

E Technical Information for Rich Mill

Rich Mill series is one of innovations that provides more available cutting-edges by double-sided insert and longer tool life for our customers

Rich Mill Series

- Rich Mill series is one of the innovations that provides more available cutting-edges with double-sided inserts and longer tool life for our customers
- The unique geometry and special cutting-edge guarantees low cutting loads and long tool life
- Rich Mill series has a wide application range from steel and stainless steel to cast iron and aluminum
- Applying negative inserts makes it even stronger and provides longer tool life
- Rich Mill series has both screw-on clamping system and latch clamping system

Code system

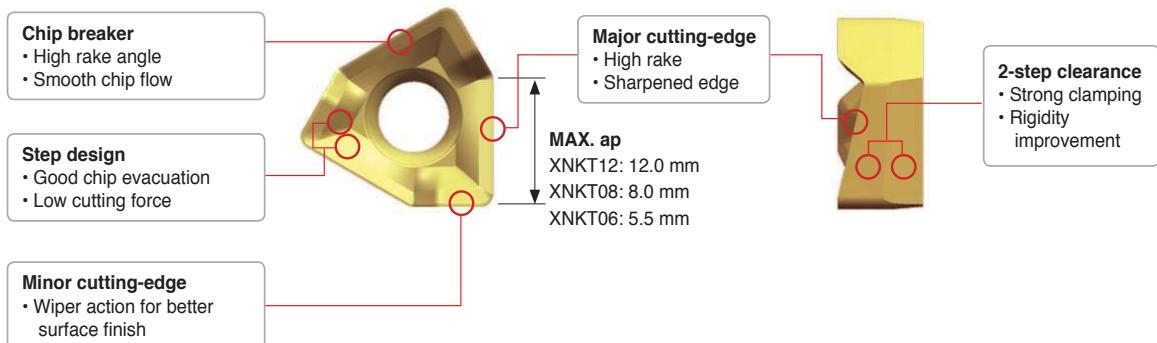
RM16	A	C	M	4	100	H	R - M	
Number of edges	Approach angle	Tool type	Arbors type	Inscribed circle of insert	Tool Dia.	Coolant type	Hand	Pitch type
RM3: Number of edges-3	A: 45°	C: Cutter	M: Metric	3: 9.525	Ø100	H: Thru-Hole	R: Right	M: Close
RM4: Number of edges-4	D: 30°	S: Shank	A: Inch	4: 12.7		No code: None	L: Left	H: Extra Close
RM6: Number of edges-6	E: 15°			5: 15.875				
RM8: Number of edges-8	F: 5°							
RMH8: Number of edges-8 (Shim)	P: 0°							
RMT8: Number of edges-8 (Latch Clamp)	Q: 2°							
RM16: Number of edges-16	Z: Plunging							

Rich Mill RM3

Features

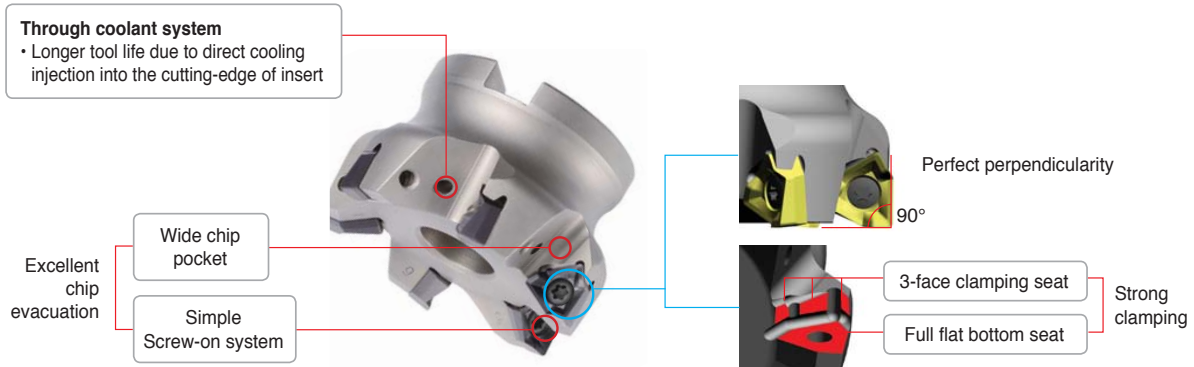
- High Quality - True 90° shouldering operation
- High Productivity - Strong thick insert and 3-face clamping ensure stable operation even tough condition.
- High Economics - Long tool life due to optimized manufacturing process

Features of insert



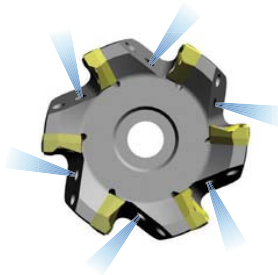
Rich Mill RM3

Features of cutter



Through coolant system

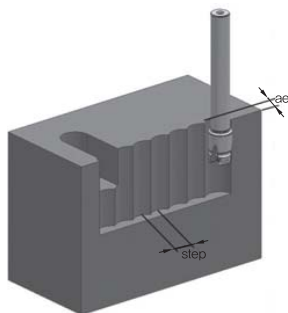
- Exclusive through coolant bolt required
- Effective coolant distribution directly to cutting-edge
- Coolant supporting arbor required



Features of chip breakers

Insert	Cutting-edge	Features
Aluminum MA		• Superior cutting quality for aluminum due to sharp cutting-edge and buffed surface
Light ML		• Superior cutting quality for light and light cutting, difficult-to-cut material machining through the low cutting load of chip breaker
General MM		• Suitable for various cutting due to special shape design for general cutting

Max Step in plunging



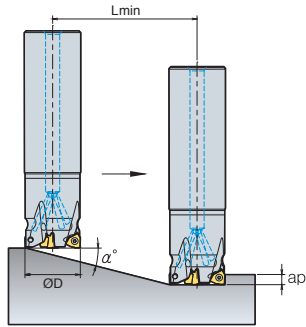
Type	max. ae
3000 type	2.5
4000 type	3.0
5000 type	3.5

ae	Cutter Diameter (mm)											
	20	21	25	26	32	33	40	50	63	80	100	125
	max step (mm)											
1	8.5	8.9	9.7	10	11.1	11.3	12.4	14	15.7	17.7	19.9	22.2
2	12	12.3	13.5	13.8	15.4	15.7	17.4	19.5	22	24.9	28	31.3
3	-	-	-	-	-	-	21	23.7	26.8	30.3	34.1	38.2

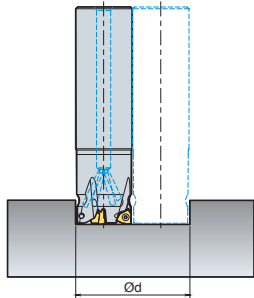
Rich Mill RM3

Ramping and helical cutting

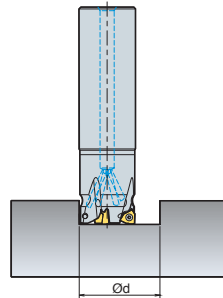
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



(mm)

Type	Tool Dia. ØD	1. Ramping		2. Helical cutting for blind hole				3. Helical cutting for through hole	
		α °	Lmin	Minimum Hole Diameter Ød	Maximum Pitch	Maximum Hole Diameter Ød	Maximum Pitch	Minimum Hole Diameter Ød	Maximum Pitch
3000 type	20	15.5	19.8	36.5	5.5	38.5	5.5	33.0	5.5
	21	14.0	22.1	38.5	5.5	40.5	5.5	35.0	5.5
	25	10.0	31.2	46.5	5.5	48.5	5.5	43.0	5.5
	26	9.5	32.9	48.34	5.5	51.0	5.5	45.0	5.5
	32	6.5	48.3	60.5	5.5	62.5	5.5	59.0	5.5
	33	6.0	52.3	62.5	5.5	64.5	5.5	59.0	5.5
	40	4.5	69.9	46.5	5.5	78.5	5.5	73.0	5.5
	50	3.5	89.9	96.5	5.5	98.5	5.5	93.0	5.5
	63	2.5	126.0	122.5	5.5	124.5	5.5	119.0	5.5
	80	2.0	157.5	156.5	5.5	158.5	5.5	153.0	5.5
	100	1.5	210.0	194.5	5.5	198.5	5.5	193.0	5.5
125	1.0	315.1	246.5	5.5	248.5	5.5	243.0	5.5	
4000 type	25	24.0	18.0	44.5	8.0	48.0	8.0	38.5	8.0
	32	13.0	34.7	58.5	8.0	62.0	8.0	52.5	8.0
	33	12.0	37.6	60.02	8.0	64.4	8.0	54.5	8.0
	40	8.5	53.5	74.5	8.0	78.0	8.0	68.5	8.0
	50	6.0	76.1	94.5	8.0	98.0	8.0	88.5	8.0
	63	4.0	114.4	125	8.0	124.0	8.0	114.5	8.0
	80	3.0	152.6	154.5	8.0	158.0	8.0	148.5	8.0
	100	2.0	229.1	194.5	8.0	198.0	8.0	188.5	8.0
125	1.5	305.5	244.5	7.7	248.0	7.8	238.5	7.7	
5000 type	80	5.5	124.6	153.5	12.0	158.0	12.0	146.5	12.0
	100	4.5	152.5	193.5	12.0	198.0	12.0	159.5	12.0
	125	3.5	196.2	242.5	12.0	248.0	12.0	236.5	12.0

* Please be sure to use cutting oil or air for ramping and helical machining
 $Lmin = ap / \tan(\alpha^\circ)$

3000 type: Available ap = 5.5 mm

4000 type: Available ap = 8.0 mm

5000 type: Available ap = 12.0 mm



Rich Mill RM3
Application guideline for grade

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

Recommended cutting condition
• RM3 3000 type

Workpiece	Grades	Cutting conditions				Cutting conditions			
		vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts	vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts
P steel	PC3600	160~270	0.25~0.05	5.5	XNKT0604□□ PN□R-MM	160~270	0.2~0.05	5.5	XNKT0604□□ PN□R-ML
	PC5300	150~240	0.25~0.05			150~240	0.25~0.05		
	PC5400	130~210	0.25~0.05			130~210	0.25~0.05		
M Stainless steel	PC5300	90~150	0.2~0.05			90~150	0.1~0.05		
	PC5400	70~120	0.2~0.05			70~120	0.1~0.05		
K Cast iron	PC6510	140~230	0.3~0.08			140~230	0.25~0.08		
	PC5300	120~200	0.3~0.08			120~200	0.25~0.08		

* Maximum cutting condition: vc = 350 m/min, fz = 0.5 mm/t according to cutting environment

• RM3 4000 type

Workpiece	Grades	Cutting conditions				Cutting conditions							
		vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts	vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts				
P steel	PC3600	160~270	0.3~0.05	8.0	XNKT0805□□ PN□R-MM	160~270	0.25~0.05	8.0	XNKT0805□□ PN□R-ML				
	PC5300	150~240	0.3~0.05			150~240	0.25~0.05						
	PC5400	130~210	0.3~0.05			130~210	0.25~0.05						
M Stainless steel	PC5300	90~150	0.25~0.05			90~150	0.2~0.05						
	PC5400	70~120	0.25~0.05			70~120	0.2~0.05						
K Cast iron	PC6510	140~230	0.35~0.08			140~230	0.3~0.08						
	PC5300	120~200	0.35~0.08			120~200	0.3~0.08						
N Aluminum	H01	400~1200	0.4~0.1				XNCT0805□□PNFR-MA						

* Maximum cutting condition: vc = 350 m/min, fz = 0.7 mm/t according to cutting environment

• RM3 5000 type

Workpiece	Grades	Cutting conditions				Cutting conditions							
		vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts	vc (m/min)	fz (mm/t)	max ap (mm)	Available inserts				
P steel	PC3600	160~270	0.3~0.05	12.0	XNKT1206□□ PN□R-MM	160~270	0.25~0.05	12.0	XNKT1206□□ PN□R-ML				
	PC5300	150~240	0.3~0.05			150~240	0.25~0.05						
	PC5400	130~210	0.3~0.05			130~210	0.25~0.05						
M Stainless steel	PC5300	90~150	0.25~0.05			90~150	0.2~0.05						
	PC5400	70~120	0.25~0.05			70~120	0.2~0.05						
K Cast iron	PC6510	140~230	0.35~0.08			140~230	0.3~0.08						
	PC5300	120~200	0.35~0.08			120~200	0.3~0.08						
N Aluminum	H01	400~1200	0.4~0.1				XNCT1206□□PN□R-MA						

* Maximum cutting condition: vc = 350 m/min, fz = 0.7 mm/t according to cutting environment

Rich Mill RM4

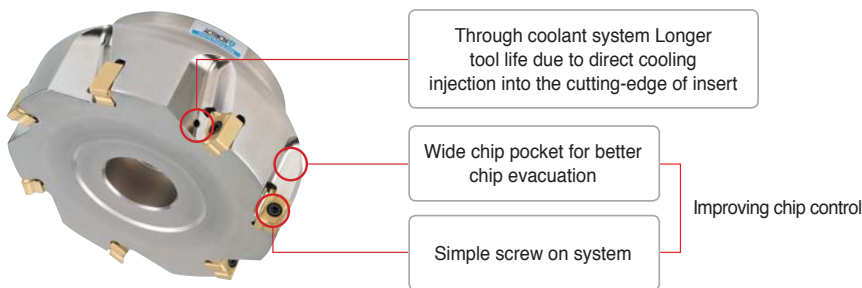
Features

- Economical 4 cutting-edges by using double-sided insert
- RM4, as a multi-functional milling tool, offers economical 4 cutting-edges by using an innovative double-sided insert
- Special designed chip breaker consists of high rake angle and strong cutting-edge to decrease the cutting load
- RM4 is multi-functional tool that can cover facing, side cutting, shouldering, slotting, ramping & helical cutting
- Optimal matching of the special cutting-edge geometry with variety of new grades provides consistence & long tool life of insert



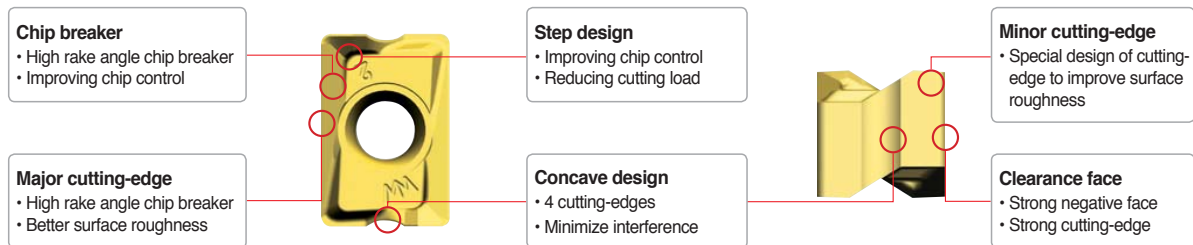
Features of cutter

- 4 cutting-edges can be used by using double-sided insert
- High rake angle chip breaker and cutting-edge can make smooth cutting with low cutting load
- Strong negative insert
- High efficiency, economical, multi-functional tool

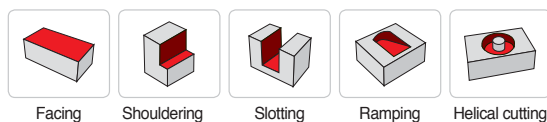


Features of insert

- Double-sided insert using 4 cutting-edges
- High rake angle chip breaker, cutting-edge
- Flexibility of product
- High efficiency, economical, multi-functional tool
- Negative insert has strong cutting-edge






Uses


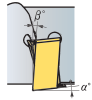



Rich Mill RM4

Features of chip breakers

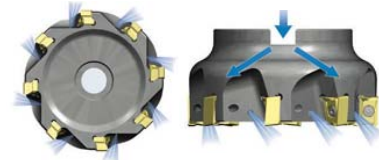
Insert	Cutting-edge	Features
Aluminum, Light machining MA		• With sharp edge application the better productivity has been accomplished, especially for Aluminum or low force cut
Light cutting MF		• Due to low cutting load, it is good for light cutting and difficult-to-cut material
General cutting MM		• It is suitable design for general milling

Setting configuration

Shape	Setting angle of insert	Features
		High rake chip breaker & positive setting angle for low cutting load → Improving machinability
		Multi applications for facing, shouldering, slotting, ramping, helical cutting, etc

Through coolant system

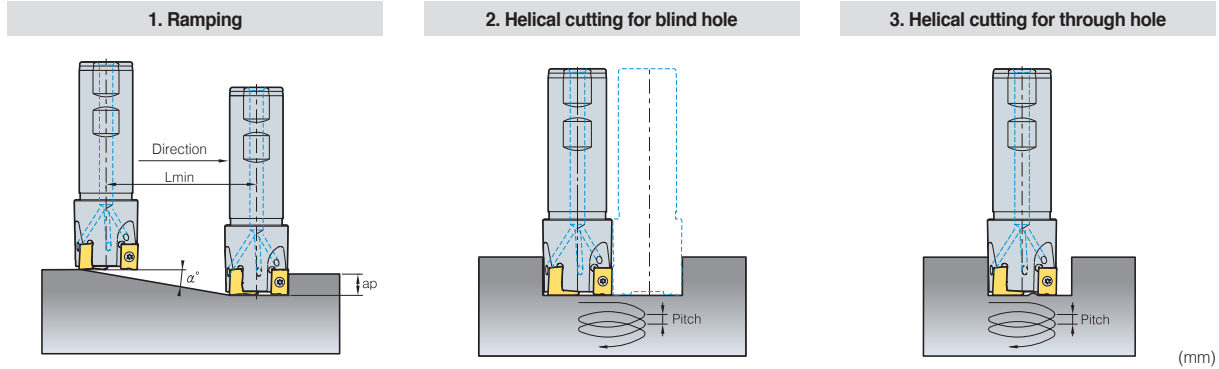
- By using on exclusive coolant bolt (hexagonal socket bolt) powerful cooling & better chip evacuation can be acquired
- To get optimal chip control, the direction of coolant injection has been designed to reach to each cutting-edge directly (through coolant arbor is required)



Through coolant system for decreasing cutting heat and good chip evacuation

Rich Mill RM4

➤ Ramping and helical cutting



Designation	1. Ramping			2. Helical cutting for blind hole				3. Helical cutting for through hole	
	D	α°	Lmin	Maximum Hole Diameter	Maximum Pitch	Minimum Hole Diameter	Maximum Pitch	Minimum Hole Diameter	Maximum Pitch
RM4PS3014HR	14	4.5	125	27	3.1	25	2.7	19	1.3
RM4PS3016HR	16	3.5	160	31	2.7	29	2.5	23	1.4
RM4PS3018HR	18	3.0	185	35	2.7	33	2.4	27	1.5
RM4PS3020HR	20	2.7	204	39	2.7	37	2.5	31	1.6
RM4PS3025HR	25	1.8	301	49	2.3	47	2.1	41	1.6
RM4PS3032HR	32	1.2	451	63	2.0	61	1.9	55	1.5
RM4PS3040HR	40	0.9	616	79	1.8	77	1.8	71	1.5
RM4PS3050HR	50	0.6	843	99	1.5	97	1.5	91	1.3
RM4PC(M)3040HR	40	0.9	616	79	1.8	77	1.8	71	1.5
RM4PC(M)3050HR	50	0.6	843	99	1.5	97	1.5	91	1.3
RM4PC(M)3063HR	63	0.5	1123	125	1.6	123	1.6	117	1.4
RM4PC(M)3080HR	80	0.3	1508	159	1.2	157	1.2	151	1.1
RM4PC(M)3100HR	100	0.2	1910	199	1.0	197	1.0	191	0.9
RM4PS4032HR	32	2.5	229	62	4	59.5	3.0	49	2.0
RM4PS4040HR	40	2.0	286	78	4	75.5	3.0	65	2.0
RM4PS4050HR	50	2.0	286	98	5	95.5	4.0	85	3.5
RM4PS4063HR	63	2.0	286	124	5	121.5	5.0	111	5.0
RM4PC(M)4050HR	50	2.0	286	98	5	95.5	4.0	85	3.5
RM4PC(M)4063HR	63	2.0	286	124	5	121.5	5.0	111	5.0
RM4PC(M)4080HR	80	1.5	382	158	5	155.5	5.0	145	5.0
RM4PC(M)4100HR	100	1.0	573	198	5	195.5	4.5	185	4.0
RM4PC(M)4125HR	125	1.0	573	248	5	245.5	5.0	235	5.0
RM4PC(M)4160R	160	0.5	1146	318	4	315.5	3.5	305	3.5

* Please be sure to use cutting oil or air for ramping and helical machining
 $L_{min} = ap / \tan(\alpha^\circ)$

3000 type: Available ap = 5.5 mm
 4000 type: Available ap = 8.0 mm

➤ Recommended cutting condition

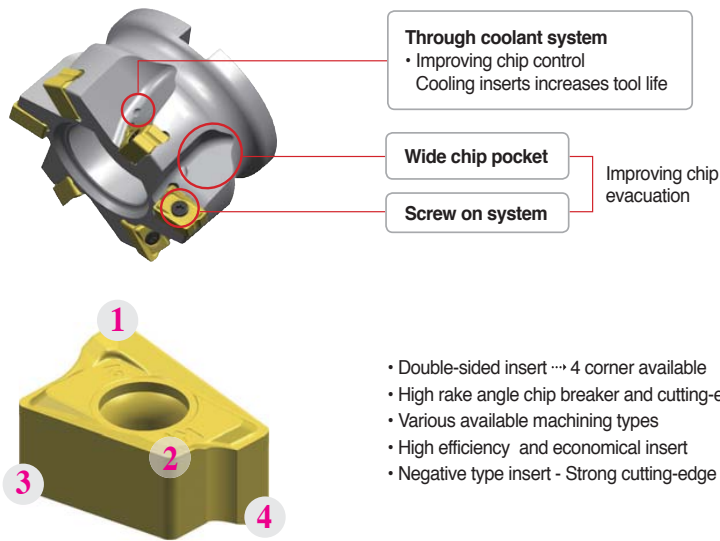
ISO	Grades	LNM(E)X100605PNR-MF		LNM(E)X100605PNR-MM		LNEX100605PNR-MA		Max-ap	LNM(E)X151008PNR-MF		LNM(E)X151008PNR-MM		LNEX151008PNR-MA		Max-ap
		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	
P	NCM325	-	-	-	-	-	-	9.0	150~300	0.05~0.30	120~300	0.05~0.35	150~300	0.03~0.20	14.0
	PC3500	150~300	0.05~0.25	120~300	0.05~0.30	150~300	0.03~0.20		150~300	0.05~0.30	120~300	0.05~0.35	150~300	0.03~0.20	
M	PC5300	120~180	0.05~0.25	100~180	0.05~0.30	120~200	0.03~0.20		120~180	0.05~0.30	100~180	0.05~0.3	120~200	0.03~0.20	
K	PC6510	150~300	0.08~0.30	120~300	0.08~0.35	-	-		150~300	0.08~0.35	120~300	0.08~0.35	-	-	



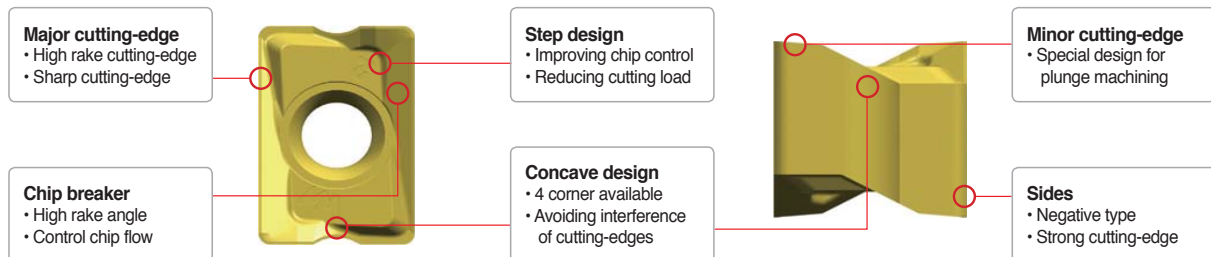
Rich Mill RM4Z

Features

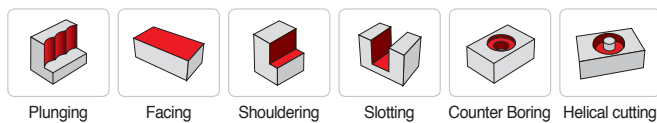
- Rich mill series RM4Z is a plunge mill for high efficiency vertical machining such as slotting and pocketing in roughing applications
- Rich mill series RM4Z is a highly efficient milling tool for plunging, shouldering and facing. It makes operations more economical with the use of its double-sided 4-corner insert
- Plunge machining reduces lead time for high productivity and precision machining.
- In plunging the max depth of RM4Z 3000 type is 9.0 mm and that of RM4Z 4000 type is 14.0 mm



Features of insert



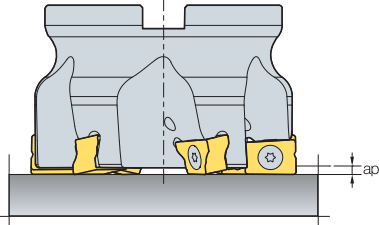
Uses



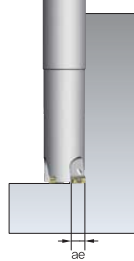
Rich Mill RM4Z

➤ The depth of cut by machining type

• In horizontal machining, Depth of cut = a_p (mm)

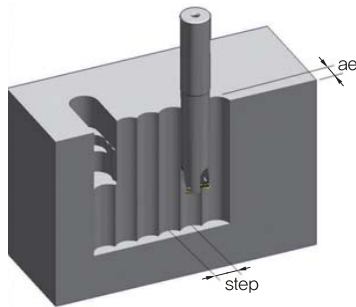


• In plunging, Depth of cut = a_e (mm)



RM4Z	Horizontality	Verticality	
	max a_p (mm)	max a_e (mm)	step
RM4Z 3000	1.5	9	< 0.7D
RM4Z 4000	2.5	14	< 0.7D

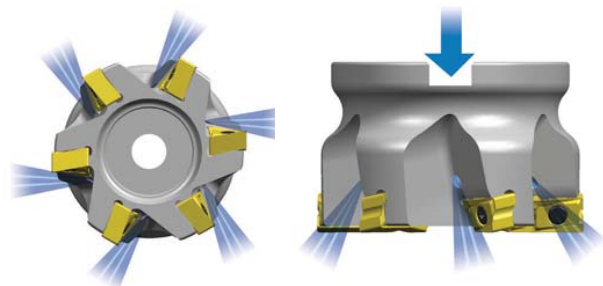
➤ Max step in plunging



ae	Cutter Diameter (mm)								
	25	32	40	50	52	63	66	80	100
	Max step (mm)								
1	9.7	11.1	12.4	14	14.2	15.7	16.1	17.7	19.9
2	13.5	15.4	17.4	19.5	20	22	22.6	24.9	28
3	16.2	18.6	21	23.7	24.2	26.8	27.4	30.3	34.1
4	18.3	21.1	24	27.1	27.7	30.7	31.4	34.8	39.1
5	20	23.2	26.4	30	30.6	34	34.9	38.7	43.5
6	21.3	24.9	28.5	32.4	33.2	36.9	37.9	42.1	47.4
7	22.4	26.4	30.3	34.6	35.4	39.5	40.6	45.2	51
8	23.3	27.7	32	36.6	37.5	41.9	43	48	54.2
9	24	28.7	33.4	38.4	39.3	44	45.2	50.5	57.2
10	-	-	-	-	-	46	47.3	52.9	60
11	-	-	-	-	-	47.8	49.1	55.1	62.5
12	-	-	-	-	-	49.4	50.9	57.1	64.9
13	-	-	-	-	-	50.9	52.4	59	67.2
14	-	-	-	-	-	52.3	53.9	60.7	69.3

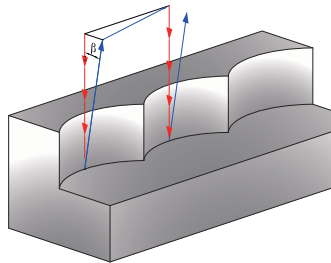
➤ Through coolant system

- Exclusive hexagonal coolant socket bolt provides excellent cooling and chip evacuation
 - Direct coolant injection to cutting-edge improves cooling effectiveness
 - Coolant type arbor should be used
- * Coolant bolt is not included, it is for sale



Rich Mill RM4Z

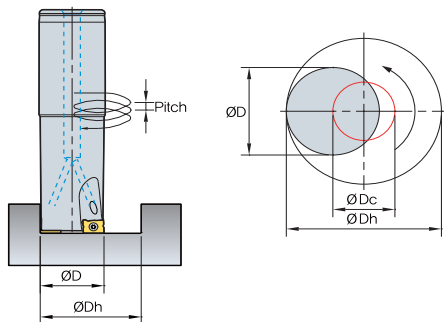
Programming tip



- - - - - Plunging feed direction
- Tool escape
- β Escape angle ($\beta \geq 1^\circ$)

• When your tool steps back after plunging, please get over 1° more escape angle

Helical machining



$$\varnothing D_c = \varnothing D_h - \varnothing D$$

$\varnothing D_c$ = Tool center path
 $\varnothing D_h$ = Desired hole diameter
 $\varnothing D$ = Tool Dia.

Designation	Diameter $\varnothing D$ (mm)	Helical data				
		$\varnothing D_h$ max (mm)	Max. Pitch (mm)	$\varnothing D_h$ min (mm)	Max. Pitch (mm)	
RM4ZS	3025HR-L25	25	48	1.8	30	0.4
	3032HR-L32	32	62	0.9	43	0.3
	3040HR-L32	40	78	0.6	59	0.3
RM4ZC	M3040HR	40	78	0.6	59	0.3
	M3050HR	50	98	0.5	79	0.3
	M3052HR	52	102	0.5	83	0.3
RM4ZM	3025HR-M12	25	48	1.8	30	0.4
	3032HR-M16	32	62	0.9	43	0.3
	3040HR-M16	40	78	0.6	59	0.3
RM4ZC	M4063HR	63	124	1.0	95	0.5
	M4066HR	66	130	1.0	101	0.5
	M4080HR	80	158	0.8	129	0.5
	M4100HR	100	198	0.5	169	0.3

Recommended cutting condition

(mm)

ISO	Grades	LNM(E)X100605PNL-MM				LNM(E)X151008PNL-MM			
		vc (m/min)	fz (mm/t)	* max ae (mm)	** max ap (mm)	vc (m/min)	fz (mm/t)	* max ae (mm)	** max ap (mm)
P	PC3500	100~250	0.05~0.25	9	1.5	120~250	0.05~0.25	14	2.5
M	PC5300	100~250	0.08~0.30			120~250	0.08~0.30		
K	PC6510	80~180	0.05~0.20			100~180	0.05~0.20		

* max ae (mm): (Plunging) max. radial depth of cut

** max ap (mm): (Shouldering/Facing) max depth of cut



Rich Mill RM6

Features

- Stable clamping- 3 clamping surfaces on the side and strong clamping screws
→ Improves cutting stability
- High quality results- High precision, excellent perpendicularity, outstanding surface finish on the flank, accurate tolerance
- High productivity- High rake angle and sharp cutting-edges for lower cutting resistance
→ Ideal for high speed and high feed machining

Features of insert

Higher clamping stability

- Wide clamping areas and strong clamping screws for rigid clamping

High rake angle chip breaker

- Maintains stable clamping
- Induces smooth chip flow
→ Increases insert life

Wide minor cutting-edges

- Improved surface finish
- Enable multi-purpose machining incl. plunging

High rake cutting-edges

- Improved machinability and reduces cutting resistance

3-level flank relief surface

- Enhances rigidity and enables stable clamping
→ Improves cutting stability

MAX. ap
WNGX08: 8.2 mm
WNGX04: 4.3 mm

Labels A, B, and C are shown on the side view of the insert.

Features of cutter

Streamlined holder design

- Improved chip evacuation in deep shouldering and slotting

Through coolant system

- Improved chip flow and tool life thanks to insert cooling

Strong clamping screws

- Strong clamping screws enable rigid clamping




3-side supporting system

- Stable tool life



Rich Mill RM6

Features of chip breakers

Insert	Cutting-edge	Features
For aluminum MA		<ul style="list-style-type: none"> Sharp cutting-edges for excellent cutting performance in aluminum machining Buffed surface for excellent chip flow and welding resistance
For light cutting ML		<ul style="list-style-type: none"> Chip breaker design of low cutting resistance, ideal for light cutting and machining hard-to-cut materials Excellent tool life and quality results
For general cutting MM		<ul style="list-style-type: none"> Chip breaker design ideal for general shoulder milling and most applications

Application guideline for grade

Workpiece		P	M	K	N	
		Carbon steel	Alloy steel	Stainless steel	Cast iron	Non-ferrous metal
Shape	1st recommended	MM	MM	ML	ML	MA
	2nd recommended	ML	ML	-	MM	MA
Grades	High speed milling	PC3600	PC3600	PC5300	PC6510	H01
	General milling	PC5400	PC5300	PC5400	PC5300	H01
	Interrupted milling	PC5400	PC5400	PC5400	PC5400	H01

Recommended cutting condition

• WNGX04

Workpiece	Grades	WNGX040304PNRS-MM			WNGX040304PNER-ML			WNGX040304PNFR-MA		
		vc (m/min)	fz (mm/t)	max. ap(mm)	vc (m/min)	fz (mm/t)	max. ap (mm)	vc (m/min)	fz (mm/t)	max. ap (mm)
P Steel	PC3600	160~270	0.25~0.05	4.3	160~270	0.20~0.05	4.3	-	-	4.3
	PC5300	150~240	0.25~0.05	4.3	150~240	0.25~0.05	4.3	-	-	4.3
	PC5400	130~210	0.25~0.05	4.3	130~210	0.25~0.05	4.3	-	-	4.3
M Stainless steel	PC5300	90~150	0.20~0.05	4.3	90~150	0.10~0.05	4.3	-	-	4.3
	PC5400	70~120	0.20~0.05	4.3	70~120	0.10~0.05	4.3	-	-	4.3
K Cast iron	PC6510	140~230	0.30~0.08	4.3	140~230	0.25~0.08	4.3	-	-	4.3
	PC5300	120~200	0.30~0.08	4.3	120~200	0.25~0.08	4.3	-	-	4.3
N Non-ferrous metal	H01	-	-	4.3	-	-	4.3	500~1000	0.2~0.05	4.3

※ The above data refer to general cutting conditions and can be adjustable up to 300 m/min and 0.4 mm/t depending on user environment.

• WNGX08

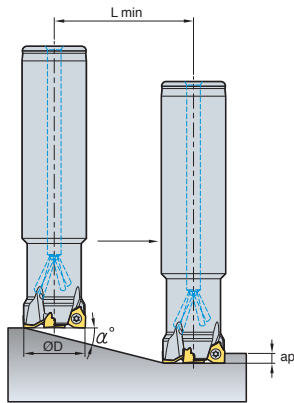
Workpiece	Grades	WNGX080608PNRS-MM			WNGX080608PNER-ML			WNGX080608PNFR-MA		
		vc (m/min)	fz (mm/t)	max. ap (mm)	vc (m/min)	fz (mm/t)	max. ap (mm)	vc (m/min)	fz (mm/t)	max. ap (mm)
P Steel	PC3600	160~270	0.25~0.05	8.2	160~270	0.20~0.05	8.2	-	-	8.2
	PC5300	150~240	0.25~0.05	8.2	150~240	0.25~0.05	8.2	-	-	8.2
	PC5400	130~210	0.25~0.05	8.2	130~210	0.25~0.05	8.2	-	-	8.2
M Stainless steel	PC5300	90~150	0.20~0.05	8.2	90~150	0.10~0.05	8.2	-	-	8.2
	PC5400	70~120	0.20~0.05	8.2	70~120	0.10~0.05	8.2	-	-	8.2
K Cast iron	PC6510	140~230	0.30~0.08	8.2	140~230	0.25~0.08	8.2	-	-	8.2
	PC5300	120~200	0.30~0.08	8.2	120~200	0.25~0.08	8.2	-	-	8.2
N Non-ferrous metal	H01	-	-	8.2	-	-	8.2	500~1000	0.2~0.05	8.2

※ The above data refer to general cutting conditions and can be adjustable up to 300 m/min and 0.4 mm/t depending on user environment.

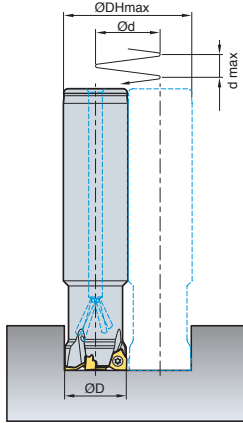
Rich Mill RM6

Ramping

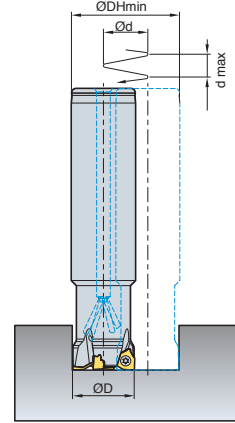
1. Ramping



2. Helical cutting for blind holes



3. Helical cutting for through holes



(mm)

Designation	Tool Dia. $\varnothing D$	Depth of cut ap	1. Ramping		2. Helical cutting for blind holes				3. Helical cutting for through holes		
			Max. rake angle α°	L_{min}	Min. machining Dia. $\varnothing DH_{min}$	Max. pitch d_{max}	Max. machining Dia. $\varnothing DH_{max}$	Max. pitch d_{max}	Min. machining Dia. $\varnothing DH_{min}$	Max. pitch d_{max}	
RM6PS	032R-2W32-120-WN08	32	8	0.8	572.9	534	0.96	62	1.3	38.5	0.5
	040R-3W32-120-WN08	40	8	0.5	916.7	70	0.82	78	1.0	54.5	0.4
	050R-4W32-120-WN08	50	8	0.3	1527.9	90	0.66	98	0.8	74.5	0.3
RM6PCM	063R-22-6-WN08	63	8	0.2	2291.3	116	0.58	124	0.6	100.5	0.3
	080R-27-7-WN08	80	8	0.1	4583.7	150	0.38	158	0.4	134.5	0.2
	100R-32-8-WN08	100	8	0.1	4583.7	190	0.49	198	0.5	174.5	0.3
	125R-40-11-WN08	125	8	0.1	4583.7	240	0.63	248	0.6	224.5	0.3

$L_{min} = ap / \tan(\alpha^\circ)$

L_{min} : Cutting length at min. rake angle
 ap : Axial depth of cut
 α° : Available rake angle for ramping



Rich Mill RM8

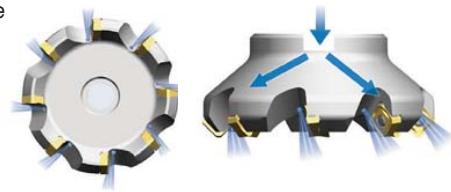
Features

- Double-sided insert to use 8 cutting-edges
- Innovative double-sided insert makes it possible to use 8 cutting-edges
It is more economical than conventional single sided insert
- The unique geometry and high rake angle of cutting-edge guarantees excellent surface finish
Applicable for various workpieces like steel, stainless steel, cast iron, aluminum
- Combined with the innovative geometry and various grades provided the tool offers durability and excellent tool life
- Various pitches and chip breakers can be applicable for diverse machining
- Light Rich mill cutter can be useful for high speed machining and low power machine



Through coolant system

- Exclusive coolant bolt is adapted to get better chip evacuation and more powerful cooling. To get optimal chip evacuation, the direction of coolant injection has been designed to reach to each cutting-edge directly. Through coolant arbor is required

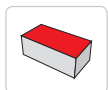


Through coolant system for decreasing cutting heat and good chip evacuation

Features of chip breaker

Insert	Cutting-edge	Features
For aluminum MA		• Due to sharp cutting-edge and buffed surface, it has good chip flow and welding resistance
For hard-to-cut material ML		• Chip breaker with low cutting load is optimal for machining hard-to-cut materials
For light cutting MF		• Due to low cutting load, it is good for light cutting and difficult-to-cut material
For general cutting MM		• It is suitable design for general milling
For wiper W		• Specialized edge design can be suitable for excellent surface roughness operation

Uses




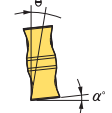
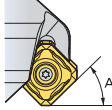
Facing

Features of insert

Insert	Cutting-edge	Features
	View-A 	High rake chip breaker & positive setting angle for low cutting load
	View-B 	Designed wiper technology in minor cutting-edge for improved surface roughness
	Chip breaker 	Low cutting load due to the positive setting and high rake angle chip breaker

Rich Mill RM8

Setting configuration

Shape	Setting angle of insert	Features
		High rake angle makes positive setting angle for low cutting load
		Suitable for facing and chamfering • RM8A A = 45° • RM8E A = 75° • RM8Q A = 88°

Recommended cutting condition

(mm)

ISO	Grades	SNM(E)X1206A(E)NN-MF		SNM(E)X1206A(E)NN-MM		SNEX1206A(E)NN-MA		Max-ap	SNM(E)X1507A(E)NN-MF		SNM(E)X1507A(E)NN-MM		Max-ap
		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	
P	NC5330	-	-	150~300	0.10~0.35	150~300	0.10~0.35	RM8A 6.0 mm	-	-	150~300	0.10~0.35	RM8A 7.5 mm
	NCM325	200~300	0.05~0.30	150~300	0.10~0.35	150~300	0.10~0.35		200~300	0.05~0.30	150~300	0.10~0.35	
	PC3500	200~300	0.05~0.30	150~300	0.10~0.35	150~300	0.10~0.35		200~300	0.05~0.30	150~300	0.10~0.35	
M	PC9530	90~150	0.05~0.25	90~150	0.10~0.35	-	-	RM8E 9.0 mm	90~150	0.10~0.30	90~150	0.10~0.35	RM8E 11 mm
	PC5300	90~150	0.05~0.25	90~150	0.10~0.35	-	-		90~150	0.10~0.30	90~150	0.10~0.35	
K	PC6510	150~300	0.08~0.35	150~300	0.10~0.40	150~300	0.10~0.40	RM8Q 11.5 mm	150~300	0.08~0.35	150~300	0.10~0.40	
	PC5300	150~300	0.08~0.35	150~300	0.10~0.40	150~300	0.10~0.40		150~300	0.08~0.35	150~300	0.10~0.40	

Rich Mill RMH8

Screw on clamping system

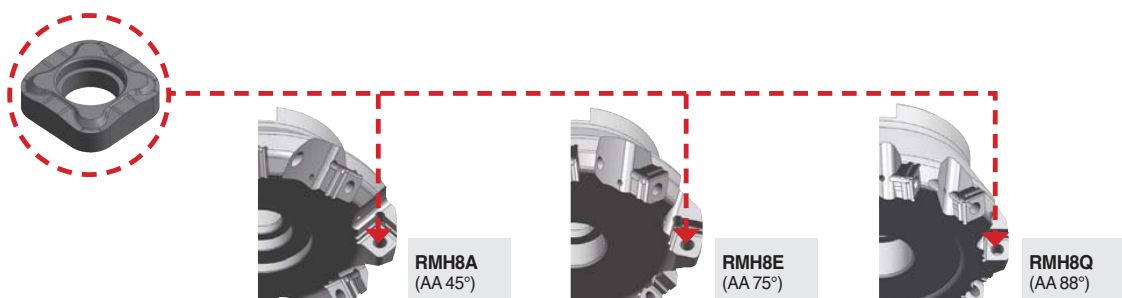
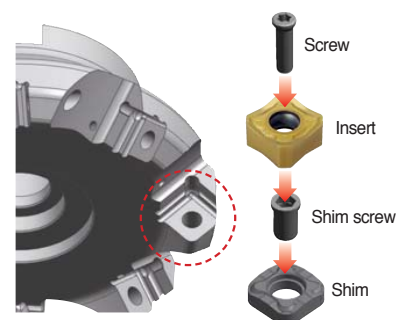
- Adaptable and Stable clamping system

Reinforced rigidity and enhanced clamping power

- Applying shim system, prevent cutter damage when insert breaks

Adapting/exchangeable shim

- Using various kinds of cutter (Approach angle 45°, 75°, 88°)
- Stable clamping power with insert

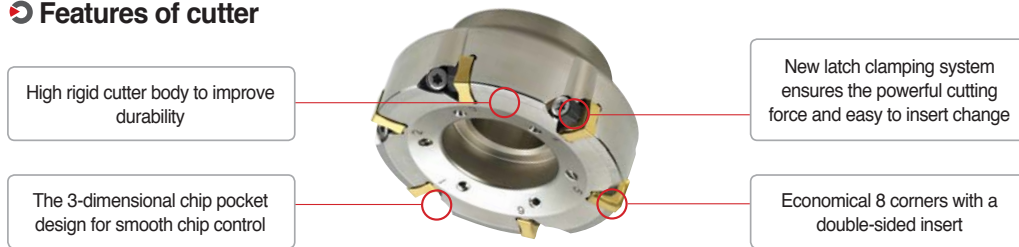


Rich Mill RMT8

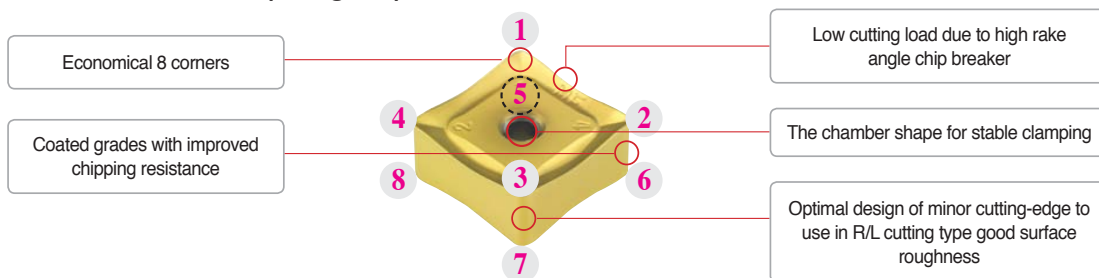
Features

- New latch clamping system provides a powerful cutting force and an easy insert change
- New grades with chipping resistance provides good surface roughness and better tool life
- Due to the specially designed chip breaker, all operations are possible
- RMT with various pitches can replace conventional ISO milling tool

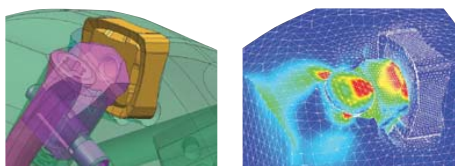
Features of cutter



Features of insert (Using R/L)



Clamping force analysis



Features of chip breakers

Insert	Cutting-edge	Features
For fine finishing MF		• Our specialized insert design creates low cutting forces suitable for light cutting, HRSA
For strengthen MM		• Suitable geometry design for general milling has wider ranges of machining

Recommended grades and chip breakers

ISO	Grades	MM	MF
P	NCM325	⊙	○
	PC5300	⊙	○
M	PC9530	○	⊙
K	PC6510	○	⊙

⊙: Optimum ○: Proper

Recommended cutting condition











ISO	Grades	MM		MF	
		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)
P	NC5330	190~310	0.10~0.35	190~310	0.05~0.30
	NCM325	160~270	0.10~0.35	160~270	0.05~0.30
	PC3500	130~210	0.10~0.35	130~210	0.05~0.30
M	PC9530	90~150	0.05~0.30	90~150	0.05~0.30
K	PC6510	140~230	0.10~0.40	140~230	0.08~0.35

Rich Mill RM16











Features

- Economical 16 cutting-edges
- Reduces cost in medium cutting
- Wiper insert can be used for good surface roughness
- Optimal matching of the special cutting-edge geometry with variety of new grades provides consistence & long tool
- When it is used 16 corners, maximum cutting depth is 5.5 mm, but it is used 8 corners, maximum cutting depth is 13 mm
- Wiper insert is placed 0.05 mm lower than facing insert in cutter
- When feed is bigger than wiper cutting-edge length (7 mm), 2 wiper inserts are placed in symmetrical position

Features of chip breakers

Insert	Insert	Cutting-edge	Features
For aluminum cutting light MA			• With sharp edge application, the better productivity has been accomplished, especially for Aluminum cutting
For hard-to-cut material ML			• Chip breaker with low cutting load is optimal for machining hard-to-cut materials
For light cutting MF			• Due to low cutting load, it is good for light cutting and difficult-to-cut material
For general cutting MM			• It is suitable design for general milling
For wiper W			• It has better surface roughness than MM and MF chip breakers

Instruction for wiper insert

Hand	Correct setting	Incorrect setting			
Right hand					
Decision	○	×	×	×	×
Left hand					
Decision	○	×	×	×	×

Through coolant system

- Well designed chip pocket for better chip flow
- Through coolant system reduces cutting heat and improves chip evacuation






Recommended cutting condition

ISO	Grades	(mm)											
		ONM(H)X060608-MM		ONM(H)X060608-MF		ONHX060608-W		ONM(H)X080608-MM		ONM(H)X080608-MF		ONHX080608-W	
		vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)
P	NCM325	150~300	0.10~0.35	200~300	0.05~0.30	200~300	0.05~0.20	150~300	0.10~0.40	200~300	0.05~0.35	200~300	0.05~0.25
	PC3500	150~300	0.10~0.35	200~300	0.05~0.30	200~300	0.05~0.20	150~300	0.10~0.40	200~300	0.05~0.35	200~300	0.05~0.25
M	PC6510	120~180	0.10~0.35	100~180	0.05~0.30	100~180	0.05~0.20	120~180	0.10~0.40	100~180	0.05~0.35	100~180	0.05~0.25
K	PC9530	150~300	0.10~0.40	150~300	0.08~0.35	150~300	0.05~0.25	150~300	0.10~0.45	150~300	0.08~0.40	150~300	0.05~0.30



Cutters





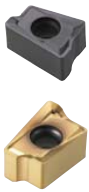


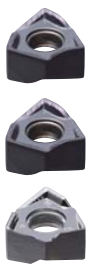
Type	A.A	Designation	Shape	Cutter Diameter	Application	Features	Page		
RM3	90°	RM3PC(M)3000 ^{new}		Ø40~Ø80	XNKT060405PNER-ML XNKT060405PNSR-MM		E86		
		RM3PC(M)4000 ^{new}		Ø40~Ø125	XNCT080508PNFR-MA XNKT080508PNER-ML XNKT080508PNSR-MM XNKT080520PNSR-MM		E87		
		RM3PC(M)5000 ^{new}		Ø80~Ø125	XNCT120608PNER-MA XNKT120608PNER-ML XNKT120612PNER-ML XNKT120616PNER-ML XNKT120620PNER-ML XNKT120608PNSR-MM XNKT120612PNSR-MM XNKT120616PNSR-MM XNKT120620PNSR-MM		E88		
RM4	90°	RM4PC(M)3000		Ø40~Ø100	LNEX100605PNR-MF LNEX100605aPNR-MF LNEX100605PNR-MM LNEX100605PNR-MM LNEX100608PNR-MF LNEX100608PNR-MM LNEX100605PNL-MM LNEX100605PNL-MM		E92		
		RM4PC(M)4000			Ø50~Ø160		LNEX151004PNR-MF LNEX151004PNR-MM LNEX151008PNR-MF LNEX151008PNR-MM LNEX151008PNL-MM LNEX151008PNL-MM	E93	
		RM4ZCM3000			Ø40~Ø52		LNEX100605PNL-MM LNEX100605PNL-MM	<ul style="list-style-type: none"> Economical 4 corners. Screw on type for slotting, facing. 	E105
		RM4ZC(M)4000			Ø63~Ø100		LNEX151008PNL-MM LNEX151008PNL-MM		
RM6	90°	RM6PCM-WN04 ^{new}		Ø40~Ø63	WNGX040304PNFR-MA WNGX040308PNFR-MA WNGX040312PNFR-MA WNGX040316PNFR-MA WNGX040304PNER-ML WNGX040308PNER-ML WNGX040312PNSR-MM WNGX040316PNSR-MM		E107		
		RM6PC(M)-WN08 ^{new}		Ø50~Ø125	WNGX080604PNFR-MA WNGX080608PNFR-MA WNGX080612PNFR-MA WNGX080616PNFR-MA WNGX080620PNFR-MA WNGX080604PNER-ML WNGX080608PNER-ML WNGX080612PNER-ML WNGX080616PNER-ML WNGX080620PNER-ML WNGX080604PNSR-MM WNGX080608PNSR-MM WNGX080612PNSR-MM WNGX080616PNSR-MM WNGX080620PNSR-MM		E108		
RM8	45°	RM8AC(M)4000		Ø50~Ø400	SNEX1206ANN-MA SNEX1206ANN-MF SNMX1206ANN-MF SNEX1206ANN-ML SNEX1206ANN-MM SNMX1206ANN-MM SNEX1206ANN-W		E111		
		RM8AC(M)5000		Ø80~Ø400	SNEX1507ANN-MF SNMX1507ANN-MF SNEX1507ANN-ML SNEX1507ANN-MM SNMX1507ANN-MM		E113		

Cutters

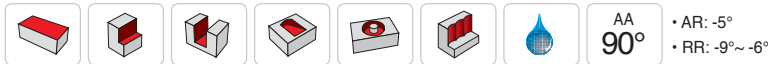
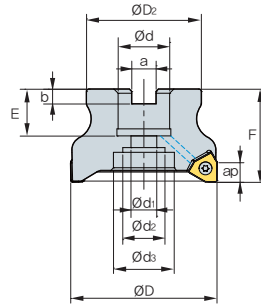
Type	A.A	Designation	Shape	Cutter Diameter	Application		Features	Page	
RM8	75°	RM8EC(M)4000		Ø50~Ø400	SNEX1206ENN-MA SNEX1206ENN-MF SNMX1206ENN-MF	SNEX1206ENN-ML SNEX1206ENN-MM SNMX1206ENN-MM		E115	
		RM8EC(M)5000		Ø80~Ø400	SNEX1507ENN-MF SNMX1507ENN-MF SNEX1507ENN-ML	SNEX1507ENN-MM SNMX1507ENN-MM		E117	
	88°	RM8QC(M)4000		Ø63~Ø200	SNEX1206QNN-MA SNEX1206QNN-MF SNMX1206QNN-MF SNEX1206QNN-ML SNEX1206QNN-MM SNMX1206QNN-MM	SNEX120612-MA SNEX120612-MF SNMX120612-MF SNEX120612-ML SNEX120612-MM SNMX120612-MM		E119	
	45°	RMH8AC(M)4000		Ø50~Ø400	SNEX1206ANN-MA SNEX1206ANN-MF SNMX1206ANN-MF	SNEX1206ANN-ML SNEX1206ANN-MM SNMX1206ANN-MM SNEX1206ANN-W		<ul style="list-style-type: none"> Economical 8 corners. Low cutting load and excellent smooth cutting. 	E112
		RMH8AC(M)5000		Ø80~Ø400	SNEX1507ANN-MF SNMX1507ANN-MF SNEX1507ANN-ML	SNEX1507ANN-MM SNMX1507ANN-MM			E114
	75°	RMH8EC(M)4000		Ø50~Ø400	SNEX1206ENN-MA SNEX1206ENN-MF SNMX1206ENN-MF	SNEX1206ENN-ML SNEX1206ENN-MM SNMX1206ENN-MM			E116
		RMH8EC(M)5000		Ø80~Ø400	SNEX1507ENN-MF SNMX1507ENN-MF SNEX1507ENN-ML	SNEX1507ENN-MM SNMX1507ENN-MM			E118
	88°	RMH8QC(M)4000		Ø63~Ø200	SNEX1206QNN-MA SNEX1206QNN-MF SNMX1206QNN-MF SNEX1206QNN-ML SNEX1206QNN-MM SNMX1206QNN-MM	SNEX120612-MA SNEX120612-MF SNMX120612-MF SNEX120612-ML SNEX120612-MM SNMX120612-MM		E120	
	45°	RMT8A(M)4000/5000		Ø80~Ø315	SNCF1206ANN-MF SNCF1507ANN-MF SNMF1206ANN-MF SNMF1507ANN-MF	SNCF1206ANN-MM SNCF1507ANN-MM SNMF1206ANN-MM SNMF1507ANN-MM		<ul style="list-style-type: none"> Economical 8 corners. Excellent tool life and surface toughness due to low cutting resistance and high rake edge geometry. 	E121 E122
	75°	RMT8E(M)4000/5000		Ø80~Ø315	SNCF1206ENN-MF SNCF1507ENN-MF SNMF1206ENN-MF SNMF1507ENN-MF	SNCF1206ENN-MM SNCF1507ENN-MM SNMF1206ENN-MM SNMF1507ENN-MM			
	88°	RMT8Q(M)4000		Ø80~Ø315	SNCF1206QNN-MF	SNMF1206QNN-MF		<ul style="list-style-type: none"> Good performance with increased chipping resistance and grade 	E125
	RM16	45°	RM16AC(M)6000/8000		Ø63~Ø400	ONHX060608-MF ONMX060608-MF ONHX0606ANN-MF ONMX0606ANN-MF ONHX080608-MF ONMX080608-MF ONHX0806ANN-MF ONMX0806ANN-MF ONHX060608-ML ONMX060608-ML ONHX080608-ML ONMX080608-ML	ONMX060608-MM ONHX0606ANN-MM ONMX0606ANN-MM ONHX080608-MM ONMX080608-MM ONHX0806ANN-MM ONMX0806ANN-MM ONHX060608-MA ONMX060608-MA ONHX080608-MA ONMX080608-MA		<ul style="list-style-type: none"> Economical 16 corners. Wiper insert for surface roughness.



Shanks/Modulars

Type	A.A	Designation	Shape	Cutter Diameter	Application		Features	Page
RM3	90°	RM3PS3000 ^{new}		Ø20~Ø40	XNKT060405PNER-ML	XNKT060405PNSR-MM		E89
		RM3PS4000 ^{new}		Ø32~Ø63	XNKT080508PNER-ML XNKT080508PNSR-MM XNKT080512PNSR-MM	XNKT080516PNSR-MM XNKT080520PNSR-MM		E90
		RM3PM ^{new} 3000/4000		Ø20~Ø50	XNKT060405PNER-ML XNKT060405PNSR-MM XNKT060408PNER-ML XNKT060408PNSR-MM XNCT080504PNFR-MA XNCT080508PNFR-MA XNCT080512PNFR-MA XNCT080520PNFR-MA	XNKT080508PNER-ML XNKT080508PNSR-MM XNKT080512PNER-ML XNKT080512PNSR-MM XNKT080516PNER-ML XNKT080516PNSR-MM XNKT080520PNER-ML XNKT080520PNSR-MM		E91
RM4	90°	RM4PS3000		Ø14~Ø50	LNEX100605PNR-MF LNMX100605PNR-MF LNEX100605PNR-MM LNMX100605PNR-MM LNEX100608PNR-MF LNMX100608PNR-MF	LNEX100608PNR-MM LNMX100608PNR-MM LNEX100605PNR-MA LNEX100605PNL-MM LNMX100605PNL-MM		E102
		RM4PS4000		Ø32~Ø63	LNEX151004PNR-MF LNMX151004PNR-MF LNEX151004PNR-MM LNMX151004PNR-MM LNEX151008PNR-MF LNMX151008PNR-MF LNEX151008PNR-MM LNMX151008PNR-MM	LNEX151016PNR-MF LNMX151016PNR-MF LNEX151016PNR-MM LNMX151016PNR-MM LNEX151004PNR-MA LNEX151004PNR-MA LNEX151008PNR-MA LNEX151008PNL-MM LNMX151008PNL-MM		E103
		RM4ZS3000		Ø25~Ø40	LNEX100605PNL-MM	LNMX100605PNL-MM		E106
		RM4PM3000		Ø14~Ø50	LNEX100605PNR-MF LNMX100605PNR-MF LNEX100605PNR-MM LNMX100605PNR-MM LNEX100608PNR-MF LNMX100608PNR-MF	LNEX100608PNR-MM LNMX100608PNR-MM LNEX100605PNR-MA LNEX100605PNL-MM LNMX100605PNL-MM		E104
		RM4ZM3000		Ø25~Ø40	LNEX100605PNL-MM	LNMX100605PNL-MM		E106
RM6	90°	RM6PS-WN04 ^{new}		Ø20~Ø32	WNGX040304PNFR-MA WNGX040308PNFR-MA WNGX040312PNFR-MA WNGX040316PNFR-MA WNGX040304PNER-ML WNGX040308PNER-ML	WNGX040312PNER-ML WNGX040316PNER-ML WNGX040304PNSR-MM WNGX040308PNSR-MM WNGX040312PNSR-MM WNGX040316PNSR-MM		E109
		RM6PS-WN08 ^{new}		Ø32~Ø50	WNGX080604PNFR-MA WNGX080608PNFR-MA WNGX080612PNFR-MA WNGX080616PNFR-MA WNGX080620PNFR-MA WNGX080604PNER-ML WNGX080608PNER-ML WNGX080612PNER-ML	WNGX080616PNER-ML WNGX080620PNER-ML WNGX080604PNSR-MM WNGX080608PNSR-MM WNGX080612PNSR-MM WNGX080616PNSR-MM WNGX080620PNSR-MM		E110

RM3PC(M)3000 new



(mm)

Designation		ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap		
RM3PCM	3040HR	5	40	35	16	9	14	-	8.4	5.6	16	40	5.5	0.2
	3040HR-M	6	40	35	16	9	14	-	8.4	5.6	16	40	5.5	0.2
	3050HR	6	50	41	22	11	18	-	10.4	6.3	20	40	5.5	0.3
	3050HR-M	7	50	41	22	11	18	-	10.4	6.3	20	40	5.5	0.3
	3063HR	7	63	49	22	11	18	-	10.4	6.3	20	40	5.5	0.49
	3063HR-M	8	63	49	22	11	18	-	10.4	6.3	20	40	5.5	0.49
RM3PC (RM3PCM)	3080HR	8	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	25 (23)	50	5.5	0.87
	3080HR-M	10	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	25 (23)	50	5.5	0.88

()Metric size

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
XNKT 060405PNER-ML						●	●	●	●	●	●	●	●				E30
060405PNSR-MM						●	●	●	●	●	●	●	●				
060408PNER-ML						●	●	●	●	●	●	●	●				
060408PNSR-MM						●	●	●	●	●	●	●	●				

Available arbors

Designation	Available arbors	
	RM3PC	RM3PCM
RM3PC(M) 3040HR	-	BT□□-FMC16-□□
3040HR-M	-	BT□□-FMC22-□□
3050HR	-	BT□□-FMA25.4-□□
3050HR-M	-	BT□□-FMC27-□□
3063HR		
3063HR-M		
3080HR		
3080HR-M		

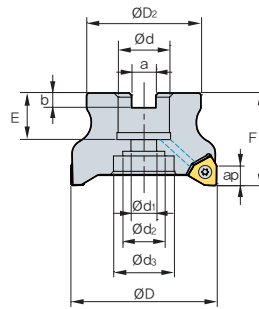
Parts

Specification	Screw	Wrench
Ø40~Ø80	FTNA0306	TW09S

Available inserts E30 Available arbors and bolt E371~E373



RM3PC(M)4000 new



Designation		ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	(mm)	
RM3PCM	4040HR	3	40	35	16	9	14	-	8.4	5.6	19	40	8.0	0.19
	4040HR-M	4	40	35	16	9	14	-	8.4	5.6	19	40	8.0	0.19
	4050HR	4	50	42	22	11	18	-	10.4	6.3	20	40	8.0	0.28
	4050HR-M	5	50	42	22	11	18	-	10.4	6.3	20	40	8.0	0.29
	4063HR	5	63	49	22	11	18	-	10.4	6.3	20	40	8.0	0.54
	4063HR-M	6	63	49	22	11	18	-	10.4	6.3	20	40	8.0	0.53
RM3PC (RM3PCM)	4080HR	5	80	57	25.4 (27)	14	20	35	9.5 (12.4)	6 (7)	25 (23)	50	8.0	1.08
	4080HR-M	7	80	57	25.4 (27)	14	20	35	9.5 (12.4)	6 (7)	25 (23)	50	8.0	1.06
	4100HR	7	100	67	31.75 (32)	18	26	42	12.7 (14.4)	8 (8)	33 (25)	63 (50)	8.0	1.68
	4100HR-M	8	100	67	31.75 (32)	18	26	42	12.7 (14.4)	8 (8)	33 (25)	63 (50)	8.0	1.67
	4125HR	8	125	90	38.1 (40)	22	32	52	15.9 (16.4)	9 (10)	38 (29)	63	8.0	3.45
	4125HR-M	10	125	90	38.1 (40)	22	32	52	15.9 (16.4)	9 (10)	38 (29)	63	8.0	3.45

() Metric size

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC6510	PC5300	PC5400		ST30A	G10	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						●	●	●		●	●	●				●

Available arbors

Designation	Available arbors	
	RM3PC	RM3PCM
RM3PC(M) 4040HR	-	BT□□-FMC16-□□
4050HR	-	BT□□-FMC22-□□
4063HR	-	BT□□-FMC27-□□
4080HR	BT□□-FMA25.4-□□	BT□□-FMC32-□□
4100HR	BT□□-FMA31.75-□□	BT□□-FMC40-□□
4125HR	BT□□-FMA38.1-□□	

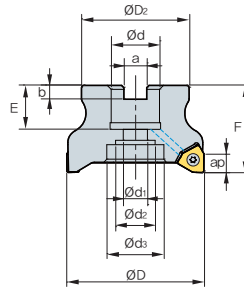
Parts

Specification	Screw	Wrench
Ø40~Ø125	FTNA0408	TW15S

Available inserts E29, E30 Available arbors and bolt E371~E373



RM3PC(M)5000 new



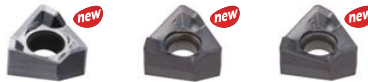
(mm)

Designation		ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap		
RM3PC (RM3PCM)	5080HR	5	80	57	25.4 (27)	14	20	35	9.5 (12.4)	6 (7)	24 (23)	50	12.0	0.84
	5080HR-M	7	80	57	25.4 (27)	14	20	35	9.5 (12.4)	6 (7)	24 (23)	50	12.0	0.84
	5100HR	7	100	67	31.75 (32)	18	28	45	12.7 (14.4)	8 (8)	32 (25)	63	12.0	1.76
	5100HR-M	8	100	67	31.75 (32)	18	28	45	12.7 (14.4)	8 (8)	32 (25)	63	12.0	1.76
	5125HR	8	125	90	38.1 (40)	22	32	52	15.9 (16.4)	9 (10)	38 (30)	63	12.0	2.70
	5125HR-M	10	125	90	38.1 (40)	22	32	52	15.9 (16.4)	9 (10)	38 (30)	63	12.0	2.70

()Metric size

Available inserts

XNCT-MA XNKT-ML XNKT-MM



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5900	PC5400	ST30A	G10		H01
XNCT 120608PNFR-MA																	
XNKT 120608PNER-ML																	
120608PNSR-MM						●	●		●		●	●	●				
120612PNER-ML												●	●				
120612PNSR-MM						●	●					●	●				E29
120616PNER-ML												●	●				E30
120616PNSR-MM						●	●					●	●				
120620PNER-ML												●	●				
120620PNSR-MM						●	●					●	●				

Available arbors

Designation	Available arbors	
	RM3PC	RM3PCM
RM3PC(M) 5080HR	BT□□-FMA25.4-□□	BT□□-FMC27-□□
5100HR	BT□□-FMA31.75-□□	BT□□-FMC32-□□
5125HR	BT□□-FMA38.1-□□	BT□□-FMC40-□□

Parts

Specification	Screw	Wrench
Ø80-Ø125	FTNA0511	TW20-100

Available inserts E29, E30 Available arbors and bolt E371-E373



RM3PS3000 new

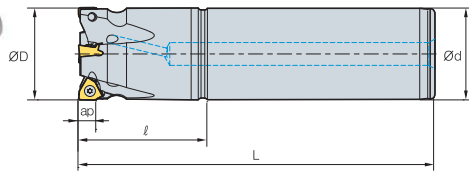


Fig. 1

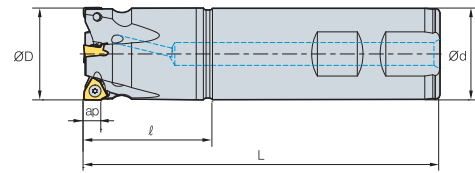
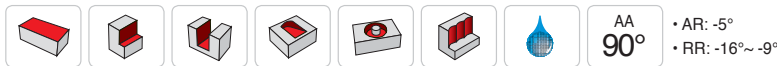


Fig. 2



(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
RM3PS 3020HR-2S20	2	20	20	35	100	5.5	0.21	2
3020HR-2L20	2	20	20	35	200	5.5	0.43	1
3021HR-2S20	2	21	20	30	100	5.5	0.21	2
3021HR-2L20	2	21	20	30	200	5.5	0.43	1
3025HR-3S20	3	25	20	35	115	5.5	0.27	2
3025HR-3L20	3	25	20	35	200	5.5	0.46	1
3025HR-3S25	3	25	25	40	115	5.5	0.36	2
3025HR-3L25	3	25	25	40	200	5.5	0.66	1
3026HR-2S20	2	26	20	35	115	5.5	0.29	2
3026HR-2L20	2	26	20	35	200	5.5	0.47	1
3026HR-3S20	3	26	20	35	115	5.5	0.28	2
3026HR-3L20	3	26	20	35	200	5.5	0.47	1
3026HR-2S25	2	26	25	35	115	5.5	0.37	2
3026HR-2L25	2	26	25	35	200	5.5	0.68	1
3026HR-3S25	3	26	25	35	115	5.5	0.37	2
3026HR-3L25	3	26	25	35	200	5.5	0.68	1
3032HR-3S25	3	32	25	42	125	5.5	0.48	2
3032HR-3L25	3	32	25	42	200	5.5	0.74	1
3032HR-4S25	4	32	25	42	125	5.5	0.48	2
3032HR-4L25	4	32	25	42	200	5.5	0.74	1
3032HR-4S32	4	32	32	42	125	5.5	0.68	2
3032HR-4L32	4	32	32	42	200	5.5	1.13	1
3033HR-3S25	3	33	25	42	125	5.5	0.49	2
3033HR-3L25	3	33	25	42	200	5.5	0.75	1
3033HR-4S25	4	33	25	42	125	5.5	0.49	2
3033HR-4L25	4	33	25	42	200	5.5	0.75	1
3033HR-4S32	4	33	32	42	125	5.5	0.70	2
3033HR-4L32	4	33	32	42	200	5.5	1.14	1
3040HR-4S32	4	40	32	45	130	5.5	0.83	2
3040HR-4L32	4	40	32	45	200	5.5	1.24	1
3040HR-5S32	5	40	32	45	130	5.5	0.83	2
3040HR-5L32	5	40	32	45	200	5.5	1.24	1

() Metric size

Available inserts

XNKT-ML XNKT-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		ST30A	G10	H01
XNKT 060405PNER-ML						●	●	●	●	●	●	●	●				E30
060405PNSR-MM						●	●	●	●	●	●	●	●				
060408PNER-ML						●	●	●	●	●	●	●	●				
060408PNSR-MM						●	●	●	●	●	●	●	●				

Parts

Specification		
Ø20~Ø40	FTNA0306	TW09S

Available inserts E30

RM3PS4000 new

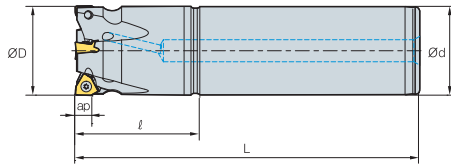


Fig. 1

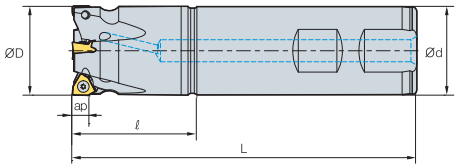
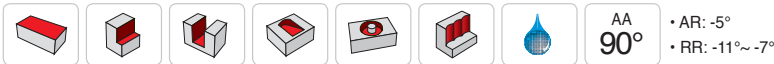


Fig. 2



AA
90°

- AR: -5°
- RR: -11°~ -7°

(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
RM3PS 4032HR-3S32	3	32	32	42	125	8	0.67	2
4032HR-3L32	3	32	32	42	200	8	1.11	1
4033HR-3S32	3	33	32	42	125	8	0.68	2
4033HR-3L32	3	33	32	42	200	8	1.13	1
4040HR-3S32	3	40	32	42	130	8	0.8	2
4040HR-3L32	3	40	32	42	200	8	1.21	1
4040HR-4S32	4	40	32	42	130	8	0.81	2
4040HR-4L32	4	40	32	42	200	8	1.22	1
4050HR-4S32	4	50	32	42	135	8	0.99	2
4050HR-4L32	4	50	32	42	200	8	1.38	1
4050HR-4S40	4	50	40	42	135	8	1.32	2
4050HR-4L40	4	50	40	42	200	8	1.94	1
4050HR-5S32	5	50	32	42	135	8	1.02	2
4050HR-5L32	5	50	32	42	200	8	1.4	1
4050HR-5S40	5	50	40	42	135	8	1.35	2
4050HR-5L40	5	50	40	42	200	8	1.96	1
4063HR-5S32	5	63	32	42	135	8	1.31	2
4063HR-5L32	5	63	32	42	200	8	1.7	1
4063HR-5S40	5	63	40	42	135	8	1.64	2
4063HR-5L40	5	63	40	42	200	8	2.25	1
4063HR-6S32	6	63	32	42	135	8	1.31	2
4063HR-6L32	6	63	32	42	200	8	1.7	1
4063HR-6S40	6	63	40	42	135	8	1.64	2
4063HR-6L40	6	63	40	42	200	8	2.26	1

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	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						●	●		●		●	●	●				

E29

E30

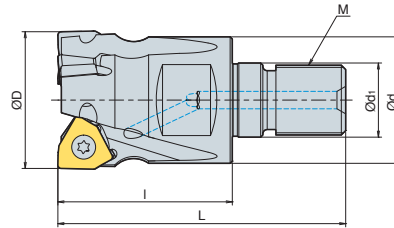
Parts

Specification		
Ø32-Ø63	FTNA0408	TW15S

Available inserts E29, E30



RM3PM3000/4000 new



AA
90°

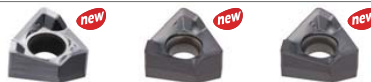
• AR: -5°
• RR: -16°~ -7°

(mm)

Designation	齿数	ØD	Ød	Ød1	I	L	M	ap	kg
RM3PM	3020HR-2-M10	2	20	18	10.5	30	M10	5.5	0.06
	3025HR-3-M12	3	25	21	12.5	35	M12	5.5	0.1
	3032HR-4-M16	4	32	29	17	40	M16	5.5	0.21
	3040HR-5-M16	5	40	29	17	40	M16	5.5	0.26
RM3PM	4032HR-3-M16	3	32	29	17	40	M16	8	0.21
	4040HR-4-M16	4	40	29	17	50	M16	8	0.33
	4050HR-5-M16	5	50	29	17	55	M16	8	0.49

Available inserts

XNCT-MA XNKT-ML XNKT-MM



Designation	Cermet		Coated								Uncoated			page				
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01	
3000 type	XNKT	060405PNER-ML															E30	
		060405PNSR-MM					●	●	●	●	●	●						
		060408PNER-ML																
		060408PNSR-MM						●	●	●	●	●	●					
4000 type	XNCT	080504PNFR-MA														●	E29	
		080508PNFR-MA														●		
		080512PNFR-MA														●		
		080520PNFR-MA														●		
	XNKT	080508PNER-ML							●			●	●	●				E30
		080508PNSR-MM						●	●	●		●	●	●				
		080512PNER-ML										●	●	●				
		080512PNSR-MM						●	●	●		●	●	●				
		080516PNER-ML										●	●	●				
		080516PNSR-MM						●	●	●		●	●	●				
		080520PNER-ML										●	●	●				
		080520PNSR-MM						●	●	●		●	●	●				

Available adaptor

Designation	Available adaptor	
RM3PM	3020HR-2-M10	MAT-M10
	3025HR-3-M12	MAT-M12
	3032HR-4-M16	MAT-M16
	3040HR-5-M16	MAT-M16
RM3PM	4032HR-3-M16	MAT-M16
	4040HR-4-M16	MAT-M16
	4050HR-5-M16	MAT-M16

Designation: RM3PM4032HR-M16
Modular head threading measure size (M16)

II

Adaptor spec.: MAT-M16-035-S32S
Adaptor threading measure (M16)

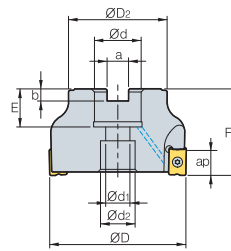
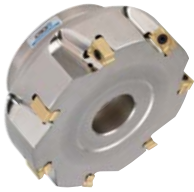
Parts

Specification	Screw	Wrench
Ø20~Ø40 (3000 type)	FTNA0306	TW09S
Ø32~Ø50 (4000 type)	FTNA0408	TW15S

Available inserts E29, E30 Available adaptor E342~E343



RM4PC(M)3000



AA
90°
• AR: -6°
• RR: -19°~ -13°

(mm)

Designation	ØD	ØD ²	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		Bolt		
RM4PCM	3040HR	4	40	35	16	9	14	8.4	5.6	19	40	9.0	0.24	SB0825
	3040HR-M	5	40	35	16	9	14	8.4	5.6	19	40	9.0	0.23	SB0825
	3050HR	5	50	42	22	11	18	10.4	6.3	20	40	9.0	0.36	SB1025
	3050HR-M	7	50	42	22	11	18	10.4	6.3	20	40	9.0	0.35	SB1025
	3063HR	7	63	49	22	11	18	10.4	6.3	20	40	9.0	0.61	SB1025
	3063HR-M	9	63	49	22	11	18	10.4	6.3	20	40	9.0	0.6	SB1025
RM4PC (RM4PCM)	3080HR	8	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (23)	50	9.0	1.25 (1.24)	SB1230
	3080HR-M	10	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (23)	50	9.0	1.24 (1.23)	SB1230
	3100HR	9	100	67	31.75(32)	18	26	12.7 (14.4)	8.0 (8.0)	33 (25)	63 (50)	9.0	2.46 (1.94)	SB1630
	3100HR-M	12	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0 (8.0)	33 (25)	63 (50)	9.0	2.44 (1.93)	SB1630

()Metric size

Available inserts



Designation	Cermet		Coated										Uncoated			page
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC6510	PC5300	PC5400	ST30A	G10	
LNX	100605PNR-MF										●	●	●			
	100605PNR-MM							●			●	●	●			
	100605PNR-MA															●
	100605PNL-MM										●	●	●			
	100608PNR-MF							●			●	●	●			
	100608PNR-MM										●	●	●			
LNMX	100605PNR-MF								●		●	●	●			
	100605PNR-MM							●	●	●	●	●	●			
	100608PNR-MF								●		●	●	●			
	100608PNR-MM							●	●		●	●	●			
	100605PNL-MM							●	●		●	●	●			

E10
E11

Available arbors

Designation	Available arbors		Designation	Available arbors	
	RM4PC	RM4PCM		RM4PC	RM4PCM
RM4PC(M)	3040HR		RM4PC(M)	3080HR	BT□□-FMA25.4-□□
	3040HR-M	-		3080HR-M	BT□□-FMA25.4-□□
	3050HR			3100HR	BT□□-FMA31.75-□□
	3050HR-M			3100HR-M	BT□□-FMA31.75-□□
	3063HR				
	3063HR-M	-			

Parts

Specification		
Ø40~Ø100	FTKA0307	TW09S

Available inserts E10, E11 Available arbors and bolt E371~E373



RM4PC(M)4000

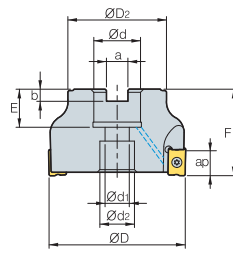
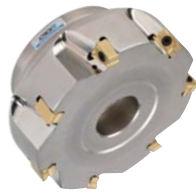


Fig. 1

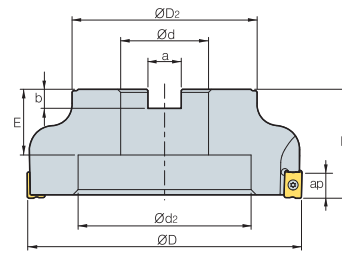


Fig. 2



AA 90°
 • AR: -6°
 • RR: -19°~ -13°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	$\frac{a}{R}$	Bolt	Fig.		
RM4PCM	4040HR	3	40	36	16	11	18	8.4	5.6	19	40	14	0.23	SB0825	1
	4050HR	3	50	46	22	11	18	10.4	6.3	20	40	14	0.36	SB1025	1
	4050HR-M	4	50	46	22	11	18	10.4	6.3	20	40	14	0.35	SB1025	1
	4050HR-H	5	50	46	22	11	18	10.4	6.3	20	40	14	0.36	SB1025	1
	4063HR	4	63	49	22	11	18	10.4	6.3	20	40	14	0.56	SB1025	1
	4063HR-M	6	63	49	22	11	18	10.4	6.3	20	40	14	0.57	SB1025	1
RM4PC (RM4PCM)	4080HR	5	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (23)	50	14	1.18 (1.16)	SB1230	1
	4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (23)	50	14	1.17 (1.14)	SB1230	1
	4080HR-H	8	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (23)	50	14	1.17 (1.14)	SB1230	1
	4100HR	5	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0 (8.0)	33 (25)	63 (50)	14	2.35 (1.84)	SB1630	1
	4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0 (8.0)	33 (25)	63 (50)	14	2.31 (1.82)	SB1630	1
	4100HR-H	9	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0 (8.0)	33 (25)	63 (50)	14	2.31 (1.82)	SB1630	1
	4125HR	7	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9.0)	35 (30)	63	14	3.87 (3.79)	SB2040	1
	4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9.0)	35 (30)	63	14	3.82 (3.70)	SB2040	1
	4160R	8	160	107	50.8 (40)	-	100	19 (16.4)	11 (9.0)	38 (32)	63	14	5.0 (4.75)	MBA	2
	4160R-M	12	160	107	50.8 (40)	-	100	19 (16.4)	11 (9.0)	38 (32)	63	14	4.97 (4.71)	MBA	2

()Metric size

Available inserts



Designation	Cement							page	Designation	Cement							page					
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510			PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A		G10	H01			
LNE-X	151004PNR-MF								E10	LNM-X	151004PNR-MF								E10			
	151004PNR-MM										151004PNR-MM											
	151004PNR-MA											151008PNR-MF									E11	
	151008PNR-MF											151008PNR-MM										
	151008PNR-MM											151008PNL-MM										
	151008PNR-MA											151016PNR-MF										
	151008PNL-MM											151016PNR-MM										
	151016PNR-MF																					
	151016PNR-MM																					

Available arbors

Designation	Available arbors		Designation	Available arbors	
	RM4PC	RM4PCM		RM4PC	RM4PCM
RM4PC(M)	4050HR		RM4PC(M)	4100HR	BT□□-FMA31.75-□□
	4050HR-M			4100HR-M	BT□□-FMA31.75-□□
	4063HR			4125HR	BT□□-FMA38.1-□□
	4063HR-M			4125HR-M	BT□□-FMA38.1-□□
	4080HR	BT□□-FMA25.4-□□		4160R	BT□□-FMA50.8-□□
	4080HR-M	BT□□-FMA25.4-□□		4160R-M	BT□□-FMA50.8-□□
				BT□□-FMC22-□□	
				BT□□-FMC32-□□	
				BT□□-FMB40-□□	
				BT□□-FMC40-□□	

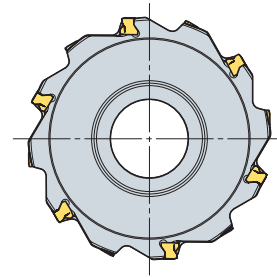
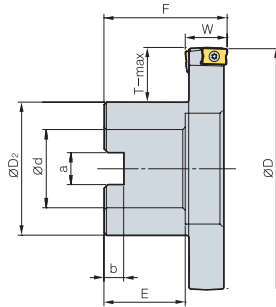
Parts

Specification	Screw	Wrench
Ø50~Ø160	FTKA0412B	TW15S

Available inserts E10, E11 Available arbors and bolt E371-E373



RM4PFCB3000



(mm)

Designation		ØD	ØD2	Ød	a	b	E	F	W	T-max	
RM4PFCB	308015R	10	80	40	25.4	9.5	6	25	50	15	19
	308017R	10	80	40	25.4	9.5	6	25	50	17	19
	310015R	12	100	54	31.75	12.7	8	32	50	15	22
	310017R	12	100	54	31.75	12.7	8	32	50	17	22
	312515R	14	125	70	38.1	15.9	10	38	60	15	26
	312517R	14	125	70	38.1	15.9	10	38	60	17	26
	316015R	16	160	70	38.1	15.9	10	38	60	15	44
	316017R	16	160	70	38.1	15.9	10	38	60	17	44

Available inserts

LNEX-MM LNMX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC8510	PC5300	PC5400		ST30A	G10	H01
LNEX	100605PNR-MM							●			●	●	●				E11
	100605PNL-MM										●	●	●				
LNMX	100605PNR-MM							●	●	●	●	●	●				
	100605PNL-MM							●	●		●	●	●				

Available arbors

Designation	Available arbors	
RM4PFCB	308015R	BT□□ -FMA25.4-□□
	308017R	
310015R	BT□□ -FMA31.75-□□	
310017R		
312515R	BT□□ -FMA38.1-□□	
312517R		
316015R		
316017R		

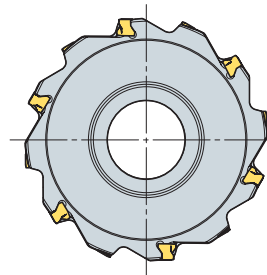
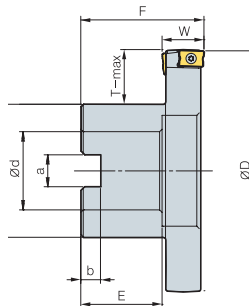
Parts

Specification		
Ø80-Ø160	FTKA0307	TW09S

Available inserts E11 Available arbors and bolt E371-E373



RM4PFCB4000



(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	F	W	T-max	
RM4PFCB	408022R	6	80	40	25.4	9.5	6	25	50	22	19
	408024R	6	80	40	25.4	9.5	6	25	50	24	19
	408026R	6	80	40	25.4	9.5	6	25	50	26	19
	408028R	6	80	40	25.4	9.5	6	25	50	28	19
	410022R	8	100	54	31.75	12.7	8	32	50	22	22
	410024R	8	100	54	31.75	12.7	8	32	50	24	22
	410026R	8	100	54	31.75	12.7	8	32	50	26	22
	410028R	8	100	54	31.75	12.7	8	32	50	28	22
	412522R	10	125	70	38.1	15.9	10	38	60	22	26
	412524R	10	125	70	38.1	15.9	10	38	60	24	26
	412526R	10	125	70	38.1	15.9	10	38	60	26	26
	412528R	10	125	70	38.1	15.9	10	38	60	28	26
	416022R	12	160	70	38.1	15.9	10	38	60	22	44
	416024R	12	160	70	38.1	15.9	10	38	60	24	44
	416026R	12	160	70	38.1	15.9	10	38	60	26	44
	416028R	12	160	70	38.1	15.9	10	38	60	28	44

Available inserts

LNEX-MM LNMX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
LNEX 151008PNR-MM								●			●	●	●				E11
151008PNL-MM											●	●	●				
LNMX 151008PNR-MM								●	●	●	●	●	●				
151008PNL-MM									●		●	●					

Available arbors

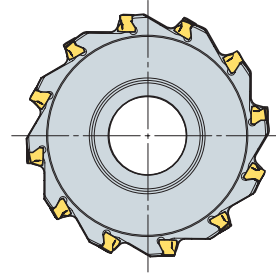
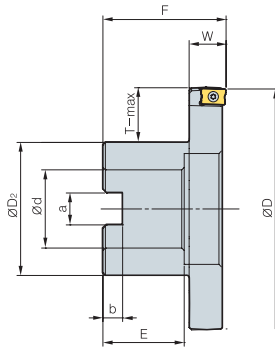
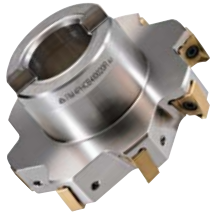
Designation	Available arbors	Designation	Available arbors
RM4PFCB	408022R	RM4PFCB	412522R
	408024R		412524R
	408026R		412526R
	408028R		412528R
	410022R		416022R
	410024R		416024R
410026R	BT□□ -FMA25.4-□□	416026R	BT□□ -FMA38.1-□□
410028R	BT□□ -FMA31.75-□□	416028R	

Parts

Specification		
Ø80~Ø160	FTKA0412B	TW15S

Available inserts E11 Available arbors and bolt E371-E373

RM4PHCB3000



(mm)

Designation		ØD	ØD2	Ød	a	b	E	F	W	T-max	
RM4PHCB	308015R	10	80	40	25.4	9.5	6	25	50	15	19
	310015R	12	100	54	31.75	12.7	8	32	50	15	22
	312515R	14	125	70	38.1	15.9	10	38	60	15	26
	316015R	16	160	70	38.1	15.9	10	38	60	15	44

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
LNEX	100605PNR-MF										●	●	●				E10 E11
	100605PNR-MM							●			●	●	●				
	100605PNR-MA															●	
	100608PNR-MF							●			●	●	●				
	100608PNR-MM										●	●	●				
LNMX	100605PNR-MF								●		●	●	●				E10 E11
	100605PNR-MM							●	●		●	●	●				
	100608PNR-MF								●		●	●	●				
	100608PNR-MM							●	●		●	●	●				

Available arbors

Designation	Available arbors
RM4PHCB 308015R	BT□□ -FMA25.4-□□
310015R	BT□□ -FMA31.75-□□
312515R	BT□□ -FMA38.1-□□
316015R	

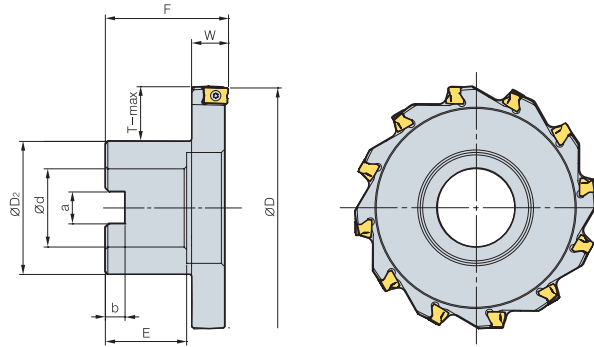
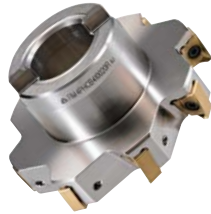
Parts

Specification	Screw	Wrench
Ø80-Ø160	FTKA0307	TW09S

Available inserts E10, E11 Available arbors and bolt E371-E373



RM4PHCB4000



(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	F	W	T-max	
RM4PHCB	408020R	6	80	40	25.4	9.5	6	25	50	20	19
	410020R	8	100	54	31.75	12.7	8	32	50	20	22
	412520R	10	125	70	38.1	15.9	10	38	60	20	26
	416020R	12	160	70	38.1	15.9	10	38	60	20	44

Available inserts



Designation	Cermet		Coated										Uncoated			page		
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10		H01	
LNX	151004PNR-MF																	
	151004PNR-MM																	
	151004PNR-MA																●	
	151008PNR-MF																	
	151008PNR-MM							●										
	151008PNR-MA																	●
	151016PNR-MF																	
	151016PNR-MM																	
LNMX	151004PNR-MF								●									
	151004PNR-MM																	
	151008PNR-MF								●	●								
	151008PNR-MM								●	●	●							
	151016PNR-MF									●	●							
151016PNR-MM									●	●								

Available arbors

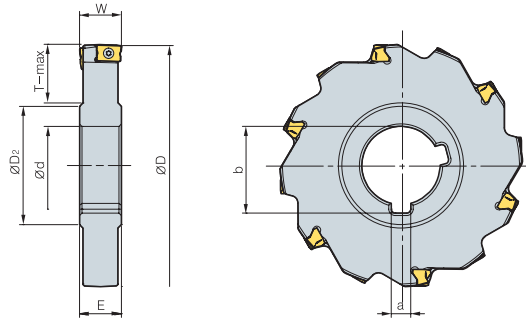
Designation	Available arbors
RM4PHCB 408020R	BT□□-FMA25.4-□□
410020R	BT□□-FMA31.75-□□
412520R	
416020R	BT□□-FMA38.1-□□

Parts

Specification		
Ø80~Ø160	FTKA0412B	TW15S

Available inserts E10, E11 Available arbors and bolt E371~E373

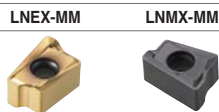
RM4PFCP3000



(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	W	T-max
RM4PFCP 308015R	10	80	41.5	25.4	6.35	28	15	15	17
	10	80	41.5	25.4	6.35	28	17	17	17
310015R	12	100	48	31.75	7.94	35.2	15	15	24
310017R	12	100	48	31.75	7.94	35.2	17	17	24
312515R	14	125	58	38.1	9.53	42.3	15	15	32
312517R	14	125	58	38.1	9.53	42.3	17	17	32
316015R	16	160	58	38.1	9.53	42.3	15	15	49
316017R	16	160	58	38.1	9.53	42.3	17	17	49

Available inserts



Designation	Cermet		Coated										Uncoated			page
	CN2000	CN30	NC5330	NC5340	NC5360	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	
LNX 100605PNR-MM								●			●	●	●			
100605PNL-MM											●	●	●			
LNMX 100605PNR-MM								●	●	●	●	●	●			
100605PNL-MM								●	●		●	●	●			

Available arbors

Designation	Available arbors
RM4PFCP 308015R	BT□□ -SCA25.4-□□
308017R	
310015R	BT□□ -SCA31.75-□□
310017R	
312515R	BT□□ -SCA38.1-□□
312517R	
316015R	
316017R	

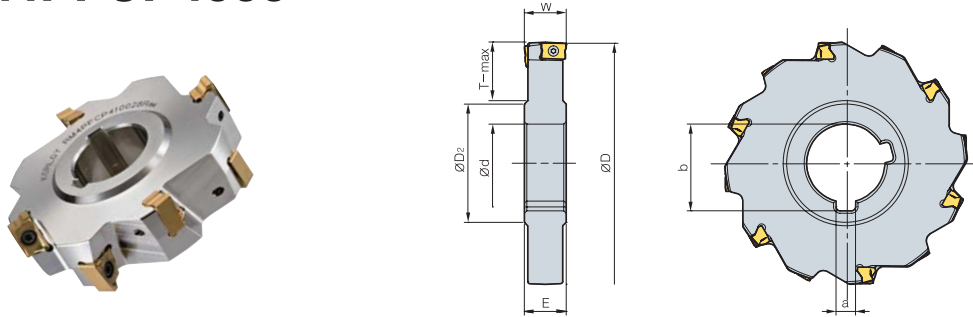
Parts

Specification		
Ø80-Ø160	FTKA0307	TW09S

Available inserts E11 Available arbors and bolt E371-E373



RM4PFCP4000



(mm)

Designation	⊙	ØD	ØD ₂	Ød	a	b	E	W	T-max
RM4PFCP 408022R	6	80	41.5	25.4	6.35	28	22	22	17
408024R	6	80	41.5	25.4	6.35	28	24	24	17
408026R	6	80	41.5	25.4	6.35	28	26	26	17
408028R	6	80	41.5	25.4	6.35	28	28	28	17
410022R	8	100	48	31.75	7.94	35.2	22	22	24
410024R	8	100	48	31.75	7.94	35.2	24	24	24
410026R	8	100	48	31.75	7.94	35.2	26	26	24
410028R	8	100	48	31.75	7.94	35.2	28	28	24
412522R	10	125	58	38.1	9.53	42.3	22	22	32
412524R	10	125	58	38.1	9.53	42.3	24	24	32
412526R	10	125	58	38.1	9.53	42.3	26	26	32
412528R	10	125	58	38.1	9.53	42.3	28	28	32
416022R	12	160	58	38.1	9.53	42.3	22	22	49
416024R	12	160	58	38.1	9.53	42.3	24	24	49
416026R	12	160	58	38.1	9.53	42.3	26	26	49
416028R	12	160	58	38.1	9.53	42.3	28	28	49

Available inserts

LNEX-MM LNMX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		ST30A	G10	H01
LNEX 151008PNR-MM								●			●	●	●				E11
151008PNL-MM											●	●	●				
LNMX 151008PNR-MM								●	●	●	●	●	●				
151008PNL-MM									●		●	●					

Available arbors

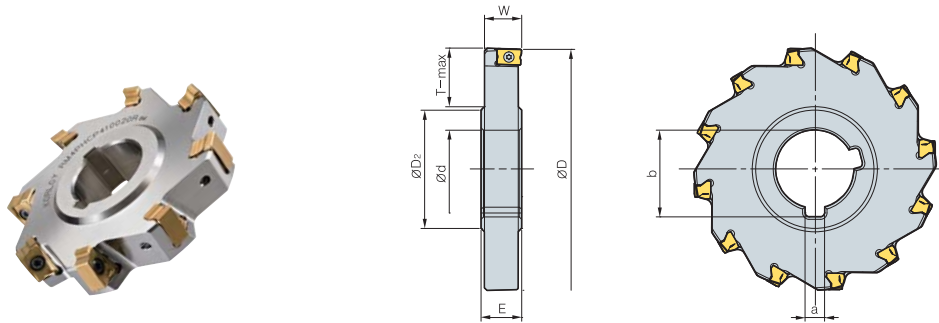
Designation	Available arbors	Designation	Available arbors
RM4PFCP 408022R	BT□□-SCA25.4-□□	RM4PFCP 412522R	BT□□-SCA38.1-□□
408024R			
408026R			
408028R			
410022R	BT□□-SCA31.75-□□	412526R	
410024R			
410026R			
410028R			
		412528R	
		416022R	
		416024R	
		416026R	
		416028R	

Parts

Specification	Screw	Wrench
Ø80~Ø160	FTKA0412B	TW15S

Available inserts E11 Available arbors and bolt E371-E373

RM4PHCP3000



(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	W	T-max	
RM4PHCP	308015R	10	80	41.5	25.4	6.35	28	16.5	15.1	17
	310015R	12	100	48	31.75	7.94	35.2	16.5	15.1	24
	312515R	14	125	58	38.1	9.52	42.3	16.5	15.1	32
	316015R	16	160	58	38.1	9.52	42.3	16.5	15.1	49

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC8510	PC5300	PC5400		ST30A	G10	H01
L NEX	100605PNR-MF																E10 E11
	100605PNR-MM							●			●	●	●				
	100605PNR-MA															●	
	100608PNR-MF							●			●	●	●				
	100608PNR-MM										●	●	●				
L NMX	100605PNR-MF								●		●	●	●				
	100605PNR-MM							●	●	●	●	●	●				
	100608PNR-MF								●		●	●	●				
	100608PNR-MM							●	●			●					

Available arbors

Designation	Available arbors
RM4PHCP 308015R	BT□□ -SCA25.4-□□
310015R	BT□□ -SCA31.75-□□
312515R	BT□□ -SCA38.1-□□
316015R	

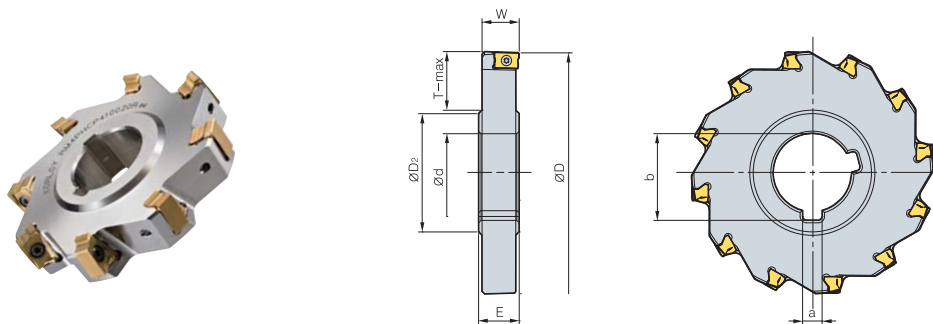
Parts

Specification		
Ø80-Ø160	FTKA0307	TW09S

Available inserts E10, E11 Available arbors and bolt E371-E373



RM4PHCP4000



(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	W	T-max	
RM4PHCP	408020R	6	80	41.5	25.4	6.35	28	22	19.8	17
	410020R	8	100	48	31.75	7.94	35.2	22	19.8	24
	412520R	10	125	58	38.1	9.53	42.3	22	19.8	32
	416020R	12	160	58	38.1	9.53	42.3	22	19.8	49

Available inserts

		LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM						
Designation		Cermet		Coated						Uncoated			page			
		CN2000	CN80	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510		PC3300	PC5400	ST30A
LNEX	151004PNR-MF										•	•	•			
	151004PNR-MM											•	•	•		
	151004PNR-MA															
	151008PNR-MF										•	•	•			
	151008PNR-MM								•			•	•	•		
	151008PNR-MA															
	151016PNR-MF											•	•	•		
	151016PNR-MM											•	•	•		
LNMX	151004PNR-MF								•		•	•	•			
	151004PNR-MM										•	•	•			
	151008PNR-MF								•	•		•	•	•		
	151008PNR-MM								•	•		•	•	•		
	151016PNR-MF									•	•		•	•		
	151016PNR-MM									•	•		•	•		

Available arbors

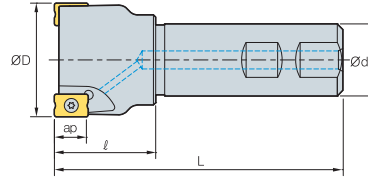
Designation	Available arbors
RM4PHCP 408020R	BT□□-SCA25.4-□□
410020R	BT□□-SCA31.75-□□
412520R	
416020R	BT□□-SCA38.1-□□

Parts

Specification		
Ø80~Ø160	FTKA0412B	TW15S

Available inserts E10, E11 Available arbors and bolt E371~E373

RM4PS3000



AA 90°
 • AR: -6°
 • RR: -39° ~ -16°

(mm)

Designation	Flutes	ØD	Ød	ℓ	L	ap	kg
RM4PS	3014HR-S16	1	14	16	23	90	0.11
	3016HR-S16	1	16	16	25	90	0.11
	3018HR-S16	2	18	16	23	90	0.12
	3020HR-S20	2	20	20	30	100	0.21
	3020HR-S20M	3	20	20	30	100	0.21
	3025HR-S25	2	25	25	35	115	0.38
	3025HR-S25M	3	25	25	35	115	0.38
	3032HR-S32	3	32	32	40	125	0.69
	3032HR-S32M	4	32	32	40	125	0.7
	3040HR-S32	4	40	32	42	130	0.86
	3040HR-S32M	5	40	32	42	130	0.85
	3040HR-S40	4	40	40	42	130	1.17
	3040HR-S40M	5	40	40	42	130	1.17
	3040HR-S42	4	40	42	42	130	1.26
	3040HR-S42M	5	40	42	42	130	1.25
	3050HR-S32	5	50	32	45	135	1.06
	3050HR-S32M	7	50	32	45	135	1.05
	3050HR-S40	5	50	40	45	135	1.38
	3050HR-S40M	7	50	40	45	135	1.37
	3050HR-S42	5	50	42	45	135	1.48
3050HR-S42M	7	50	42	45	135	1.48	

Available inserts



Designation	Cermet		Coated								Uncoated			page		
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3800	PC3830	PC6510	PC5300	PC5400		ST30A	G10
LNEX	100605PNR-MF							●			●	●	●			
	100605PNR-MM							●			●	●	●			
	100605PNR-MA															●
	100605PNL-MM										●	●	●			
	100608PNR-MF							●				●	●	●		
100608PNR-MM											●	●	●			
LNMX	100605PNR-MF							●			●	●	●			
	100605PNR-MM							●		●	●	●	●			
	100605PNL-MM							●			●	●	●			
	100608PNR-MF							●			●	●	●			
	100608PNR-MM							●	●			●	●			

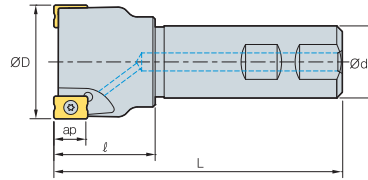
Parts

Specification	Screw	Wrench
Ø14-Ø50	FTKA0307	TW09S

Available inserts E10, E11



RM4PS4000



• AR: -6°
• RR: -24° ~ -14°

(mm)

Designation	Inserts	ØD	Ød	l	L	ap	Weight (kg)
RM4PS	4032HR-S32	2	32	32	40	125	0.68
	4032HR-S32M	3	32	32	40	125	0.69
	4040HR-S32	3	40	32	42	125	0.83
	4040HR-S32M	4	40	32	43	125	0.83
	4040HR-S40	3	40	40	42	125	1.14
	4040HR-S42	3	40	42	42	125	1.23
	4050HR-S32	3	50	32	45	125	1.02
	4050HR-S32M	4	50	32	45	125	1.02
	4050HR-S40	3	50	40	45	125	1.35
	4050HR-S40M	4	50	40	45	125	1.34
	4050HR-S42	3	50	42	45	125	1.45
	4050HR-S42M	4	50	42	45	125	1.45
	4063HR-S32	4	63	32	45	125	1.25
	4063HR-S32M	6	63	32	45	125	1.24
	4063HR-S40	4	63	40	45	125	1.62
	4063HR-S40M	6	63	40	45	125	1.61
4063HR-S42	4	63	42	45	125	1.71	
4063HR-S42M	6	63	42	45	125	1.7	

Available inserts



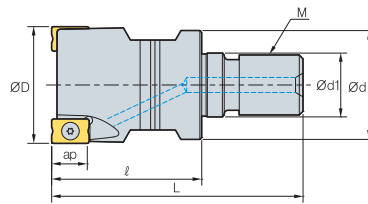
Designation	Cermet		Coated								Uncoated			page		
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC5530	PC6510	PC5300	PC5400		ST30A	G10
LNEX	151004PNR-MF										●	●	●			
	151004PNR-MM										●	●	●			
	151004PNR-MA															●
	151008PNR-MF										●	●	●			
	151008PNR-MM							●			●	●	●			
	151008PNR-MA															●
LNMX	151016PNR-MF										●	●	●			
	151016PNR-MM										●	●	●			
	151004PNR-MF								●		●	●	●			
	151004PNR-MM										●	●	●			
	151008PNR-MF							●	●		●	●	●			
	151008PNR-MM							●	●	●	●	●	●			
151016PNR-MF							●	●	●	●	●	●				
151016PNR-MM							●	●	●	●	●	●				

Parts

Specification	Screw	Wrench
Ø32~Ø63	FTKA0412B	TW15S

Available inserts E10, E11

RM4PM3000



(mm)

Designation	⚙️	ØD	Ød	Ød1	ℓ	L	M	ap	⚖️
RM4PM 3014HR-M06	1	14	12	6.5	25	40	M06	9.0	0.02
3016HR-M08	1	16	14.5	8.5	25	42	M08	9.0	0.02
3018HR-M08	2	18	14.5	8.5	25	42	M08	9.0	0.03
3020HR-M10	2	20	18	10.5	30	51	M10	9.0	0.06
3025HR-M12	2	25	23	12.5	35	59	M12	9.0	0.11
3032HR-M16	3	32	28	17	40	67	M16	9.0	0.21
3040HR-M16	4	40	28	17	40	67	M16	9.0	0.26
3050HR-M16	5	50	30	17	45	72	M16	9.0	0.41

Available inserts

		LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM						
Designation		Cermet		Coated								Uncoated		page		
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300		PC5400	ST30A
LNEX	100605PNR-MF										●	●	●			
	100605PNR-MM										●	●	●			
	100605PNR-MA															●
	100605PNL-MM										●	●	●			
	100608PNR-MF										●	●	●			
LNMX	100608PNR-MM										●	●	●			
	100605PNR-MF									●	●	●	●			
	100605PNR-MM									●	●	●	●			
	100605PNL-MM									●	●	●	●			
	100608PNR-MF									●	●	●	●			
100608PNR-MM									●	●	●	●				

Available adaptor

Designation	Available adaptor
RM4PM 3014HR-M06	MAT-M06
3016HR-M08	MAT-M08
3018HR-M08	MAT-M08
3020HR-M10	MAT-M10
3025HR-M12	MAT-M12
3032HR-M16	MAT-M16
3040HR-M16	MAT-M16
3050HR-M16	MAT-M16

Designation: RM4PM3032HR-M16
Modular Head Threading Measure size (M16)

||

Adaptor spec.: MAT-M16-035-S32S
Adaptor Threading Measure (M16)

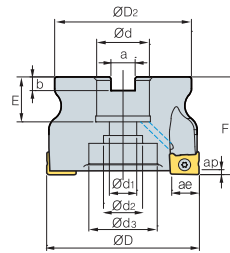
Parts

Specification		
Ø14~Ø50	FTKA0307	TW09S

Available inserts E10, E11 Available adaptor E342-E343



RM4ZC(M)3000/4000



AA
90°

• AR: -11°
• RR: -12°~-10°

(mm)

Designation	齿数	ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	ae	kg	
RM4ZCM	3040HR	4	40	37	16	9	14	-	8.4	5.6	19	40	1.5	9.0	0.21
	3050HR	5	50	47	22	11	18	-	10.4	6.3	20	40	1.5	9.0	0.33
	3052HR	5	52	48	22	11	18	-	10.4	6.3	20	40	1.5	9.0	0.37
	4063HR	5	63	58	22	11	18	-	10.4	6.3	20	40	2.5	14.0	0.56
RM4ZC (RM4ZCM)	4066HR	5	66	61	25.4 (27)	14	20	-	9.5 (12.4)	6 (7)	25	50	2.5	14.0	0.74
	4080HR	6	80	70	25.4 (27)	14	20	35	9.5 (12.4)	6 (7)	25 (23)	50	2.5	14.0	1.09
	4100HR	7	100	80	31.75 (32)	18	26	42	12.7 (14.4)	8 (8)	25 (33)	63 (50)	2.5	14.0	1.71

() Metric size

Available inserts

LNEX-MM LNMX-MM



Designation	Cermet		Coated										Uncoated			page
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400	ST30A	G10	
3000 type	LNEX	100605PNL-MM														
	LNMX	100605PNL-MM						●	●		●	●	●			
4000 type	LNEX	151008PNL-MM									●	●	●			
	LNMX	151008PNL-MM							●			●	●			

E11

Available arbors

Designation	Available arbors	
	RM4ZC	RM4ZCM
RM4ZCM	3040HR	BT□□ -FMC16-□□ BT□□ -SCA16-□□
		BT□□ -FMC22-□□
	3050HR 3052HR	BT□□ -FMC22-□□
RM4ZCM	4063HR	BT□□ -FMC22-□□
RM4ZC(M)	4066HR	BT□□ -FMA25.4-□□
	4080HR	BT□□ -FMA31.75-□□ BT□□ -SCA31.75-□□
	4100HR	BT□□ -FMC27-□□ BT□□ -FMC32-□□

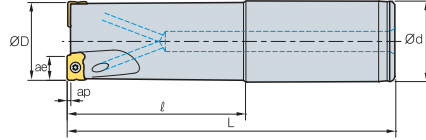
Parts

Specification	Screw	Wrench
Ø40~Ø52	FTKA0307	TW09S
Ø63~Ø100	FTKA0412B	TW15S

Available inserts E11 Available arbors and bolt E371-E373



RM4ZS3000

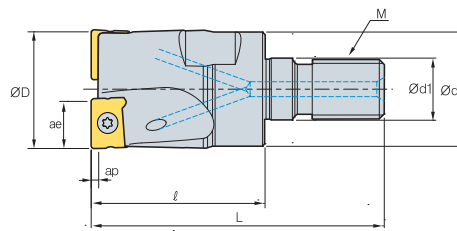


AA 90°
 • AR: -11°
 • RR: -17°~ -14°

(mm)

Designation			ØD	Ød	l	L	ap	ae	
RM4ZS	3025HR-L25	2	25	25	120	200	1.5	9.0	0.62
	3032HR-L32	3	32	32	120	210	1.5	9.0	1.13
	3040HR-L32	4	40	32	120	250	1.5	9.0	1.53

RM4ZM3000



AA 90°
 • AR: -11°
 • RR: -17°~ -14°

(mm)

Designation			ØD	Ød	Ød1	l	L	M	ap	ae	
RM4ZM	3025HR-M12	2	25	23	12.5	35	59	M12	1.5	9.0	0.11
	3032HR-M16	3	32	29	17	40	67	M16	1.5	9.0	0.21
	3040HR-M16	4	40	29	17	40	67	M16	1.5	9.0	0.28

Available inserts

LNEX-MM LNMX-MM



Designation	Cermet		Coated							Uncoated			page				
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300		PC5400	ST30A	G10	H01
LNEX 100605PNL-MM											●	●	●				E11
LNMX 100605PNL-MM								●	●		●	●	●				

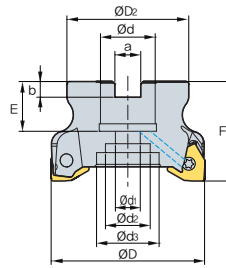
Parts

Specification		
Ø25~Ø40	FTKA0307	TW09S

Available inserts E11



RM6PCM-WN04 new



AA 90°
 • AR: -6°
 • RR: -14°~ -11°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap		
RM6PCM 040R-16-6-WN04	6	40	35	16	9	14	-	8.4	5.6	19	40	4.3	0.19
040R-16-7-WN04	7	40	35	16	9	14	-	8.4	5.6	19	40	4.3	0.19
050R-22-8-WN04	8	50	42	22	11	18	-	10.4	6.3	20	40	4.3	0.28
050R-22-9-WN04	9	50	42	22	11	18	-	10.4	6.3	20	40	4.3	0.28
063R-22-10-WN04	10	63	49	22	11	18	-	10.4	6.3	20	40	4.3	0.47
063R-22-11-WN04	11	63	49	22	11	18	-	10.4	6.3	20	40	4.3	0.47

Available inserts

WNGX-MA WNGX-ML WNGX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN80	NC6330	NC5340	NC6350	PC2505	PC2510	PC3500	PC3600	PC8530	PC8510	PC5300	PC5400		ST30A	G10	H01
WNGX 040304PNFR-MA																	E28
040308PNFR-MA																	
040312PNFR-MA																	
040316PNFR-MA																	
WNGX 040304PNER-ML																	
040308PNER-ML																	
040312PNER-ML																	
040316PNER-ML																	
WNGX 040304PNSR-MM																	
040308PNSR-MM																	
040312PNSR-MM																	
040316PNSR-MM																	

Available arbors

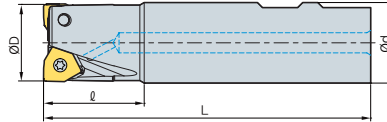
Designation	NC arbors
RM6PCM 040R-16-6-WN04	BT□□-FMC16-□□
040R-16-7-WN04	
050R-22-8-WN04	BT□□-FMC22-□□
050R-22-9-WN04	
063R-22-10-WN04	
063R-22-11-WN04	

Parts

Specification			
Ø40~Ø63	ETNA02506	TW07S	-

Available inserts E28 Available arbors and bolt E371~E373

RM6PS-WN04 new



AA
90°

• AR: -6°
• RR: -32°~ -21°

(mm)

Designation		ØD	Ød	ℓ	L	ap	
RM6PS	020R-2W20-110-WN04	2	20	20	35	110	0.22
	020R-3W20-110-WN04	3	20	20	35	110	0.22
	025R-3W25-110-WN04	3	25	25	35	110	0.36
	025R-4W25-110-WN04	4	25	25	35	110	0.35
	032R-5W32-110-WN04	5	32	32	35	110	0.60
	025R-6W32-110-WN04	6	32	32	35	110	0.60

Available inserts

WNGX-MA

WNGX-ML

WNGX-MM



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400	ST30A	G10		H01
WNGX	040304PNFR-MA																
	040308PNFR-MA																
	040312PNFR-MA																
	040316PNFR-MA																
WNGX	040304PNER-ML																
	040308PNER-ML																
	040312PNER-ML																
	040316PNER-ML																
WNGX	040304PNSR-MM																
	040308PNSR-MM																
	040312PNSR-MM																
	040316PNSR-MM																

E28

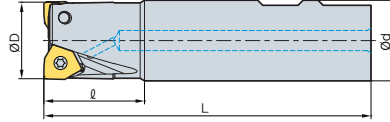
Parts

Specification			
Ø20-Ø32	ETNA02506	TW07S	-

Available inserts E28



RM6PS-WN08 new



(mm)

Designation		ØD	Ød	ℓ	L	ap	
RM6PS	032R-2W32-120-WN08	3	32	32	40	120	0.65
	040R-3W32-120-WN08	3	40	32	40	120	0.69
	040R-4W32-120-WN08	4	40	32	40	120	0.69
	050R-4W32-120-WN08	4	50	32	40	120	0.76
	050R-5W32-120-WN08	5	50	32	40	120	0.76

Available inserts



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10		H01
WNGX 080604PNFR-MA	080604PNFR-MA																
	080608PNFR-MA																●
	080612PNFR-MA																
	080616PNFR-MA																
	080620PNFR-MA																
WNGX 080604PNER-ML	080604PNER-ML								●			●	●				
	080608PNER-ML								●			●	●				
	080612PNER-ML																
	080616PNER-ML																
	080620PNER-ML																
WNGX 080604PNSR-MM	080604PNSR-MM								●			●					
	080608PNSR-MM								●			●					
	080612PNSR-MM																
	080616PNSR-MM																
	080620PNSR-MM																

E28

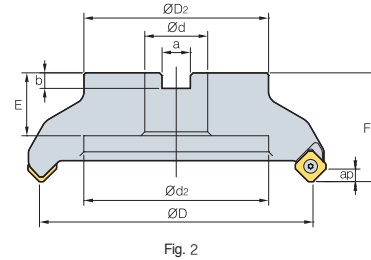
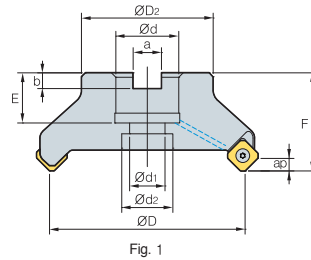
Parts

Specification			
Ø32-Ø50	FTNA0512	-	TW20-100

Available inserts E28



RM8AC(M)4000



(mm)

Designation	⚙️	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	⚖️	Fig.	
RM8ACM	4050HR-M	4	50	49	22	11	18	10.4	6.3	20	40	6.0	0.5	1
	4050HR-H	6	50	49	22	11	18	10.4	6.3	20	40	6.0	0.5	1
	4063HR-M	6	63	49	22	11	18	10.4	6.3	20	40	6.0	0.7	1
	4063HR-H	8	63	49	22	11	18	10.4	6.3	20	40	6.0	0.7	1
RM8AC (RM8ACM)	4080HR	5	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	6.0	1.2	1
	4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	6.0	1.2	1
	4080HR-H	10	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	6.0	1.3	1
	4100HR	6	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	6.0	1.7	1
	4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	6.0	1.7	1
	4100HR-H	12	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	6.0	1.7	1
	4125HR	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	6.0	3.6	1
	4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	6.0	3.6	1
	4125HR-H	16	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	6.0	3.7	1
	4160R	10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	6.0	4.8	2
	4160R-M	12	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	6.0	5.3	2
	4160R-H	20	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	6.0	5.4	2
	4200R-M	14	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	6.0	7.1	2
	4200R-H	24	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	6.0	7.1	2
	4250R-M	16	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38 (32)	63	6.0	11.9	2
	4250R-H	30	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38 (32)	63	6.0	12.0	2
4315R	18	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	6.0	18.8 (18.6)	2	
4315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	6.0	18.8 (18.6)	2	
4400R-M	28	400	260	47.625 (60)	-	238	25.4 (25.7)	14	38	80	6.0	37.7 (37.4)	2	

() Metric size

Available inserts

SNEX-MF SNEX-ML SNEX-MM SNEX-MA SNEX-W SNMX-MF SNMX-MM



Designation	Cermat		Coated						Uncoated		page		
	CN2000 CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC6510	PC5300		PC5400	ST30A G10
SNEX 1206ANN-MF							●	●	●	●			E22
1206ANN-ML							●	●	●	●			
1206ANN-MM		●					●	●	●	●			
1206ANN-MA							●	●	●	●		●	
1206ANN-W							●	●	●	●			
SNMX 1206ANN-MF							●	●	●	●			
1206ANN-MM		●					●	●	●	●			

Available arbors

Designation	Available arbors	
	RM8AC	RM8ACM
RM8ACM 4050HR-□	-	BT□□-FMC22-□□
4063HR-□		
RM8AC 4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
(RM8ACM) 4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□		
4250R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
4315R-□		
4400R-□		

Parts

Specification	Screw	Wrench
Ø50~Ø400	FTKA0410	TW15S

Available inserts E22, E23

Available arbors and bolt E371~E373



RMH8AC(M)4000

Shim type

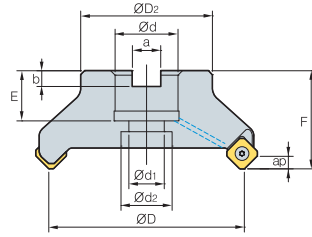


Fig. 1

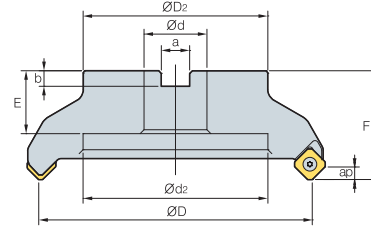


Fig. 2



AA
45°

• AR: -6°
• RR: -9°~-6°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap		Fig.	
RMH8AC (RMH8ACM) 4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	25 (23)	50	6.0	6.0	1.2	1
4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	33 (25.5)	63 (50)	6.0	6.0	1.7	1
4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	36 (30)	63	6.0	6.0	3.6	1
4160R-M	12	160	107	50.8 (40)	-	107	19 (16.4)	38 (32)	63	6.0	6.0	5.3	2
4200R-M	14	200	130	47.625 (60)	-	135	25.4 (25.7)	38 (32)	63	6.0	6.0	7.1	2
4250R-M	16	250	180	47.625 (60)	-	180	25.4 (25.7)	38 (32)	63	6.0	6.0	11.9	2
4315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	38	63	6.0	6.0	18.8 (18.6)	2
4400R-M	26	400	260	47.625 (60)	-	238	25.4 (25.7)	38	80	6.0	6.0	37.7 (37.4)	2

()Metric size

Available inserts

		SNEX-MF	SNEX-ML	SNEX-MM	SNEX-MA	SNEX-W	SNMX-MF	SNMX-MM										
Designation		Cermet		Coated						Uncoated			page					
		CN2000	CN80	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510		PC5300	PC5400	ST30A	G10	H01
SNEX	1206ANN-MF							●	●		●	●	●					E22 E23
	1206ANN-ML										●	●	●					
	1206ANN-MM			●					●	●	●	●	●					
	1206ANN-MA																●	
	1206ANN-W								●		●	●	●					
SNMX	1206ANN-MF								●	●	●	●	●					
	1206ANN-MM			●					●	●	●	●	●					

Available arbors

Designation	Available arbors	
	RMH8AC	RMH8ACM
RMH8AC (RMH8ACM) 4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□		
4250R-□		
4315R-□		
4400R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

Specification				
Ø80~Ø400	FTKA0412B	SS42RM8	SHXN0609F	TW15S

Available inserts E22, E23 Available arbors and bolt E371~E373



RM8AC(M)5000

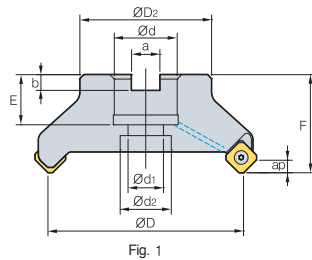


Fig. 1

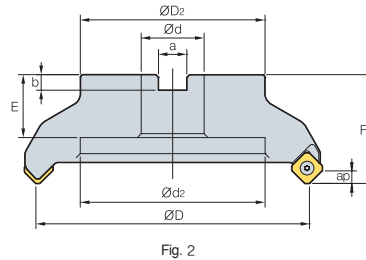


Fig. 2



AA
45°

• AR: -6°
• RR: -9°~-6°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	$\frac{a}{kg}$	Fig.		
RM8AC (RM8ACM)	5080HR-M	6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	7.5	1.2	1
	5100HR-M	7	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0	33 (25)	63 (50)	7.5	2.5 (1.8)	1
	5125HR-M	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (30)	63	7.5	3.6	1
	5160R-M	10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	7.5	5 (4.56)	2
	5200R-M	12	200	130	47.625 (60)	-	135	25.4 (25.7)	14.0	38	63	7.5	7.1 (6.8)	2
	5250R-M	15	250	180	47.625 (60)	-	180	25.4 (25.7)	14.0	38	63	7.5	11.9 (10.6)	2
	5315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14.0	38	63	7.5	19.1 (18.9)	2
	5400R-M	28	400	260	47.625 (60)	-	238	25.4 (25.7)	14.0	38	80	7.5	37.7 (37.5)	2

() Metric size

Available inserts

Designation	SNEX-MF		SNEX-ML		SNEX-MM		SNMX-MF		SNMX-MM		page						
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530		PC8510	PC5300	PC5400	ST30A	G10	H01
SNEX	1507ANN-MF																E22
	1507ANN-ML																
	1507ANN-MM																
SNMX	1507ANN-MF																E23
	1507ANN-MM																

Available arbors

Designation	Available arbors	
	RM8AC	RM8ACM
5080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
5100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
5125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
5160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
5200R-□		
5250R-□		
5315R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
5400R-□		

Parts

Specification	Screw	Wrench
Ø80~Ø400	FTGA0513	TW20-100

Available inserts E22, E23

Available arbors and bolt E371~E373



RMH8AC(M)5000

Shim type

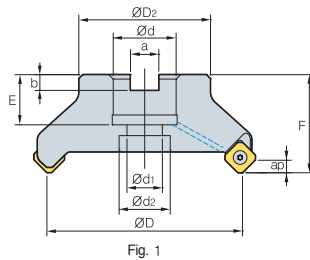


Fig. 1

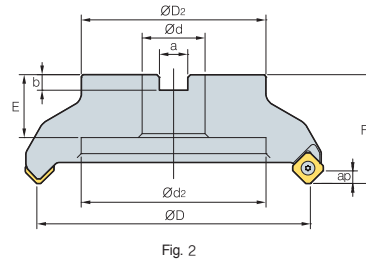


Fig. 2



AA
45°

• AR: -6°
• RR: -9°~-6°

(mm)

Designation	ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap	kg	Fig.	
RMH8AC													
(RMH8ACM) 5080HR-M	6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	7.5	1.2	1
5100HR-M	7	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0	33 (25)	63 (50)	7.5	2.5 (1.8)	1
5125HR-M	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	7.5	3.6	1
5160R-M	10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	7.5	5 (4.56)	2
5200R-M	12	200	130	47.625 (60)	-	135	25.4 (25.7)	14.0	38 (32)	63	7.5	7.1 (6.8)	2
5250R-M	15	250	180	47.625 (60)	-	180	25.4 (25.7)	14.0	38 (32)	63	7.5	11.9 (10.6)	2
5315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14.0	38	63	7.5	19.1 (18.9)	2
5400R-M	22	400	260	47.625 (60)	-	238	25.4 (25.7)	14.0	38	80	7.5	37.7 (37.5)	2

()Metric size

Available inserts

		SNEX-MF		SNEX-ML		SNEX-MM		SNMX-MF		SNMX-MM							
Designation		Cermet		Coated						Uncoated			page				
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510		PC5300	PC5400	ST30A	G10
SNEX	1507ANN-MF										●	●	●				E22
	1507ANN-ML											●	●				
	1507ANN-MM											●	●				
SNMX	1507ANN-MF								●		●	●	●				E23
	1507ANN-MM							●	●		●	●	●				

Available arbors

Designation	Available arbors	
	RMH8AC	RMH8ACM
5080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
5100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
5125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
5160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
5200R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
5250R-□		
5315R-□		
5400R-□		

Parts

Specification				
Ø80~Ø400	FTGA0513	SS53RM8	SHXN0712F	TW20-100

➔ Available inserts E22, E23 ➔ Available arbors and bolt E371-E373



RM8EC(M)4000

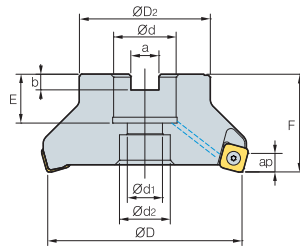


Fig. 1

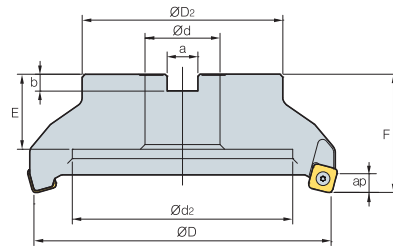


Fig. 2



AA
75°

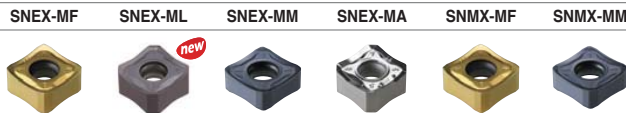
• AR: -6°
• RR: -8°~ -6°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	r_{eq}	Fig.	
RM8ECM													
4050HR-M	4	50	49	22	11	18	10.4	6.3	20	40	9.0	0.4	1
4063HR-M	6	63	49	22	11	18	10.4	6.3	20	40	9.0	0.6	1
RM8EC (RM8ECM)													
4080HR	5	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	9.0	1.2	1
4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	9.0	1.1	1
4100HR	6	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25)	63 (50)	9.0	1.6	1
4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25)	63 (50)	9.0	2.5	1
4125HR	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (29)	63	9.0	2.9 (3.3)	1
4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (29)	63	9.0	3.0	1
4160R	10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	9.0	4.4	2
4160R-M	12	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	9.0	4.0	2
4200R-M	16	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	9.0	5.9	2
4250R-M	16	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38	63	9.0	10.9 (10.6)	2
4315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	9.0	18.1 (17.9)	2
4400R-M	28	400	260	47.625 (60)	-	238	25.4 (25.7)	14	38	80	9.0	31.8 (31.5)	2

Available inserts

() Metric size



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC6300	PC5400		ST30A	G10	H01
SNEX																	
1206ENN-MF								●	●			●	●				
1206ENN-ML								●	●			●	●				
1206ENN-MM								●	●			●	●				
1206ENN-MA																	●
SNMX																	
1206ENN-MF								●	●			●	●				
1206ENN-MM								●	●			●	●				

Available arbors

Designation	NC arbors	
	RM8EC	RM8ECM
RM8ECM		
4050HR-□	-	BT□□-FMC22-□□
4063HR-□		
RM8EC (RM8ECM)		
4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□		
4250R-□		
4315R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
4400R-□		

Parts

Specification	Screw	Wrench
Ø50~Ø400	PTKA0411-R3	TW15S

Available inserts E22, E23

Available arbors and bolt E371~E373



RMH8EC(M)4000

Shim type

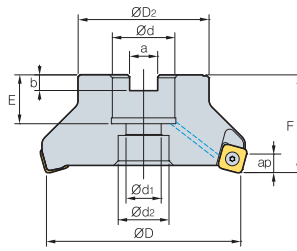


Fig. 1

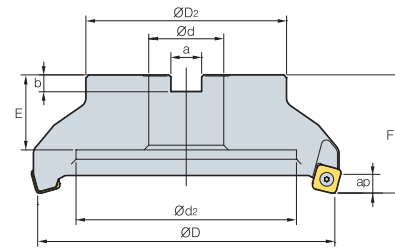


Fig. 2



AA
75°

• AR: -6°
• RR: -8°~-6°

(mm)

Designation	ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap	kg	Fig.	
RMH8EC													
(RMH8ECM)													
4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	9.0	1.1	1
4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	9.0	2.5	1
4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	9.0	3.0	1
4160R-M	12	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	9.0	4.0	2
4200R-M	16	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	9.0	5.9	2
4250R-M	16	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38 (32)	63	9.0	10.9 (10.6)	2
4315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	9.0	18.1 (17.9)	2
4400R-M	24	400	260	47.625 (60)	-	238	25.4 (25.7)	14	38	80	9.0	31.8 (31.5)	2

()Metric size

Available inserts

SNEX-MF

SNEX-ML

SNEX-MM

SNEX-MA

SNMX-MF

SNMX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		ST30A	G10	H01
SNEX 1206ENN-MF								●	●		●	●	●				E22
1206ENN-ML												●	●				
1206ENN-MM								●	●		●	●	●				
1206ENN-MA											●				●		
SNMX 1206ENN-MF								●	●		●	●	●				
1206ENN-MM								●	●		●	●	●				

Available arbors

Designation	Available arbors	
	RMH8EC	RMH8ACM
RMH8EC 4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
(RMH8ECM) 4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□		
4250R-□		
4315R-□		
4400R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

Specification	Screw	Shim	Shim screw	Wrench
Ø80~Ø400	PTKA0411-R3	SS42RM8	SHXN0609F	TW15S

Available inserts E22, E23 Available arbors and bolt E371~E373



RM8EC(M)5000

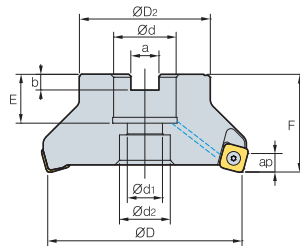


Fig. 1

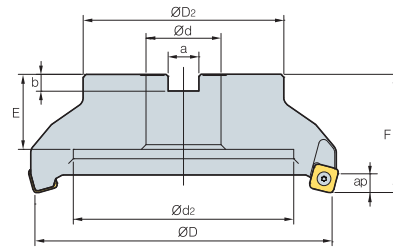


Fig. 2



AA
75°

• AR: -6°
• RR: -8°~ -6°

(mm)

Designation		ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		Fig.
RM8EC													
(RM8ECM)													
5080HR-M		6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	11.0	1
5100HR-M		7	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0	33 (25)	63 (50)	11.0	1
5125HR-M		8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (30)	63	11.0	1
5160R-M		10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	11.0	2
5200R-M		12	200	130	47.625 (60)	-	135	25.4 (25.7)	14.0	38	63	11.0	2
5250R-M		15	250	180	47.625 (60)	-	180	25.4 (25.7)	14.0	38	63	11.0	2
5315R-M		20	315	240	47.625 (60)	-	238	25.4 (25.7)	14.0	38	63	11.0	2
5400R-M		28	400	260	47.625 (60)	-	238	25.4 (25.7)	14.0	38	80	11.0	2

() Metric size

Available inserts

		SNEX-MF		SNEX-ML		SNEX-MM		SNMX-MF		SNMX-MM							
Designation		Cermet		Coated						Uncoated			page				
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC6510		PC5300	PC5400	ST30A	G10
SNEX	1507ENN-MF										●	●	●				E22
	1507ENN-ML											●	●				
	1507ENN-MM											●	●				
SNMX	1507ENN-MF								●		●	●	●				E23
	1507ENN-MM								●		●	●	●				

Available arbors

Designation	Available arbors	
	RM8EC	RM8ECM
5080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
5100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
5125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
5160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
5200R-□		
5250R-□		
5315R-□		
5400R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

Specification		
Ø80~Ø400	FTGA0513	TW20-100

Available inserts E22, E23

Available arbors and bolt E371~E373



RMH8EC(M)5000

Shim type

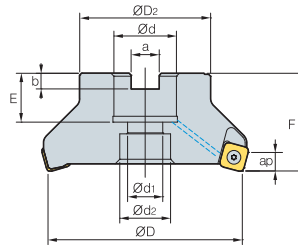


Fig. 1

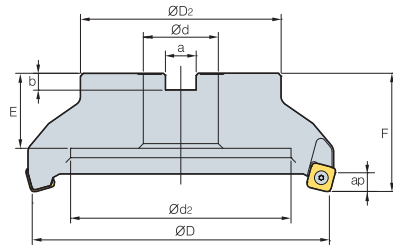


Fig. 2



AA
75°

• AR: -6°
• RR: -8°~-6°

(mm)

Designation	ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap	kg	Fig.		
RMH8EC (RMH8ECM)	5080HR-M	6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	11.0	1.1	1
	5100HR-M	7	100	67	31.75 (32)	18	26	12.7 (14.4)	8.0	33 (25.5)	63 (50)	11.0	2.1 (1.7)	1
	5125HR-M	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	11.0	3.4 (3.3)	1
	5160HR-M	10	160	107	50.8 (60)	-	107	19 (16.4)	11 (9)	38 (32)	63	11.0	4.4 (4.1)	2
	5200R-M	12	200	130	47.625 (60)	-	135	25.4 (25.7)	14.0	38 (32)	63	11.0	6.4 (6.1)	2
	5250R-M	15	250	180	47.625 (60)	-	180	25.4 (25.7)	14.0	38 (32)	63	11.0	110 (10.7)	2
	5315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14.0	38	63	11.0	18.0 (17.7)	2
	5400R-H	22	400	260	47.625 (60)	-	238	25.4 (25.7)	14.0	38	80	11.0	35.7 (35.4)	2

() Metric size

Available inserts

SNEX-MF

SNEX-ML

SNEX-MM

SNMX-MF

SNMX-MM



Designation	Cermet		Coated							Uncoated			page				
	CN2000	CN30	NCS330	NCS340	NCS350	PC2505	PC2510	PC3500	PC3600	PC3630	PC3510	PC5000		PC5400	ST30A	G10	H01
SNEX	1507ENN-MF										●	●	●				E22
	1507ENN-ML											●	●				
	1507ENN-MM										●	●	●				
SNMX	1507ENN-MF								●		●	●	●				E23
	1507ENN-MM								●		●	●	●				

Available arbors

Designation	Available arbors	
	RMH8EC	RMH8ECM
RMH8EC (RMH8ECM)	5080HR-□ BT□□-FMA25.4-□□	BT□□-FMC27-□□
	5100HR-□ BT□□-FMA31.75-□□	BT□□-FMC32-□□
	5125HR-□ BT□□-FMA38.1-□□	BT□□-FMB40-□□
	5160R-□ BT□□-FMA50.8-□□	BT□□-FMC40-□□
	5200R-□	
	5250R-□	
	5315R-□ BT□□-FMA47.625-□□	BT□□-FMB60-□□
	5400R-□	

Parts

Specification	Screw	Shim	Shim screw	Wrench
Ø80~Ø400	FTGA0513	SS53RM8	SHXN0712F	TW20-100

Available inserts E22, E23 Available arbors and bolt E371~E373



RM8QC(M)4000

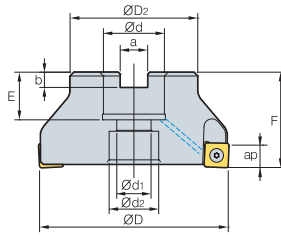


Fig. 1

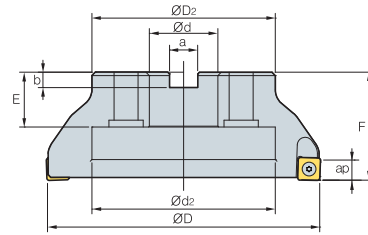


Fig. 2



AA
88°

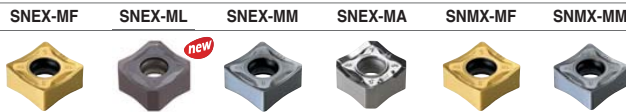
• AR: -6°
• RR: -8°~-6°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	Fig.			
RM8QCM	4063HR-M	6	63	49	22	11	18	10.4	6.3	20	40	11.5	0.6	1
	4063HR-H	8	63	49	22	11	18	10.4	6.3	20	40	11.5	0.6	1
RM8QC (RM8QCM)	4080HR-M	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	11.5	1.1	1
	4080HR-H	10	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	11.5	1.0	1
	4100HR-M	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	11.5	1.7	1
	4100HR-H	12	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	11.5	1.6	1
	4125HR-M	10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	11.5	3.3	1
	4125HR-H	14	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	11.5	3.3	1
	4160R-M	12	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	11.5	3.9	2
	4160R-H	18	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	11.5	3.9	2
	4200R-M	14	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	11.5	6.4	2
	4200R-H	22	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	11.5	6.4	2

Available inserts

() Metric size



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3800	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
SNEX	1206QNN-MF							●			●	●	●				E22 E23
	1206QNN-ML										●	●	●				
	1206QNN-MM										●	●	●				
	1206QNN-MA															●	
	120612-MF										●	●	●				
	120612-ML											●	●	●			
SNMX	1206QNN-MF							●	●		●	●	●			●	
	1206QNN-MM							●	●		●	●	●				
	120612-MF							●	●		●	●	●				
	120612-MM							●	●		●	●	●				

Available arbors

Designation	Available arbors	
	RM8QC	RM8QCM
RM8QCM 4063HR-□	-	BT□□-FMC22-□□
RM8QC 4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
(RM8QCM) 4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

Specification	Screw	Shim
Ø63~Ø200	PTKA0411-R3	TW15S

Available inserts E22, E23

Available arbors and bolt E371~E373



RMH8QC(M)4000

Shim type

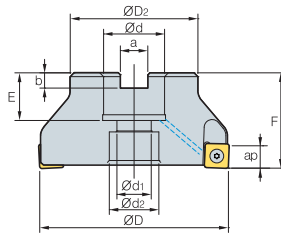


Fig. 1

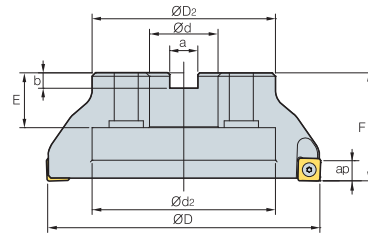


Fig. 2



AA
88°

• AR: -6°
• RR: -8°~-6°

(mm)

Designation	⌚	ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		Fig.	
RMH8QC (RMH8QCM)														
4080HR-M		7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	11.5	1.1	1
4100HR-M		8	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25.5)	63 (50)	11.5	2.5	1
4125HR-M		10	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	36 (30)	63	11.5	3.0	1
4160R-M		12	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	11.5	4.0	2
4200R-M		16	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	11.5	5.9	2

()Metric size

Available inserts

SNEX-MF

SNEX-ML

SNEX-MM

SNEX-MA

SNMX-MF

SNMX-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
SNEX																	
1206QNN-MF																	
1206QNN-ML																	
1206QNN-MM																	
1206QNN-MA																	
120612-MF																	
120612-ML																	
120612-MM																	
120612-MA																	
SNMX																	
1206QNN-MF																	
1206QNN-MM																	
120612-MF																	
120612-MM																	

Available arbors

Designation	Available arbors	
	RMH8AC	RMH8ACM
RMH8QC (RMH8QCM)		
4080HR-□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
4100HR-□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4125HR-□	BT□□-FMA38.1-□□	BT□□-FMB40-□□
4160R-□	BT□□-FMA50.8-□□	BT□□-FMC40-□□
4200R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

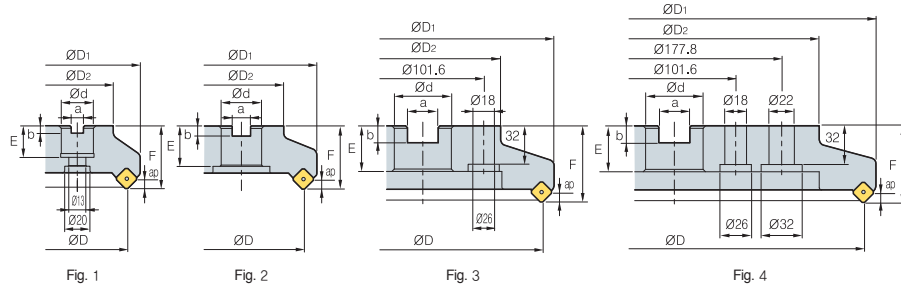
Specification				
Ø80~Ø200	PTKA0411-R3	SS42RM8	SHXN0609F	TW15S

Available inserts E22, E23 Available arbors and bolt E371~E373



E Milling

RMT8A(M)4000



AA
45°
• AR: -6°
• RR: -6°

(mm)

Designation		ØD	ØD1	ØD2	Ød	a	b	E	F	ap	kg	Fig.	
RMT8A (RMT8AM)	4080R	5	80	100	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	4	1.6	1
	4080R-M	6	80	100	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	4	1.6	1
	4100R	6	100	120	70	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	4	2.3	2
	4100R-M	8	100	120	70	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	4	2.3	2
	4125R	8	125	144	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	4	4.3	2
	4125R-M	10	125	144	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	4	4.3	2
	4160R	10	160	179	110	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	4	6.5	2
	4160R-M	14	160	179	110	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	4	6.5	2
	4200R	12	200	219	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	8.8	3
	4200R-M	18	200	219	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	8.8	3
	4250R	16	250	269	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	14.1	3
	4250R-M	22	250	269	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	14.1	3
	4315R	20	315	334	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	22.3	4
	4315R-M	28	315	334	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	4	22.3	4

Available inserts

() Metric size

SNC(M)F-MF SNC(M)F-MM



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN80	NCS330	NCS340	NCS350	PC2505	PC2510	PC3500	PC3600	PC9530	PC8510	PC3300	PC3400	ST30A	G10		H01
SNCF 1206ANN-MF																	E20
SNMF 1206ANN-MF																	E21

Available arbors

Designation	General arbor	NC arbors		
		RMT8A	RMT8AM	
RMT8A(M)	□080R	NT*□□(M/U)-FMA25.4-25	BT**□□-FMA25.4-□□	FMC27
	□100R	NT*□□(M/U)-FMA31.75-□□	BT**□□-FMA31.75-□□	FMC32
	□125R	NT*□□(M/U)-FMA38.1-□□	BT**□□-FMA38.1-□□	FMB40
	□160R	NT*□□(M/U)-FMA50.8-□□	BT**□□-FMA50.8-□□	
	□200R	NT*□□(M/U)-FMA47.625-25, KCP-8***	BT**□□-FMA47.625-□□	FMB60
	□250R			
	□315R	KCP-8*** (Center ring plug)		

*□□-NT number **□□-BT number ***Over milling 5

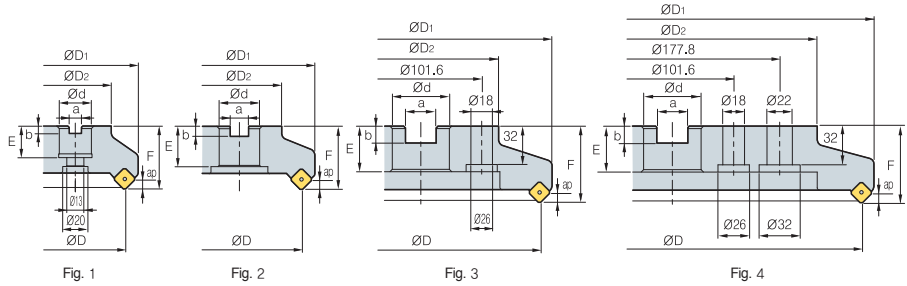
Parts

Specification	Screw	Screw	Spring	Latch	Wrench
Ø80~Ø315	ETKA0523	KHB0417	SPR0315	LTC05SR-FM4	TW20-100

Available inserts E20, E21 Available arbors and bolt E371~E373



RMT8A(M)5000



(mm)

Designation	⊙	ØD	ØD ₁	ØD ₂	Ød	a	b	E	F	ap	kg	Fig.	
RMT8A	5080R	5	80	104	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	6	1.8	1
(RMT8AM)	5080R-M	6	80	104	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	6	1.8	1
	5100R	6	100	124	70	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	6	2.6	2
	5100R-M	8	100	124	70	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	6	2.6	2
	5125R	8	125	149	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	6	4.3	2
	5125R-M	10	125	149	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	6	4.3	2
	5160R	10	160	184	110	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	6	6.5	2
	5160R-M	14	160	184	110	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	6	6.5	2
	5200R	12	200	224	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	9.0	3
	5200R-M	18	200	224	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	9.0	3
	5250R	16	250	274	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	14.4	3
	5250R-M	22	250	274	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	14.4	3
	5315R	20	315	339	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	22.2	4
	5315R-M	28	315	339	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	6	22.2	4

Available inserts

() Metric size

SNC(M)F-MF SNC(M)F-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		ST30A	G10	H01
SNCF																	
	1507ANN-MF																
	1507ANN-MM																E20
SNMF																	E21
	1507ANN-MF																
	1507ANN-MM																

Available arbors

Designation	General arbor	NC arbors		
		RMT8A	RMT8AM	
RMT8A(M)	□080R	NT*□□(M/U)-FMA25.4-25	BT**□□-FMA25.4-□□	FMC27
	□100R	NT*□□(M/U)-FMA31.75-□□	BT**□□-FMA31.75	FMC32
	□125R	NT*□□(M/U)-FMA38.1-□□	BT**□□-FMA38.1	FMC32
	□160R	NT*□□(M/U)-FMA50.8-□□	BT**□□-FMA50.8	
	□200R	NT*□□(M/U)-FMA47.625-25, KCP-8***	BT**□□-FMA47.625-□□	FMB60
	□250R			
	□315R	KCP-8*** (Center ring plug)		

*□□-NT number **□□-BT number ***Over milling 5

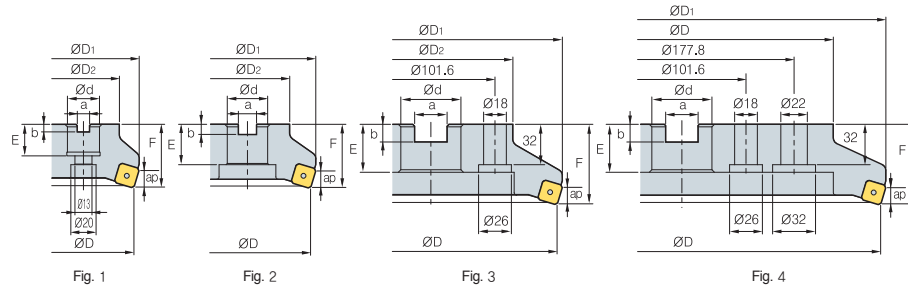
Parts

Specification					
Ø80~Ø315	ETKA0625	KHB0417	SPR0415	LTC06SR-RM5	TW20-100

Available inserts E20, E21 Available arbors and bolt E371-E373



RMT8E(M)4000



• AR: -6°
• RR: -8°~-6°

(mm)

Designation	⊙	ØD	ØD ₁	ØD ₂	Ød	a	b	E	F	ap		Fig.
RMT8E												
(RMT8EM)												
4080R	5	80	100	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	5	1.5	1
4080R-M	6	80	100	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	5	1.5	1
4100R	6	100	120	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	5	2	2
4100R-M	8	100	120	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	5	2	2
4125R	8	125	144	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	5	3.8	2
4125R-M	10	125	144	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	5	3.8	2
4160R	10	160	179	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	5	5.8	2
4160R-M	14	160	179	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	5	5.8	2
4200R	12	200	219	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	7.9	3
4200R-M	18	200	219	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	7.9	3
4250R	16	250	269	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	13.0	3
4250R-M	22	250	269	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	13.0	3
4315R	20	315	334	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	20.5	4
4315R-M	28	315	334	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	20.5	4

Available inserts

() Metric size

SNC(M)F-MF SNC(M)F-MM



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN80	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC8530	PC8510	PC5300	PC5400		ST30A	G10	H01
SNCF 1206ENN-MF																	
1206ENN-MM																	E20
SNMF 1206ENN-MF																	E21
1206ENN-MM																	

Available arbors

Designation	General arbor	NC arbors	
		RMT8E	RMT8E
RMT8E(M) □080R	NT*□□(M/U)-FMA25.4-25	BT**□□-FMA25.4-□□	FMC27
□100R	NT*□□(M/U)-FMA31.75-□□	BT**□□-FMA31.75-□□	FMC32
□125R	NT*□□(M/U)-FMA38.1-□□	BT**□□-FMA38.1-□□	FMB40
□160R	NT*□□(M/U)-FMA50.8-□□	BT**□□-FMA50.8-□□	
□200R	NT*□□(M/U)-FMA47.625-25,	BT**□□-FMA47.625-□□	FMB60
□250R	KCP-8***		
□315R	KCP-8*** (Center ring plug)		

*□□-NT number **□□-BT number ***Over milling 5

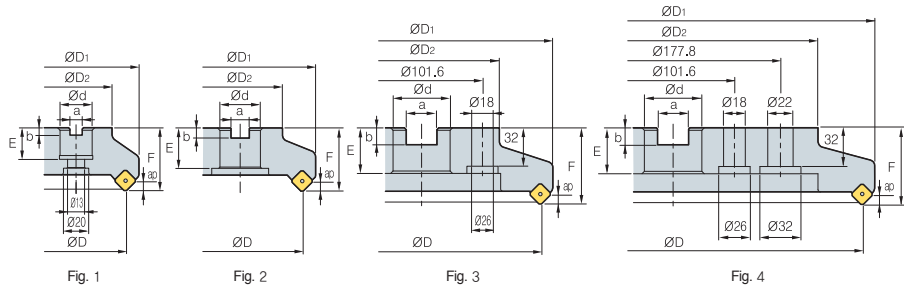
Parts

Specification					
Ø80~Ø315	ETKA0523	KHB0417	SPR0315	LTC05SR-FM4	TW20-100

Available inserts E20, E21 Available arbors and bolt E371~E373



RMT8E(M)5000



• AR: -6°
• RR: -8°~-6°

(mm)

Designation	⊙	ØD	ØD1	ØD2	Ød	a	b	E	F	ap	kg	Fig.	
RMT8E	5080R	5	80	88	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	8	1.4	1
(RMT8EM)	5080R-M	6	80	88	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	8	1.4	1
	5100R	6	100	108	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	8	1.9	2
	5100R-M	8	100	108	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	8	1.9	2
	5125R	8	125	133	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	8	3.7	2
	5125R-M	10	125	133	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	8	3.7	2
	5160R	10	160	168	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	8	5.7	2
	5160R-M	14	160	168	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	8	5.7	2
	5200R	12	200	208	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	7.5	3
	5200R-M	18	200	208	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	7.5	3
	5250R	16	250	258	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	12.4	3
	5250R-M	22	250	258	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	12.4	3
	5315R	20	315	323	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	19.9	4
	5315R-M	28	315	323	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	8	19.9	4

()Metric size

Available inserts

SNC(M)F-MF SNC(M)F-MM



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN80	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10		H01
SNCF																	E20
SNMF																	E21

Available arbors

Designation	General arbor	NC arbors	
		RMT8EM	RMT8EM
<input type="checkbox"/> 080R	NT*□□(M/U)-FMA25.4-25	BT**□□-FMA25.4-□□	FMC27
<input type="checkbox"/> 100R	NT*□□(M/U)-FMA31.75-□□	BT**□□-FMA31.75-□□	FMC32
<input type="checkbox"/> 125R	NT*□□(M/U)-FMA38.1-□□	BT**□□-FMA38.1-□□	FMB40
<input type="checkbox"/> 160R	NT*□□(M/U)-FMA50.8-□□	BT**□□-FMA50.8-□□	
<input type="checkbox"/> 200R	NT*□□(M/U)-FMA47.625-25,	BT**□□-FMA47.625-□□	FMB60
<input type="checkbox"/> 250R	KCP-8***		
<input type="checkbox"/> 315R	KCP-8*** (Center ring plug)	-	-

*□□-NT number **□□-BT number ***Over milling 5

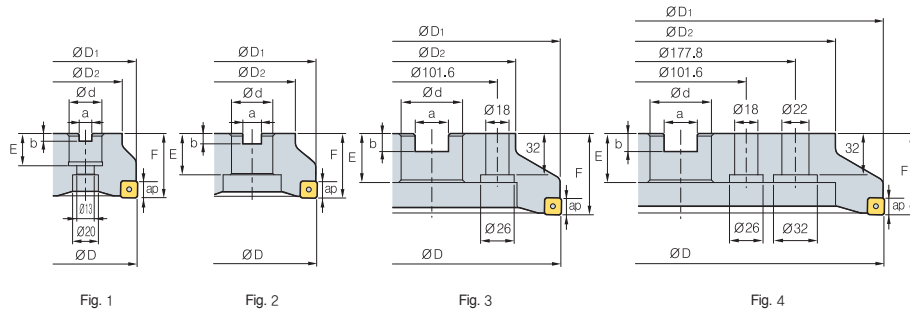
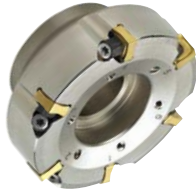
Parts

Specification					
Ø80~Ø315	ETKA0625	KHB0417	SPR0415	LTC06SR-RM5	TW20-100

Available inserts E20, E21 Available arbors and bolt E371~E373



RMT8Q(M)



AA
88°
• AR: -6°
• RR: -11°~-6°

Designation	⊙	ØD	ØD ₁	ØD ₂	Ød	a	b	E	F	ap	kg	Fig.
RMT8Q												
(RMT8QM)												
4080R	5	80	79	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	5	1.4	1
4080R-M	6	80	79	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	5	1.4	1
4100R	6	100	99	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	5	1.8	2
4100R-M	8	100	99	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	50	5	1.8	2
4125R	8	125	124	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	5	3.6	2
4125R-M	10	125	124	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (30)	63	5	3.6	2
4160R	10	160	159	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	5	5.7	2
4160R-M	14	160	159	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (30)	63	5	5.7	2
4200R	12	200	199	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	7.5	3
4200R-M	18	200	199	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	7.5	3
4250R	16	250	249	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	12.5	3
4250R-M	22	250	249	180	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	12.5	3
4315R	20	315	314	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	19.9	4
4315R-M	28	315	314	240	47.625 (60)	25.4 (25.7)	14 (14)	38 (38)	63	5	19.9	4

(mm)

Available inserts

SNMF-MF SNMF-MM



Designation	Cermet		Coated							Uncoated			page				
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300		PC5400	ST30A	G10	H01
SNMF 1206QNN-MF																	
1206QNN-MM								●									E20

() Metric size

Available arbors

Designation	General arbor	NC arbors	
		RMT8Q	RMT8QM
RMT8Q(M) □080R	NT*□□(M/U)-FMA25.4-25	BT**□□-FMA25.4-□□	FMC27
□100R	NT*□□(M/U)-FMA31.75-□□	BT**□□-FMA31.75-□□	FMC32
□125R	NT*□□(M/U)-FMA38.1-□□	BT**□□-FMA38.1-□□	FMB40
□160R	NT*□□(M/U)-FMA50.8-□□	BT**□□-FMA50.8-□□	
□200R	NT*□□(M/U)-FMA47.625-25,	BT**□□-FMA47.625-□□	FMB60
□250R	KCP-8***		
□315R	KCP-8*** (Center ring plug)	-	

*□□-NT number **□□-BT number ***Over milling 5

Parts

Specification	Screw	Screw	Spring	Latch	Wrench
Ø80~Ø315	ETKA0523	KHB0417	SPR0315	LTC05SR-FM4	TW20-100

Available inserts E20 Available arbors and bolt E371~E373



RM16AC(M)6000

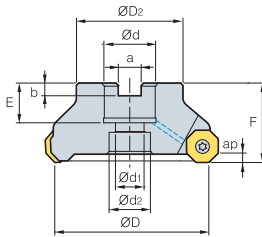


Fig. 1

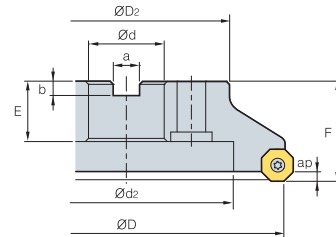


Fig. 2



AA
45°

• AR: -6°
• RR: -6°

(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	Fig.		
RM16ACM 6063HR-M	5	63	49	22	11	18	10.4	6.3	20	40	4.0	0.7	1
RM16AC 6080HR-M	6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	4.0	1.2	1
(RM16ACM) 6100HR-M	7	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25)	63 (50)	4.0	1.9	1
6125HR-M	8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (29)	63	4.0	3.5	1
6160R-M	10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	4.0	4.1	2
6200R-M	12	200	130	47.625 (60)	-	135	25.4 (25.7)	14	38 (32)	63	4.0	6.1	2
6250R-M	15	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38	63	4.0	11.5	2
6315R-M	20	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	4.0	18.9	2
6400R-M	26	400	260	47.625 (60)	-	238	25.4 (25.7)	14	38	80	4.0	32.7	2

() Metric size

Available inserts



Designation	Cermet		Coated								Uncoated			page			
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		ST30A	G10	H01
ONHX 060608-MM											●	●	●				E14
060608-MF											●	●	●				
060608-ML											●	●	●				
060608-MA															●		
060608-W									●	●	●	●	●				
0606ANN-MM											●	●	●				
0606ANN-MF											●	●	●				
ONMX 060608-MM								●	●		●	●	●				
060608-MF								●	●		●	●	●				
0606ANN-MM								●	●		●	●	●				
0606ANN-MF								●	●		●	●	●				

Available arbors

Designation	Available arbors	
	RM16AC	RM16ACM
RM16AC(M) 6063HR-M		BT□□-FMC22-□□
6080HR-M	BT□□-FMA25.4-□□	BT□□-FMC27-□□
6100HR-M	BT□□-FMA31.75-□□	BT□□-FMC32-□□
6125HR-M	BT□□-FMA38.1-□□	BT□□-FMB40-□□
6160R-M	BT□□-FMA50.8-□□	BT□□-FMC40-□□
6200R-M		
6250R-M		
6315R-M	BT□□-FMA47.625-□□	BT□□-FMB60-□□
6400R-M		

Parts

Specification	Screw	Wrench
Ø63~Ø400	FTGA0513	TW20-100

Available inserts E14 Available arbors and bolt E371-E373



RM16AC(M)8000

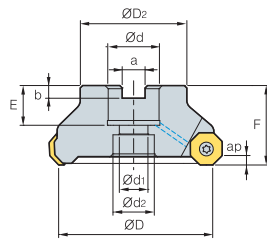


Fig. 1

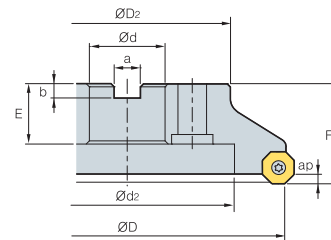


Fig. 2



AA
45°
• AR: -6°
• RR: -6°

(mm)

Designation		ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap		Fig.	
RM16ACM 8063HR-M		5	63	49	22	11	18	10.4	6.3	20	40	5.5	0.7	1
RM16AC 8080HR-M		6	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (23)	50	5.5	1.2	1
(RM16ACM) 8100HR-M		7	100	67	31.75 (32)	18	26	12.7 (14.4)	8	33 (25)	63 (50)	5.5	1.8	1
8125HR-M		8	125	87	38.1 (40)	22	32	15.9 (16.4)	10 (9)	35 (29)	63	5.5	3.5	1
8160R-M		10	160	107	50.8 (40)	-	107	19 (16.4)	11 (9)	38 (32)	63	5.5	4.5	2
8200R-M		12	200	130	47.625 (60)	-	135	25.4 (25.7)	14 (14)	38 (32)	63	5.5	5.8	2
8250R-M		14	250	180	47.625 (60)	-	180	25.4 (25.7)	14	38	63	5.5	11.4	2
8315R-M		18	315	240	47.625 (60)	-	238	25.4 (25.7)	14	38	63	5.5	18.8	2
8400R-M		24	400	260	47.625 (60)	-	238	25.4 (25.7)	14	38	80	5.5	32.7	2

() Metric size

Available inserts



Designation	Cermet		Coated										Uncoated			page	
	CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3800	PC3930	PC6510	PC5300	PC5400	ST30A	G10		H01
ONHX 080608-MM																	E14
080608-MF																	
080608-ML																	
080608-W																	
080608-MA																	
0806ANN-MM																	
0806ANN-MF																	
ONMX 080608-MM																	
080608-MF																	
0806ANN-MM																	
0806ANN-MF																	

Available arbors

Designation	Available arbors	
	RM16AC	RM16ACM
RM16AC(M) 8063HR-M	-	BT□□-FMC22-□□
8080HR-M	BT□□-FMA25.4-□□	BT□□-FMC27-□□
8100HR-M	BT□□-FMA31.75-□□	BT□□-FMC32-□□
8125HR-M	BT□□-FMA38.1-□□	BT□□-FMB40-□□
8160R-M	BT□□-FMA50.8-□□	BT□□-FMC40-□□
8200R-M		
8250R-M		
8315R-M	BT□□-FMA47.625-□□	BT□□-FMB60-□□
8400R-M		

Parts

Specification		
Ø63~Ø400	FTGA0513	TW20-100

Available inserts E14 Available arbors and bolt E371~E373

RM3



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

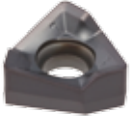
- **Great Value for Money**

Reduced tool cost thanks to optimized manufacturing process and excellent tool life



Multi Functional Shouldering Tool RM3

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.



Insert



Cutter

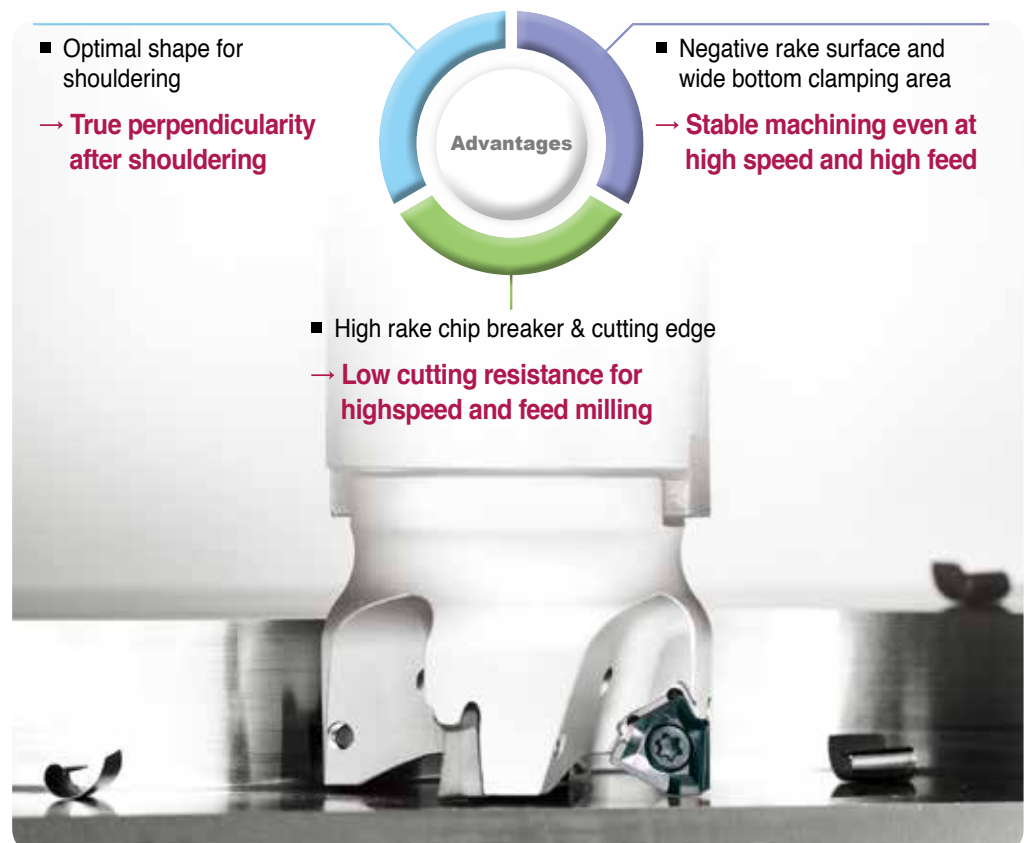


Shank

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.

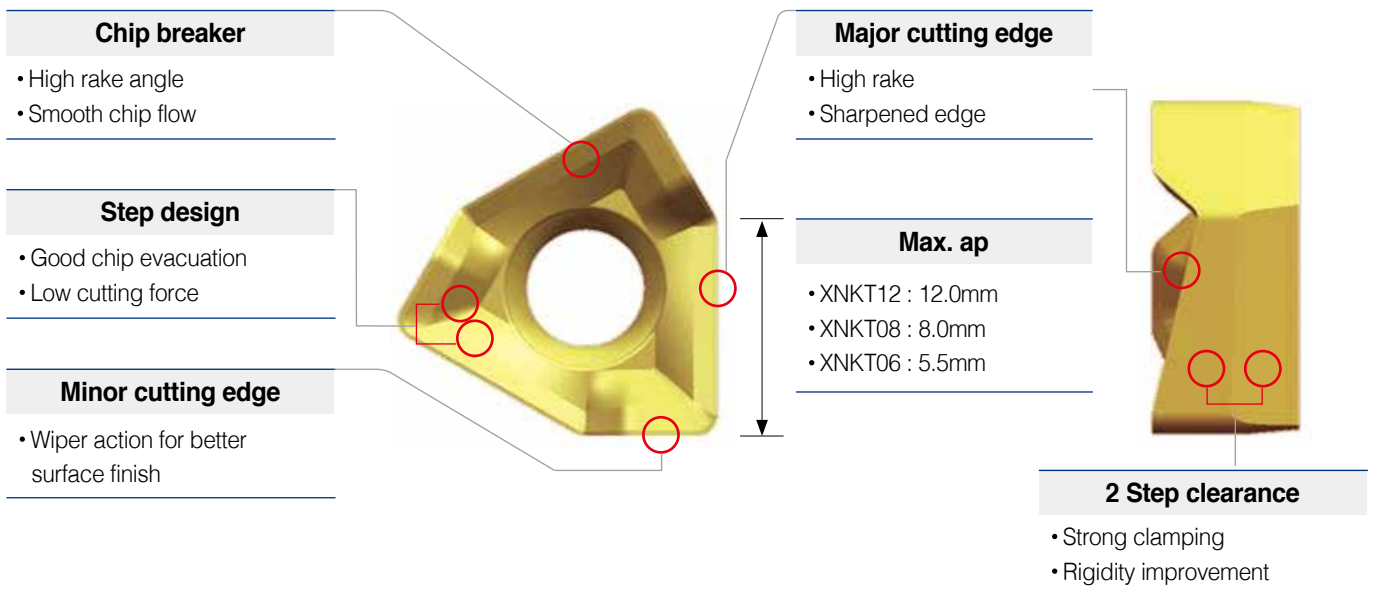


➔ RM3


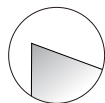



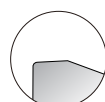
- **High Quality**
 - True 90° shouldering operation
- **Excellent Productivity**
 - Strong thick insert and 3-face clamping ensures stable machining even in tough cutting conditions
- **Great Value for Money**
 - Longer tool life due to optimized cutter and insert geometry



➔ Insert Features



➔ Chip Breaker Features

Chip breaker	Cutting edge	Applications	Features
<ul style="list-style-type: none"> • Chip breaker <p>MA</p> 		Aluminum	<ul style="list-style-type: none"> ■ MA : Milling Aluminum ■ Sharp cutting edge and buffed top face for an excellent chip flow and welding resistance in aluminum machining
<ul style="list-style-type: none"> • Chip breaker <p>ML</p> 		Light	<ul style="list-style-type: none"> ■ ML : Milling Light ■ Sharp cutting edge for hard-to-cut materials ■ Low cutting force
<ul style="list-style-type: none"> • Chip breaker <p>MM</p> 		General	<ul style="list-style-type: none"> ■ MM : General shouldering operations ■ 1st recommendation

RM3

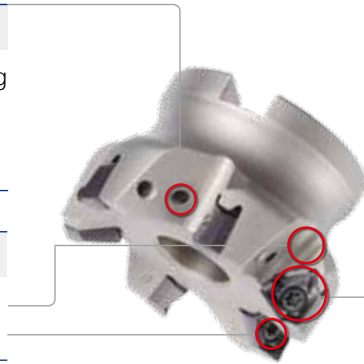
➤ Cutter Features

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

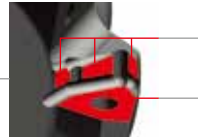


True perpendicularity



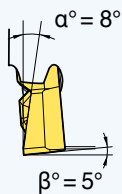
Strong clamping

- 3-face clamping seat
- Full flat bottom seat



➤ Cutting Performance

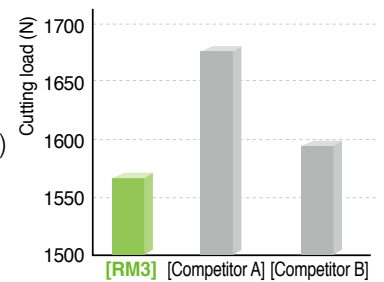
[Cutting edge]



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

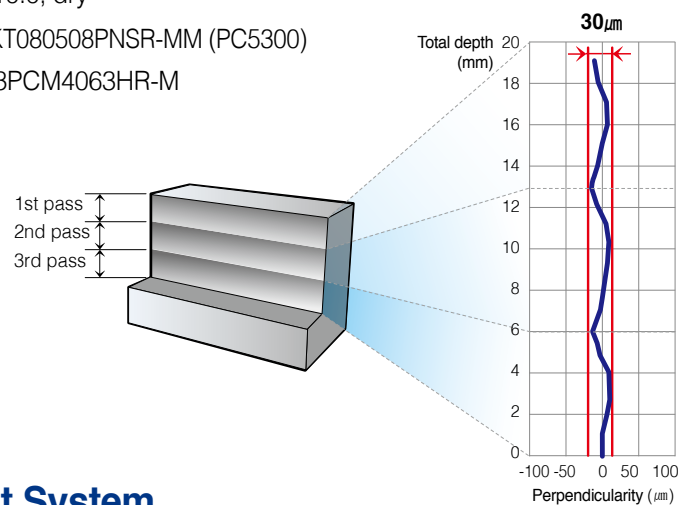
Cutting Load

- Workpiece 42CrMo4 (200HB)
- Cutting conditions $vc(m/min) = 250$, $fz(mm/t) = 0.1$, $ap(mm) = 3.0$, dry
- Tools
Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M



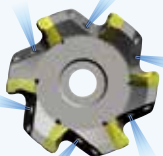
Perpendicularity

- Workpiece 42CrMo4 (200HB)
- Cutting conditions $vc(m/min) = 200$, $fz(mm/t) = 0.1$, $ap(mm) = 7.0 \times 3$ pass, $ae(mm) = 10.0$, 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	Aluminum
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				Available inserts	Cutting conditions			
		vc (m/min)	fz (mm/t)	max ap(mm)	vc (m/min)		fz (mm/t)	max ap(mm)	Available inserts	
P	steel	PC3600	160~270	0.25~0.05	5.5	XNKT0604□□ PN□R-MM	160~270	0.2~0.05	5.5	XNKT0604□□ PN□R-ML
		PC5300	150~240	0.25~0.05	5.5		150~240	0.25~0.05	5.5	
		PC5400	130~210	0.25~0.05	5.5		130~210	0.25~0.05	5.5	
M	Stainless steel	PC5300	90~150	0.2~0.05	5.5		90~150	0.1~0.05	5.5	
		PC5400	70~120	0.2~0.05	5.5		70~120	0.1~0.05	5.5	
K	Cast iron	PC6510	140~230	0.3~0.08	5.5		140~230	0.25~0.08	5.5	
		PC5300	120~200	0.3~0.08	5.5		120~200	0.25~0.08	5.5	

* Maximum cutting condition : vc = 350m/min, fz = 0.5mm/t according to cutting environment

▶ RM3 4000 Type

Workpiece	Grade	Cutting conditions				Available inserts	Cutting conditions				
		vc (m/min)	fz (mm/t)	max ap(mm)	vc (m/min)		fz (mm/t)	max ap(mm)	Available inserts		
P	steel	PC3600	160~270	0.3~0.05	8.0	XNKT0805□□ PN□R-MM	160~270	0.25~0.05	8.0	XNKT0805□□ PN□R-ML	
		PC5300	150~240	0.3~0.05	8.0		150~240	0.25~0.05	8.0		
		PC5400	130~210	0.3~0.05	8.0		130~210	0.25~0.05	8.0		
M	Stainless steel	PC5300	90~150	0.25~0.05	8.0		90~150	0.2~0.05	8.0		
		PC5400	70~120	0.25~0.05	8.0		70~120	0.2~0.05	8.0		
K	Cast iron	PC6510	140~230	0.35~0.08	8.0		140~230	0.3~0.08	8.0		
		PC5300	120~200	0.35~0.08	8.0		120~200	0.3~0.08	8.0		
N	Aluminum	H01	400~1200	0.4~0.1	8.0		XNCT0805□□PNFR-MA				

* Maximum cutting condition : vc = 350m/min, fz = 0.5mm/t according to cutting environment

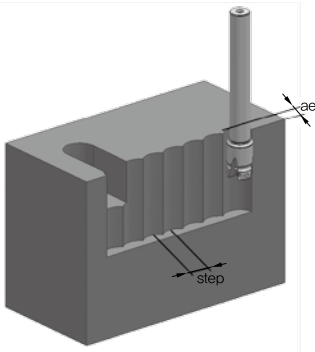
▶ RM3 5000 Type

Workpiece	Grade	Cutting conditions				Available inserts	Cutting conditions						
		vc (m/min)	fz (mm/t)	max ap(mm)	vc (m/min)		fz (mm/t)	max ap(mm)	Available inserts				
P	steel	PC3600	160~270	0.3~0.05	12.0	XNKT1206□□ PN□R-MM	160~270	0.25~0.05	12.0	XNKT1206□□ PN□R-ML			
		PC5300	150~240	0.3~0.05			150~240	0.25~0.05					
		PC5400	130~210	0.3~0.05			130~210	0.25~0.05					
M	Stainless steel	PC5300	90~150	0.25~0.05			90~150	0.2~0.05					
		PC5400	70~120	0.25~0.05			70~120	0.2~0.05					
K	Cast iron	PC6510	140~230	0.35~0.08			140~230	0.3~0.08					
		PC5300	120~200	0.35~0.08			120~200	0.3~0.08					
N	Aluminum	H01	400~1200	0.4~0.1			12.0	XNCT1206□□PN□R-MA					

* Maximum cutting condition : vc = 350m/min, fz = 0.5mm/t according to cutting environment

RM3

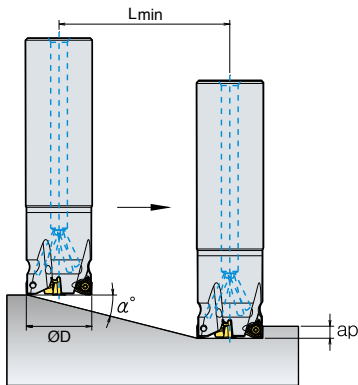
⇒ Max Step in plunging



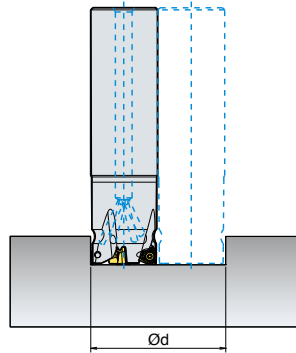
ae	Cutter diameter(Ø)											
	Ø20	Ø21	Ø25	Ø26	Ø32	Ø33	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
	Max step (mm)											
1	8.5	8.9	9.7	10	11.1	11.3	12.4	14	15.7	17.7	19.9	22.2
2	12	12.3	13.5	13.8	15.4	15.7	17.4	19.5	22	24.9	28	31.3
3	-	-	-	-	-	-	21	23.7	26.8	30.3	34.1	38.2

⇒ Ramping and Helical cutting

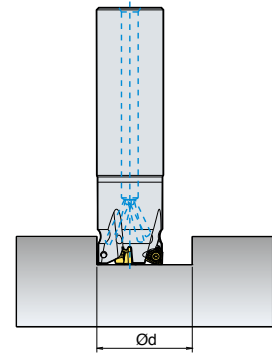
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole

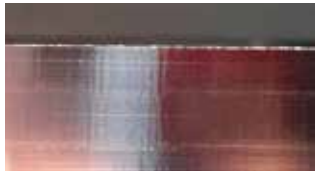


Type	Tool Dia. ØD(mm)	1. Ramping		2. Helical cutting for blind hole				3. Helical cutting for through hole	
		α°	Lmin(mm)	Minimum Hole Diameter Ød(mm)	Maximum Pitch(mm)	Maximum Hole Diameter Ød(mm)	Maximum Pitch(mm)	Minimum Hole Diameter Ød(mm)	Maximum Pitch(mm)
3000 type	20	15.5	19.8	36.5	5.5	38.5	5.5	33.0	5.5
	21	14.0	22.1	38.5	5.5	40.5	5.5	35.0	5.5
	25	10.0	31.2	46.5	5.5	48.5	5.5	43.0	5.5
	26	9.5	32.9	48.34	5.5	51.0	5.5	45.0	5.5
	32	6.5	48.3	60.5	5.5	62.5	5.5	59.0	5.5
	33	6.0	52.3	62.5	5.5	64.5	5.5	59.0	5.5
	40	4.5	69.9	46.5	5.5	78.5	5.5	73.0	5.5
	50	3.5	89.9	96.5	5.5	98.5	5.5	93.0	5.5
	63	2.5	126.0	122.5	5.5	124.5	5.5	119.0	5.5
	80	2.0	157.5	156.5	5.5	158.5	5.5	153.0	5.5
4000 type	100	1.5	210.0	194.5	5.5	198.5	5.5	193.0	5.5
	125	1.0	315.1	246.5	5.5	248.5	5.5	243.0	5.5
	25	24.0	18.0	44.5	8.0	48.0	8.0	38.5	8.0
	32	13.0	34.7	58.5	8.0	62.0	8.0	52.5	8.0
	33	12.0	37.6	60.02	8.0	64.4	8.0	54.5	8.0
	40	8.5	53.5	74.5	8.0	78.0	8.0	68.5	8.0
	50	6.0	76.1	94.5	8.0	98.0	8.0	88.5	8.0
	63	4.0	114.4	12.5	8.0	124.0	8.0	114.5	8.0
5000 type	80	3.0	152.6	154.5	8.0	158.0	8.0	148.5	8.0
	100	2.0	229.1	194.5	8.0	198.0	8.0	188.5	8.0
	125	1.5	305.5	244.5	7.7	248.0	7.8	238.5	7.7
	80	5.5	124.6	153.5	12.0	158.0	12.0	146.5	12.0
	100	4.5	152.5	193.5	12.0	198.0	12.0	159.5	12.0
	125	3.5	196.2	242.5	12.0	248.0	12.0	236.5	12.0

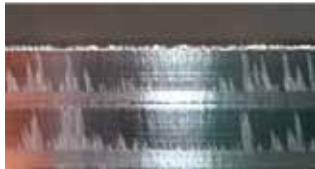
* Please be sure to use cutting oil or air for ramping and helical machining
 $L_{min} = ap / \tan(\alpha^\circ)$

⇒ Cutting Performance

• Surface finish
(shouldering, side face)



[RM3]



[Competitor]

Carbon steel (C45, HB200)

- Cutting conditions Competitor $vc(m/min) = 270$, $fz(mm/t) = 0.2$, $ap(mm) = 6.0 \times 4$ pass, $ae(mm) = 5.0$
RM3 $vc(m/min) = 270$, $fz(mm/t) = 1.0$, $ap(mm) = 3.0 \times 8$ pass, $ae(mm) = 5.0$
- Application area Shouldering
- Tools Insert XNKT080508PNSR-MM (PC5300) Cutter RM3PCM4063HR-M

RM3 **122.8 cm³/min**

Competitor 49.1 cm³/min
Chip removal rate(cm³/min)

2.5times more

RM3 **3.9min**

Competitor 9.8min
Machining time(min)

60% less

• Surface roughness



[RM3]



[Competitor]

Alloy steel (42CrMo4, HB200)

- Cutting conditions Competitor $vc(m/min) = 250$, $fz(mm/t) = 0.125$, $ap(mm) =$ Finishing 0.5 / Roughing 7.0
RM3 $vc(m/min) = 250$, $fz(mm/t) = 0.125$, $ap(mm) =$ Finishing 0.5 / Roughing 7.0
- Application area Facing
- Tools Insert XNKT080508PNSR-MM (PC5300) Cutter RM3PCM4063HR-M

RM3 **1500ea**

Competitor 1050ea
Workpiece(ea)

1.4times more

RM3 **1.81 μm**

Competitor 3.29 μm
Surface roughness(R_{max})

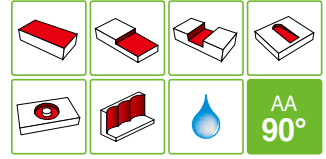
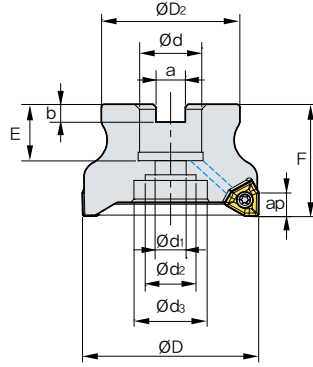
45% less

⇒ Available Inserts

Insert Shape	Designation	Cutter	Coated					Uncoated		Dimensions (mm)					Configuration
			PC3600	PC5300	PC5400	PC6510	H01	l	d	t	r	d ₁	a		
	XNKT 080504PNFR-MA	4000 type	-	-	-	-	-	8.2	10.0	5.5	0.4	4.5	2.9		
	XNKT 080508PNFR-MA		-	-	-	-	●	8.2	10.0	5.5	0.8	4.5	2.9		
	XNKT 080512PNFR-MA		-	-	-	-	-	8.2	10.0	5.5	1.2	4.5	2.9		
	XNKT 080520PNFR-MA		-	-	-	-	-	8.2	10.0	5.5	2.0	4.5	2.9		
	XNKT 120608PNFR-MA	5000 type	-	-	-	-	-	12.0	13.0	6.5	0.8	5.5	3.5		
	XNKT 060405PNER-ML	3000 type	●	●	●	●	-	5.7	6.5	4.0	0.5	3.4	1.8		
	XNKT 080504PNER-ML	4000 type	-	-	-	-	-	8.2	10.0	5.5	0.4	4.5	2.9		
	XNKT 080508PNER-ML		-	-	-	-	-	8.2	10.0	5.5	0.8	4.5	2.9		
	XNKT 080512PNER-ML		-	-	-	-	-	8.2	10.0	5.5	1.2	4.5	2.9		
	XNKT 080516PNER-ML		-	-	-	-	-	8.2	10.0	5.5	1.6	4.5	2.9		
	XNKT 080520PNER-ML	5000 type	-	-	-	-	-	8.2	10.0	5.5	2.0	4.5	2.9		
	XNKT 120608PNER-ML		-	-	-	-	-	12.0	13.0	6.5	0.8	5.5	3.5		
	XNKT 120612PNER-ML		-	-	-	-	-	12.0	13.0	6.5	1.2	5.5	3.5		
	XNKT 120616PNER-ML		-	-	-	-	-	12.0	13.0	6.5	1.6	5.5	3.5		
XNKT 120620PNER-ML	-	-	-	-	-	12.0	13.0	6.5	2.0	5.5	3.5				
	XNKT 060405PNSR-MM	3000 type	●	●	●	●	-	5.7	6.5	4.0	0.5	3.4	1.8		
	XNKT 080504PNSR-MM	4000 type	-	-	-	-	-	8.2	10.0	5.5	0.4	4.5	2.9		
	XNKT 080508PNSR-MM		●	●	●	●	-	8.2	10.0	5.5	0.8	4.5	2.9		
	XNKT 080512PNSR-MM		-	-	-	-	-	8.2	10.0	5.5	1.2	4.5	2.9		
	XNKT 080516PNSR-MM		-	-	-	-	-	8.2	10.0	5.5	1.6	4.5	2.9		
	XNKT 080520PNSR-MM	5000 type	-	-	-	-	-	8.2	10.0	5.5	2.0	4.5	2.9		
	XNKT 120608PNSR-MM		-	-	-	-	-	12.0	13.0	6.5	0.8	5.5	3.5		
	XNKT 120612PNSR-MM		-	-	-	-	-	12.0	13.0	6.5	1.2	5.5	3.5		
	XNKT 120616PNSR-MM		-	-	-	-	-	12.0	13.0	6.5	1.6	5.5	3.5		
	XNKT 120620PNSR-MM	-	-	-	-	-	12.0	13.0	6.5	2.0	5.5	3.5			

RM3

RM3PC(M)3000



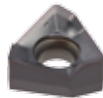
AR : -5°
RR : -9°-6°

(mm)

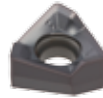
Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
RM3PCM	3040HR	5	40	35	16	9	14	-	8.4	5.6	16	40	5.5	0.2
	3040HR-M	6	40	35	16	9	14	-	8.4	5.6	16	40	5.5	0.2
	3050HR	6	50	41	22	11	18	-	10.4	6.3	20	40	5.5	0.3
	3050HR-M	7	50	41	22	11	18	-	10.4	6.3	20	40	5.5	0.3
	3063HR	7	63	49	22	11	18	-	10.4	6.3	20	40	5.5	0.49
	3063HR-M	8	63	49	22	11	18	-	10.4	6.3	20	40	5.5	0.49
RM3PC (RM3PCM)	3080HR	8	80	57	25.4(27)	14	25	35(35)	9.5(12.4)	6(7)	25(23)	50	5.5	0.87
	3080HR-M	10	80	57	25.4(27)	14	25	35(35)	9.5(12.4)	6(7)	25(23)	50	5.5	0.88

()Metric Size

Available Inserts



XNKT-ML



XNKT-MM

Designation	Cermet		Coated									Uncoated		
	CN2000	CN30	NCM325	NC5330	PC3500	PC3600	PC3545	PC9530	PC6510	PC5300	PC5400	A30	G10E	H01
XNKT 060405PNER-ML						●			●	●	●			
060405PNSR-MM						●			●	●	●			

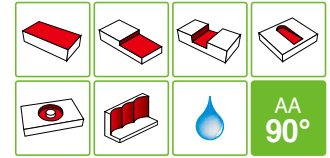
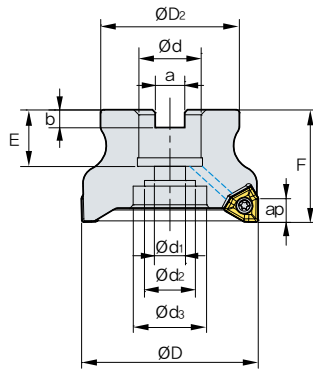
Available Arbors

Designation	Available Arbors	
	RM3PC	RM3PCM
RM3PCM 3040HR	-	BT□□-FMC16-□□
3040HR-M		
3050HR		
3050HR-M		
3063HR		
3063HR-M		
RM3PC (RM3PCM) 3080HR	BT□□-FMA25.4-□□	BT□□-FMC27-□□
3080HR-M		

Parts

Specification	Screw	Wrench
Ø40 ~ Ø80	FTNA0306	TW09S

RM3PC(M)4000



AR : -5°
RR : -8° ~ -6°

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
RM3PCM	4040HR	3	40	35	16	16	14	-	8.4	5.6	19	40	8.0	0.19
	4040HR-M	4	40	35	16	16	14	-	8.4	5.6	19	40	8.0	0.19
	4050HR	4	50	42	22	22	18	-	10.4	6.3	20	40	8.0	0.28
	4050HR-M	5	50	42	22	22	18	-	10.4	6.3	20	40	8.0	0.29
	4063HR	5	63	49	22	22	18	-	10.4	6.3	20	40	8.0	0.54
	4063HR-M	6	63	49	22	22	18	-	10.4	6.3	20	40	8.0	0.53
RM3PC (RM3PCM)	4080HR	5	80	57	25.4(27)	25.4(27)	20	35(35)	9.5(12.4)	6(7)	25(23)	50	8.0	1.08
	4080HR-M	7	80	57	25.4(27)	25.4(27)	20	35(35)	9.5(12.4)	6(7)	25(23)	50	8.0	1.06
	4100HR	7	100	67	31.75(32)	31.75(32)	26	42(42)	12.7(14.4)	8(8)	33(25)	63(50)	8.0	1.68
	4100HR-M	8	100	67	31.75(32)	31.75(32)	26	42(42)	12.7(14.4)	8(8)	33(25)	63(50)	8.0	1.67
	4125HR	8	125	90	38.1(40)	38.1(40)	32	52(52)	15.9(16.4)	9(10)	38(29)	63	8.0	3.45
	4125HR-M	10	125	90	38.1(40)	38.1(40)	32	52(52)	15.9(16.4)	9(10)	38(29)	63	8.0	3.45

() Metric Size

Available Inserts



XNCT-MA



XNKT-ML



XNKT-MM

Designation	Cermet		Coated									Uncoated		
	CN2000	CN30	NCM325	NC5330	PC3500	PC3600	PC3545	PC9530	PC6510	PC5300	PC5400	A30	G10E	H01
XNCT	080504PNFR-MA													
	080508PNFR-MA													●
	080512PNER-MA													
	080520PNFR-MA													
XNKT	080508PNER-ML					●				●	●			
	080508PNSR-MM					●				●	●			
	080512PNER-ML									●	●			
	080512PNSR-MM													
	080516PNER-ML													
	080516PNSR-MM													
	080520PNER-ML													
	080520PNSR-MM													

Available Arbors

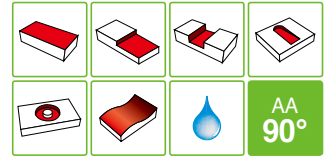
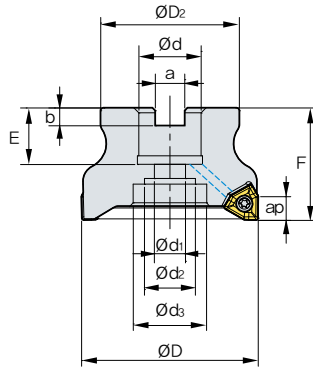
Designation	Available Arbors		
	RM3PC	RM3PCM	
RM3PC (RM3PCM)	4040HR	-	BT□□-FMC16-□□
	4050HR	-	BT□□-FMC22-□□
	4063HR	-	BT□□-FMC27-□□
	4080HR	BT□□-FMA25.4-□□	BT□□-FMC32-□□
	4100HR	BT□□-FMA31.75-□□	BT□□-FMC40-□□
	4125HR	BT□□-FMA38.1-□□	

Parts

Specification	Screw 	Wrench
Ø40 ~ Ø125	FTNA0408	TW15S

RM3

RM3PC(M)5000



·AR : -5°
·RR : -7°

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
RM3PC (RM3PCM)	5080HR	5	80	57	25.4(27)	14	20	35	9.5(12.4)	6(7)	24(23)	50	12.0	0.84
	5080HR-M	7	80	57	25.4(27)	14	20	35	9.5(12.4)	6(7)	24(23)	50	12.0	0.84
	5100HR	7	100	67	31.75(32)	18	28	45	12.7(14.4)	8(8)	32(25)	63	12.0	1.76
	5100HR-M	8	100	67	31.75(32)	18	28	45	12.7(14.4)	8(8)	32(25)	63	12.0	1.76
	5125HR	8	125	90	38.1(40)	22	32	52	15.9(16.4)	9(10)	38(30)	63	12.0	2.70
	5125HR-M	10	125	90	38.1(40)	22	32	52	15.9(16.4)	9(10)	38(30)	63	12.0	2.70

() Metric Size

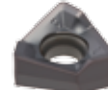
Available Inserts



XNCT-MA



XNKT-ML



XNKT-MM

Designation	Cermet		Coated									Uncoated		
	CN2000	CN30	NCM325	NC5330	PC3500	PC3600	PC3545	PC9530	PC6510	PC5300	PC5400	A30	G10E	H01
XNCT 120608PNFR-MA														
XNKT 120608PNSR-MM														
120608PNER-ML														
120612PNSR-MM														
120612PNER-ML														
120616PNSR-MM														
120616PNER-ML														
120620PNSR-MM														
120620PNER-ML														

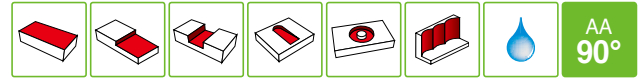
Available Arbors

Designation	Available Arbors	
	RM3PC	RM3PCM
RM3PC 5080HR	BT□□-FMA25.4-□□	BT□□-FMC27-□□
(RM3PCM) 5100HR	BT□□-FMA31.75-□□	BT□□-FMC32-□□
5125HR	BT□□-FMA38.1-□□	BT□□-FMC40-□□

Parts

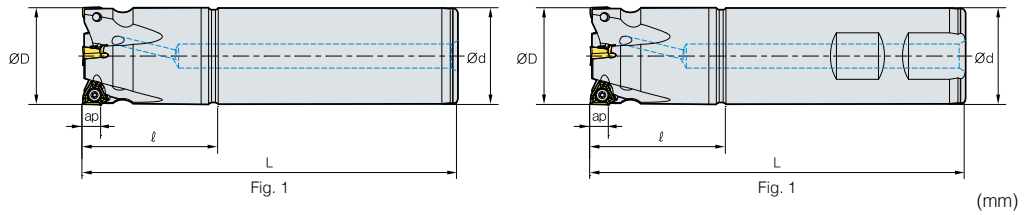
Specification	Screw 	Wrench
Ø80 ~ Ø125	FTNA0511	TW20-100

RM3PS3000



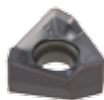
AA
90°

• AR : 5°
• RR : 16°~9°

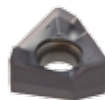


Designation		⊙	ØD	Ød	ℓ	L	ap	kg	Fig.
RM3PS	3020HR-2S20	2	20	20	35	100	5.5	0.21	2
	3020HR-2L20	2	20	20	35	200	5.5	0.43	1
	3021HR-2S20	2	21	20	30	100	5.5	0.21	2
	3021HR-2L20	2	21	20	30	200	5.5	0.43	1
	3025HR-3S20	2	25	20	35	115	5.5	0.27	2
	3025HR-3L20	2	25	20	35	200	5.5	0.46	1
	3025HR-3S25	3	25	25	40	115	5.5	0.36	2
	3025HR-3L25	3	25	25	40	200	5.5	0.66	1
	3026HR-2S20	2	26	20	35	115	5.5	0.29	2
	3026HR-2L20	2	26	20	35	200	5.5	0.47	1
	3026HR-3S20	3	26	20	35	115	5.5	0.28	2
	3026HR-3L20	3	26	20	35	200	5.5	0.47	1
	3026HR-2S25	2	26	25	35	115	5.5	0.37	2
	3026HR-2L25	2	26	25	35	200	5.5	0.68	1
	3026HR-3S25	3	26	25	35	115	5.5	0.37	2
	3026HR-3L25	3	26	25	35	200	5.5	0.68	1
	3032HR-3S25	3	32	25	42	125	5.5	0.48	2
	3032HR-3L25	3	32	25	42	200	5.5	0.74	1
	3032HR-4S25	4	32	25	42	125	5.5	0.48	2
	3032HR-4L25	4	32	25	42	200	5.5	0.74	1
	3032HR-4S32	4	32	32	42	125	5.5	0.68	2
	3032HR-4L32	4	32	32	42	200	5.5	1.13	1
	3033HR-3S25	3	33	25	42	125	5.5	0.49	2
	3033HR-3L25	3	33	25	42	200	5.5	0.75	1
	3033HR-4S25	4	33	25	42	125	5.5	0.49	2
	3033HR-4L25	4	33	25	42	200	5.5	0.75	1
	3033HR-4S32	4	33	32	42	125	5.5	0.70	2
	3033HR-4L32	4	33	32	42	200	5.5	1.14	1
	3040HR-4S32	4	40	32	45	130	5.5	0.83	2
	3040HR-4L32	4	40	32	45	200	5.5	1.24	1
3040HR-5S32	5	40	32	45	130	5.5	0.83	2	
3040HR-5L32	5	40	32	45	200	5.5	1.24	1	

Available Inserts



XNKT-MM



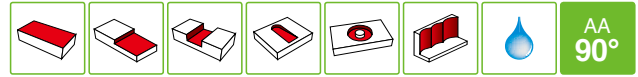
XNKT-ML

Designation	Cermet		Coated								Uncoated			
	CN2000	CN30	NCM325	NC5330	PC3500	PC3600	PC3545	PC3530	PC6510	PC5300	PC5400	A30	G10E	H01
XNKT 060405PNER-ML						●			●	●	●			
060405PNSR-MM						●			●	●	●			

Parts

Specification	Screw	Wrench
Ø20 ~ Ø40	FTNA0306	TW09S

RM3PS4000



AA
90°

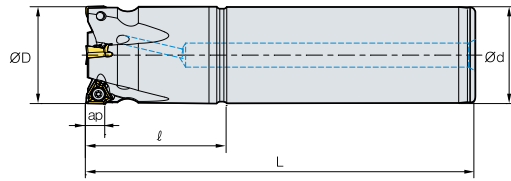


Fig. 1

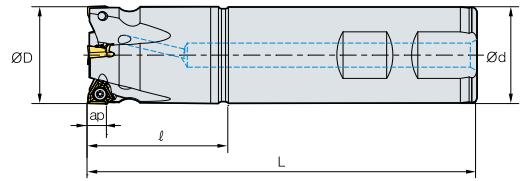


Fig. 2

AR : 5°
RR : -11°~7°

Designation	ØD	Ød	ℓ	L	ap	kg	Fig.
RM3PS 4032HR-3S32	32	32	42	125	8	0.67	2
4032HR-3L32	32	32	42	200	8	1.11	1
4033HR-3S32	33	32	42	125	8	0.68	2
4033HR-3L32	33	32	42	200	8	1.13	1
4040HR-3S32	40	32	42	130	8	0.8	2
4040HR-3L32	40	32	42	200	8	1.21	1
4040HR-4S32	40	32	42	130	8	0.81	2
4040HR-4L32	40	32	42	200	8	1.22	1
4050HR-4S32	50	32	42	135	8	0.99	2
4050HR-4L32	50	32	42	200	8	1.38	1
4050HR-4S40	50	40	42	135	8	1.32	2
4050HR-4L40	50	40	42	200	8	1.94	1
4050HR-5S32	50	32	42	135	8	1.02	2
4050HR-5L32	50	32	42	200	8	1.4	1
4050HR-5S40	50	40	42	135	8	1.35	2
4050HR-5L40	50	40	42	200	8	1.96	1
4063HR-5S32	63	32	42	135	8	1.31	2
4063HR-5L32	63	32	42	200	8	1.7	1
4063HR-5S40	63	40	42	135	8	1.64	2
4063HR-5L40	63	40	42	200	8	2.25	1
4063HR-6S32	63	32	42	135	8	1.31	2
4063HR-6L32	63	32	42	200	8	1.7	1
4063HR-6S40	63	40	42	135	8	1.64	2
4063HR-6L40	63	40	42	200	8	2.26	1

Available Inserts



XNCT-MA



XNKT-ML



XNKT-MM

Designation	Cermet		Coated									Uncoated		
	CN2000	CN30	NCM325	NC5330	PC3500	PC3600	PC3545	PC9530	PC6510	PC5300	PC5400	A30	G10E	H01
XNCT 080504PNFR-MA														
080508PNFR-MA														
080512PNFR-MA														
080520PNFR-MA														
XNKT 080508PNFR-ML						●				●	●			
080508PNFR-MM						●				●	●			
080512PNFR-ML														
080512PNFR-MM														
080516PNFR-ML														
080516PNFR-MM														
080520PNFR-ML														
080520PNFR-MM														

Parts

Specification	Screw	Wrench
Ø32 ~ Ø63	FTNA0408	TW15



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Tel : +55-11-4193-3810 E-mail : vendas@korloy.com

RM6



Double-Sided 6-Corner Shoulder Milling Tool

Milling tool series for high quality surface finish and cost efficiency

- **Higher Productivity**

Designed to provide high speed and feed improves chip removal rates

- **Improved Perpendicularity**

True perpendicular milling

- **Superior Clamping Stability**

Powerful clamping thanks to strong clamping screws and 3-side flank supporting system



Double-Sided 6-Corner Shoulder Milling Tool

RM6

Mold making companies are required to keep up with the demands of the accelerated development of Industrial structures.

RM6, KORLOY's new Rich Mill Series for shouldering responds to these demands by employing double-sided inserts with six perpendicular corners to achieve cost efficiency.

It features strong clamping screws, 3-side supporting system, and wide clamping areas which enable powerful clamping force. This facilitates stable machining at high speed and feed, and delivers higher productivity.

Wide minor cutting edges and optimized multi-stepped relief surfaces of the RM6 provide exceptional bottom surface finish. The RM6 achieves perpendicularity and improved flank surface finish. The chip breaker design high rake and high helix angle were applied to the inserts for stable cutting performance in hard-to-cut materials or high hardened workpieces, achieving an increase in tool life.

KORLOY's RM6 is one of the most advanced shouldering solutions available to meet the demand of the mold making market today.



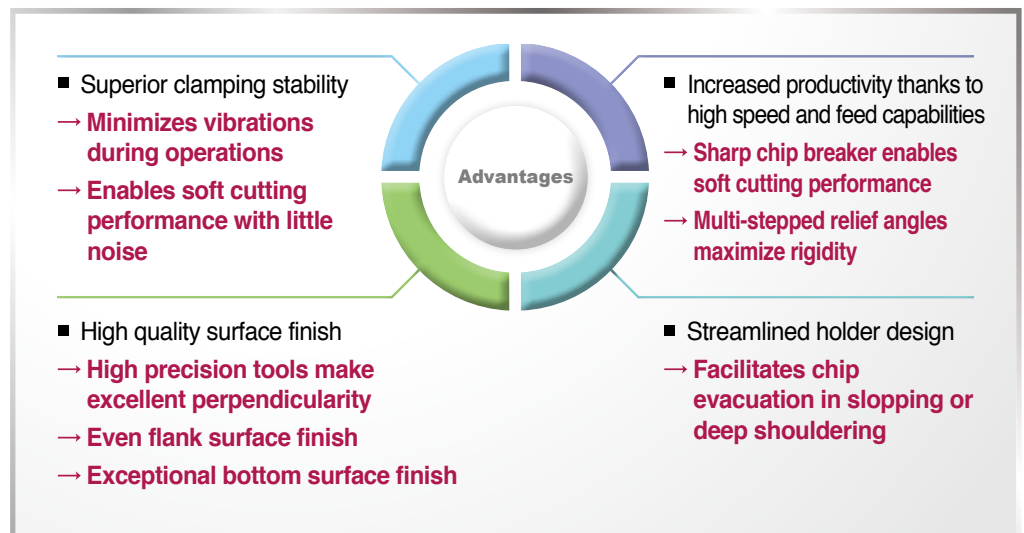
Insert



Cutter

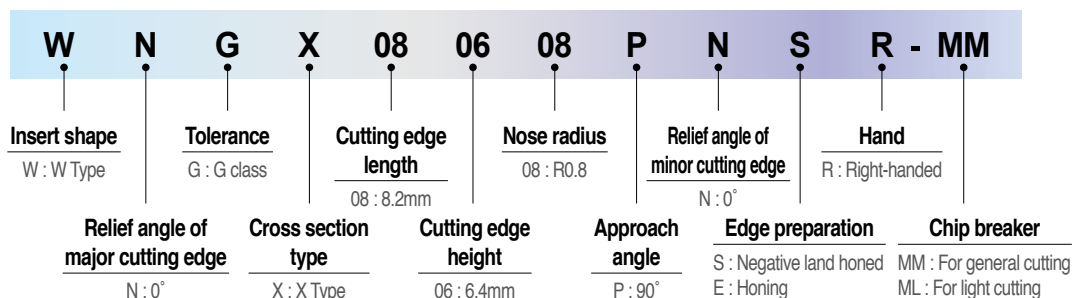


Shank



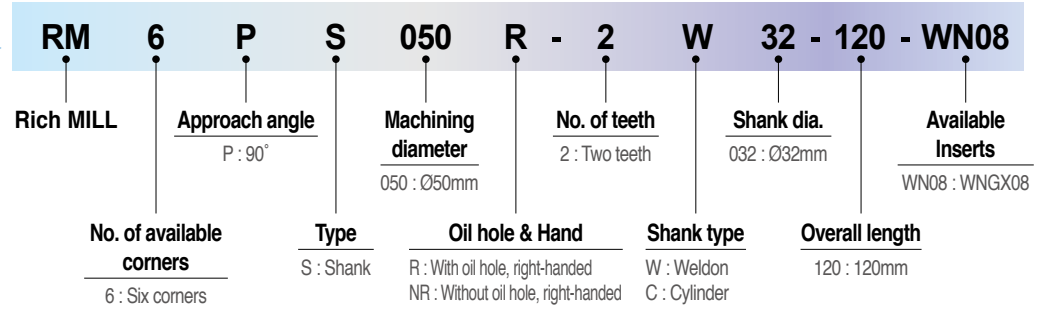
Code System

[Insert shape]

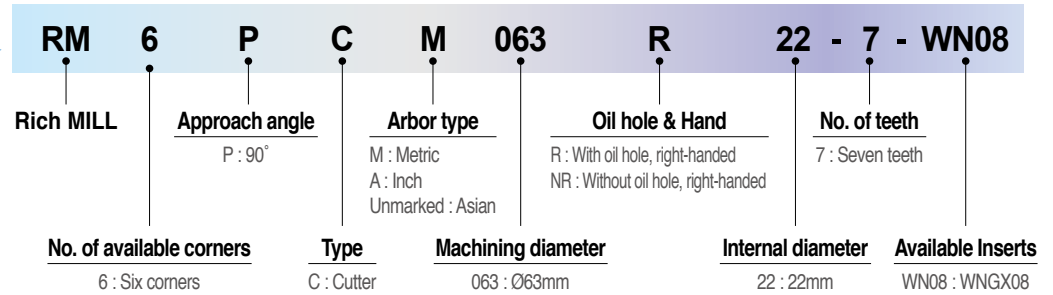


Code System

[Shank Type]



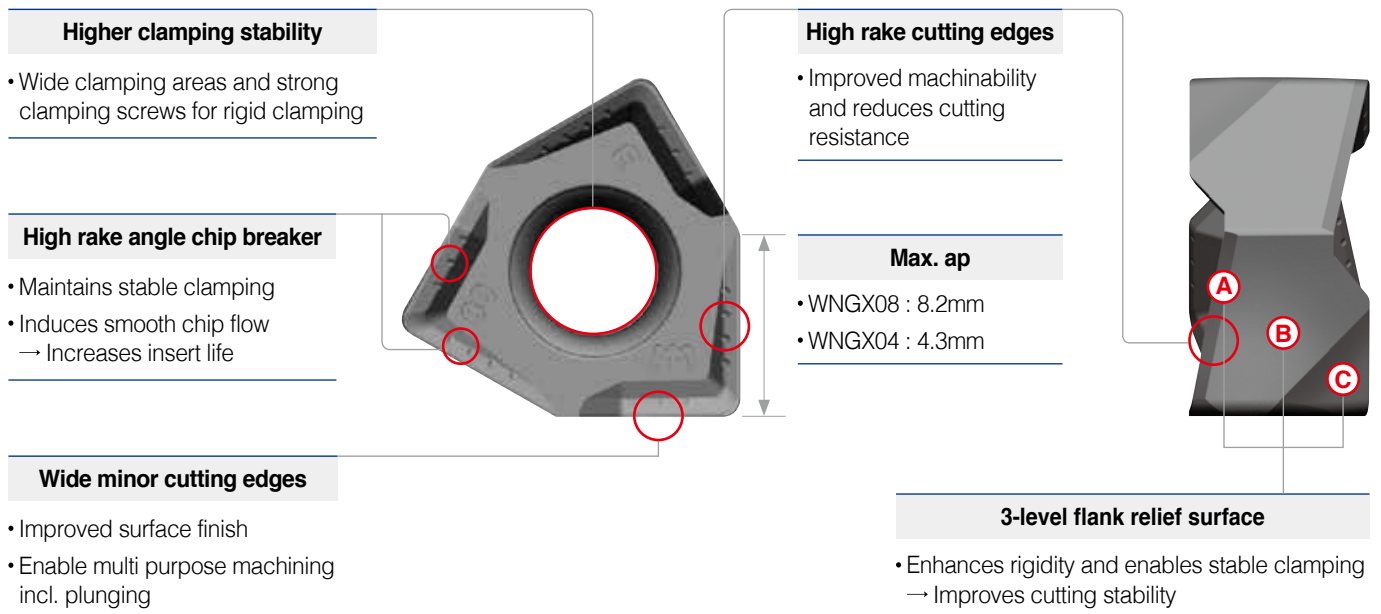
[Cutters type]



RM6 Features

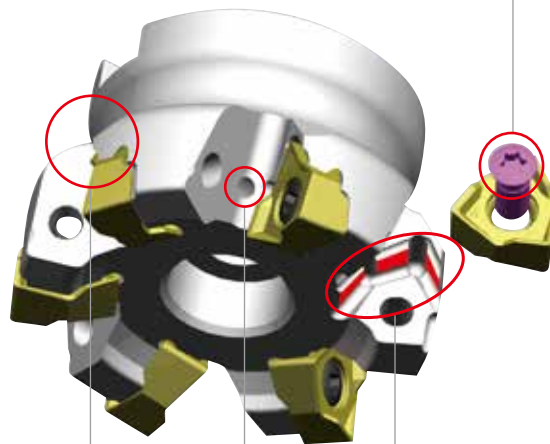
- **Stable clamping** - 3 clamping surfaces on the side and strong clamping screws
→ Improves cutting stability
- **High quality results** - High precision, excellent perpendicularity, outstanding surface finish on the flank, accurate tolerance
- **High productivity** - High rake angle and sharp cutting edges for lower cutting resistance
→ Ideal for high speed and high feed machining

Insert Features



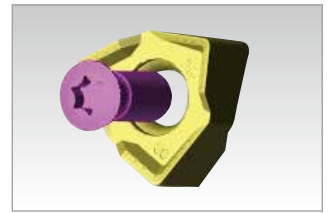
⇒ Cutter Features

- 3-side supporting system, strong clamping screws, and wide seat areas
 - **Improve clamping stability**
 - **Reduce tool vibrations and cutting resistance**
- Optimized H/D design with curved surface for smooth chip flow
 - **Facilitates chip evacuation in slopping or deep shouldering**



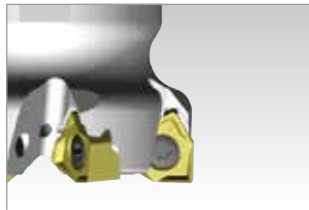
Strong clamping screws

- Strong clamping screws enable rigid clamping



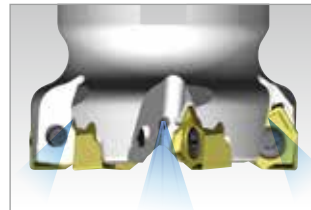
Streamlined holder design

- Improved chip evacuation in deep shouldering and slotting



Through coolant system

- Improved chip flow and tool life thanks to insert cooling



3-side supporting system

- Stable tool life



⇒ Chip Breaker Features

- Chip breaker **MA**



- Chip breaker **ML**



- Chip breaker **MM**



Chip breaker	Cutting edge	Application	Features
MA		For aluminum	<ul style="list-style-type: none"> ■ MA : Milling Aluminum ■ Sharp cutting edges for excellent cutting performance in aluminum machining ■ Buffed surface for excellent chip flow and welding resistance
ML		For light cutting	<ul style="list-style-type: none"> ■ ML : Milling Light ■ Chip breaker design of low cutting resistance, ideal for light cutting and machining hard-to-cut materials ■ Excellent tool life and quality results
MM		For general cutting	<ul style="list-style-type: none"> ■ MM : General shouldering operations ■ Chip breaker design ideal for general shoulder milling and most applications

⇒ Performance Evaluation

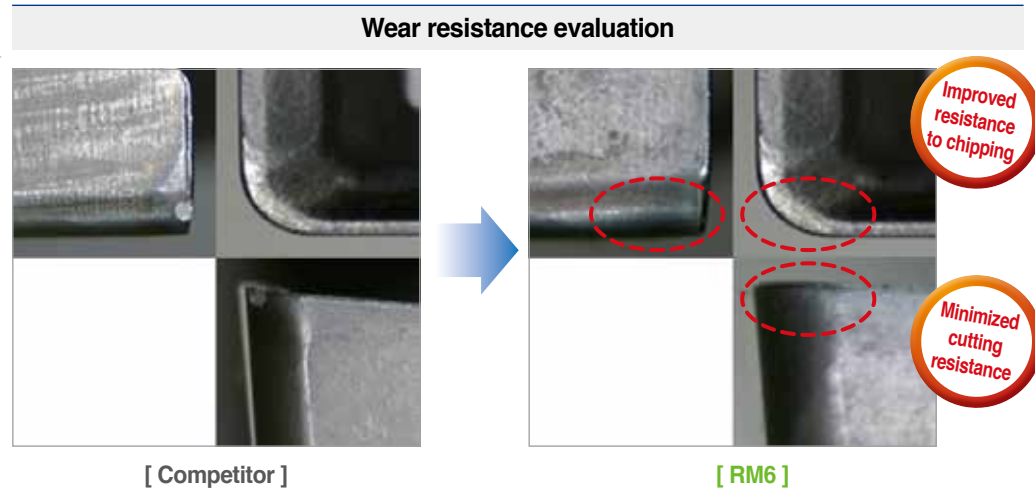
- Workpiece 42CrMo4(DIN), SCM440(KS), 4140(AISI), 300(L)x200(W)x100(H), Steel rectangular tube
- Cutting conditions $vc(m/min)=250$, $fz(mm/t)=0.2$, $ap(mm)=4$, $ae(mm)=10$, Dry
- Machining method Facing
- Tools Insert WNGX080608PNSR-MM(PC5300) Holder RM6PCM063R-22-6-WN08

• Chipping resistance has improved thanks to stable clamping even at high speed

→ **Minimized unexpected tool breakage**

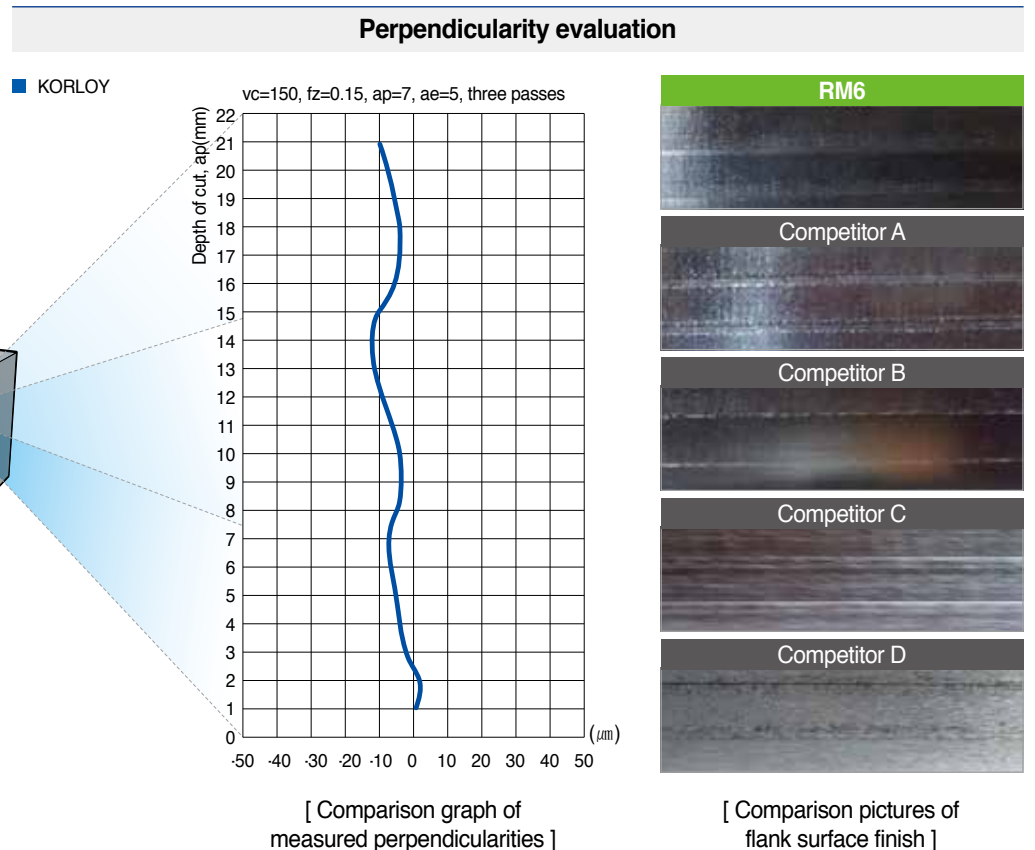
• Sharp cutting edges and streamlined chip breaker design

→ **Minimized cutting resistance**



⇒ Perpendicularity Evaluation

- Workpiece C45(ISO), SM45C(KS), 1045(AISI), 300(L)x200(W)x100(H), Steel rectangular tube
- Cutting conditions $vc(m/min)=150$, $fz(mm/t)=0.15$, $ap(mm)=7$, $ae(mm)=5$, Dry
- Machining method Perpendicularity, flank surface finish, and unevenness were measured after three passes of 7mm each, and 21mm in total
- Tools Insert WNGX080608PNSR-MM(PC5300) Holder RM6PCM063R-22-6-WN08



➤ Application Examples



Carbon steel [C45(ISO), HB180]

- Cutting conditions vc(m/min)=250, fz(mm/t)=0.12, ap(mm)=7, ae(mm)=2, Dry
- Machining method Shouldering
- Tools Insert WNGX080608PNSR-MM(PC5300)
Holder RM6PS032R-2W32-120-WN08



➤ 50% longer tool life compared to the competitor



Cold forged tool steel [X100CrMoV5 1(DIN), HB255]

- Cutting conditions vc(m/min)=235, fz(mm/t)=0.28, ap(mm)=2, ae(mm)=5, Dry
- Machining method Shouldering
- Tools Insert WNGX080608PNER-ML(PC5300)
Holder RM6PCM063R-22-6-WN08



➤ 64% longer tool life compared to the competitor



Cast iron [600-3(ISO), HB230]

- Cutting conditions vc(m/min)=226, fz(mm/t)=0.19, ap(mm)=1, ae(mm)=75, Dry
- Machining method Facing
- Tools Insert WNGX080608PNER-ML(PC5400)
Holder RM6PCM080R-27-7-WN08



➤ 20% longer tool life compared to the competitor



Grade Guideline per Workpiece Type

Cutting conditions		P		M	K	N
		Carbon steel	Alloy steel	Stainless steel	Cast iron	Non ferrous metal
Shape	1st recommended	MM	MM	ML	ML	MA
	2nd recommended	ML	ML	-	MM	MA
Grade	High speed milling	PC3600	PC3600	PC5300	PC6510	H01
	General milling	PC5400	PC5300	PC5400	PC5300	H01
	Interrupted milling	PC5400	PC5400	PC5400	PC5400	H01

Recommended Cutting Conditions

WNGX04

Workpiece	Grade	WNGX040304PNSR-MM			WNGX040304PNER-ML			WNGX040304PNFR-MA			
		vc (m/min)	fz (mm/t)	max. ap(mm)	vc (m/min)	fz (mm/t)	max. ap(mm)	vc (m/min)	fz (mm/t)	max. ap(mm)	
P	Steel	PC3600	160~270	0.25~0.05	4.3	160~270	0.20~0.05	4.3	-	-	4.3
		PC5300	150~240	0.25~0.05	4.3	150~240	0.25~0.05	4.3	-	-	4.3
		PC5400	130~210	0.25~0.05	4.3	130~210	0.25~0.05	4.3	-	-	4.3
M	Stainless steel	PC5300	90~150	0.20~0.05	4.3	90~150	0.10~0.05	4.3	-	-	4.3
		PC5400	70~120	0.20~0.05	4.3	70~120	0.10~0.05	4.3	-	-	4.3
K	Cast iron	PC6510	140~230	0.30~0.08	4.3	140~230	0.25~0.08	4.3	-	-	4.3
		PC5300	120~200	0.30~0.08	4.3	120~200	0.25~0.08	4.3	-	-	4.3
N	Non ferrous metal	H01	-	-	4.3	-	-	4.3	500~1000	0.2~0.05	4.3

* The above data refer to general cutting conditions and can be adjustable up to 300m/min and 0.4mm/t depending on user environment.

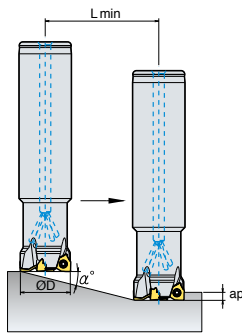
WNGX08

Workpiece	Grade	WNGX080608PNSR-MM			WNGX080608PNER-ML			WNGX080608PNFR-MA			
		vc (m/min)	fz (mm/t)	max. ap(mm)	vc (m/min)	fz (mm/t)	max. ap(mm)	vc (m/min)	fz (mm/t)	max. ap(mm)	
P	Steel	PC3600	160~270	0.25~0.05	8.2	160~270	0.20~0.05	8.2	-	-	8.2
		PC5300	150~240	0.25~0.05	8.2	150~240	0.25~0.05	8.2	-	-	8.2
		PC5400	130~210	0.25~0.05	8.2	130~210	0.25~0.05	8.2	-	-	8.2
M	Stainless steel	PC5300	90~150	0.20~0.05	8.2	90~150	0.10~0.05	8.2	-	-	8.2
		PC5400	70~120	0.20~0.05	8.2	70~120	0.10~0.05	8.2	-	-	8.2
K	Cast iron	PC6510	140~230	0.30~0.08	8.2	140~230	0.25~0.08	8.2	-	-	8.2
		PC5300	120~200	0.30~0.08	8.2	120~200	0.25~0.08	8.2	-	-	8.2
N	Non ferrous metal	H01	-	-	8.2	-	-	8.2	500~1000	0.2~0.05	8.2

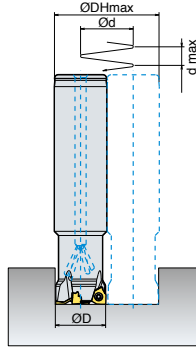
* The above data refer to general cutting conditions and can be adjustable up to 300m/min and 0.4mm/t depending on user environment.

Ramping

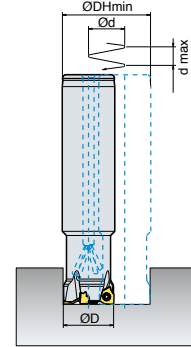
1. Ramping



2. Helical cutting for blind holes



3. Helical cutting for through holes



(mm)

Designation	Tool Dia. ØD	Depth of cut ap	1. Ramping		2. Helical cutting for blind holes				3. Helical cutting for through holes		
			Max. rake angle α°	Lmin	Min. machining Dia. Ø DHmin	Max. pitch dmax	Max. machining Dia. Ø DHmax	Max. pitch dmax	Min. machining Dia. Ø DHmin	Max. pitch dmax	
RM6PS	032R-2W32-120-WN08	32	8	4.6	99.5	53	4.5	62	5.2	38.5	3.2
	040R-3W32-120-WN08	40	8	4.2	109	69	5.3	78	6.0	54.5	4.2
	050R-4W32-120-WN08	50	8	4.0	114.5	89	6.5	98	7.2	74.5	5.5
RM6PCM	063R-22-6-WN08	63	8	4.0	114.5	115	8.0	124	8.0	100.5	7.4
	080R-27-7-WN08	80	8	3.5	131	149	8.0	158	8.0	134.5	8.0
	100R-32-8-WN08	100	8	2.6	176.5	189	8.0	198	8.0	174.5	8.0
	125R-40-11-WN08	125	8	1.8	255	239	8.0	248	8.0	224.5	7.8

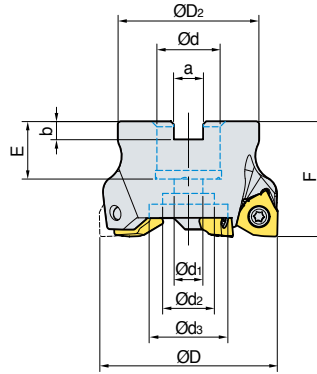
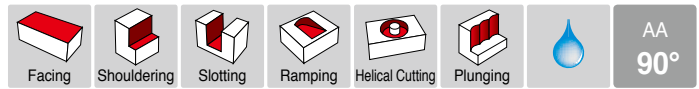
* Lmin = ap/tan(α°)

Lmin : Cutting length at min. rake angle
ap : Axial depth of cut
α° : Available rake angle for ramping

Available Inserts

(mm)

Shape	Designation	Coated					Uncoated	Dimensions (mm)				Figure
		PC3600	PC5300	PC5400	PC6510	H01	d	t	r	Max. ap		
	WNGX	040304PNFR-MA						7.0	3.46	0.4	4.3	
		040308PNFR-MA						7.0	3.46	0.8	4.3	
		040312PNFR-MA						7.0	3.46	1.2	4.3	
		040316PNFR-MA						7.0	3.46	1.6	4.3	
		080604PNFR-MA						13.0	6.4	0.4	8.2	
		080608PNFR-MA					●	13.0	6.4	0.8	8.2	
		080612PNFR-MA						13.0	6.4	1.2	8.2	
		080616PNFR-MA						13.0	6.4	1.6	8.2	
		080620PNFR-MA						13.0	6.4	2.0	8.2	
	WNGX	040304PNER-ML						7.0	3.46	0.4	4.3	
		040308PNER-ML						7.0	3.46	0.8	4.3	
		040312PNER-ML						7.0	3.46	1.2	4.3	
		040316PNER-ML						7.0	3.46	1.6	4.3	
		080604PNER-ML	●	●	●			13.0	6.4	0.4	8.2	
		080608PNER-ML	●	●	●			13.0	6.4	0.8	8.2	
		080612PNER-ML						13.0	6.4	1.2	8.2	
		080616PNER-ML						13.0	6.4	1.6	8.2	
		080620PNER-ML						13.0	6.4	2.0	8.2	
	WNGX	040304PNSR-MM						7.0	3.46	0.4	4.3	
		040308PNSR-MM						7.0	3.46	0.8	4.3	
		040312PNSR-MM						7.0	3.46	1.2	4.3	
		040316PNSR-MM						7.0	3.46	1.6	4.3	
		080604PNSR-MM	●	●				13.0	6.4	0.4	8.2	
		080608PNSR-MM	●	●				13.0	6.4	0.8	8.2	
		080612PNSR-MM						13.0	6.4	1.2	8.2	
		080616PNSR-MM						13.0	6.4	1.6	8.2	
		080620PNSR-MM						13.0	6.4	2.0	8.2	



(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
RM6PCM	040R-16-6-WN04	6	40	35	16	9	14	-	8.4	5.6	19	40	4.3	0.19
	040R-16-7-WN04	7	40	35	16	9	14	-	8.4	5.6	19	40	4.3	0.19
	050R-22-8-WN04	8	50	42	22	11	18	-	10.4	6.3	20	40	4.3	0.28
	050R-22-9-WN04	9	50	42	22	11	18	-	10.4	6.3	20	40	4.3	0.28
	063R-22-10-WN04	10	63	49	22	11	18	-	10.4	6.3	20	40	4.3	0.47
	063R-22-11-WN04	11	63	49	22	11	18	-	10.4	6.3	20	40	4.3	0.47
	050R-22-4-WN08	4	50	42	22	11	18	-	10.4	6.3	20	40	8.2	0.28
	050R-22-5-WN08	5	50	42	22	11	18	-	10.4	6.3	20	40	8.2	0.27
	063R-22-5-WN08	5	63	49	22	11	18	-	10.4	6.3	20	40	8.2	0.45
	063R-22-6-WN08	6	63	49	22	11	18	-	10.4	6.3	20	40	8.2	0.45
	080R-27-7-WN08	7	80	57	27	14	20	35	12.4	7	23	50	8.2	0.90
	080R-27-9-WN08	9	80	57	27	14	20	35	12.4	7	23	50	8.2	0.89
	100R-32-8-WN08	8	100	67	32	18	26	42	14.4	8	25	50	8.2	1.47
	100R-32-11-WN08	11	100	67	32	18	26	42	14.4	8	25	50	8.2	1.45
	125R-40-11-WN08	11	125	90	40	22	32	52	16.4	10	29	63	8.2	2.94
125R-40-14-WN08	14	125	90	40	22	32	52	16.4	10	29	63	8.2	2.91	
RM6PC	080R-25.4-7-WN08	7	80	57	25.4	14	20	35	9.5	6	25	50	8.2	0.91
	080R-25.4-9-WN08	9	80	57	25.4	14	20	35	9.5	6	25	50	8.2	0.91
	100R-31.75-8-WN08	8	100	67	31.75	18	26	42	12.7	8	32	63	8.2	1.69
	100R-31.75-11-WN08	11	100	67	31.75	18	26	42	12.7	8	32	63	8.2	1.73
	125R-38.1-11-WN08	11	125	90	38.1	22	32	52	15.9	9	35	63	8.2	1.98
	125R-38.1-14-WN08	14	125	90	38.1	22	32	52	15.9	9	35	63	8.2	2.90

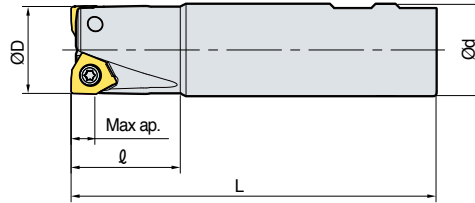
► Available Arbors

Cutter designation	NC arbors
RM6PCM 040R-16-6-WN04	BT□□-FMC16-□□
040R-16-7-WN04	
050R-22-8-WN04	BT□□-FMC22-□□
050R-22-9-WN04	
063R-22-10-WN04	
063R-22-11-WN04	
050R-22-4-WN08	
050R-22-5-WN08	
063R-22-6-WN08	
063R-22-7-WN08	



Cutter designation	NC arbors
RM6PCM 080R-27-7-WN08	BT□□-FMC27-□□
080R-27-9-WN08	
100R-32-8-WN08	BT□□-FMC32-□□
100R-32-11-WN08	
125R-40-11-WN08	
125R-40-14-WN08	BT□□-FMC40-□□
RM6PC 080R-25.4-7-WN08	BT□□-FMA25.4-□□
080R-25.4-9-WN08	
100R-31.75-8-WN08	BT□□-FMA31.75-□□
100R-31.75-11-WN08	
125R-38.1-11-WN08	BT□□-FMA38.1-□□
125R-38.1-14-WN08	

► Parts





Specification	Screw	Wrench	Wrench
WNGX04 Ø40 ~ Ø63	ETNA02506	TW07S	-
WNGX08 Ø50 ~ Ø125	FTNA0512	-	TW20-100



(mm)

Designation		ØD	Ød	l	L	ap	
RM6PS	020R-2W20-110-WN04	2	20	20	35	110	0.22
	020R-3W20-110-WN04	3	20	20	35	110	0.22
	025R-3W25-110-WN04	3	25	25	35	110	0.36
	025R-4W25-110-WN04	4	25	25	35	110	0.35
	032R-5W32-110-WN04	5	32	32	35	110	0.60
	025R-6W32-110-WN04	6	32	32	35	110	0.60
	032R-2W32-120-WN08	3	32	32	40	120	0.65
	040R-3W32-120-WN08	3	40	32	40	120	0.69
	040R-4W32-120-WN08	4	40	32	40	120	0.69
	050R-4W32-120-WN08	4	50	32	40	120	0.76
	050R-5W32-120-WN08	5	50	32	40	120	0.76

Parts

Specification	Screw	Wrench	Wrench
WNGX04	 ETNA02506	 TW07S	-
WNGX08	 FTNA0512	-	 TW20-100



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