

KORLOY *Strong*
PROMO 2019

HRMD_{DOUBLE} GET 1 FREE CUTTER

• Buy 10 Inserts per Pocket, Get 1 Free Cutter



● Promotional Cutters

GET 1 FREE CUTTER			ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	lbs	Bolt
HRMDCA		09200HR-5	5	2.000	1.772	0.750	0.413	0.630	0.315	0.220	0.787	1.75	0.06	0.662 3/8-24UNF
		09300HR-7	7	3.000	2.205	1.000	0.551	0.827	0.374	0.248	0.866	2.00	0.06	3.308 1/2-20UNF
		13300HR-6	6	3.000	2.205	1.000	0.551	0.827	0.374	0.248	0.866	2.00	0.08	2.205 1/2-20UNF
		13200HR-4	4	2.000	1.772	0.750	0.413	0.630	0.315	0.220	0.787	1.75	0.08	0.662 3/8-24UNF

GET 1 FREE CUTTER			ØD	Ød	ℓ	L	ap	lbs
HRMDSA		09100HR-2S100	2	1.0000	1.00	2.362	5.512	0.06 1.103
		09100HR-2M100	2	1.0000	1.00	4.724	7.874	0.06 1.323

- * (End-user) Drop-shipment ONLY
- * Limited to six (6) free cutters per end user
- * Limited to US or Korea stock standard holder and inserts

High Feed Milling Cutter with Double Sided 6 Corner Insert

- **Great Value for the Money** - The multi-corner insert is simply cost-effective
- **Excellent Productivity** - The high rake angle chip breaker and corner are designed to maximize high feed milling
- **High Rigidity** - Strong negative inserts



 **KORLOY AMERICA**

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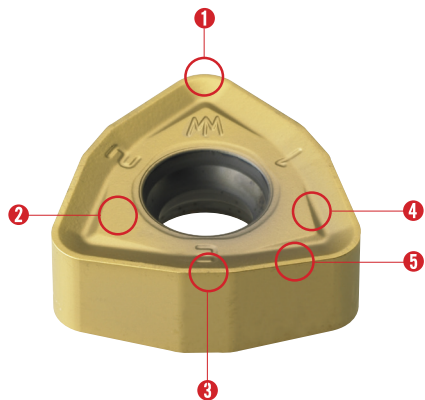
Promotion Validity :
From August 1st ~ October 31th

HRMD is more economical due to the use of 6 cutting-edges compared to HRM tool with a 3-edge positive insert

HRMDouble

- HRMD is more economical due to the use of 6 cutting-edges compared to HRM tool with a 3-edge positive insert
- High-rake angle cutting-edge and chip breaker reduces cutting load
- Negative geometry has been designed for rigidity of cutting-edge and double-sided function
- Screw on system and stable support achieves strong clamping force
- Unique insert design for high feed and multifunctional machining
- HRMD insert with symmetrical cutting-edge is applicable for both R and L type machining

● Features of Insert



1 Nose-R

- Security of rigid edge in ramping pocket machining
- Round edge suitable for high feed rates insert geometry
- Possible to use R/L type machining

2 Clamping surface

- Design for stable clamping
- Prevention of friction by chip

3 Minor cutting-edge

- Improvement of surface roughness in high feed machining
- Special design for decreasing thrust force
- Symmetrical insert design for R/L type tool

4 Chip breaker

- Reduction of cutting load due to High-rake angle
- Improvement of chip flow and evacuation in various applications
- Prevention of damage on clamping face of insert

5 Major cutting-edge

- Symmetrical design insert for R/L type tool
- Superior cutting performance due to high rake angle cutting-edge
- Low cutting resistance in high feed
- Special design for decreasing thrust force

● Features of Cutter



Inner coolant system

- Improvement of chip control and evacuation
- Longer tool life due to reduced cutting temperature

3-surface constrained system

- Strong clamping system
- Stable clamping system against different cutting resistances in various machining applications

Simple screw on system

- Strong clamping of screw on system
- Convenient clamping system
- Wide chip pocket for better chip evacuation

KORLOY *Strong* PROMO 2019

RM3

GET 1 FREE CUTTER

- Buy 10 Inserts per Pocket, Get 1 Free Cutter
- 1.00", 2.00", 3.00" and 4.00" ONLY

● Features of Cutter

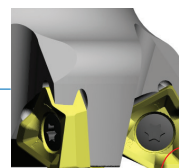
Through coolant system

- Longer tool life due to direct cooling injection into the cutting-edge of insert

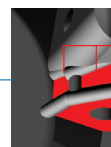
Wide chip pocket

Excellent chip evacuation

Simple Screw-on system



Perfect perpendicularity
90°



3-face clamping seat
Full flat bottom seat

Strong clamping

* (End-user) Drop-shipment ONLY

* Limited to six (6) free cutters per end user

* Limited to US or Korea Stock Standard Holders and Inserts

Multi Functional Shoulder Milling Tool for Higher Productivity

- High Quality - True 90° shouldering operation
- High Productivity - Strong thick insert and 3-face clamping ensure stable operation even tough condition
- High Economics - Long tool life due to optimized manufacturing process



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Promotion Validity :
From July 1st ~ September 30th

KORLOY *Strong* PROMO 2019























PRO-X^{MILL} GET 1 FREE CUTTER

• Buy 10 Inserts per Pocket, Get 1 Free Cutter

● Promotional Cutters

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• A type: Insert NoseR 0.016~0.126, B type: Insert NoseR 0.157~0.197

<div></div>		<div></div> <div>• AR: 5°~10° • RR: -14° ~ -5°</div>		(inch)					
GET 1 FREE CUTTER			ØD	Ød	ℓ	L	Max rpm	ap	lbs
PAXSA	5100HR-A	2	1.00	1.00	2.36	5.51	32,600	0.67	0.950

• A type: Insert NoseR 0.016~0.126, B type: Insert NoseR 0.157~0.197

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Milling Tool for High Quality Aluminum Machining

- **Clamping System for High Speed** - Strong clamping due to the concave design of insert bottom
- **Chip Breaker 3-dimensional Design for Low Cutting Load** - The buffed surface of insert creates excellent chip flow and reduces built-up edges



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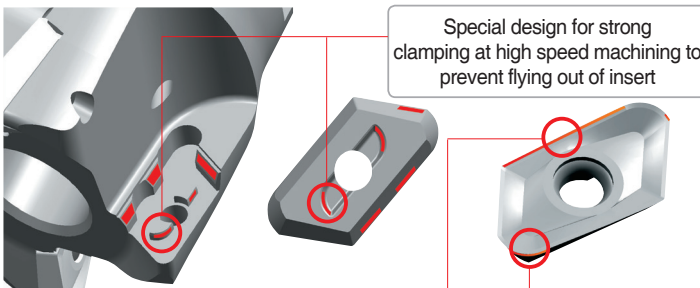
Strong clamping due to the concave design of insert bottom

Pro-X Mill

- Strong clamping due to the concave design of insert bottom
- Good chip flow and less build up edge achieved with the buffed surface of insert
- High rake angle of insert provides good surface finish and low cutting load
- Specially designed for high speed machining of aluminum
- Suitable for square shouldering and curved surface machining

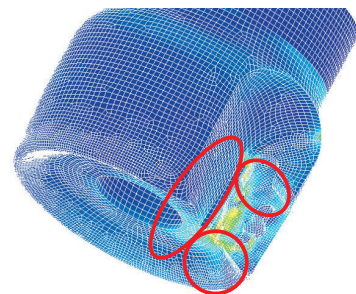


●Clamping System for High Speed



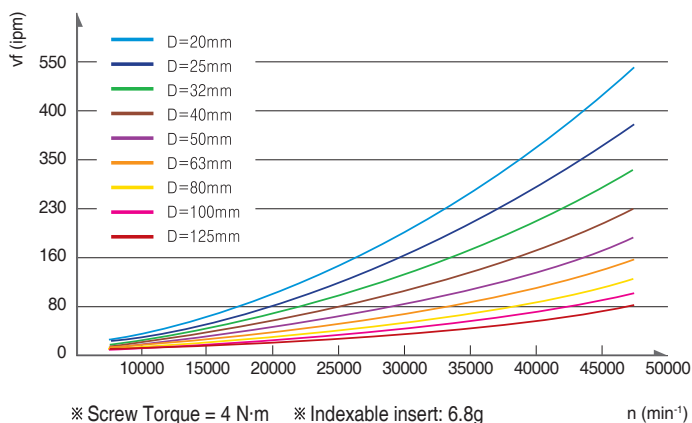
Chip Breaker 3 dimensional design for low cutting load

Various inserts corner radius is available (R0.016~R0.197)



- Clamping design as per FEM analysis
- Strong clamping of insert

●Centrifugal Force as per RPM



Marking [• Designation • Max. RPM]



●Uses

Copying	Slotting & Shouldering	Ramping	Helical Cutting

3D, 5D and 8D Drills

for combined Precision and Productivity

FREE DRILL BODY

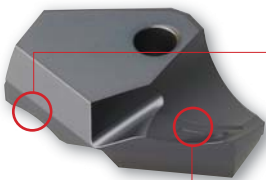
- With the Purchase of 3tips (3D & 5D only)
- With the Purchase of 5tips (8D only)

OR

BUY2 GET1 FREE

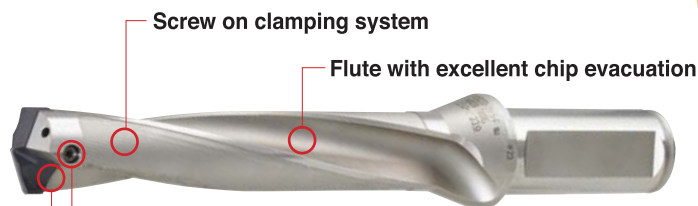
- Buy 2 Drill Bodies, Get the Third Body Free

Features



Cutting edge with low cutting resistance

Improved chip control due to chip breaker



Screw on clamping system

Flute with excellent chip evacuation

Superior rigidity and wear resistance of holder

Auto-centering system

Recommended Cutting Condition

(inch)

Designation			Grades	vc (sfm)	fn(aspect ratio=3D~5D)			
ISO	Workpiece	HB			Feed(ipr) per drill diameter(inch)			
					0.3937~0.6260	0.6300~0.9803	0.9843~1.1772	
P	Carbon steel	Low carbon steel	80~120	PC5300 PC5335	365(265~464)	0.0059~0.0118	0.0079~0.0138	0.0098~0.0157
		High carbon steel	180~280	PC5300 PC5335	332(232~431)	0.0059~0.0118	0.0079~0.0138	0.0098~0.0157
	Alloy steel	Low alloy steel	140~260	PC5300	365(265~464)	0.0071~0.0138	0.0091~0.0150	0.0110~0.0169
		Low pre-hardened steel	200~400	PC5300	249(166~332)	0.0071~0.0138	0.0091~0.015	0.0110~0.0169
		High alloy steel	50~260	PC5300	232(166~298)	0.0071~0.0118	0.0079~0.0138	0.0098~0.0157
		High pre-hardened steel	220~450	PC5300	199(133~265)	0.0071~0.0118	0.0079~0.0138	0.0098~0.0157
M	Stainless steel	Austenite series	135~275 Ni>8%	PC5300	166(99~232)	0.0051~0.0098	0.0059~0.0118	0.0067~0.0130
		Ferrite series Martensite series	135~275	PC5300	182(133~232)	0.0051~0.0098	0.0059~0.0118	0.0067~0.0130
K	Cast iron	Gray cast iron	150~230	PC5300	365(265~464)	0.0071~0.0138	0.0079~0.0157	0.0098~0.0177
		Ductile cast iron	160~260	PC5300	332(232~431)	0.0071~0.0138	0.0079~0.0157	0.0098~0.0177
S	Heat Resisting Steel	Ni pre-hardened steel	130~400	PC5300	133(66~199)	0.0039~0.0079	0.0047~0.0087	0.0051~0.0098
		Ti pre-hardened steel	130~400	PC5300	133(66~199)	0.0039~0.0079	0.0047~0.0087	0.0051~0.0098
		High hardened steel	400 above	PC5300	116(66~166)	0.0039~0.0079	0.0047~0.0087	0.0051~0.0098

- In case of 8D, reduce the cutting conditions to 40-50% of the above conditions or machine the beginning of hole first (1.5D)
- In case of interrupted machining, reduce the feed to 30-50% of the above conditions and start machining around the interrupted part

* (End-user) Drop-shipment ONLY

* Limited to US or Korea Stock Drills and Inserts

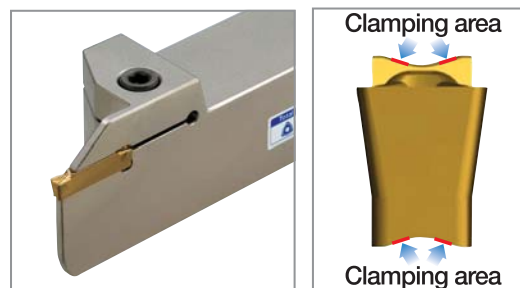
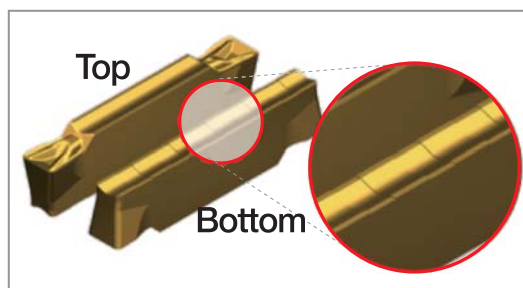
* Limited to 6 Free Drill Bodies

New and Improved KGT





















10 FREE INSERTS

- With Purchase of any KGT Holder
- Buy 3 KGT Holders Get an Additional 10 Inserts Free (Total of 40 Free Inserts)

Features



Recommended Insert

Designation	Geometry	Picture	Application									
			For external machining			For face grooving		For Internal machining		Copying	For relieving	Special machining
			Parting	Grooving	Turning	Grooving	Turning	Grooving	Turning	Copying	Relieving	Special
												
KGMN	L Light Grooving		○	◎		○						
	R Rough Grooving		○	◎		○						
	T Turning-Multi Grooving		○	◎	◎	◎	◎					
KGMI	T Internal Grooving							◎	◎			
KRMN	C Copying									◎	◎	
KGMR/L	LP Light Parting		◎									
	RP Rough Parting		◎									
KGGN	B Blank			○								◎
	A Aluminum Grooving		○	◎	○							
KRGN	A Aluminum Profiling									◎	◎	

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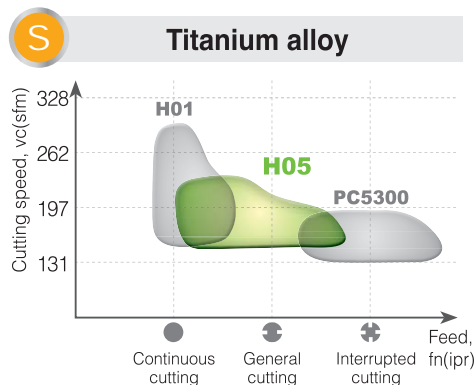
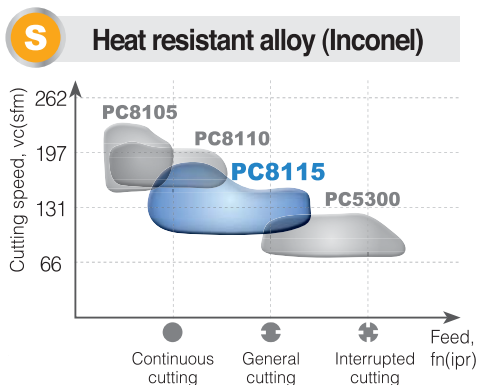


PC8100, NC9100, NC3200 SERIES

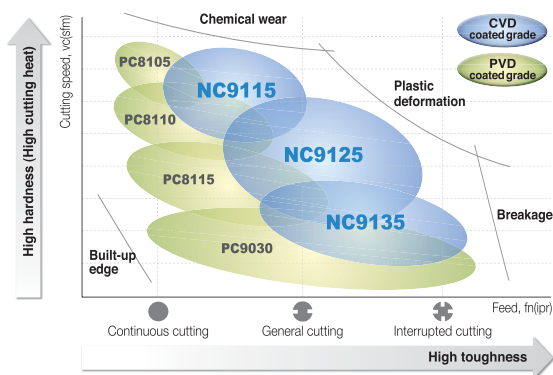
BUY 20 GET 10 FREE

- PC8100 Series for Heat Resistant Alloys
- NC9100 Series for Stainless Steels
- NC3200 Series for Forged and Bearing Steels

PC8100 Series Grade Line-up



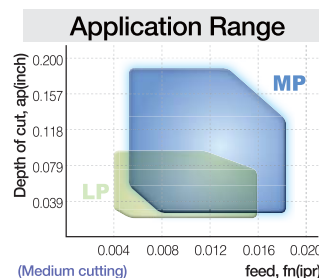
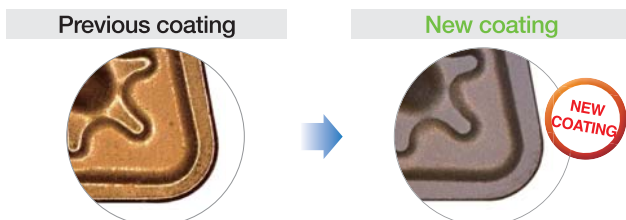
NC9100 Series Grade Choice & Chip Removal Cutting Speed



Grade	ISO	Cutting speed (sfm)	Chip removal volume (in ³)
NC9135	M35	492	12.9
PVD coated grade	M30		15.6
Competitor	M35		7.7
NC9135	M35	656	7.7
PVD coated grade	M30		3.4
Competitor	M35		4.0

Higher productivity than PVD grades at high speeds over 150m/min

NC3215 / NC3225 Technology



- * (End-user) Drop-shipment ONLY
- * Limited to 100 free inserts per end user on 4 and 5 series insert
- * 6 Series limited to 50 free inserts per end user
- * Offer limited to US or Korea Stock inserts only 4/5/6 series only
- * Must purchase 20 of single grade and receive 10 free of same grade