KORLOY
TECH-NEWS

RM 3

Multi Functional Shoulder Milling Tool for Higher Productivity

- **High Quality**
  True perpendicular shouldering operation
- **Excellent Productivity**
  Strong thick insert and 3-face clamping for stable milling even in the toughest conditions
- **Great Value for Money**
  Reduced tool cost thanks to optimized manufacturing process and excellent tool life

KORLOY

Multi Functional Shouldering Tool RM3

Insert

Cutter

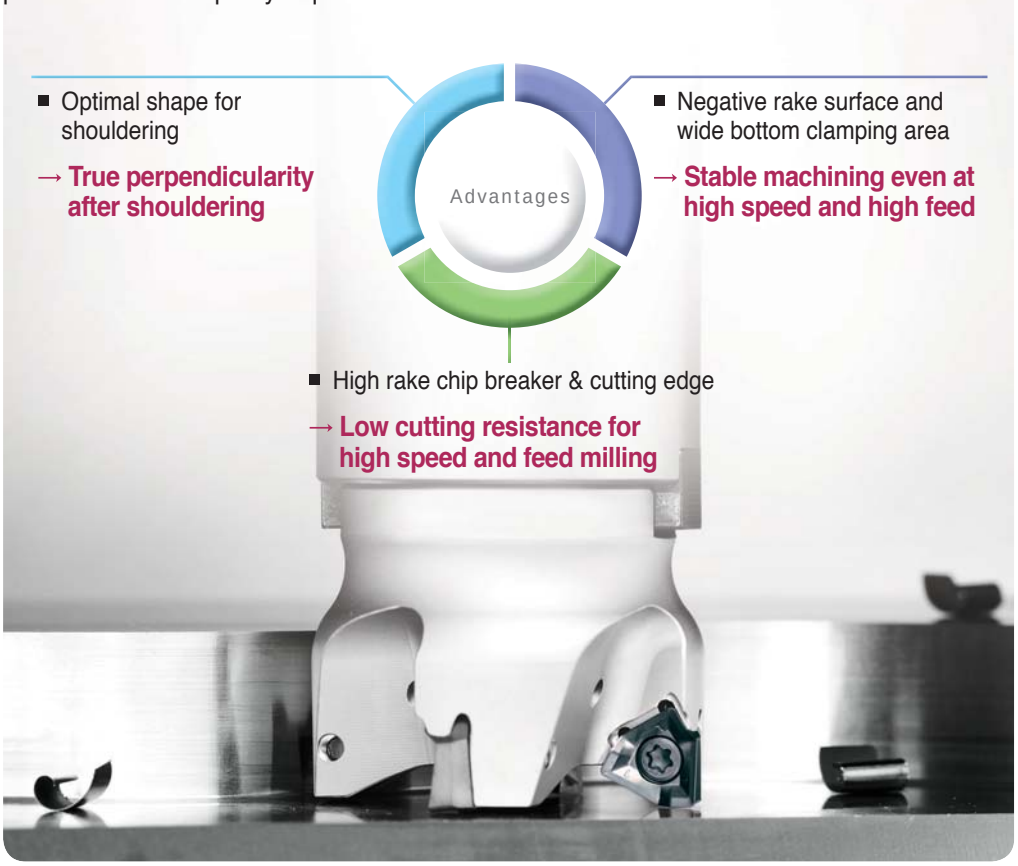
Shank

In this industry, requirements such as reducing manufacturing cost and improving quality are constantly in demand. This means cutting tools for mold making would have to achieve both factors. Tools must achieve high productivity and quality in a variety of applications, notably in the mold making industry, in various applications: shouldering, facing, slotting, plunging, etc. If cutting tools should have to be replaced with every application, both productivity and cost efficiency would get worse. This led KORLOY to develop the RM3. A tool specifically engineered for true perpendicular shouldering, with multi-functional capabilities.

To use a single tool for various applications requires not only sharp cutting action but high rigidity and stable clamping. Poor cutting performance leads to excessive noise and burrs, and deteriorates both the perpendicularity and the surface finish. Low rigidity and unstable clamping cause vibration during operations leading to insert chipping or breakage, which shortens the tool life.

The RM3 solves all these problems and delivers higher machining stability and excellent results in quality. This 3 corner insert shouldering tool exhibits a proprietary insert design with high rake angle chip breakers & cutting edges for sharp cutting action and low cutting resistance. It additionally features a holder rigidity 2 times stronger than the existing tools, which allows a stable machining even in the toughest cutting conditions. There were lots of actual test reports that the RM3 significantly improved our customers' cycle time thanks to its high rigidity and clamping system in operations such as shouldering, ramping, facing, slotting and plunging. Even in high feed milling applications, the RM3 showed no sign of tool failure.

The RM3 also takes advantage of the true perpendicularity that largely improves surface finish. A variety of grades are prepared for machining applications in steel, cast iron, hard-to-cut materials and more. RM3 markets itself as a versatile leading milling tool that meets demanding performance and capacity requirements.



RM3

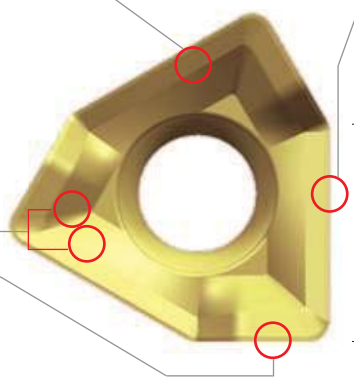
- **High Quality**
  - True 90° shouldering operation
- **Excellent Productivity**
  - Strong thick insert and 3-face clamping ensures stable machining even in tough cutting conditions
- **Great Value for Money**
  - Longer tool life due to optimized cutter and insert geometry

Insert Features

Chip breaker
- High rake angle
- Smooth chip flow

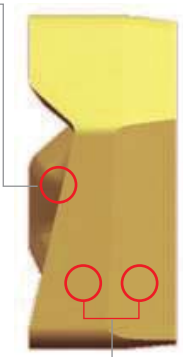
Step design
- Good chip evacuation
- Low cutting force

Minor cutting edge
- Wiper action for better surface finish



Major cutting edge
- High rake
- Sharpened edge

Max. ap
- XNKT12 : 0.472inch
- XNKT08 : 0.315inch
- XNKT06 : 0.217inch



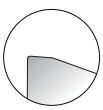
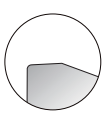
2 Step clearance
- Strong clamping
- Rigidity improvement

Chip Breaker Features

- Chip breaker **MA**

- Chip breaker **ML**

- Chip breaker **MM**

Chip breaker	Cutting edge	Applications	Features
MA		Aluminum	■ MA : Milling Aluminum ■ Sharp cutting edge and buffed top face for an excellent chip flow and welding resistance in aluminum machining
ML		Light	■ ML : Milling Light ■ Sharp cutting edge for hard-to-cut materials ■ Low cutting force
MM		General	■ MM : General shouldering operations ■ 1st recommendation

Cutter Features

Through coolant system

• Through coolant system providing a longer tool life due to direct cooling injection onto the cutting edge of the insert.

Excellent chip evacuation

• Wide chip pocket
• Simple Screw-on system

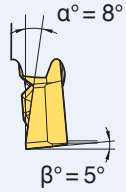
True perpendicularity

Strong clamping

• 3-face clamping seat
• Full flat bottom seat

Cutting Performance

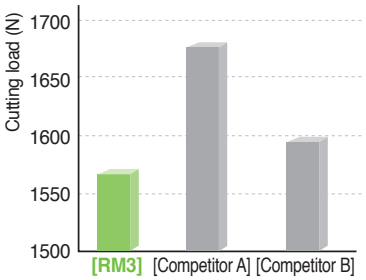
[Cutting edge]



• True positive clearance due to high rake angle
→ **Excellent machineability**

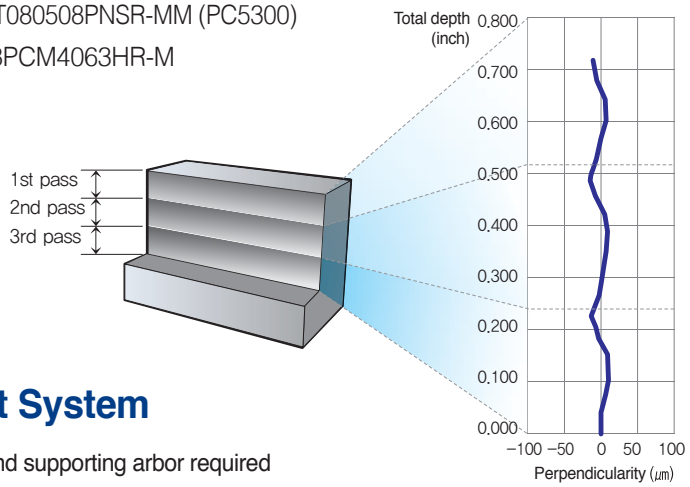
Cutting Load

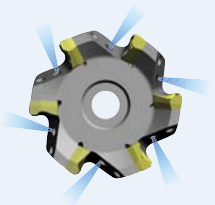
■ Workpiece A332-4140 (200HB)
■ Cutting conditions vc(sfm) = 820, fz(ipt) = 0.004, ap(inch) = 0.118, dry
■ Tools Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M



Perpendicularity

■ Workpiece A332-4140 (200HB)
■ Cutting conditions vc(sfm) = 820, fz(ipt) = 0.004, ap(inch) = 0.276×3 pass, ae(inch) = 0.394, dry
■ Tools Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M





Through Coolant System

■ Exclusive through coolant bolt and supporting arbor required
■ Effective coolant distribution directly onto the cutting edges

Grades Application Guidelines

Workpiece		P		M	K	N
		Carbon steel	Alloy steel	Stainless steel	Cast iron	Nonferrous
Chip breaker	First choice	MM	MM	ML	ML	MA
	Second choice	ML	ML	-	MM	-
Grade	High speed machining	PC3600	PC3600	PC5300	PC6510	H01
	General machining	PC5400	PC5300	PC5400	PC5300	H01
	Interrupted machining	PC5400	PC5400	PC5400	PC5400	H01

Recommended Cutting Conditions

RM3 3000 Type

Workpiece		Grade	Cutting conditions				Cutting conditions			
			vc (sfm)	fz (ipt)	max ap(inch)	Available inserts	vc (sfm)	fz (ipt)	max ap(inch)	Available inserts
P	Steel	PC3600	524~885	0.010~0.002	0.217	XNKT0604□□ PN□R-MM	524~885	0.008~0.002	0.217	XNKT0604□□ PN□R-ML
		PC5300	492~787	0.010~0.002	0.217		492~787	0.010~0.002	0.217	
		PC5400	426~688	0.010~0.002	0.217		426~688	0.010~0.002	0.217	
M	Stainless steel	PC5300	295~492	0.008~0.002	0.217		295~492	0.006~0.002	0.217	
		PC5400	229~393	0.008~0.002	0.217		229~393	0.006~0.002	0.217	
K	Cast iron	PC6510	459~754	0.012~0.003	0.217		459~754	0.010~0.003	0.217	
		PC5300	393~656	0.012~0.003	0.217		393~656	0.010~0.003	0.217	

* Maximum cutting conditions : vc(sfm)=1148, fz(ipt)=0.020 according to the cutting environment

RM3 4000 Type

Workpiece		Grade	Cutting conditions				Cutting conditions			
			vc (sfm)	fz (ipt)	max ap(inch)	Available inserts	vc (sfm)	fz (ipt)	max ap(inch)	Available inserts
P	steel	PC3600	524~885	0.012~0.002	0.315	XNKT0805□□ PN□R-MM	524~885	0.010~0.002	0.315	XNKT0805□□ PN□R-ML
		PC5300	492~787	0.012~0.002	0.315		492~787	0.010~0.002	0.315	
		PC5400	426~688	0.012~0.002	0.315		426~688	0.010~0.002	0.315	
M	Stainless steel	PC5300	295~492	0.010~0.002	0.315		295~492	0.008~0.002	0.315	
		PC5400	229~393	0.010~0.002	0.315		229~393	0.008~0.002	0.315	
K	Cast iron	PC6510	459~754	0.014~0.003	0.315		459~754	0.012~0.003	0.315	
		PC5300	393~656	0.014~0.003	0.315		393~656	0.012~0.003	0.315	
N	Aluminum	H01	1312~3937	0.016~0.004	0.315	XNCT0805□□ PN□R-MA	-	-	-	-

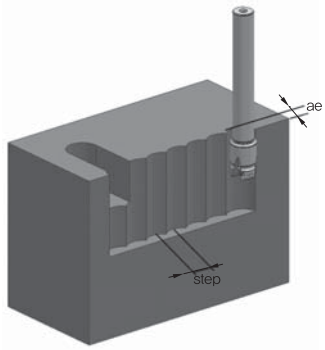
* Maximum cutting conditions : vc(sfm)=1148, fz(ipt)=0.028 according to the cutting environment

RM3 5000 Type

Workpiece		Grade	Cutting conditions				Cutting conditions			
			vc (sfm)	fz (ipt)	max ap(inch)	Available inserts	vc (sfm)	fz (ipt)	max ap(inch)	Available inserts
P	steel	PC3600	524~885	0.012~0.002	0.472	XNKT1206□□ PN□R-MM	524~885	0.010~0.002	0.472	XNKT1206□□ PN□R-ML
		PC5300	492~787	0.012~0.002	0.472		492~787	0.010~0.002	0.472	
		PC5400	426~688	0.012~0.002	0.472		426~688	0.010~0.002	0.472	
M	Stainless steel	PC5300	295~492	0.010~0.002	0.472		295~492	0.008~0.002	0.472	
		PC5400	229~393	0.010~0.002	0.472		229~393	0.008~0.002	0.472	
K	Cast iron	PC6510	459~754	0.014~0.003	0.472		459~754	0.012~0.003	0.472	
		PC5300	393~656	0.014~0.003	0.472		393~656	0.012~0.003	0.472	
N	Aluminum	H01	1312~3937	0.016~0.004	0.472	XNCT1206□□ PN□R-MA	-	-	-	-

* Maximum cutting conditions : vc(sfm)=1148, fz(ipt)=0.028 according to the cutting environment

Max Step in plunging

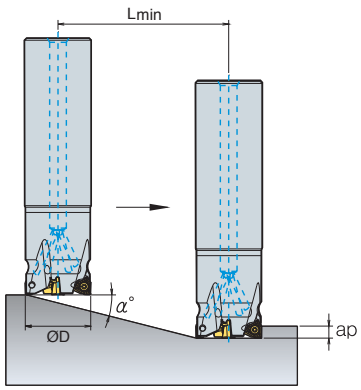


Type	Max ae (inch)
3000 type	0.098
4000 type	0.118
5000 type	0.138

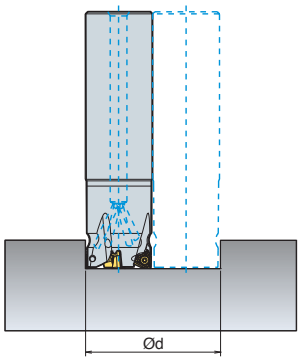
ae	Cutter diameter(Ø)								
	Ø0.75	Ø1	Ø1.25	Ø1.5	Ø2	Ø2.5	Ø3	Ø4	Ø5
	Max step (inch)								
0.039	0.335	0.389	0.437	0.480	0.556	0.622	0.683	0.790	0.884
0.079	0.460	0.539	0.607	0.669	0.778	0.873	0.959	1.111	1.245
0.118	0.546	0.645	0.731	0.808	0.943	1.061	1.167	1.354	1.519
0.138	-	-	-	-	-	-	1.258	1.459	1.637

Ramping and Helical cutting

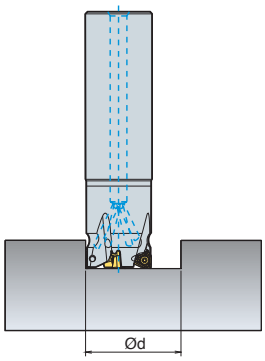
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



Type	Tool Dia. ØD(inch)	1. Ramping		2. Helical cutting for blind hole				3.Helical cutting for through hole	
		α°	Lmin(inch)	Minimum Hole Diameter Ød(inch)	Maximum Pitch(inch)	Maximum Hole Diameter Ød(inch)	Maximum Pitch(inch)	Minimum Hole Diameter Ød(inch)	Maximum Pitch(inch)
3000 type	0.75	17.5	0.708	1.400	0.217	1.440	0.217	1.212	0.220
	1.00	9.5	1.294	1.900	0.217	1.940	0.217	1.712	0.220
	1.25	6.5	1.901	2.400	0.217	2.440	0.217	2.212	0.220
	1.50	5.0	2.475	2.900	0.217	2.940	0.217	2.712	0.220
	2.00	3.5	3.540	3.900	0.217	3.940	0.217	3.712	0.220
	2.50	2.5	4.959	4.900	0.217	4.940	0.217	4.712	0.207
	3.00	2.0	6.201	5.900	0.217	5.940	0.217	5.712	0.201
4000 type	1.00	23.0	0.742	1.800	0.315	1.920	0.315	1.529	0.310
	1.25	13.0	1.312	2.300	0.315	2.300	0.315	2.029	0.310
	1.50	9.0	1.989	2.800	0.315	2.920	0.315	2.529	0.310
	2.00	5.5	3.271	3.800	0.315	3.920	0.315	3.529	0.310
	2.50	4.0	4.504	4.800	0.315	4.920	0.315	4.529	0.310
	3.00	3.0	6.010	5.800	0.315	5.920	0.315	5.529	0.310
	4.00	2.0	9.019	7.800	0.315	7.920	0.315	7.529	0.297
	5.00	1.5	12.028	9.800	0.303	9.920	0.307	9.529	0.288
5000 type	3.00	5.5	4.906	5.744	0.472	5.906	0.472	5.439	0.470
	4.00	3.5	7.724	7.744	0.472	7.913	0.472	7.439	0.470
	5.00	3.0	9.015	9.752	0.472	9.921	0.472	9.439	0.470

* Please be sure to use cutting oil or air for ramping and helical machining
Lmin = ap/tan(α°)

Cutting Performance

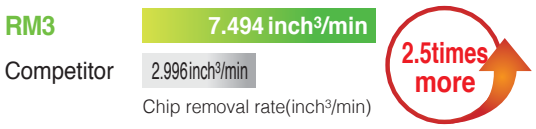
• Surface finish
(shouldering, side face)

[RM3]

[Competitor]

Carbon steel (A108-1045, HB200)

- Cutting conditions — Competitor's vc(sfm) = 885, fz(ipt) = 0.008, ap(inch) = 0.236×4 pass, ae(inch) = 0.197
  RM3 vc(sfm) = 885, fz(ipt) = 0.039, ap(inch) = 0.118×8 pass, ae(inch) = 0.197
- Application area — Shouldering
- Tools — Insert XNKT080508PNSR-MM (PC5300) Cutter RM3PCM4063HR-M



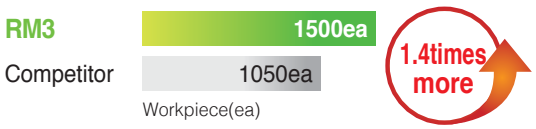
• Surface roughness

[RM3]

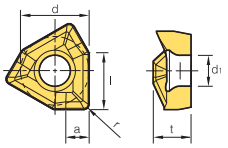
[Competitor]

Alloy steel (A332-4140, HB200)

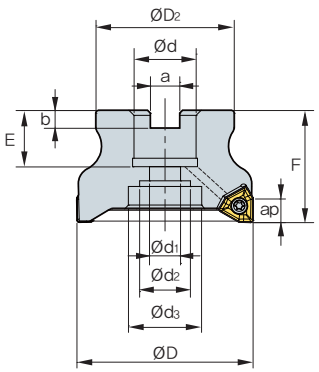
- Cutting conditions — Competitor's vc(sfm) = 820, fz(ipt) = 0.005, ap(inch) = Finishing 0.02 / Roughing 0.276
  RM3 vc(sfm) = 820, fz(ipt) = 0.005, ap(inch) = Finishing 0.02 / Roughing 0.276
- Application area — Facing
- Tools — Insert XNKT080508PNSR-MM (PC5300) Cutter RM3PCM4063HR-M

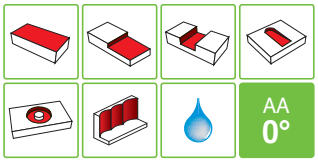


Available Inserts

Insert Shape	Designation		Cutter	Coated								Uncoated	Dimensions (inch)						Configuration
				NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01	l	d	t	r	d1	a	
	XNCT	080504PNFR-MA	4000 type	-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.016	0.177	0.114	
		080508PNFR-MA		-	-	-	-	-	-	-	-	●	0.323	0.394	0.217	0.031	0.177	0.114	
		080512PNFR-MA		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.047	0.177	0.114	
		080520PNFR-MA		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.079	0.177	0.114	
		120608PNFR-MA	5000 type	-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.031	0.217	0.138	
	XNKT	060405PNER-ML	3000 type	-	-	●	●	-	●	●	●	-	0.224	0.256	0.157	0.020	0.134	0.071	
		060408PNER-ML		-	-	-	-	-	-	-	-	-	0.224	0.256	0.157	0.031	0.134	0.071	
		080504PNER-ML	4000 type	-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.016	0.177	0.114	
		080508PNER-ML		-	-	●	●	-	●	●	●	-	0.323	0.394	0.217	0.031	0.177	0.114	
		080512PNER-ML		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.047	0.177	0.114	
		080516PNER-ML		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.063	0.177	0.114	
		080520PNER-ML		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.079	0.177	0.114	
		120608PNER-ML	5000 type	-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.031	0.217	0.138	
		120612PNER-ML		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.047	0.217	0.138	
		120616PNER-ML		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.063	0.217	0.138	
		120620PNER-ML		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.079	0.217	0.138	
	XNKT	060405PNSR-MM	3000 type	-	●	●	●	-	●	●	●	-	0.224	0.256	0.157	0.020	0.134	0.071	
		060408PNSR-MM		-	-	-	-	-	-	-	-	-	0.224	0.256	0.157	0.031	0.134	0.071	
		080504PNSR-MM	4000 type	-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.016	0.177	0.114	
		080508PNSR-MM		-	●	●	●	-	●	●	●	-	0.323	0.394	0.217	0.031	0.177	0.114	
		080512PNSR-MM		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.047	0.177	0.114	
		080516PNSR-MM		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.063	0.177	0.114	
		080520PNSR-MM		-	-	-	-	-	-	-	-	-	0.323	0.394	0.217	0.079	0.177	0.114	
		120608PNSR-MM	5000 type	-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.031	0.217	0.138	
		120612PNSR-MM		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.047	0.217	0.138	
		120616PNSR-MM		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.063	0.217	0.138	
		120620PNSR-MM		-	-	-	-	-	-	-	-	-	0.472	0.512	0.256	0.079	0.217	0.138	

RM3PCA3000





- AR : -5°
- RR : -9°~ -6°

(inch)

Designation		⦾	ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	lbs
RM3PCA	3150HR	5	1.50	1.417	0.50	0.287	0.430	-	0.252	0.170	0.630	1.50	0.216	0.441
	3150HR-M	6	1.50	1.417	0.50	0.287	0.430	-	0.252	0.170	0.630	1.50	0.216	0.441
	3200HR	6	2.00	1.772	0.75	0.413	0.630	-	0.216	0.220	0.787	1.75	0.216	0.661
	3200HR-M	7	2.00	1.772	0.75	0.413	0.630	-	0.216	0.220	0.787	1.75	0.216	0.661
	3250HR	7	2.50	2.205	1.00	0.551	0.827	-	0.374	0.248	0.787	1.75	0.216	1.080
	3250HR-M	8	2.50	2.205	1.00	0.551	0.827	-	0.374	0.248	0.787	1.75	0.216	1.080
	3300HR	8	3.00	2.205	1.00	0.551	0.866	-	0.374	0.248	0.787	2.00	0.216	1.918
	3300HR-M	10	3.00	2.205	1.00	0.551	0.866	-	0.374	0.248	0.787	2.00	0.216	1.940

Available Inserts

XNKT-ML

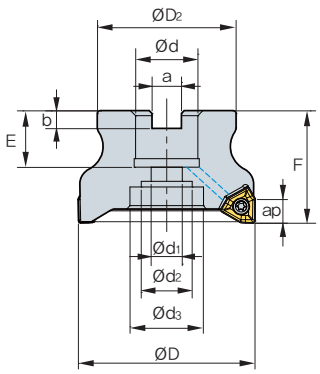
XNKT-MM

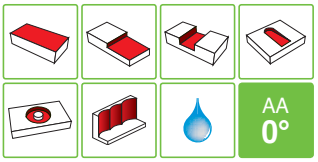
Designation		Coated								Uncoated
		NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01
XNKT	060405PNER-ML			●	●		●	●	●	
	060405PNSR-MM		●	●	●		●	●	●	
	060408PNER-ML									
	060408PNSR-MM									

Parts

Specification	Screw	Wrench
Ø1.50 ~ Ø3.00	FTNA0306	TW09S

RM3PCA4000





• AR : -5°
• RR : -8°~ -6°

(inch)

Designation			ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	lbs
RM3PCA	4150HR	3	1.50	1.417	0.50	0.287	0.430	-	0.252	0.170	0.630	1.50	0.315	0.450
	4150HR-M	4	1.50	1.417	0.50	0.287	0.430	-	0.252	0.170	0.630	1.50	0.315	0.450
	4200HR	4	2.00	1.772	0.75	0.413	0.630	-	0.315	0.220	0.787	1.75	0.315	0.720
	4200HR-M	5	2.00	1.772	0.75	0.413	0.630	-	0.315	0.220	0.787	1.75	0.315	0.720
	4250HR	5	2.50	2.205	1.00	0.551	0.827	-	0.374	0.248	0.787	1.75	0.315	1.150
	4250HR-M	6	2.50	2.205	1.00	0.551	0.827	-	0.374	0.248	0.787	1.75	0.315	1.150
	4300HR	5	3.00	2.205	1.00	0.551	0.866	-	0.374	0.248	0.787	2.00	0.315	1.810
	4300HR-M	7	3.00	2.205	1.00	0.551	0.866	-	0.374	0.248	0.787	2.00	0.315	1.810
	4400HR	7	4.00	2.874	1.25	0.689	1.024	1.614	0.500	0.319	0.787	2.00	0.315	3.510
	4400HR-M	8	4.00	2.874	1.25	0.689	1.024	1.614	0.500	0.319	0.787	2.00	0.315	3.510
	4400HR-1.5	7	4.00	3.386	1.50	-	1.500	1.969	0.625	0.394	1.102	2.00	0.315	3.439
	4400HR-M-1.5	8	4.00	3.386	1.50	-	1.500	1.969	0.625	0.394	1.102	2.00	0.315	3.439
	4500HR	8	5.00	3.937	1.50	0.827	1.220	1.969	0.626	0.394	1.063	2.50	0.315	7.240
	4500HR-M	10	5.00	3.937	1.50	0.827	1.220	1.969	0.626	0.394	1.063	2.50	0.315	7.300

Available Inserts


XNCT-MA


XNKT-ML

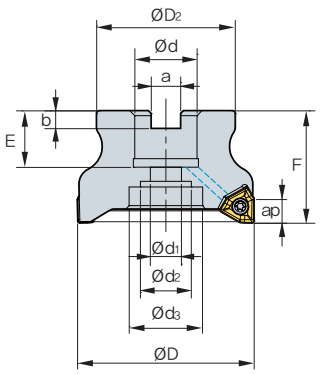

XNKT-MM

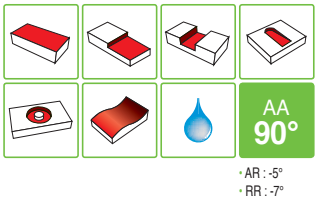
Designation		Coated								Uncoated
		NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01
XNCT	080504PNFR-MA									
	080508PNFR-MA									●
	080512PNFR-MA									
	080520PNFR-MA									
XNKT	080508PNER-ML			●	●		●	●	●	
	080508PNSR-MM		●	●	●		●	●	●	
	080512PNER-ML									
	080512PNSR-MM									
	080516PNER-ML									
	080516PNSR-MM									
	080520PNER-ML									
	080520PNSR-MM									

Parts

Specification	Screw	Wrench
		
Ø1.50 ~ Ø5.00	FTNA0408	TW15S

RM3PCA 5000





(inch)

Designation			ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	lbs
RM3PCA	5300HR	5	3.00	2.205	1.00	0.551	0.866	1.300	0.374	0.248	0.787	2.0	0.5	1.73
	5300HR-M	7	3.00	2.205	1.00	0.551	0.866	1.300	0.374	0.248	0.787	2.0	0.5	1.76
	5400HR	7	4.00	2.874	1.25	0.689	1.024	1.614	0.500	0.319	0.787	2.0	0.5	3.30
	5400HR-M	8	4.00	2.874	1.25	0.689	1.024	1.614	0.500	0.319	0.787	2.0	0.5	3.33
	5400HR-1.5	7	4.00	3.385	1.50	-	1.500	1.969	0.626	0.394	1.102	2.0	0.5	3.32
	5400HR-M-1.5	8	4.00	3.385	1.50	-	1.500	1.969	0.626	0.394	1.102	2.0	0.5	3.32
	5500HR	8	5.00	3.937	1.50	0.827	1.220	1.969	0.626	0.394	1.063	2.5	0.5	7.01
	5500HR-M	10	5.00	3.937	1.50	0.827	1.220	1.969	0.626	0.394	1.063	2.5	0.5	7.01

Available Inserts


XNCT-MA


XNKT-ML

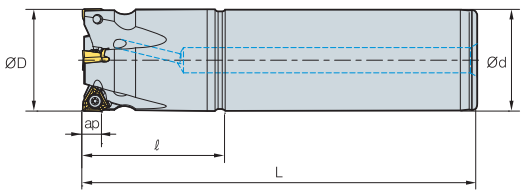

XNKT-MM

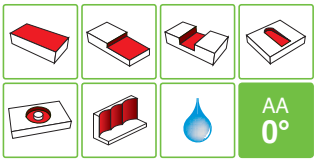
Designation		Coated								Uncoated
		NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01
XNCT	120608PNFR-MA									
XNKT	120608PNER-ML									
	120608PNSR-MM									
	120612PNER-ML									
	120612PNSR-MM									
	120616PNER-ML									
	120616PNSR-MM									
	120620PNER-ML									
	120620PNSR-MM									

Parts

Specification	Screw	Wrench
Ø3.00 ~ Ø5.00	FTNA0511	TW20-100

RM3PSA3000





- AR : -5°
- RR : -16°~-9°

(inch)

Designation		◎	ØD	Ød	ℓ	L	ap	lbs
RM3PSA	3075HR-2L075	2	0.75	0.75	1.378	7.874	0.217	0.86
	3100HR-2L100	2	1.00	1.00	1.575	7.874	0.217	1.51
	3100HR-3L100	3	1.00	1.00	1.575	7.874	0.217	1.50
	3125HR-4L125	4	1.25	1.25	1.654	7.874	0.217	2.47
	3150HR-4L150	4	1.50	1.50	1.654	7.874	0.217	3.57
	3150HR-5L150	5	1.50	1.50	1.654	7.874	0.217	3.57

Available Inserts

XNKT-MM

XNKT-ML

Designation		Coated								Uncoated
		NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01
XNKT	060405PNER-ML			●	●		●	●	●	
	060405PNSR-MM		●	●	●		●	●	●	
	060408PNER-ML									
	060408PNSR-MM									

Parts

Specification	Screw	Wrench
Ø0.75 ~ Ø1.50	FTNA0306	TW09S

RM3PSA4000

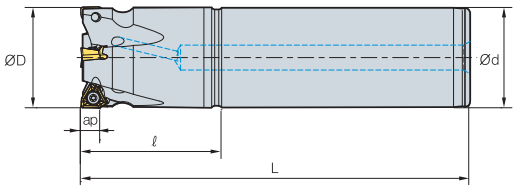


Fig. 1

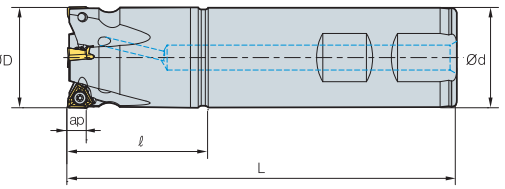


Fig. 2

AA 0°

- AR : -5°
- RR : -11°~ -7°

(inch)

Designation			ØD	Ød	ℓ	L	ap	lbs	Fig.
RM3PSA	4100HR-2L100	2	1.00	1.00	1.575	7.874	0.315	1.322	1
	4100HR-2S100	2	1.00	1.00	1.575	4.528	0.315	0.816	2
	4100HR-3L100	3	1.00	1.00	1.575	7.874	0.315	1.322	1
	4100HR-3S100	3	1.00	1.00	1.575	4.528	0.315	0.837	2
	4125HR-4L125	4	1.25	1.25	1.654	7.874	0.315	2.491	1
	4125HR-4S125	4	1.25	1.25	1.654	4.922	0.315	1.499	2
	4150HR-4L125	4	1.50	1.25	1.654	7.874	0.315	2.689	1
	4150HR-4S125	4	1.50	1.25	1.654	5.315	0.315	1.786	2
	4200HR-4L125	4	2.00	1.25	1.654	7.874	0.315	3.042	1
	4200HR-4S125	4	2.00	1.25	1.654	5.315	0.315	2.182	2
	4200HR-5L125	5	2.00	1.25	1.654	7.874	0.315	3.086	1
	4200HR-5S125	5	2.00	1.25	1.654	4.331	0.315	2.205	2

Available Inserts


XNCT-MA


XNKT-ML


XNKT-MM

Designation		Coated								Uncoated
		NC5330	PC2505	PC2510	PC3600	PC9530	PC6510	PC5300	PC5400	H01
XNCT	080504PNFR-MA									
	080508PNFR-MA									●
	080512PNFR-MA									
	080520PNFR-MA									
XNKT	080508PNER-ML			●	●		●	●	●	
	080508PNSR-MM		●	●	●		●	●	●	
	080512PNER-ML									
	080512PNSR-MM									
	080516PNER-ML									
	080516PNSR-MM									
	080520PNER-ML									
	080520PNSR-MM									

Parts

Specification	Screw	Wrench
Ø1.00 ~ Ø2.00	FTNA0408	TW15

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