

Economical and efficient mill with doubled sided inserts

Rich Mill

RM3 / RM4 / RM4Z / RM8 / RMH8 / RMT8 / RM16



Negative insert makes it stronger for long tool life

- Rich mill series innovative double sided insert design provides more cutting edges and longer tool life
- Rich mill has unique geometry and a special cutting edge to provide lower cutting loads and longer tool life
- Rich mill series has both screw on clamping system and latch clamping system



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RM3



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RM8



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RM16



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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

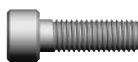
Code system

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

Features

- 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

Rich Mill clamping bolt



Socket bolt
(Ø50~Ø125 - Hexagonal socket bolt)



Mounting bolt
(Ø160~Ø250 - Mounting bolt for general face milling)

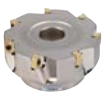
Rich Mill series



Rich Mill



Cutters

Type	A.A	Designation	Shape	Diameter range	Features	Application				
						Facing	Shouldering	Slotting	Copying	Ramping, Helical
RM3	0°	RM3PC(M)4000 <i>New</i>		Ø40~Ø125	3 corners available Perfect perpendicular shouldering operation multi milling tool	●	●	●	●	●
RM4	0°	RM4PC(M)3000		Ø40~Ø100	4 corners available High rake angle insert reduces cutting force. Excellent insert rigidity.	●	●	●		●
		RM4PC(M)4000		Ø50~Ø160						
	0°	RM4ZCM3000 <i>New</i>		Ø40~Ø52	In vertical machining, the maximum cutting depth for RM4Z3000: 9.00mm, RM4Z4000: 14.0mm	●	●	●		●
		RM4ZC(M)4000 <i>New</i>		Ø63~Ø100						
RM8	45°	RM8AC(M)4000		Ø50~Ø400	8 corners available Double sided insert for steel, cast iron, stainless steel, aluminum	●				
		RM8AC(M)5000		Ø80~Ø400						
	15°	RM8EC(M)4000		Ø50~Ø400	8 corners available Double sided insert for steel, cast iron	●				
		RM8EC(M)5000		Ø80~Ø400						
	2°	RM8QC(M)4000		Ø63~Ø200	8 corners available Reduced cutting interruption at cast iron	●				
	45°	RMH8AC(M)4000 <i>New</i>		Ø50~Ø400	8 corners available Double sided insert for steel, cast iron, stainless steel, aluminum	●				
		RMH8AC(M)5000 <i>New</i>		Ø80~Ø400						
	15°	RMH8EC(M)4000 <i>New</i>		Ø50~Ø400	8 corners available Double sided insert for steel, cast iron	●				
		RMH8EC(M)5000 <i>New</i>		Ø80~Ø400						
	2°	RMH8QC(M)4000 <i>New</i>		Ø80~Ø200	8 corners available Reduced cutting interruption at cast iron	●				
RM16	45°	RMT8A(M) 4000/5000		Ø80~Ø315	Easy insert change and good machinability due to latch clamping system	●				
	15°	RMT8E(M) 4000/5000		Ø80~Ø315		●				
	2°	RMT8Q(M)4000		Ø80~Ø315	Excellent surface finish	●				
RM16	45°	RM16AC(M) 6000/8000		Ø63~Ø400	16 corners available Wiper inserts can be applied for good surface finish strong insert and powerful clamping.	●				

Shanks

Type	A.A	Designation	Shape	Diameter range	Features	Application				
						Facing	Shouldering	Slotting	Copying	Ramping, Helical
RM3	-	RM3PS3000 <i>New</i>		Ø20~Ø40	3 corners available Perfect perpendicular shouldering operation multi milling tool	●	●	●	●	●
RM4	0°	RM4PS3000		Ø14~Ø50	4corners available High rake angle insert reduces cutting force Excellent insert rigidity	●	●	●	●	●
		RM4PS4000		Ø32~Ø63		●	●	●	●	●
	0°	RM4ZS3000 <i>New</i>		Ø25~Ø40	In vertical machining, the maximum cutting width : 9.0mm	●	●	●	●	●

Modular Adaptors



Rich Mill

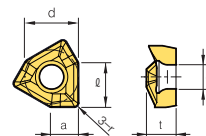


Inserts

RM3

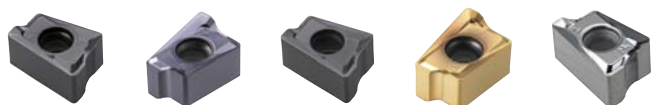


XNKT-MM XNKT-ML

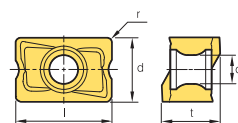


Designation		Coated								Cermet			Uncoated				Dimensions(mm)							
		NCM325	NCM335	NC5330	PC3600	PC5300	PC5400	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	a
XNKT	060405PNSR-MM				●	●	●	●											5.7	6.5	4.0	0.5	3.4	1.8
	080508PNSR-MM				●	●	●	●											8.2	10.5	5.5	0.8	4.5	2.9
XNKT	060405PNSR-ML				●	●	●	●											5.7	6.5	4.0	0.5	3.4	1.8
	080508PNSR-ML				●	●	●	●											8.2	10.0	5.5	0.8	4.5	2.9

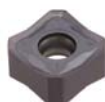
RM4



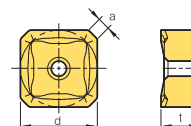
LNM(E)X-MF LNM(E)X-MF LNM(E)X-MM LNM(E)X-MM LNM(E)X-MM



Designation		Coated								Cermet			Uncoated				Dimensions(mm)							
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	a
LNMX	100605PNR-MF				●	●	●		●										10.0	6.5	6.5	0.5	3.5	-
	100608PNR-MF								●										10.0	6.5	6.5	0.8	3.5	-
LNEX	100605PNR-MF				●	●	●		●										10.0	6.5	6.5	0.5	3.5	-
	100608PNR-MF				●				●										10.0	6.5	6.5	0.8	3.5	-
LNMX	151004PNR-MF				●				●										15.0	10.0	10.0	0.4	4.5	-
	151008PNR-MF				●	●	●		●										15.0	10.0	10.0	0.8	4.5	-
	151016PNR-MF																		15.0	10.0	10.0	1.6	4.5	-
LNEX	151004PNR-MF				●				●										15.0	10.0	10.0	0.4	4.5	-
	151008PNR-MF				●	●	●		●										15.0	10.0	10.0	0.8	4.5	-
	151016PNR-MF																		15.0	10.0	10.0	1.6	4.5	-
LNMX	100605PNR-MM				●	●	●	●	●										15.0	6.5	6.5	0.5	3.5	-
	100608PNR-MM				●														15.0	6.5	6.5	0.8	3.5	-
	100605PNL-MM				●														15.0	6.5	6.5	0.5	3.5	-
LNEX	100605PNR-MM				●		●												15.0	6.5	6.5	0.5	3.5	-
	100608PNR-MM								●										15.0	6.5	6.5	0.8	3.5	-
	100605PNL-MM																		15.0	6.5	6.5	0.5	3.5	-
LNMX	151004PNR-MM								●										15.0	10.0	10.0	0.4	4.5	-
	151008PNR-MM				●	●	●	●	●										15.0	10.0	10.0	0.8	4.5	-
	151016PNR-MM				●														15.0	10.0	10.0	1.6	4.5	-
	151008PNL-MM																		15.0	10.0	10.0	0.8	4.5	-
LNEX	151004PNR-MM								●										15.0	10.0	10.0	0.4	4.5	-
	151008PNR-MM				●	●	●		●										15.0	10.0	10.0	0.8	4.5	-
	151016PNR-MM																		15.0	10.0	10.0	1.6	4.5	-
	151008PNL-MM																		15.0	10.0	10.0	0.8	4.5	-
LNEX	100605PNR-MA													●					15.0	6.5	6.5	0.5	3.5	-
	151004PNR-MA													●					15.0	10.0	10.0	0.4	4.5	-
	151008PNR-MA													●					15.0	10.0	10.0	0.8	4.5	-

RM8**SNEX-ML**

SNEX-W



Designation		Coated									Cermet			Uncoated				Dimensions(mm)						
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD215K	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	a
SNCF	1206ANN-MF																		-	12.7	6.6	-	-	2
	1507ANN-MF								●										-	15.875	7.35	-	-	2.1
SNMF	1206ANN-MF																		-	12.7	6.6	-	-	2
	1507ANN-MF																		-	15.875	7.35	-	-	2.1
SNCF	1206ENN-MF								●										-	12.7	6.6	-	-	1.8
	1507ENN-MF				●				●										-	15.875	7.35	-	-	1.8
SNMF	1206ENN-MF				●														-	12.7	6.6	-	-	1.8
	1507ENN-MF																		-	15.875	7.35	-	-	1.8
SNCF	1206QNN-MF				●				●										-	12.7	6.6	0.8	-	1
SNMF	1206QNN-MF				●														-	12.7	6.6	0.8	-	1
SNCF	1206ANN-MM				●														-	12.7	6.6	-	-	2
	1507ANN-MM				●			●											-	15.875	7.35	-	-	2.1
SNMF	1206ANN-MM																		-	12.7	6.6	-	-	2
	1507ANN-MM				●														-	15.875	7.35	-	-	2.1
SNCF	1206ENN-MM				●			●											-	12.7	6.6	-	-	1.8
	1507ENN-MM							●											-	15.875	7.35	-	-	1.8
SNMF	1206ENN-MM				●														-	12.7	6.6	-	-	1.8
	1507ENN-MM				●														-	15.875	7.35	-	-	1.8
SNCF	1206QNN-MM				●			●	●										-	12.7	6.6	0.8	-	1
SNMF	1206QNN-MM				●														-	12.7	6.6	0.8	-	1
SNEX	1206ANN-MA													●					-	12.7	6.35	-	4.5	2.36
	1206ENN-MA				●				●					●					-	12.7	6.35	-	5.2	1.82
	1206QNN-MA																		-	12.7	6.35	-	5.2	1.39
	120612-MA													●					-	12.7	6.35	1.2	5.2	-
SNEX	1206ANN-ML					●	●												-	12.7	6.35	-	4.5	-
	1206ENN-ML					●	●												-	12.7	6.35	-	4.5	2.36
	1206QNN-ML					●	●												-	12.7	6.35	-	4.5	1.82
	120612-ML					●	●												-	12.7	6.35	1.2	4.5	1.39
	1507ANN-ML					●	●												-	15.875	7.94	-	5.6	3.16
	1507ENN-ML					●	●												-	15.875	7.94	-	5.6	2.66
SNMX	1206ANN-MF				●	●	●		●										-	12.7	6.35	-	4.5	2.36
	1507ANN-MF				●				●										-	15.875	7.94	-	5.6	3.15
SNEX	1206ANN-MF				●	●	●		●										-	12.7	6.35	-	4.5	2.36
	1507ANN-MF				●				●										-	15.875	7.94	-	5.6	3.15
SNMX	1206ENN-MF				●	●	●		●										-	12.7	6.35	-	4.5	1.82
	1507ENN-MF				●				●										-	15.875	7.94	-	5.6	2.66
SNEX	1206ENN-MF					●	●		●										-	12.7	6.35	-	4.5	1.82
	1507ENN-MF				●				●										-	15.875	7.94	-	5.6	2.66
SNMX	1206QNN-MF				●	●	●		●										-	12.7	6.35	-	5.2	2.36
	120612-MF																		-	12.7	6.35	1.2	5.2	-
SNEX	1206QNN-MF				●		●		●										-	12.7	6.35	-	5.2	2.36
	120612-MF																		-	12.7	6.35	1.2	5.2	-

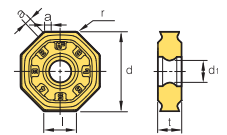
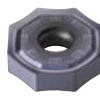
Rich Mill



RM8

Designation		Coated									Cermet			Uncoated				Dimensions(mm)						
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SNMX	1206ANN-MM	●		●	●	●	●	●	●										-	12.7	6.35	-	4.5	2.36
	1507ANN-MM				●				●										-	15.875	7.94	-	5.6	3.15
SNEX	1206ANN-MM	●			●	●	●		●	●									-	12.7	6.35	-	4.5	2.36
	1507ANN-MM				●				●										-	15.875	7.94	-	5.6	3.15
SNMX	1206ENN-MM				●	●	●		●										-	12.7	6.35	-	5.2	1.82
	1507ENN-MM				●				●										-	15.875	7.94	-	5.6	2.66
SNEX	1206ENN-MM				●	●	●		●										-	12.7	6.35	-	5.2	1.82
	1507ENN-MM				●				●										-	15.875	7.94	-	5.6	2.66
SNMX	1206QNN-MM				●		●		●										-	12.7	6.35	-	4.5	2.36
	120612-MM				●				●										-	12.7	6.35	1.2	4.5	-
SNEX	1206QNN-MM				●		●		●										-	12.7	6.35	-	4.5	2.36
	120612-MM								●										-	12.7	6.35	1.2	4.5	-
SNEX	1206ANN-W				●				●										-	12.7	6.35	-	4.5	7.6

RM16



ONHX-MF ONHX-ML ONHX-MM ONHX-MA ONHX-W ONMX-MF ONMX-MM

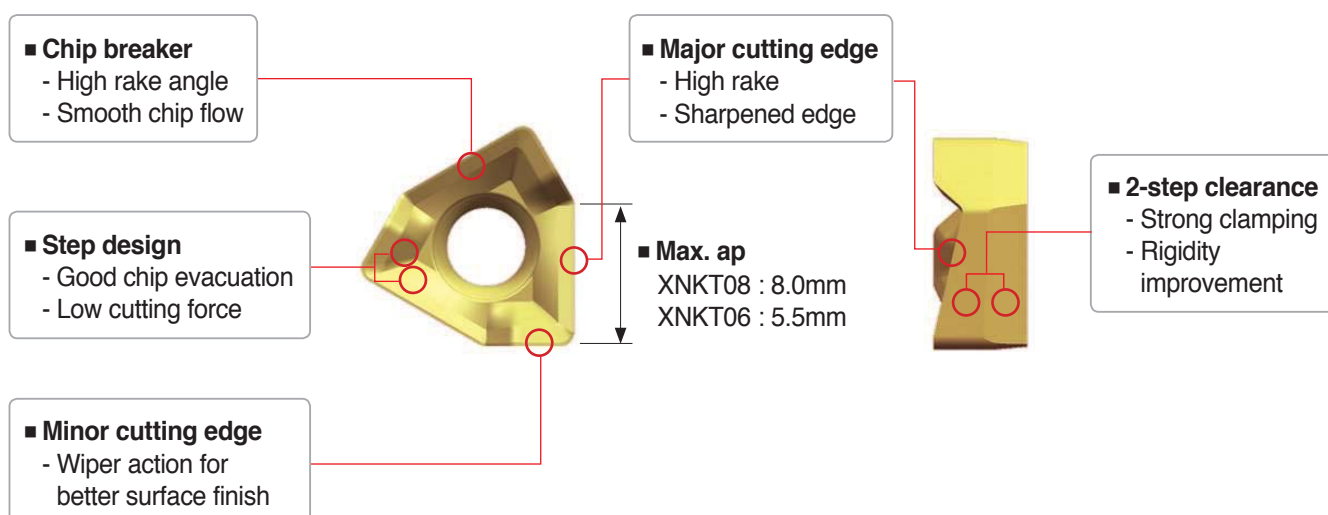
Designation		Coated									Cermet			Uncoated				Dimensions(mm)						
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PC215K	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	a
ONHX	060608-MF				●				●										6.6	16.0	6.0	0.8	5.6	-
	080608-MF																		8.4	20.2	6.0	0.8	5.6	-
	0606ANN-MF								●										6.6	16.0	6.0	0.8	5.6	1.03
	0806ANN-MF					●	●		●										8.4	20.2	6.0	0.8	5.6	1.53
ONHX	060608-ML					●	●												6.6	16.0	6.0	0.8	5.6	-
	080608-ML					●	●												8.4	20.2	6.0	0.8	5.6	-
ONHX	060608-MM				●				●										6.6	16.0	6.0	0.8	5.6	-
	080608-MM				●				●										8.4	20.2	6.0	0.8	5.6	-
	0606ANN-MM																		6.6	16.0	6.0	0.8	5.6	1.03
	0806ANN-MM						●												8.4	20.2	6.0	0.8	5.6	1.53
ONHX	060608-MA													●					6.6	16.0	6.0	0.8	5.6	-
	080608-MA													●					8.4	20.2	6.0	0.8	5.6	-
ONHX	060608-W				●	●		●	●										6.5	16.0	6.0	0.8	5.6	-
	080608-W				●														8.2	20.2	6.0	0.8	5.6	-
ONMX	060608-MF				●				●										6.6	16.0	6.0	0.8	5.6	-
	080608-MF								●										8.4	20.2	6.0	0.8	5.6	-
	0606ANN-MF					●	●		●	●									6.6	16.0	6.0	0.8	5.6	1.03
	0806ANN-MF				●	●			●										8.4	20.2	6.0	0.8	5.6	1.53
ONMX	060608-MM				●				●										6.6	16.0	6.0	0.8	5.6	-
	080608-MM				●	●		●	●										8.4	20.2	6.0	0.8	5.6	-
	0606ANN-MM				●	●	●		●	●									6.6	16.0	6.0	0.8	5.6	1.03
	0806ANN-MM				●	●			●	●									8.4	20.2	6.0	0.8	5.6	1.53

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



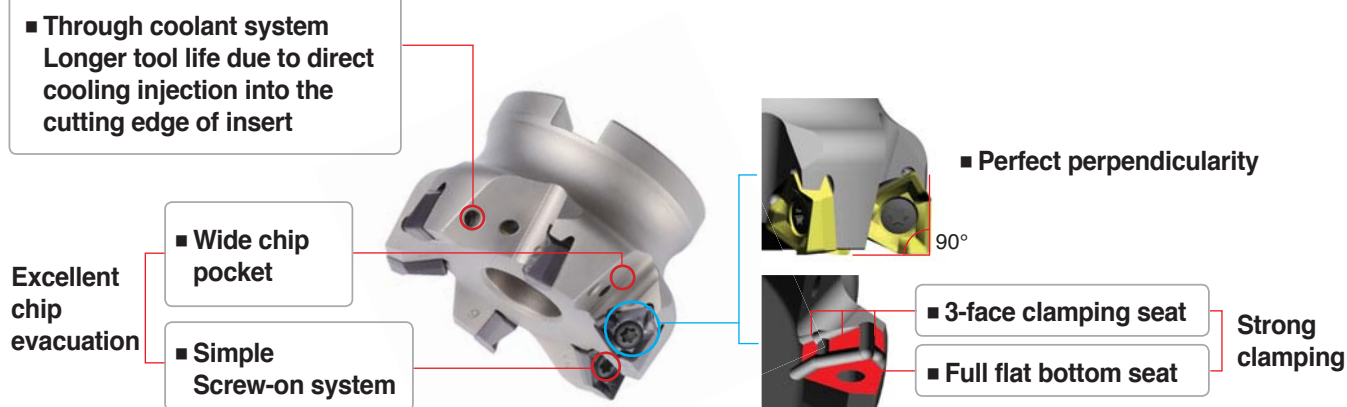
Features of chip breakers

Chip breaker	Insert	Cutting edge	Applications	Features
MM			General	• General shouldering operation • 1st recommendation
ML			Light	• ML : Milling Light • Sharp cutting edge for hard-to-cut material • Low cutting force

RM3



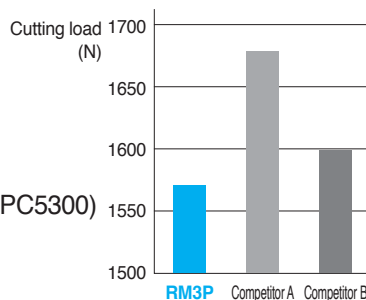
Features of cutter



- **Workpiece** SCM440 (200HB)
- **Cutting conditions** $vc(m/min) = 250$
 $fz(mm/t) = 0.1$
 $ap(mm) = 3.0$
dry

- **Tool** Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M

- **Machine** Vertical M/C

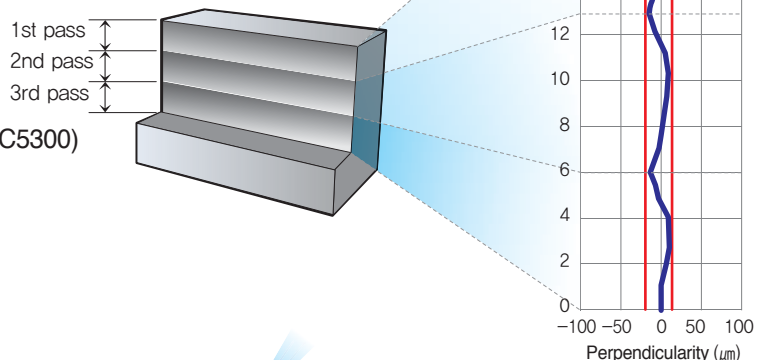


Cutting edge	Features
	True positive clearance due to high rake angle → Excellent machineability

- **Workpiece** SCM440 (200HB)
- **Cutting conditions** $vc(m/min) = 200$
 $fz(mm/t) = 0.1$
 $ap(mm) = 7.0 \times 3$ pass
 $ae(mm) = 10.0$
dry

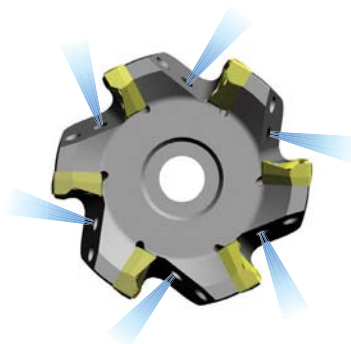
- **Tool** Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M

- **Machine** Vertical M/C



Through coolant system

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



Application guideline for grade

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

Recommended cutting condition

■ RM3 3000 type

Workpiece		Grade	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	XNKT060405 PNSR-MM	160~270	0.2~0.05	5.5	XNKT060405 PNER-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				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	XNKT080508 PNSR-MM	160~270	0.25~0.05	8.0	XNKT080508 PNER-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	

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

RM3



Cutting performance

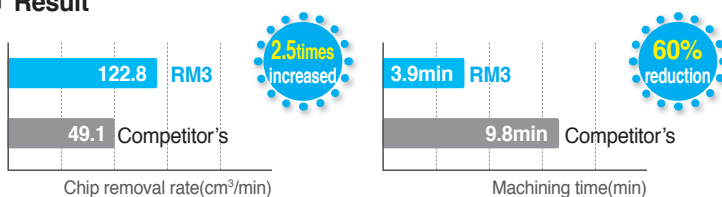
P Carbon steel (SM45C, HB200)

- **Cutting conditions** Competitor's $vc(m/min) = 270$, $fz(mm/t) = 0.2$, $ap(mm) = 6.0 \times 4$ pass, $ae(mm) = 5.0$
RM3 $vc(m/min) = 270$, $fz(mm/t) = 1.0$, $ap(mm) = 3.0 \times 8$ pass, $ae(mm) = 5.0$

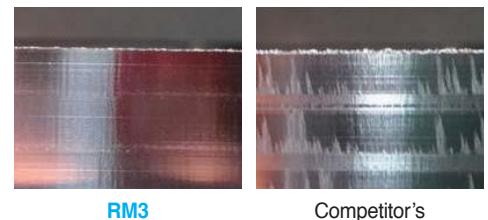
- **Application area** Shouldering

- **Tools** Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M

■ Result



■ Surface finish (shouldering, side face)



RM3

Competitor's

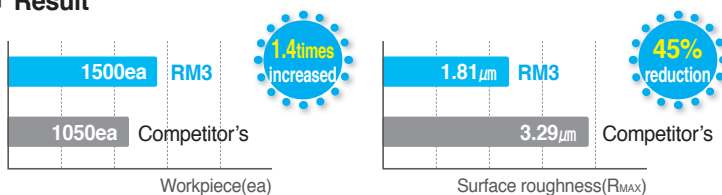
P Alloy steel (SCM440, HB200)

- **Cutting conditions** Competitor's $vc(m/min) = 250$, $fz(mm/t) = 0.125$, $ap(mm) = \text{Finishing } 0.5 / \text{Roughing } 7.0$
RM3 $vc(m/min) = 250$, $fz(mm/t) = 0.125$, $ap(mm) = \text{Finishing } 0.5 / \text{Roughing } 7.0$

- **Application area** Facing

- **Tools** Insert XNKT080508PNSR-MM (PC5300)
Cutter RM3PCM4063HR-M

■ Result



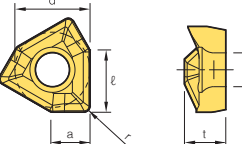
■ Surface roughness



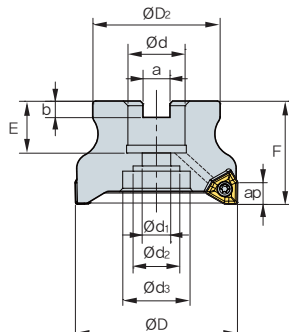
RM3

Competitor's

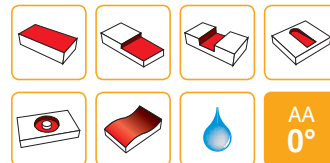
Available inserts

Designation		Cutter	Coated				Dimensions (mm)						Configuration
			PC3600	PC5300	PC5400	PC6510	ℓ	d	t	r	d1	a	
XNKT	060405PNSR-MM	3000 type	●	●	●	●	5.7	6.5	4.0	0.5	3.4	1.8	
	060405PNER-ML	3000 type	●	●	●	●							
	080508PNSR-MM	4000 type	●	●	●	●	8.2	10.0	5.5	0.8	4.5	2.9	
	080508PNER-ML	4000 type	●	●	●	●							

RM3PC(M)4000 *New*



- AR : -5°
- RR : -8°~-6°



Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	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	6	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

Available inserts

Designation	Coated			
	PC3600	PC5300	PC5400	PC6510
XNKT080508PNSR-MM	●	●	●	●
XNKT080508PNER-ML	●	●	●	●

Available arbors

Designation	RM3PC	RM3PCM
RM3PCM4040HR-□□		BT□□-FMC16-□□
RM3PCM4050HR-□□		BT□□-FMC22-□□
RM3PCM4063HR-□□		
RM3PC(M)4080HR-□□	BT□□-FMA25.4-□□	BT□□-FMC27-□□
RM3PC(M)4100HR-□□	BT□□-FMA31.75-□□	BT□□-FMC32-□□
RM3PC(M)4125HR-□□	BT□□-FMA38.1-□□	BT□□-FMC40-□□

Parts

Screw	Wrench
FTNA0408	TW15S

RM3

RM3PS3000 *New*

- AR : -5°
- RR : -16°~-9°

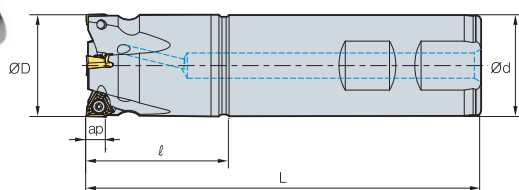


Fig. 1

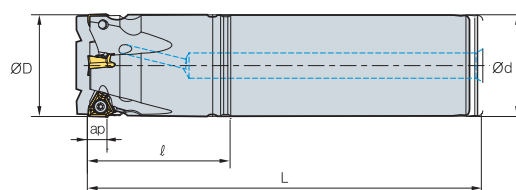


Fig. 2

(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-2S20	2	25	20	35	115	5.5	0.27	2
	3025HR-2L20	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

Designation	Coated			
	PC3600	PC5300	PC5400	PC6510
XNKT060405PNSR-MM	●	●	●	●
XNKT060405PNER-ML	●	●	●	●

Parts



FTNA0306



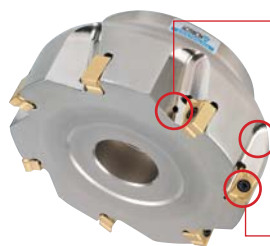
TW09S

Rich Mill RM4

- 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

- 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



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

- Wide chip pocket for better chip evacuation

- Simple screw on system

Insert features

- 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



- **Chip breaker**
 - High rake angle chip breaker
 - Improving chip control

- **Step design**
 - Improving chip control
 - Reducing cutting load

- **Minor cutting edge**
 - Special design of cutting edge to improve surface roughness

- **Major cutting edge**
 - High rake angle chip breaker
 - Better surface roughness

- **Concave design**
 - 4 cutting edges
 - Minimize interference

- **Clearance face**
 - Strong negative face
 - Strong cutting edge

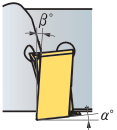
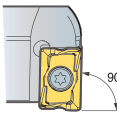
RM4



Chip breaker

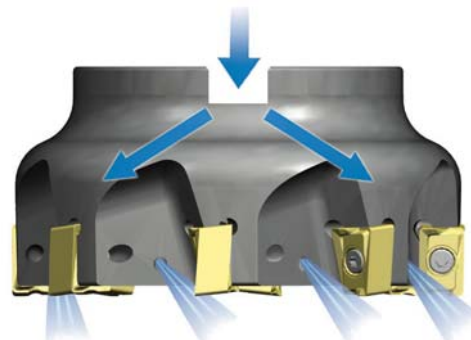
Insert		Cutting edge	Features
Aluminum, Light machining MA			With sharp edge application the better productivity has been accomplished, especially for Aluminum or low force cut
Light cutting MF			Due to low cutting load, it is good for light cutting and difficult-to-cut material.
General cutting MM	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

Setting configuration

Shape	Cutting edge	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

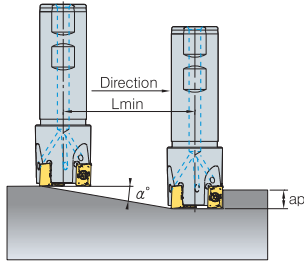
- By using on exclusive coolant bolt(hexagonal socket bolt) powerful cooling & better chip evacuation can be acquired. To get optimal chip control, the direction of coolant injection has been designed to reach to each cutting edge directly. (through coolant arbor is required.)



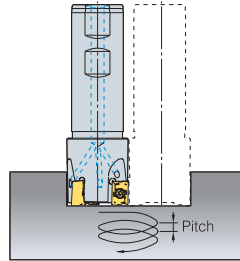
Through coolant system for decreasing cutting heat
and good chip evacuation

Ramping and Helical cutting

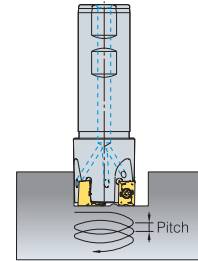
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



Designation		Ramping			Helical cutting for blind hole			Helical cutting for through hole		
		D	α°	Lmin	Maximum hole diameter	Maximum pitch	Minimum hole diameter	Maximum pitch	Minimum hole diameter	Maximum pitch
RM4PS	3014HR	14	4.5	125	27	3.1	25	2.7	19	1.3
	3016HR	16	3.5	160	31	2.7	29	2.5	23	1.4
	3018HR	18	3.0	185	35	2.7	33	2.4	27	1.5
	3020HR	20	2.7	204	39	2.7	37	2.5	31	1.6
	3025HR	25	1.8	301	49	2.3	47	2.1	41	1.6
	3032HR	32	1.2	451	63	2.0	61	1.9	55	1.5
	3040HR	40	0.9	616	79	1.8	77	1.8	71	1.5
	3050HR	50	0.6	843	99	1.5	97	1.5	91	1.3
RM4PC	3040HR	40	0.9	616	79	1.8	77	1.8	71	1.5
	3050HR	50	0.6	843	99	1.5	97	1.5	91	1.3
	3063HR	63	0.5	1123	125	1.6	123	1.6	117	1.4
	3080HR	80	0.3	1508	159	1.2	157	1.2	151	1.1
	3100HR	100	0.2	1910	199	1.0	197	1.0	191	0.9
RM4PS	4032HR	32	2.5	229	62	4	59.5	3.0	49	2.0
	4040HR	40	2.0	286	78	4	75.5	3.0	65	2.0
	4050HR	50	2.0	286	98	5	95.5	4.0	85	3.5
	4063HR	63	2.0	286	124	5	121.5	5.0	111	5.0
RM4PC	4050HR	50	2.0	286	98	5	95.5	4.0	85	3.5
	4063HR	63	2.0	286	124	5	121.5	5.0	111	5.0
	4080HR	80	1.5	382	158	5	155.5	5.0	145	5.0
	4100HR	100	1.0	573	198	5	195.5	4.5	185	4.0
	4125HR	125	1.0	573	248	5	245.5	5.0	235	5.0
	4160R	160	0.5	1146	318	4	315.5	3.5	305	3.5

The Lmin is when depth of cut is 10.0mm. ($Lmin = 10/\tan \alpha$)

Recommended cutting condition

ISO	Grade	LNM(E)X100605PNR-MF		LNM(E)X100605PNR-MM		LNM(E)X100605PNR-MF		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	
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	-	-	
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	

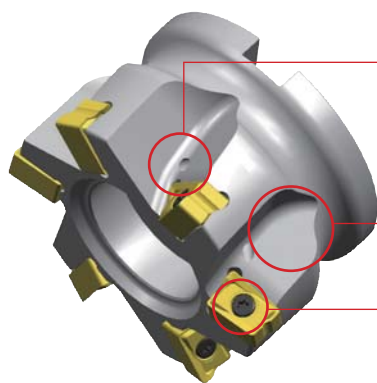
RM4



Rich Mill RM4Z

- 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 9.0mm and that of RM4Z 4000 type is 14.0mm.

Features



■ Through coolant system

- Improving chip control
- Cooling inserts increases tool life

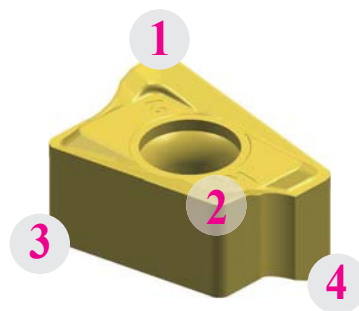
■ Wide chip pocket

■ Screw on system

Improving chip evacuation

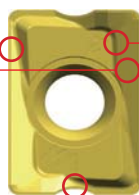
Inserts features

- Double sided insert ... 4 corner available
- High rake angle chip breaker and cutting edge
- Various available machining types
- High efficiency and economical insert
- Negative type insert - Strong cutting edge



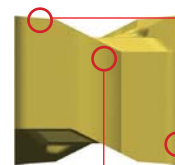
- #### ■ Major cutting edge
- High rake cutting edge
 - Sharp cutting edge

- #### ■ Chip breaker
- High rake angle
 - Control chip flow



- #### ■ Step design
- Improving chip control
 - Reducing cutting load

- #### ■ Concave design
- 4 corner available
 - Avoiding interference of cutting edges

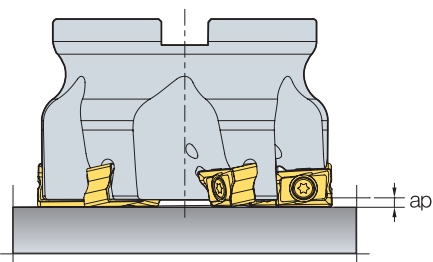


- #### ■ Minor cutting edge
- Special design for plunge machining

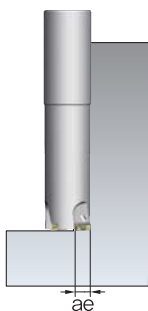
- #### ■ Sides
- Negative type
 - Strong cutting edge

The depth of cut by machining type

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

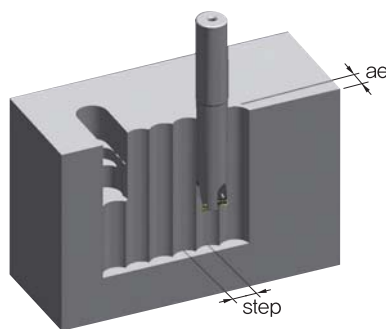


- In plunging, Depth of cut = a_e (mm)



Types	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



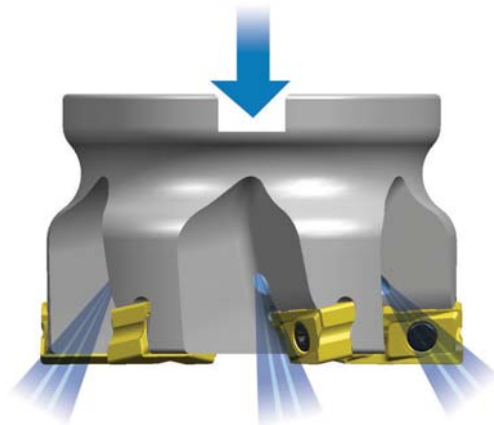
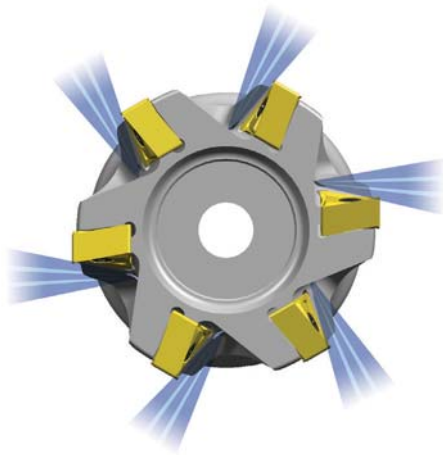
ae	Cutter Diameter(mm)								
	25	32	40	50	52	63	66	80	100
	max step (mm)								
1	9.7	11.1	12.4	14	14.2	15.7	16.1	17.7	19.9
2	13.5	15.4	17.4	19.5	20	22	22.6	24.9	28
3	16.2	18.6	21	23.7	24.2	26.8	27.4	30.3	34.1
4	18.3	21.1	24	27.1	27.7	30.7	31.4	34.8	39.1
5	20	23.2	26.4	30	30.6	34	34.9	38.7	43.5
6	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

RM4

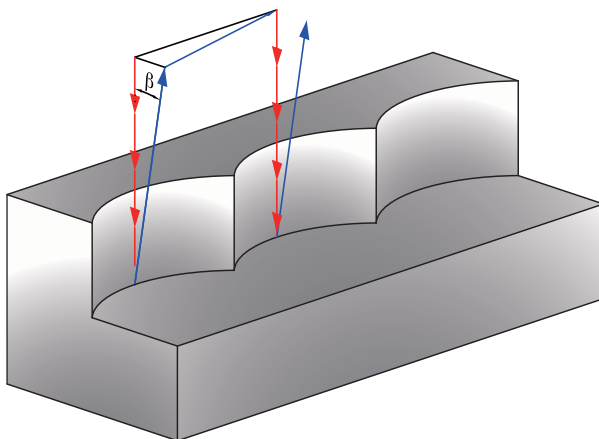


Through coolant system

- By using an exclusive coolant bolt (hexagonal socket bolt), more powerful cooling & better chip evacuation are realized.
- To get optimal chip control, the design of the coolant injection directs coolant directly to each cutting edge (through coolant arbor is necessary.)



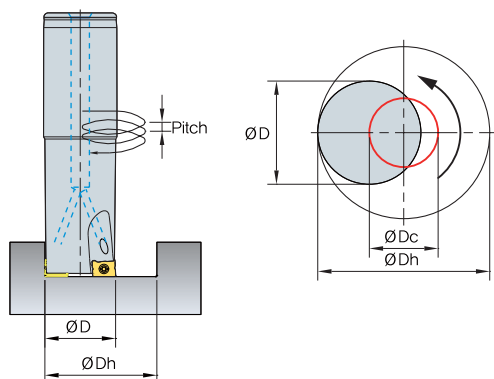
Programming tip



- 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



$$\text{ØDc} = \text{ØDh} - \text{ØD}$$

ØDc = Tool center path

ØDh = Desired hole diameter

ØD = Tool Dia.

Designation		Diameter ØD(mm)	Helical data			
			ØDh max(mm)	Max. Pitch(mm)	ØDh min(mm)	Max. Pitch(mm)
RM4ZS	3025HR-L25	25	48	1	30	0.4
	3032HR-L32	32	62	0	43	0.3
	3040HR-L32	40	78	0	59	0.3
RM4ZC	M3040HR	40	78	0	59	0.3
	M3050HR	50	98	0	79	0.3
	M3052HR	52	102	0	83	0.3
RM4ZM	3025HR-M12	25	48	1	30	0.4
	3032HR-M16	32	62	0	43	0.3
	3040HR-M16	40	78	0	59	0.3
RM4ZC	M4063HR	63	124	1	95	0.5
	M4066HR	66	130	1	101	0.5
	M4080HR	80	158	0	129	0.5
	M4100HR	100	198	0	169	0.3

Recommended cutting condition

ISO	Grade	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
K	PC6510	80~180	0.05~0.20			100~180	0.05~0.20		
M	PC5300	100~250	0.08~0.30			120~250	0.08~0.30		

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

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

RM4



RM4PC(M)3000

- AR : -6°
- RR : -19°~13°

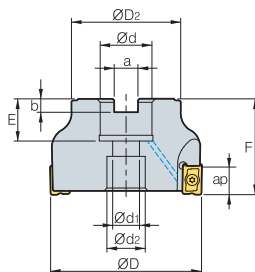


Fig. 1

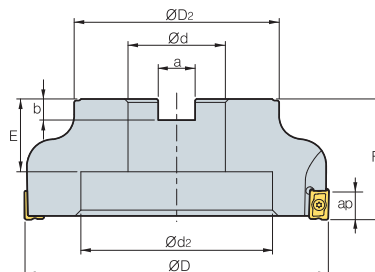


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		Fig.
RM4PCM	3040HR	4	40	35	16	9	14	8.4	5.6	19	40	9.0	0.24	1
	3040HR-M	5	40	35	16	9	14	8.4	5.6	19	40	9.0	0.23	1
	3050HR	5	50	42	22	11	18	10.4	6.3	20	40	9.0	0.36	1
	3050HR-M	7	50	42	22	11	18	10.4	6.3	20	40	9.0	0.35	1
	3063HR	7	63	49	22	11	18	10.4	6.3	20	40	9.0	0.61	1
	3063HR-M	9	63	49	22	11	18	10.4	6.3	20	40	9.0	0.6	1
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)	1
	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)	1
	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)	1
	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)	1

• () Metric size

Available inserts

LNEX-MF	LNEX-MM	LNEX-MA	LNMX-MF	LNMX-MM													
																	
Designation		Coated								Cermet	Uncoated						
		NCM325	NCM335	PC3500	PC3530	PC3545	PC3530	PC3510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX	100605PNR-MF			●	●			●									
LNMX	100605PNR-MF			●	●			●									
LNEX	100605PNR-MM			●	●			●									
LNMX	100605PNR-MM			●	●	●	●	●									
LNEX	100608PNR-MF			●				●									
LNMX	100608PNR-MF							●									
LNEX	100608PNR-MM							●									
LNMX	100608PNR-MM			●													
LNEX	100605PNR-MA													●			
LNEX	100605PNL-MM																
LNMX	100605PNL-MM			●													

Available arbors

Designation	Available arbors	
	RM4PC	RM4PCM
RM4PC(M) 3040HR	-	BT□□-FMC16-□□
3040HR-M	-	
3050HR	-	BT□□-FMC22-□□
3050HR-M	-	
3063HR	-	
3063HR-M	-	
3080HR	BT□□-FMA25.4-□□	BT□□-FMC27-□□
3080HR-M		
3100HR	BT□□-FMA31.75-□□	BT□□-FMC32-□□
3100HR-M		

Parts



FTKA0307



TW09S

RM4PC(M)4000

- AR : -6°
- RR : -19°~-13°

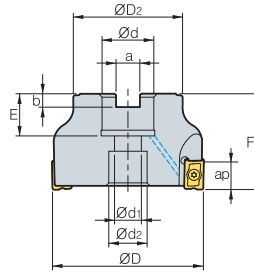
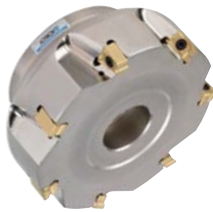


Fig. 1

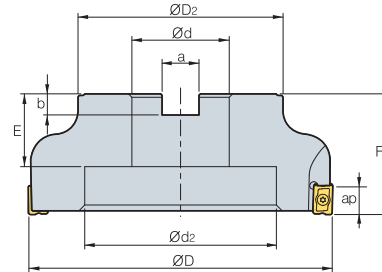


Fig. 2

(mm)

Designation			ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	 kg	Fig.
RM4PCM	4050HR	3	50	46	22	11	18	10.4	6.3	20	40	14	0.36	1
	4050HR-M	4	50	46	22	11	18	10.4	6.3	20	40	14	0.35	1
	4063HR	4	63	49	22	11	18	10.4	6.3	20	40	14	0.56	1
	4063HR-M	6	63	49	22	11	18	10.4	6.3	20	40	14	0.57	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)	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)	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)	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)	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)	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)	1
	4160R	8	160	107	50.8(40)	-	100	19(16.4)	11(9.0)	38(32)	63	14	5.0(4.75)	2
	4160R-M	12	160	107	50.8(40)	-	100	19(16.4)	11(9.0)	38(32)	63	14	4.97(4.71)	2

• () Metric size

Available inserts

LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM										
																		
Designation				Coated					Cermet	Uncoated								
				NCM325	NCM335	NC3330	PC3500	PC5300	PC5400	PC3545	PC3550	PC6510	PD2000	CN2000	CN20	CN30	H01	G10
LNEX	151004PNR-MF				●				●									
LNMX	151004PNR-MF				●				●									
LNEX	151004PNR-MM																	
LNMX	151004PNR-MM																	
LNEX	151008PNR-MF					●	●			●								
LNMX	151008PNR-MF					●	●	●										
LNEX	151008PNR-MM					●	●	●		●								
LNMX	151008PNR-MM					●	●	●	●	●								
LNEX	151016PNR-MF																	
LNMX	151016PNR-MF																	
LNEX	151016PNR-MM																	
LNMX	151016PNR-MM				●													
LNEX	151004PNR-MA														●			
LNEX	151008PNR-MA														●			
LNEX	151008PNL-MM																	
LNMX	151008PNL-MM																	

Available arbors

Designation	Available arbors	
	RM4PC	RM4PCM
RM4PC(M) 4050HR	-	
4050HR-M		BT□□-FMC22-□□
4063HR		
4063HR-M		
4080HR	BT□□-FMA 25.4-□□	BT□□-FMC27-□□
4080HR-M		
4100HR	BT□□-FMA31.75-□□	BT□□-FMC32-□□
4100HR-M		
4125HR	BT□□-FMA38.1-□□	BT□□-FMB40-□□ BT□□-FMC40-□□
4125HR-M		
4160R	BT□□-FMA50.8-□□	
4160R-M		

Parts



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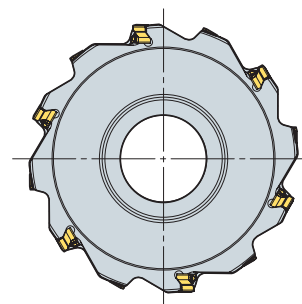
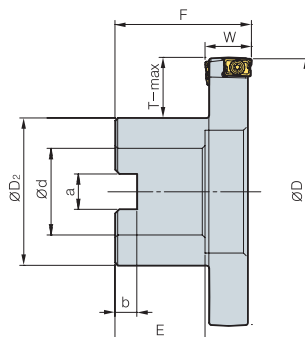


TW15S

RM4



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	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX 100605PNR-MM				●	●	●			●								
LNMX 100605PNR-MM				●	●	●	●	●	●								
LNEX 100605PNL-MM																	
LNMX 100605PNL-MM				●													

Available arbors

Designation	Available arbors	Designation	Available arbors
	RM4PC		RM4PC
RM4PFCB 308011R 308013R 308015R 308017R	BT□□-FMA 25.4-□□	RM4PFCB 312511R 312513R 312515R 312517R	BT□□-FMA38.1-□□
310011R 310013R 310015R 310017R	BT□□-FMA 31.75-□□	316011R 316013R 316015R 316017R	

Parts

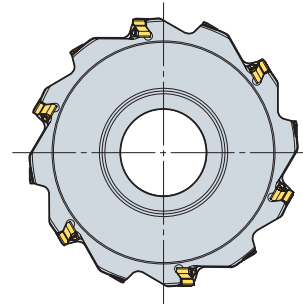
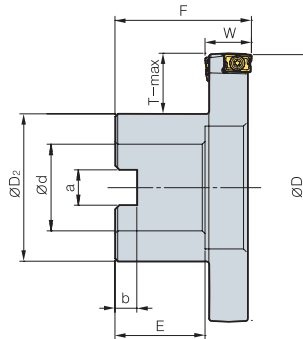


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TW09S

RM4PFCB4000



(mm)

Designation			ØD	ØD2	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	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX 151008PNR-MM				●	●	●			●								
LNMX 151008PNR-MM				●	●	●	●	●	●								
LNEX 151008PNL-MM																	
LNMX 151008PNL-MM																	

Available arbors

Designation	Available arbors	Designation	Available arbors
	RM4PC		RM4PC
RM4PFCB 408022R	BT□□-FMA 25.4-□□	RM4PFCB 412522R	BT□□-FMA38.1-□□
408024R		412524R	
408026R		412526R	
408028R		412528R	
410022R	BT□□-FMA 31.75-□□	416022R	
410024R		416024R	
410026R		416026R	
410028R		416028R	

Parts



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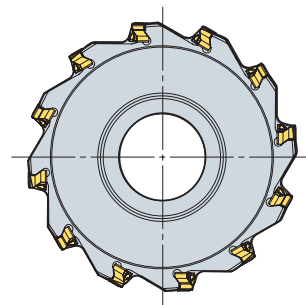
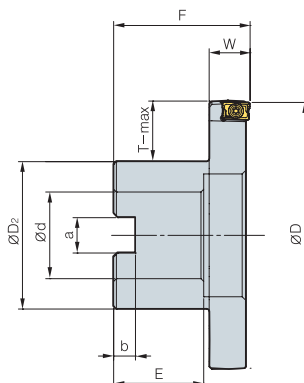
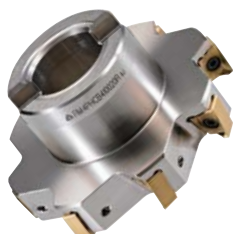


TW15S

RM4



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

LNEX-MF		LNEX-MM		LNEX-MA			LNMX-MF				LNMX-MM							
																		
Designation				Coated								Cermet			Uncoated			
				NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10
LNEX 100605PNR-MF							●	●	●			●						
LNMX 100605PNR-MF							●	●	●			●						
LNEX 100605PNR-MM							●	●	●			●						
LNMX 100605PNR-MM							●	●	●	●	●	●						
LNEX 100608PNR-MF							●					●						
LNMX 100608PNR-MF												●						
LNEX 100608PNR-MM												●						
LNMX 100608PNR-MM							●											
LNEX 100605PNR-MA															●			

Available arbors

Designation		Available arbors	
		RM4PHCB	
RM4PHCB	308015R	BT□□-FMA25.4-□□	
	310015R	BT□□-FMA 31.75-□□	
	312515R		
	316015R	BT□□-FMA38.1-□□	

Parts

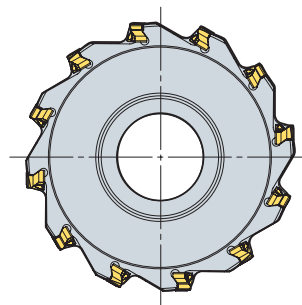
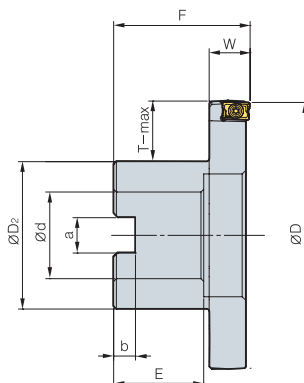
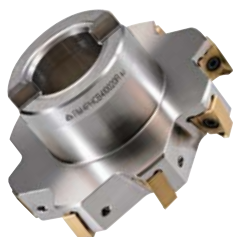


FTKA0307



TW09S

RM4PHCB4000



(mm)

Designation		ØD	ØD2	Ød	a	b	E	F	W	T-max
RM4PHCB	408020R	6	80	40	25.4	9.5	6	25	50	19
	410020R	8	100	54	31.75	12.7	8	32	50	22
	412520R	10	125	70	38.1	15.9	10	38	60	26
	416020R	12	160	70	38.1	15.9	10	38	60	44

Available inserts

LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM										
																		
Designation		Coated									Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX	151004PNR-MF				●					●								
LNMX	151004PNR-MF				●					●								
LNEX	151004PNR-MM																	
LNMX	151004PNR-MM									●								
LNEX	151008PNR-MF				●		●			●								
LNMX	151008PNR-MF				●	●	●			●								
LNEX	151008PNR-MM				●	●	●			●								
LNMX	151008PNR-MM				●	●	●	●	●	●								
LNEX	151016PNR-MF																	
LNMX	151016PNR-MF																	
LNEX	151016PNR-MM																	
LNMX	151016PNR-MM				●													
LNEX	151004PNR-MA														●			
LNEX	151008PNR-MA														●			

Available arbors

Designation		Available arbors
		RM4PHCB
RM4PHCB	408020R	BT□□-FMA25.4-□□
	410020R	BT□□-FMA 31.75-□□
	412520R	
	416020R	BT□□-FMA38.1-□□

Parts



FTKA0412B

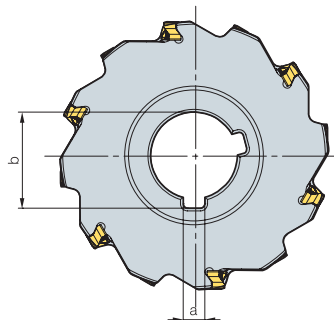
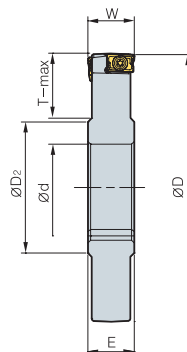


TW15S

RM4



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	17
	308017R	10	80	41.5	25.4	6.35	28	17	17
	310015R	12	100	48	31.75	7.94	35.2	15	24
	310017R	12	100	48	31.75	7.94	35.2	17	24
	312515R	14	125	58	38.1	9.53	42.3	15	32
	312517R	14	125	58	38.1	9.53	42.3	17	32
	316015R	16	160	58	38.1	9.53	42.3	15	49
	316017R	16	160	58	38.1	9.53	42.3	17	49

Available inserts

LNEX-MM

LNMX-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX 100605PNR-MM				●	●	●			●								
LNMX 100605PNR-MM				●	●	●	●	●	●								
LNEX 100605PNL-MM																	
LNMX 100605PNL-MM				●													

Available arbors

Designation	Available arbors	Designation	Available arbors
	RM4PFCP		RM4PC
RM4PFCP 308011R 308013R 308015R 308017R	BT□□-SCA 25.4-□□	RM4PFCP 312511R 312513R 312515R 312517R 316011R 316013R 316015R 316017R	BT□□-SCA38.1-□□
310011R 310013R 310015R 310017R	BT□□-SCA 31.75-□□		

Parts

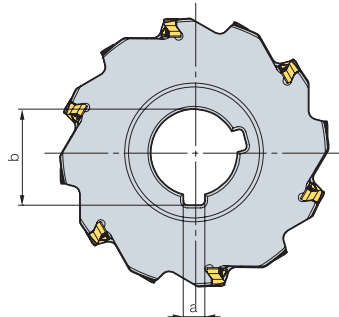
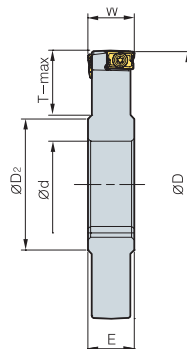


FTKA0307



TW09S

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	17
	408024R	6	80	41.5	25.4	6.35	28	24	17
	408026R	6	80	41.5	25.4	6.35	28	26	17
	408028R	6	80	41.5	25.4	6.35	28	28	17
	410022R	8	100	48	31.75	7.94	35.2	22	24
	410024R	8	100	48	31.75	7.94	35.2	24	24
	410026R	8	100	48	31.75	7.94	35.2	26	24
	410028R	8	100	48	31.75	7.94	35.2	28	24
	412522R	10	125	58	38.1	9.53	42.3	22	32
	412524R	10	125	58	38.1	9.53	42.3	24	32
	412526R	10	125	58	38.1	9.53	42.3	26	32
	412528R	10	125	58	38.1	9.53	42.3	28	32
	416022R	12	160	58	38.1	9.53	42.3	22	49
	416024R	12	160	58	38.1	9.53	42.3	24	49
	416026R	12	160	58	38.1	9.53	42.3	26	49
	416028R	12	160	58	38.1	9.53	42.3	28	49

Available inserts

LNEX-MM

LNMX-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX 151008PNR-MM				●	●	●			●								
LNMX 151008PNR-MM				●	●	●	●	●	●								
LNEX 151008PNL-MM																	
LNMX 151008PNL-MM																	

Available arbors

Designation	Available arbors	Designation	Available arbors	
	RM4PFCP		RM4PC	
RM4PFCP 408022R	BT□□-SCA 25.4-□□	RM4PFCP 412522R	BT□□-SCA38.1-□□	
408024R		412524R		
408026R		412526R		
408028R		412528R		
410022R	BT□□-SCA 31.75-□□	416022R		
410024R		416024R		
410026R		416026R		
410028R		416028R		

Parts



FTKA0412B

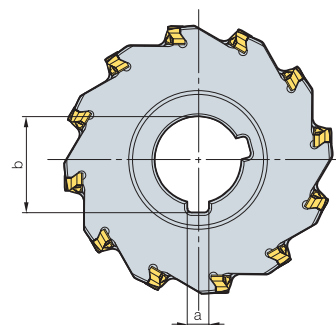
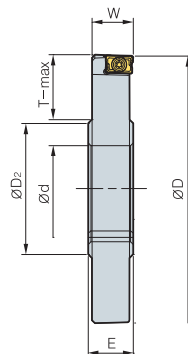


TW15S

RM4



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	9.53	42.3	16.5	15.1	32
	316015R	16	160	58	38.1	9.53	42.3	16.5	15.1	49

Available inserts

LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM											
																			
Designation				Coated								Cermet			Uncoated				
				NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A
LNEX 100605PNR-MF							●	●	●			●							
LNMX 100605PNR-MF							●	●	●			●							
LNEX 100605PNR-MM							●	●	●			●							
LNMX 100605PNR-MM							●	●	●	●	●	●							
LNEX 100608PNR-MF							●					●							
LNMX 100608PNR-MF												●							
LNEX 100608PNR-MM												●							
LNMX 100608PNR-MM							●												
LNEX 100605PNR-MA																●			

Available arbors

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

Parts

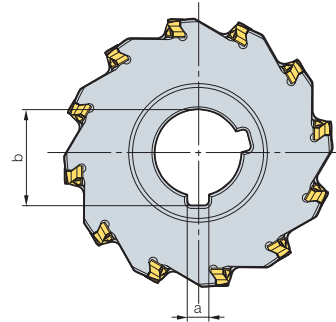
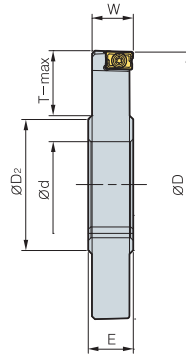


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TW09S

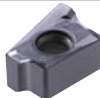
RM4PHCP4000



(mm)

Designation			ØD	ØD2	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		Coated									Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
	LNEX 151004PNR-MF				●					●								
	LNMX 151004PNR-MF				●					●								
	LNEX 151004PNR-MM																	
	LNMX 151004PNR-MM									●								
	LNEX 151008PNR-MF				●		●			●								
	LNMX 151008PNR-MF				●	●	●			●								
	LNEX 151008PNR-MM				●	●	●			●								
	LNMX 151008PNR-MM				●	●	●	●	●	●								
	LNEX 151016PNR-MF																	
	LNMX 151016PNR-MF																	
	LNEX 151016PNR-MM																	
	LNMX 151016PNR-MM				●													
	LNEX 151004PNR-MA														●			
	LNEX 151008PNR-MA														●			

Available arbors

Designation		Available arbors
		RM4PHCP
RM4PHCP	408020R	BT□□-SCA25.4-□□
	410020R	BT□□-SCA 31.75-□□
	412520R	
	416020R	BT□□-SCA38.1-□□

Parts



FTKA0412B



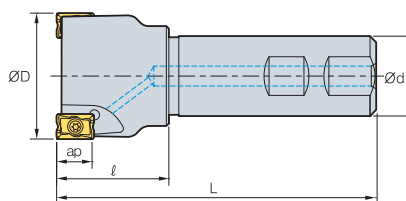
TW15S

RM4



RM4PS3000

- AR : -6°
- RR : -39°~16°



(mm)

Designation		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

LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM										
																		
Designation				Coated								Cermet			Uncoated			
				NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10
LNEX 100605PNR-MF							●	●	●			●						
LNMX 100605PNR-MF							●	●	●			●						
LNEX 100605PNR-MM							●	●	●			●						
LNMX 100605PNR-MM							●	●	●	●	●	●						
LNEX 100608PNR-MF							●					●						
LNMX 100608PNR-MF												●						
LNEX 100608PNR-MM												●						
LNMX 100608PNR-MM							●											
LNEX 100605PNR-MA																●		
LNEX 100605PNL-MM												●						
LNMX 100605PNL-MM							●					●						

Parts



FTKA0307

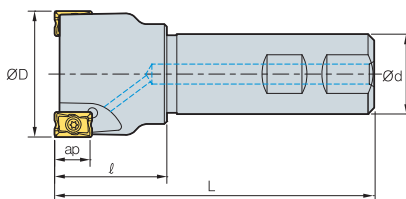


TW09S

RM4PS4000



- AR : -6°
- RR : -24°~14°



(mm)

Designation		ØD	Ød	l	L	ap	kg
RM4PS	4032HR-S32	2	32	40	125	14	0.68
	4040HR-S32	3	40	42	125	14	0.83
	4040HR-S40	3	40	42	125	14	1.14
	4040HR-S42	3	40	42	125	14	1.23
	4050HR-S32	3	50	45	125	14	1.02
	4050HR-S32M	4	50	45	125	14	1.02
	4050HR-S40	3	50	45	125	14	1.35
	4050HR-S40M	4	50	45	125	14	1.34
	4050HR-S42	3	50	45	125	14	1.45
	4050HR-S42M	4	50	45	125	14	1.45
	4063HR-S32	4	63	45	125	14	1.25
	4063HR-S32M	6	63	45	125	14	1.24
	4063HR-S40	4	63	45	125	14	1.62
	4063HR-S40M	6	63	45	125	14	1.61
	4063HR-S42	4	63	45	125	14	1.71
	4063HR-S42M	6	63	45	125	14	1.7

Available inserts

LNEX-MF		LNEX-MM		LNEX-MA		LNMX-MF		LNMX-MM										
																		
Designation				Coated							Cermet			Uncoated				
				NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10
LNEX	151004PNR-MF				●					●								
LNMX	151004PNR-MF				●					●								
LNEX	151004PNR-MM																	
LNMX	151004PNR-MM									●								
LNEX	151008PNR-MF				●		●			●								
LNMX	151008PNR-MF				●	●	●			●								
LNEX	151008PNR-MM				●	●	●			●								
LNMX	151008PNR-MM				●	●	●	●	●	●								
LNEX	151016PNR-MF																	
LNMX	151016PNR-MF																	
LNEX	151016PNR-MM																	
LNMX	151016PNR-MM				●													
LNEX	151004PNR-MA														●			
LNEX	151008PNR-MA														●			

Parts



FTKA0412B



TW15S

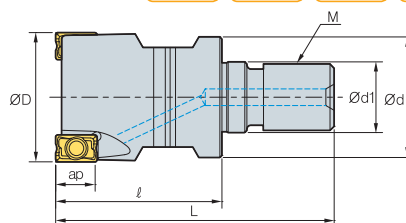
RM4



RM4PM



- AR : -6°
- RR : $-39^{\circ} \sim -16^{\circ}$



(mm)

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

Available inserts

	LNEX-MF	LNEX-MM	LNEX-MA	LNMX-MF	LNMX-MM													
																		
Designation	Coated											Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
LNEX 100605PNR-MF				●	●	●			●									
LNMX 100605PNR-MF				●	●	●			●									
LNEX 100605PNR-MM				●	●	●			●									
LNMX 100605PNR-MM				●	●	●	●	●	●									
LNEX 100608PNR-MF				●					●									
LNMX 100608PNR-MF									●									
LNEX 100608PNR-MM									●									
LNMX 100608PNR-MM				●														
LNEX 100605PNR-MA														●				
LNEX 100605PNL-MM									●									
LNMX 100605PNL-MM				●					●									

Available arbors

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)

II

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

Parts

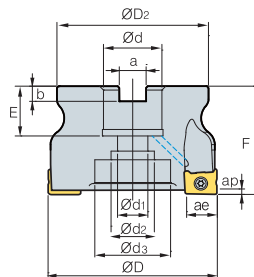


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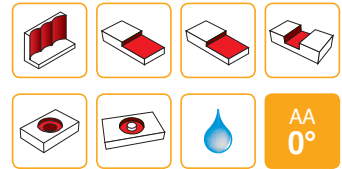


TW09S

RM4ZC(M)3000/4000 *New*



- AR : -11°
- RR : -12°~10°



Designation			ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	ae	
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



Type	Designation	Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
3000 type	LNEX 100605PNL-MM																	
	LNMX 100605PNL-MM				●													
4000 type	LNEX 151008PNL-MM																	
	LNMX 151008PNL-MM																	

Available arbors

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

Parts

Type	Screw	Wrench
3000 type	FTKA0307	TW09S
4000 type	FTKA0412B	TW15S

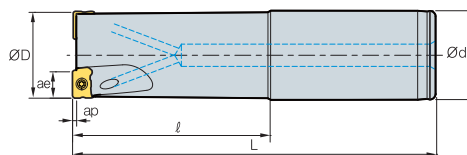
RM4



RM4ZS3000

New

- AR : -11°
- RR : $-17^\circ \sim 14^\circ$


 AA
0°


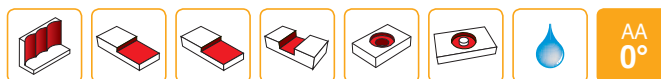
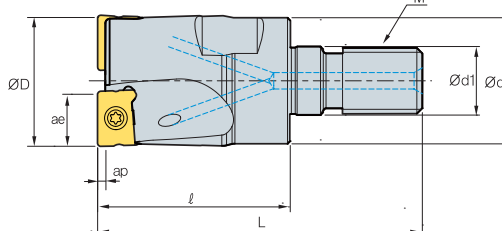
(mm)

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

New

- AR : -11°
- RR : $-17^\circ \sim 14^\circ$


 AA
0°


(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	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
LNEX 100605PNL-MM				●													
LNMX 100605PNL-MM				●													

Parts



FTKA0307



TW09S

MAT(Steel shank type)

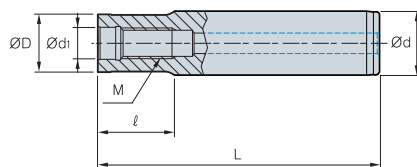


Fig. 1

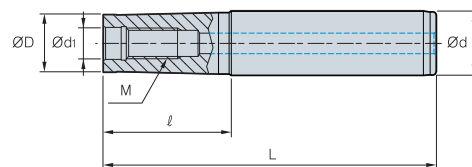


Fig. 2

		(mm)						
	Designation	ØD	Ød	Ød ₁	ℓ	L	M	M
MAT	M06-020-S10S	9.5	10	6.5	20	70	M06	1
	M6B-020-S12S	11.0	12	6.5	20	76	M06	1
	M6B-040-S12S	11.0	12	6.5	40	96	M06	1
	M08-020-S16S	14.5	16	8.5	20	80	M08	1
	M10-030-S20S	18.0	20	10.5	30	100	M10	1
	M12-030-S25S	22.5	25	12.5	29	110	M12	1
	M16-035-S32S	28.5	32	17.0	35	125	M16	1
	M06-040-S12T	9.5	12	6.5	40	96	M06	2
	M06-065-S16T	9.5	16	6.5	65	125	M06	2
	M6B-065-S16T	11.0	16	6.5	65	125	M06	2
	M6B-080-S16T	11.0	16	6.5	80	140	M06	2
	M08-040-S16T	14.5	16	8.5	40	100	M08	2
	M08-065-S16T	14.5	16	8.5	65	125	M08	2
	M08-080-S20T	14.5	20	8.5	80	150	M08	2
	M08-110-S25T	14.5	25	8.5	110	190	M08	2
	M10-050-S20T	18.0	20	10.5	50	120	M10	2
	M10-070-S20T	18.0	20	10.5	70	140	M10	2
	M10-090-S25T	18.0	25	10.5	90	170	M10	2
	M10-110-S25T	18.0	25	10.5	110	190	M10	2
	M10-130-S32T	18.0	32	10.5	130	220	M10	2
	M12-050-S25T	22.5	25	12.5	50	130	M12	2
	M12-070-S25T	22.5	25	12.5	70	150	M12	2
	M12-090-S25T	22.5	25	12.5	90	170	M12	2
	M12-110-S32T	22.5	32	12.5	110	200	M12	2
	M12-175-S40T	22.5	40	12.5	175	300	M12	2
	M16-055-S32T	28.5	32	17.0	55	145	M16	2
	M16-080-S32T	28.5	32	17.0	80	170	M16	2
	M16-120-S32T	28.5	32	17.0	120	210	M16	2
	M16-175-S40T	28.5	40	17.0	175	300	M16	2

• S : Straight neck adapter • T : Taper neck adapter

RM4



MAT-C(Carbide shank type)

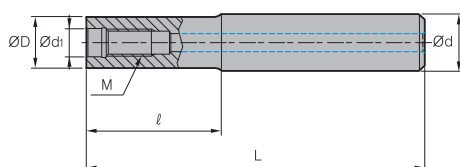


Fig. 1

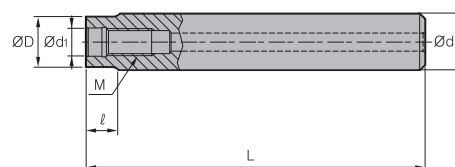


Fig. 2

(mm)

	Designation	ØD	Ød	Ød ₁	ℓ	L	M	Fig.
MAT	M08-080-S16S-C	14.5	16	8.5	80	150	M08	1
	M08-110-S16S-C	14.5	16	8.5	110	180	M08	1
	M08-150-S16S-C	14.5	16	8.5	150	250	M08	1
	M08-010-S16S-C-150	14.5	16	8.5	10	150	M08	2
	M08-010-S16S-C-180	14.5	16	8.5	10	180	M08	2
	M08-010-S16S-C-250	14.5	16	8.5	10	250	M08	2
	M10-090-S20S-C	18.0	20	10.5	90	170	M10	1
	M10-110-S20S-C	18.0	20	10.5	110	200	M10	1
	M10-175-S20S-C	18.0	20	10.5	175	300	M10	1
	M10-010-S20S-C-170	18.0	20	10.5	10	170	M10	2
	M10-010-S20S-C-200	18.0	20	10.5	10	200	M10	2
	M10-010-S20S-C-300	18.0	20	10.5	10	300	M10	2
	M12-090-S25S-C	22.5	25	12.5	90	170	M12	1
	M12-110-S25S-C	22.5	25	12.5	110	200	M12	1
	M12-175-S25S-C	22.5	25	12.5	175	300	M12	1
	M12-015-S25S-C-170	22.5	25	12.5	15	170	M12	2
	M12-015-S25S-C-200	22.5	25	12.5	15	200	M12	2
	M12-015-S25S-C-300	22.5	25	12.5	15	300	M12	2
	M16-090-S32S-C	28.5	32	17.0	90	180	M16	1
	M16-120-S32S-C	28.5	32	17.0	120	210	M16	1
	M16-175-S32S-C	28.5	32	17.0	175	300	M16	1
	M16-020-S32S-C-180	28.5	32	17.0	20	180	M16	2
	M16-020-S32S-C-210	28.5	32	17.0	20	210	M16	2
	M16-020-S32S-C-300	28.5	32	17.0	20	300	M16	2

Rich Mill RM8

Features

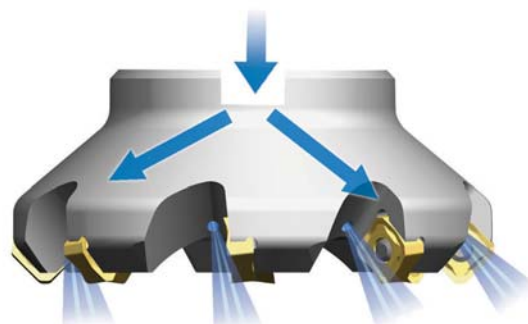
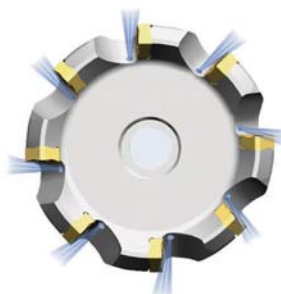
■ Double sided insert to use 8 cutting edges

- 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

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.
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.
Wiper W			Specialized edge design can be suitable for excellent surface roughness operation.

RM8



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

Features of cutter

Shape	Cutting edge	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

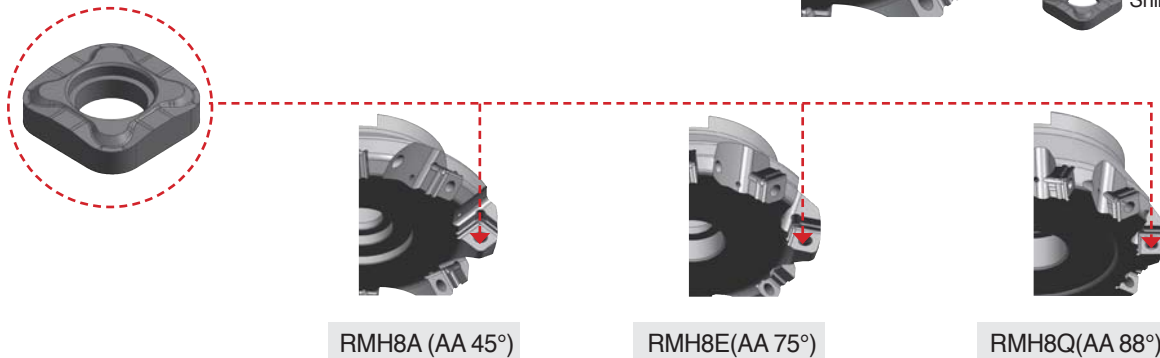
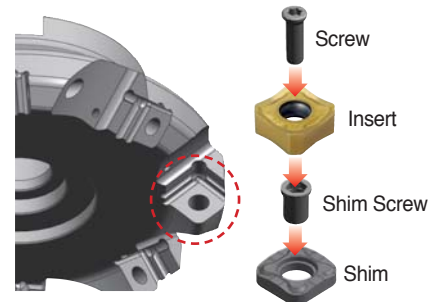
(mm)

ISO	Grade	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 6.0mm	-	-	150~300	0.10~0.35	RM8A 7.5mm
	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	
K	PC6510	150~300	0.08~0.35	150~300	0.10~0.40	150~300	0.10~0.40	RM8E 9.0mm	150~300	0.08~0.35	150~300	0.10~0.40	RM8E 11mm
	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	
M	PC9530	100~180	0.05~0.30	120~180	0.10~0.35	120~180	0.10~0.35	RM8Q 11.5mm	-	-	-	-	
	PC5300	-	-	-	-	-	-		100~180	0.05~0.30	120~180	0.10~0.35	

(mm)

Rich Mill RMH8

- **Screw on clamping system**
 - Adopt and stable clamping system
- **Reinforced rigidity and enhanced clamping power**
 - Applying shim system, prevent cutter damage when insert breaks.
- **Adopting exchangeable shim**
 - Using various kinds of cutter (Approach angle 45°, 75°, 88°)
 - Stable clamping power with insert

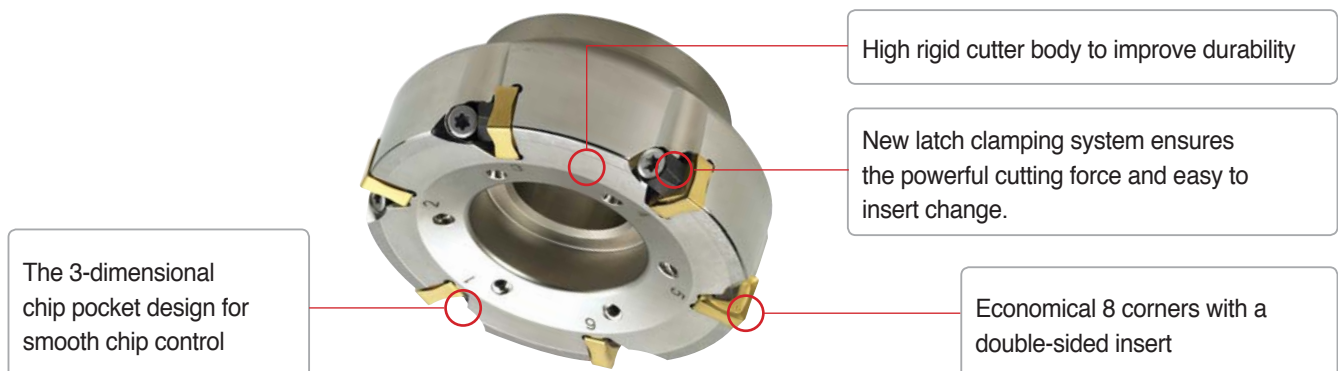


Rich Mill RMT8

New generation clamping system

- 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.

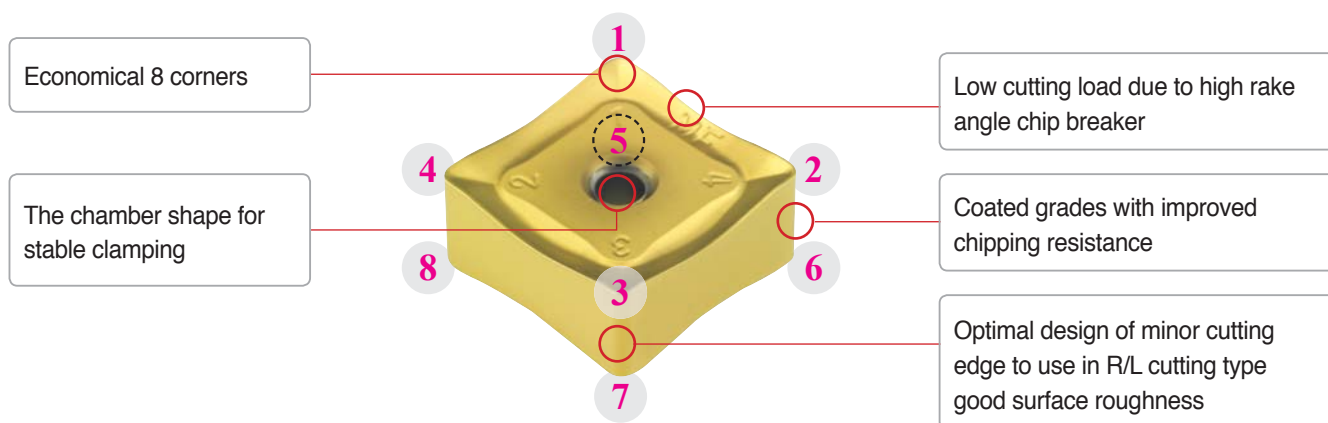
Features of RMT



RM8



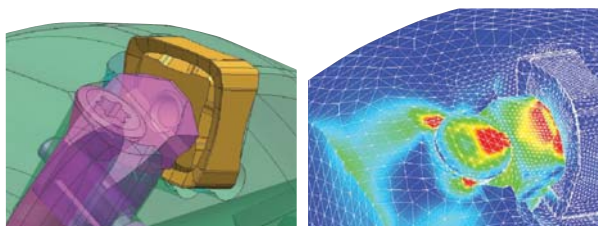
Features of RMT insert(using R/L)



Chip breaker

Insert	Cutting edge	Features
Fine finishing MF		Our specialized insert design creates low cutting forces suitable for light cutting, HRSA.
Strengthen MM		Suitable geometry design for general milling has wider ranges of machining.

Clamping force analysis



Recommended grades and chip breakers

ISO	Grade	MM	MF
P	NCM325		○
	PC3500		○
	PC3545		○
M	PC9530		◎
K	PC6510		◎

◎ : Optimum ○ : Proper

Recommended cutting condition

ISO	Grade	MM		MF	
		vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)
P	NCM325	150~300	0.05~0.30	150~300	0.05~0.20
	PC3500	150~300	0.05~0.30	150~300	0.05~0.20
	PC3545	150~300	0.05~0.30	150~300	0.05~0.20
M	PC9530	120~180	0.05~0.20	120~180	0.05~0.20
K	PC6510	150~300	0.05~0.30	150~300	0.05~0.20

(mm)

RM8AC(M)4000

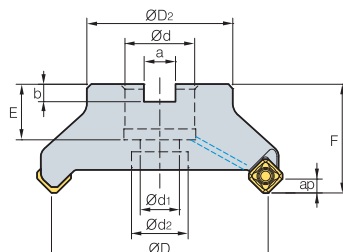


Fig. 1

- AR : -6°
- RR : -9°~6°



AA
45°

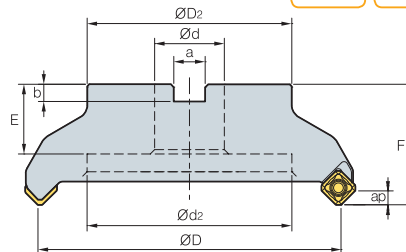


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap	 kg	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-MM SNEX-MA SNEX-W SNMX-MF SNMX-MM



Designation	Coated						Cermet		Uncoated		
	NCM325	NCM335	NC5330	PC3500	PC3500	PC3545	PC9530	PD2000	CN2000	CN30	HT10
SNEX 1206ANN-MF											
SNEX 1206ANN-MM											
SNMX 1206ANN-MF											
SNMX 1206ANN-MM											
SNEX 1206ANN-MA											
SNEX 1206ANN-W											

Parts



FTKA0410



TW15S

Available arbors

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

RM8



RM8AC(M)5000

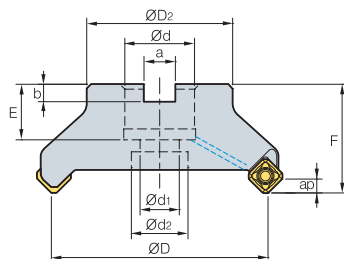


Fig. 1

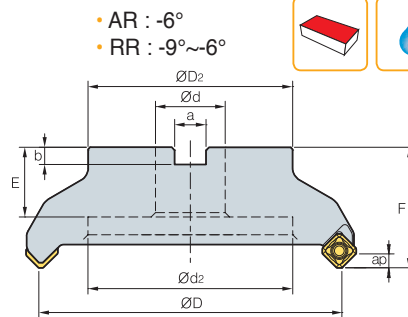


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		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

SNEX-MF		SNEX-MM		SNMX-MF		SNMX-MM												
																		
Designation		Coated								Cermet			Uncoated					
		NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX	1507ANN-MF				●				●									
	1507ANN-MM				●				●									
SNMX	1507ANN-MF				●				●									
	1507ANN-MM				●				●									

Available arbors

Designation		Available arbors	
		RM8AC	RM8ACM
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-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
	5315R-□		
	5400R-□		

Parts



FTGA0513



TW20-100

RM8EC(M)4000

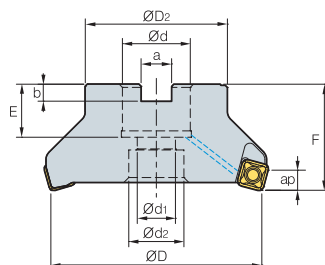


Fig. 1

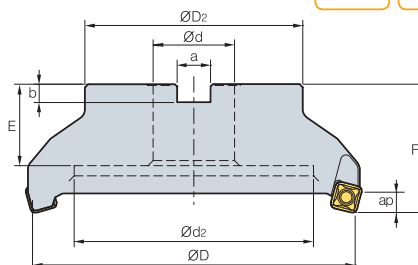


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		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

• () Metric size

Available inserts

SNEX-MF	SNEX-MM	SNEX-MA	SNMX-MF	SNMX-MM														
																		
Designation		Coated						Cermet	Uncoated									
		NCM325	NCM335	NC5330	PC3500	PC3500	PC35400	PC3545	PC3530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX	1206ENN-MF					●			●									
	1206ENN-MM				●	●			●									
SNMX	1206ENN-MF				●	●			●									
	1206ENN-MM				●	●			●									
SNEX	1206ENN-MA				●				●						●			

Available arbors

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

Parts



PTKA0411-R3



TW15S

RM8



RM8EC(M)5000

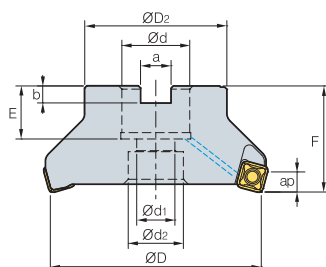


Fig. 1

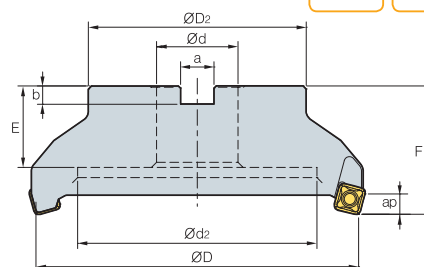


Fig. 2

(mm)

- AR : -6°
- RR : -8°~6°



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	1.1	1
	5100HR-M	7	100	67	31.75(32)	18	26	12.7(14.4)	8.0	33(25)	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)	35(30)	63	11.0	3.4(3.3)	1
	5160R-M	10	160	107	50.8(40)	-	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	63	11.0	6.4(6.1)	2
	5250R-M	15	250	180	47.625(60)	-	180	25.4(25.7)	14.0	38	63	11.0	11.0(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-M	28	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-MM



SNMX-MF



SNMX-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX 1507ENN-MF				●				●									
1507ENN-MM				●				●									
SNMX 1507ENN-MF				●				●									
1507ENN-MM				●				●									

Available arbors

Designation		Available arbors	
		RM8EC	RM8ECM
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-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
	5315R-□		
	5400R-□		

Parts



FTGA0513



TW20-100

RM8QC(M)4000

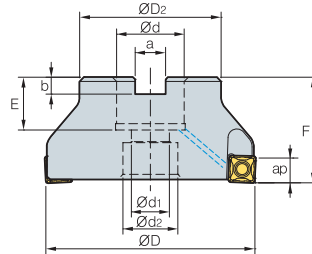


Fig. 1

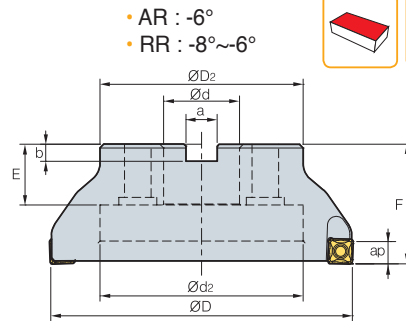


Fig. 2

(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	20	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

• () Metric size

Available inserts



Designation	Coated								Cermet		Uncoated						
	NCM825	NCM835	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX 1206QNN-MF				●	●	●			●								
SNMX 1206QNN-MF				●	●	●			●								
SNEX 1206QNN-MM				●	●	●			●								
SNMX 1206QNN-MM				●	●	●			●								
SNEX 1206QNN-MA																	
SNEX 120612-MF																	
SNMX 120612-MF																	
SNEX 120612-MM									●								
SNMX 120612-MM				●					●								
SNEX 120612-MA														●			

Available arbors

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

Parts



PTKA0411-R3

TW15S

RM8



RMH8AC(M)4000

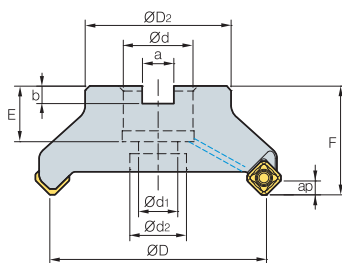
New


Fig. 1

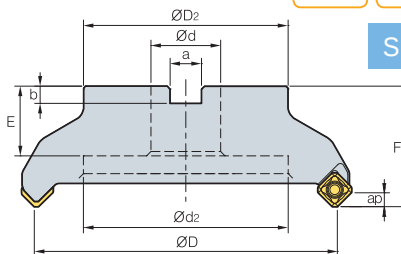


Fig. 2

Shim type

- AR : -6°
- RR : -9°~6°

AA
45°

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		Fig.
RMH8AC (RMH8ACM)	4080HR-M	7	80	57	25.4(27)	14	20	9.5(12.4)	6(7)	25(23)	50	6.0	1.2	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
	4125HR-M	10	125	87	38.1(40)	22	32	15.9(16.4)	10(9)	36(30)	63	6.0	3.6	1
	4160R-M	12	160	107	50.8(40)	-	107	19(16.4)	11(9)	38(32)	63	6.0	5.3	2
	4200R-M	14	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
	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	26	400	260	47.625(60)	-	238	25.4(25.7)	14	38	80	6.0	37.7(37.4)	2

(mm)

• () Metric size

Available inserts

SNEX-MF		SNEX-MM		SNEX-MA		SNEX-W			SNMX-MF			SNMX-MM						
																		
Designation				Coated								Cermet			Uncoated			
				NCM325	NCM335	NC5330	PC3500	PC3300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10
SNEX	1206ANN-MF				●	●	●			●								
	1206ANN-MM	●			●	●	●		●	●								
SNMX	1206ANN-MF				●	●				●								
	1206ANN-MM	●		●	●	●			●	●								
SNEX	1206ANN-MA														●			
	1206ANN-W				●					●								

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

FTKA0412B	SS42RM8	SHXN0609F	TW15S

RMH8AC(M)5000

New

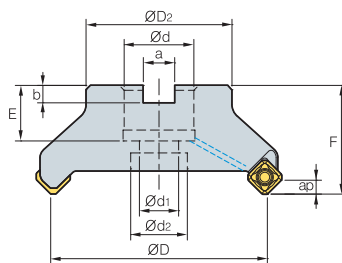


Fig. 1

- AR : -6°
- RR : -9°~6°



AA
45°

Shim type

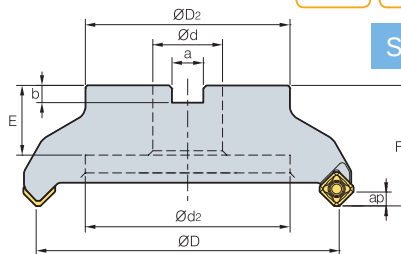


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		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-MM				SNMX-MF				SNMX-MM				
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX	1507ANN-MF								●									
	1507ANN-MM				●				●									
SNMX	1507ANN-MF				●				●									
	1507ANN-MM																	

Available arbors

Designation		Available arbors	
		RMH8AC	RMH8ACM
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-□		
	5250R-□		
	5315R-□		
	5400R-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

FTGA0513	SS53RM8	SHXN0712F	TW20-100

RM8



RMH8EC(M)4000

New

- AR : -6°
- RR : -8°~6°

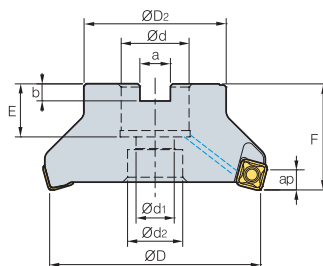

**AA
15°**
Shim type


Fig. 1

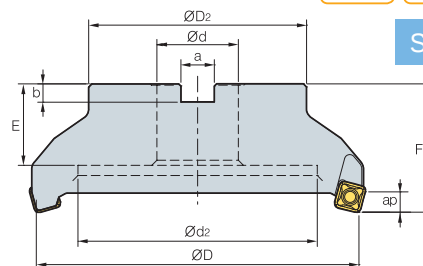


Fig. 2

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap		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-MM		SNEX-MA		SNMX-MF		SNMX-MM										
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX	1206ENN-MF					●	●			●								
	1206ENN-MM				●	●	●			●								
SNMX	1206ENN-MF				●	●	●			●								
	1206ENN-MM				●	●	●			●								
SNEX	1206ENN-MA				●					●					●			

Available arbors

Designation		Available arbors	
		RMH8EC	RMH8ECM
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-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
	4315R-□		
	4400R-□		

Parts

PTKA0411-R3	SS42RM8	SHXN0609F	TW15S

RMH8EC(M)5000

New

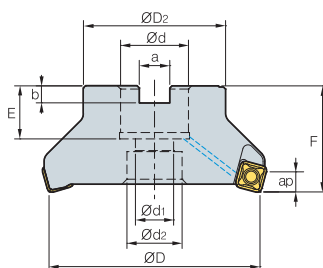


Fig. 1

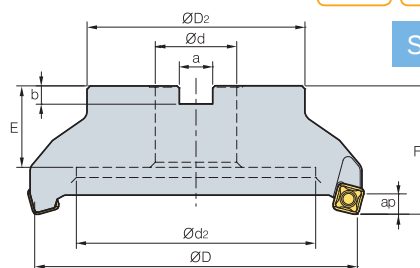


Fig. 2

(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	1.1	1
	5100HR-M	7	100	67	31.75(32)	18	26	12.7(14.4)	8.0	33(25.5)	63(50)	2.1(1.7)	1
	5125HR-M	8	125	87	38.1(40)	22	32	15.9(16.4)	10(9)	36(30)	63	3.4(3.3)	1
	5160R-M	10	160	107	50.8(40)	-	107	19(16.4)	11(9)	38(32)	63	4.4(4.1)	2
	5200R-M	12	200	130	47.625(60)	-	135	25.4(25.7)	14.0	38(32)	63	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(10.7)	2
	5315R-M	20	315	240	47.625(60)	-	238	25.4(25.7)	14.0	38	63	18.0(17.7)	2
	5400R-M	22	400	260	47.625(60)	-	238	25.4(25.7)	14.0	38	80	35.7(35.4)	2

() Metric size

Available inserts

		SNEX-MF		SNEX-MM		SNMX-MF		SNMX-MM										
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX	1507ENN-MF				●				●									
	1507ENN-MM				●				●									
SNMX	1507ENN-MF				●				●									
	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-□	BT□□-FMA47.625-□□	BT□□-FMB60-□□
	5315R-□		
	5400R-□		

Parts

			
FTGA0513	SS53RM8	SHXN0712F	TW20-100

RM8



RMH8QC(M)4000

New

- AR : -6°
- RR : -8°~6°



AA
2°

Shim type

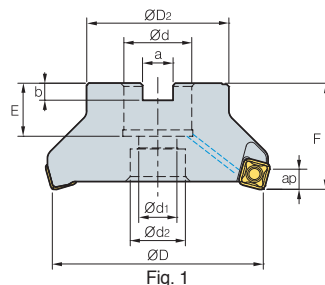


Fig. 1

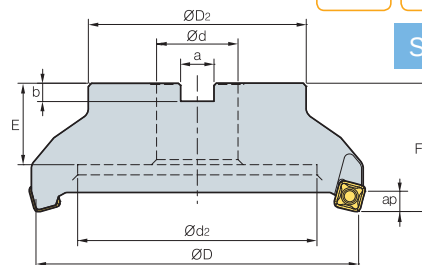


Fig. 2

(mm)

Designation			ØD	ØD2	Ød	Ød1	Ød2	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-MM	SNEX-MA	SNMX-MF	SNMX-MM												
																	
Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC-3500	PC-5300	PC-5400	PC-3545	PC-9530	PC-6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNEX 1206QNN-MF				●	●	●			●								
SNMX 1206QNN-MF				●		●			●								
SNEX 1206QNN-MM				●		●			●								
SNMX 1206QNN-MM				●		●			●								
SNEX 1206QNN-MA																	
SNEX 120612-MF																	
SNMX 120612-MF																	
SNEX 120612-MM																	
SNMX 120612-MM				●					●								
SNEX 120612-MA														●			

Available arbors

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

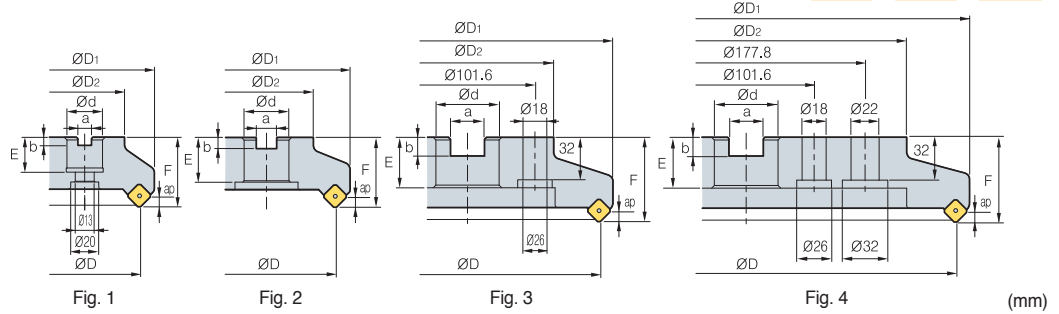
Parts

			
PTKA0411-R3	SS42RM8	SHXN0609F	TW15S

RMT8A(M)4000



- AR : -6°
- RR : -6°



Designation			ØD	ØD1	ØD2	Ød	a	b	E	F	ap		Fig.
RMT8A(M)	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

• () Metric size

Available inserts

SNC(M)F-MF



SNC(M)F-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNCF 1206ANN-MF																	
1206ANN-MM				●													
SNMF 1206ANN-MF																	
1206ANN-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 -□□	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



ETKA0523



KHB0417



SPR0315



LTC05SR-RM4



TW20-100

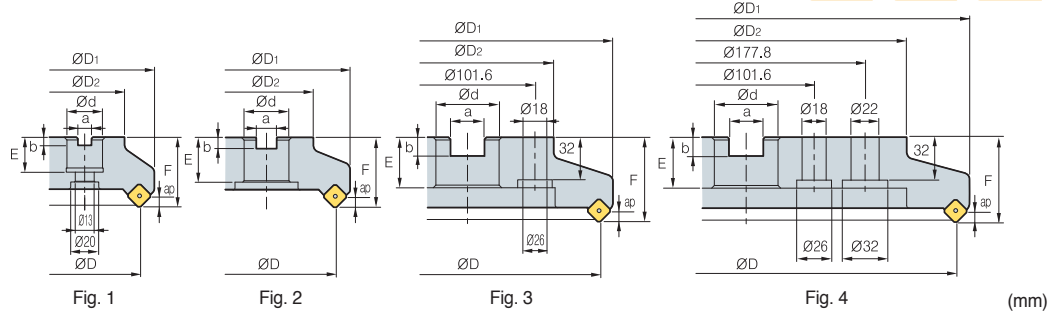
RM8



RMT8A(M)5000



- AR : -6°
- RR : -6°



Designation			ØD	ØD1	ØD2	Ød	a	b	E	F	ap		Fig.
RMT8A(M)	5080R	5	80	104	57	25.4(27)	9.5(12.4)	6(7)	25(22)	50	6	1.8	1
	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

() Metric size

Available inserts

SNC(M)F-MF

SNC(M)F-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNCF 1507ANN-MF								●									
1507ANN-MM				●		●											
SNMF 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 -□□	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



ETKA0625



KHB0417



SPR0415



LTC06SR-RM5



TW20-100

RMT8E(M)4000

• AR : -6°
• RR : -8°~6°



AA
15°

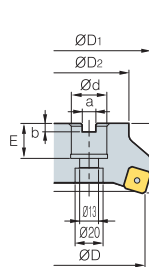


Fig. 1

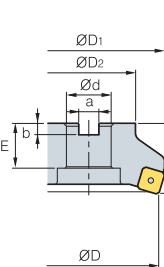


Fig. 2

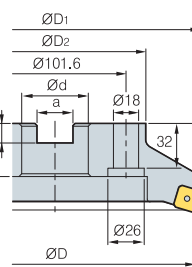


Fig. 3

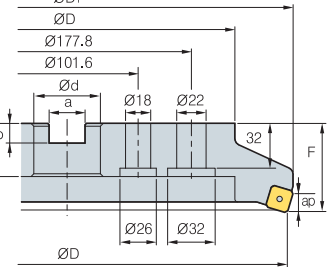


Fig. 4

(mm)

Designation			ØD	ØD1	ØD2	Ød	a	b	E	F	ap	 kg	Fig.
RMT8E(M)	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

() Metric size

Available inserts

SNC(M)F-MF



SNC(M)F-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNCF 1206ENN-MF								●									
1206ENN-MM				●		●											
SNMF 1206ENN-MF				●													
1206ENN-MM				●													

Available arbors

Designation	General arbor	NC arbors	
		RMT8E	RMT8EM
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, KCP-8***	BT**□□-FMA47.625-□□	FMB60
□250R			
□315R	KCP-8*** (Center ring plug)		

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

Parts



ETKA0523



KHB0417



SPR0315



LTC05SR-RM4



TW20-100

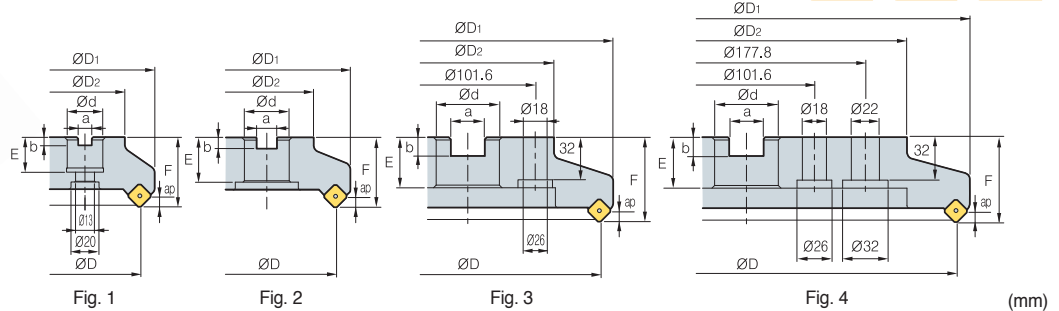
RM8



RMT8E(M)5000



- AR : -6°
- RR : -8°~6°



Designation			ØD	ØD1	ØD2	Ød	a	b	E	F	ap		Fig.
RMT8E(M)	5080R	5	80	88	57	25.4(27)	9.5(12.4)	6(7)	25(22)	50	8	1.4	1
	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	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNCF 1507ENN-MF				●				●									
1507ENN-MM						●											
SNMF 1507ENN-MF																	
1507ENN-MM				●													

Available arbors

Designation	General arbor	NC arbors	
		RMT8E	RMT8EM
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, KCP-8***	BT**□□-FMA47.625-□□	FMB60
□250R			
□315R	KCP-8*** (Center ring plug)		

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

Parts



ETKA0625



KHB0417



SPR0415



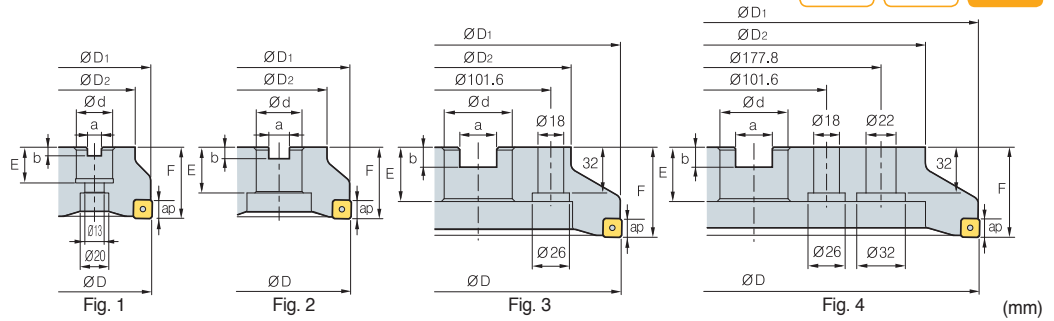
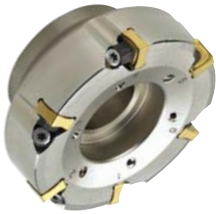
LTC06SR-RM5



TW20-100

RMT8Q(M)4000

• AR : -6°
• RR : -11°~6°



Designation			ØD	ØD1	ØD2	Ød	a	b	E	F	ap		Fig.
RMT8Q(M)	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

() Metric size

Available inserts

SNMF-MM

SNMF-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
SNMF 1206QNN-MM				●													
1206QNN-MM				●													

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, KCP-8***	BT**□□-FMA47.625-□□	FMB60
□250R			
□315R	KCP-8*** (Center ring plug)		

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

Parts



ETKA0523



KHB0417



SPR0315



LTC05SR-RM4



TW20-100

RM16



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 5.5mm, but it is used 8 corners, maximum cutting depth is 13mm.
- Wiper insert is placed 0.05mm lower than facing insert in cutter.
- When feed is bigger than wiper cutting edge length(7mm), 2 wiper inserts are placed in symmetrical position.



Chip breaker

Insert		Cutting edge	Features
Aluminum Cutting Light MA			With sharp edge application, the better productivity has been accomplished, especially for Aluminum cutting.
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.
Wiper W			It has better surface roughness than MM and MF chip breakers.

Through coolant system



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

Instructions for wiper insert

Hand of tool	Correct setting	Incorrect setting			
Right hand					
Decision	O	X	X	X	X
Left hand					
Decision	O	X	X	X	X

Recommended Cutting Condition

ISO	Grade	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	PC9530	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	PC6510	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

(mm)

RM16



RM16AC(M)6000

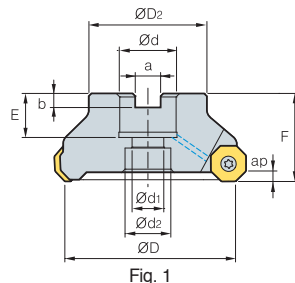


Fig. 1

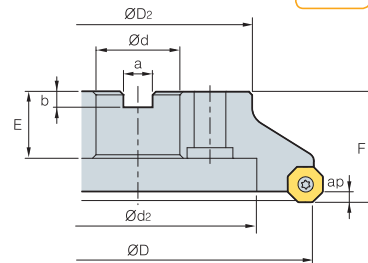


Fig. 2

(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

	ONHX-MF	ONHX-MM	ONHX-W	ONHX-MA	ONMX-MF	ONMX-MM											
																	
Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
ONMX 060608-MM				●					●								
ONHX 060608-MM				●					●								
ONMX 060608-MF				●					●								
ONHX 060608-MF				●					●								
ONHX 060608-W				●	●			●	●								
ONMX 0606ANN-MM				●	●	●		●	●								
ONHX 0606ANN-MM																	
ONMX 0606ANN-MF					●	●		●	●								
ONHX 0606ANN-MF									●								
ONHX 060608-MA														●			

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		
	6400R-M	BT□□-FMA47.625-□□	BT□□-FMB60-□□

Parts

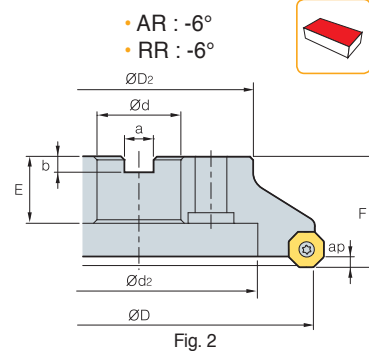
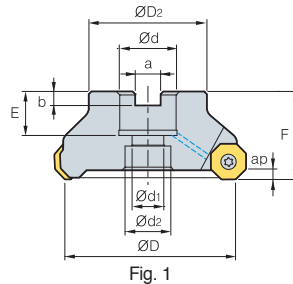


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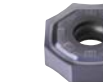
RM16AC(M)8000



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	215	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

(mm)

Available inserts

	ONHX-MF	ONHX-MM	ONHX-W	ONHX-MA	ONMX-MF	ONMX-MM											
																	
Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
ONMX 080608-MM				●	●			●	●								
ONHX 080608-MM				●					●								
ONMX 080608-MF									●								
ONHX 080608-MF																	
ONHX 080608-W				●													
ONMX 0806ANN-MM				●	●			●	●								
ONHX 0806ANN-MM						●											
ONMX 0806ANN-MF				●	●				●								
ONHX 0806ANN-MF					●	●			●								
ONHX 080608-MA														●			

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



FTGA0513

TW20-100



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