stable Machining Oriented

(1st Recommendation for Lathe Machining)

Outer Edge : PVD (PR1225)

Inner Edge : PVD (PR1535)





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