

E Technical Information for Future Mill

Rigid body employs high tensile aluminum

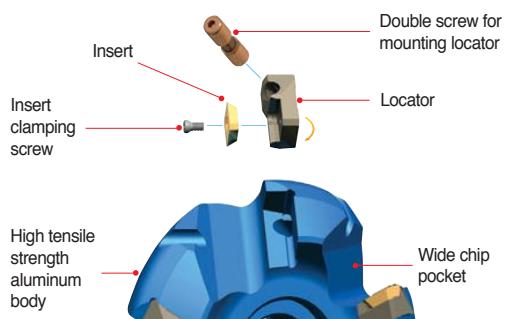
Future Mill

- Light-weight aluminum body (50% of steel body) can be used for high speed cutting, tapping center, and on low power machines
- Easy handling
- It can be used for aluminum alloys, medium cutting of steel, and cast iron
- Rigid body employs high tensile aluminum
- Locators for excellent durability
- A variety of chip breaker are available
- The high rake angle provides low cutting loads and good surface roughness

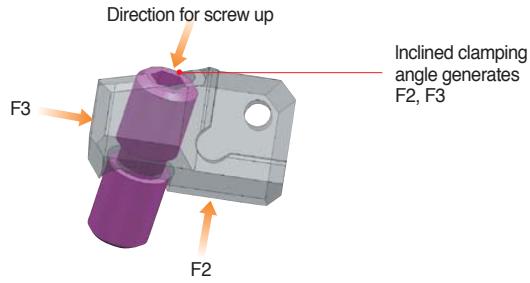
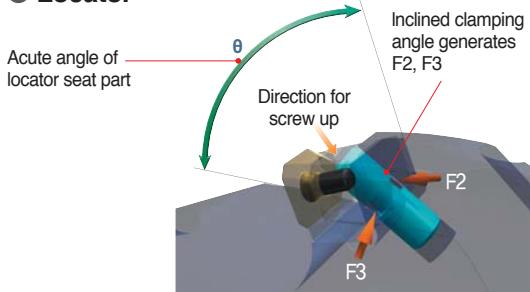
Features of cutter

- Strong clamping between aluminum body and locator with double screw provides high efficiency
- Acute angle of locator seat provides strong clamping
- Wide chip pocket area provides good chip evacuation
- High tensile strength aluminum body

Assembly structure of cutter

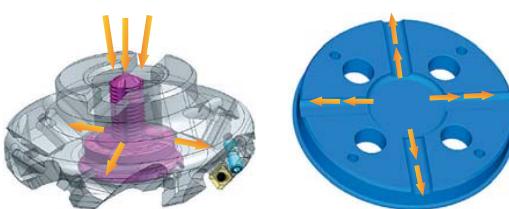


Locator

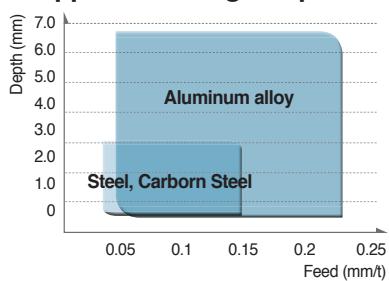


Through coolant system

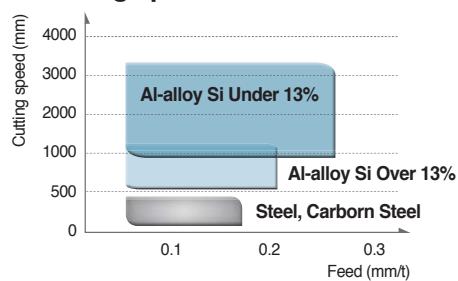
- Exclusively designed coolant bolt and cover provide excellent coolant action and chip evacuation for improved tool life
- Exact coolant direction to cutting area
- Exclusive coolant bolt and cover are sold separately. Through coolant arbor is required



Application range as per workpiece



Cutting speed



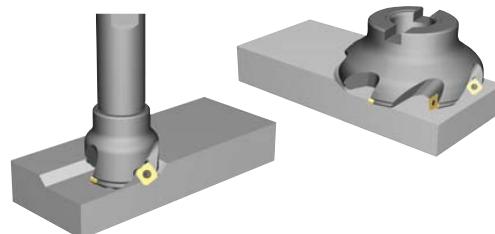
Max. available revolution

Cutter diameter	Max. revolution
Ø63	20,000
Ø80	16,000
Ø100	13,000
Ø125	10,000
Ø160	8,000
Ø200	6,500
Ø250	5,000
Ø315	4,000

Future Mill (FMA)

Features

- General milling cutter for high productivity
- Adjustable pitch of cutter and various chip breaker offer wide application range.
- Light cutter body allows high speed cutting and can be used in low horse power machine
- Smooth cutting with low cutting load is accomplished with High-rake angle



Features of chip breaker

Type	Chip breaker	Cutting-edge	Features
Light cutting	None C/B		<ul style="list-style-type: none"> Superior surface roughness at finishing due to ground type cermet insert
	MF		<ul style="list-style-type: none"> Superior cutting quality for light and difficult-to-cut material machining through the low cutting load of chip breaker
General cutting	MM		<ul style="list-style-type: none"> Suitable for various cutting due to special shape design for general cutting
Roughing	MR		<ul style="list-style-type: none"> Tough cutting-edge provides stable cutting performance in severe interruption
For aluminum	MA		<ul style="list-style-type: none"> Superior cutting quality for aluminum due to sharp cutting-edge and buffed surface <ul style="list-style-type: none"> - S[□]ET-MA: Sharp cutting-edge due to high accurate grinding - S[□]XT-MA: Suitable cutting-edge for roughing

Recommended cutting condition

ISO	Grades	vc (m/min)	MF	MM	MR	MA
			fz (mm/t)	fz (mm/t)	fz (mm/t)	fz (mm/t)
P	NC5330	210~350	0.05~0.20	0.10~0.30	0.10~0.30	-
	NCM325	190~310	0.05~0.20	0.10~0.30	0.10~0.30	-
	PC3500	160~270	0.05~0.20	0.10~0.30	0.10~0.30	-
M	PC9530	90~150	0.05~0.15	0.10~0.30	-	-
	NCM335	70~120	0.05~0.15	0.10~0.30	-	-
K	PC5300	110~180	0.05~0.20	0.10~0.30	-	-
Aluminum	H01	260~440	-	-	-	0.10~0.35

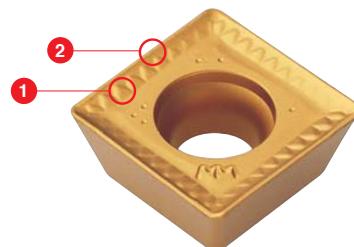


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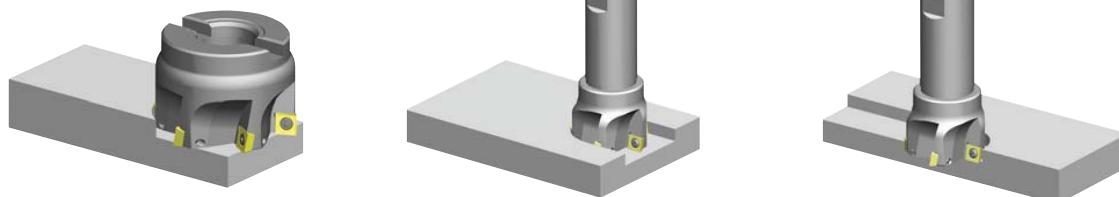
Future Mill (FMP)

Features

- The strong cutting-edge ensures excellent tool life in high feed and high speed, deep depth of cut, with low cutting loads
- Optimal grades for most workpieces make high efficiency cutting possible
- Unique chip breaker makes good chip evacuation and lower cutting loads (1)
- Innovative curve cutting-edge lowers cutting load and provides a stronger cutting-edge (2)



Machining examples



Features of chip breaker

- Innovative special cutting-edge and chip breaker design ensures ideal 90° cutting and low cutting load
- Various applications are available with multi functional cutters (Facing, Slotting, Shouldering)
- Improved tool life due to special coated grades
- Superior cutting quality at deep cutting depth through the low cutting load and strong cutting-edge

Recommended C/B and grade as per workpiece

Chip breaker	Cutter edge	Recommended C/B and grade as per workpiece (●: 1st)									
		Low carbon steel/Mild steel		High carbon steel/Mild steel		Stainless steel		Cast iron		Aluminum alloy	
		C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades
Low cutting load type MF		●	○ NCM325 ○ NC5330 ● NCM335		● NCM325 ○ NC5330 ○ NCM335	●	○ NCM325 ○ NC5330 ● NCM335	●	● PC6510 ○ PC215K	-	-
Reinforced cutting edge type MM			○ NCM325 ○ NC5330 ● NCM335		● NCM325 ○ NC5330 ○ NCM335		○ NCM325 ○ NC5330 ● NCM335		● PC6510 ○ PC215K	-	-
Sharp cutting edge type MA		-	-	-	-	-	-	-	-	● H01 ○ G10	

Recommended cutting condition

(mm)

ISO	Cutting Speed vc (m/min)					
	CVD Coated		PVD Coated			Carbide
	NCM325	NCM335	PC6510	PC8520	PC9530	H01
P	190~310	180~290	-	-	-	-
M	110~180	100~160	-	110~180	90~150	-
K	-	-	180~230	-	-	-
N	-	-	-	-	-	260~440



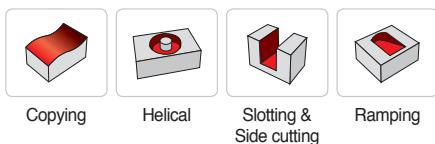
Milling

Future Mill (FMR)

Features

- Wide coverage for medium to roughing, general steel to high hardness mold materials
- 2 step shape of insert provides strong clamping and can minimize components to replace the shim
- 4-8 cutting-edge available per insert (Inscribed circle 05, 06, 07, 08, 10, 12, 16, 20)
- Uneven flute spacing prevents vibration on high speed applications and provides more stable machining
- Precise design of the insert seat prevents insert from chattering
- Special design of the insert bottom prevents movement and chatter of insert
- Easy to change cutting-edge due to the rotation prevention design of the insert

Machining examples



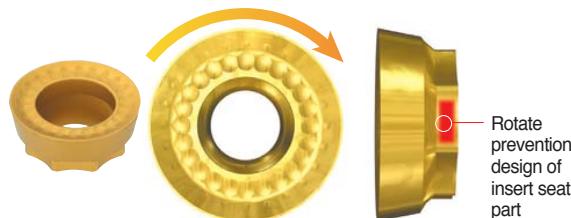
FMR Insert cutting-edge shape

Designation	RDHW□□□□M0F	RDHW□□□□M0E	RDHW□□□□M0S
Cutting edge shape (G class)			

Features of chip breakers

Chip breakers	Cutter edge	Features
Finishing MF		<ul style="list-style-type: none"> Low cutting resistance chip breaker design guarantees long tool life good performance at finishing and difficult-to-cut material machining
Medium MM		<ul style="list-style-type: none"> Suitable for general milling at wide application range
Aluminum MA		<ul style="list-style-type: none"> Sharp cutting-edge and buffed top face for aluminum machining prevent welding and control chip flow

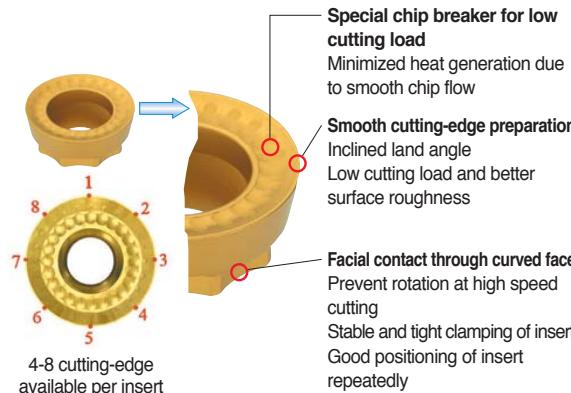
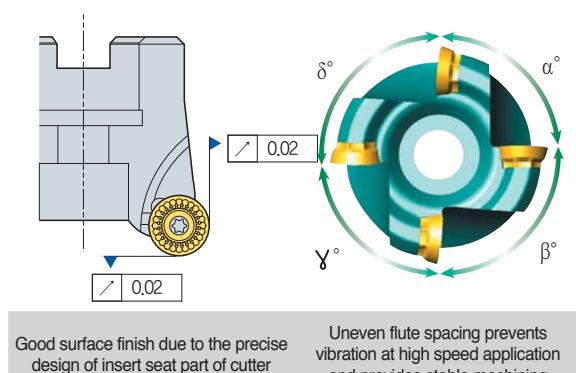
Clamping system



FMR□3000 type
FMR□4000 type

RDKT10T3M0-□□
RDKT1204M0-□□

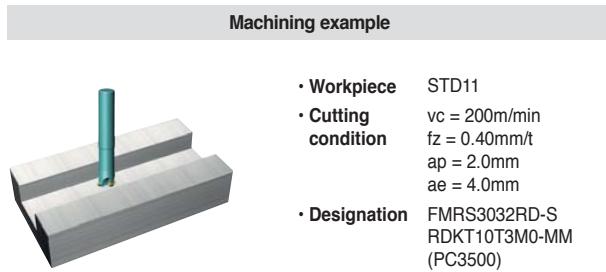
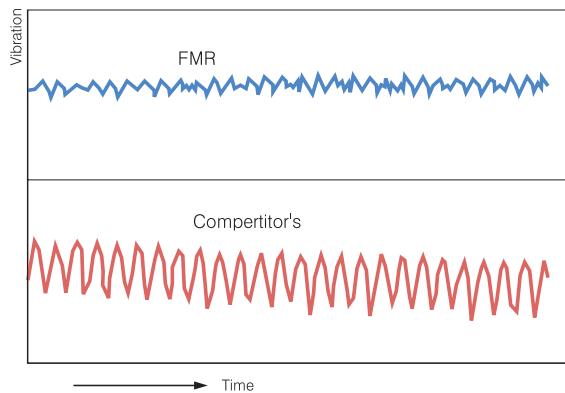
RDKT1605M0-MM
RDKT2006M0-MM



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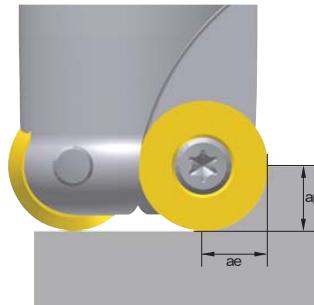
Future Mill (FMR)

○ FMR Vibration test



○ Cutting condition formulas for milling

Cutting speed	RPM
$vc = \frac{\pi \times D \times n}{1000}$ (m/min)	$n = \frac{vc \times 1000}{\pi \times D}$ (min ⁻¹)
Feed (per tooth)	Feed (per minute)
$fz = \frac{vf}{Z \times n}$ (mm/t)	$vf = fz \times n \times z$ (mm/min)
Chip removal rate	Required machine power
$Q = \frac{ap \times ae \times vf}{1000}$ (cm ³ /min)	$P_{kw} = \frac{Q \times kc}{60 \times 102 \times n}$ (kW) $P_{hp} = \frac{P_{kw}}{0.75}$ (hp)



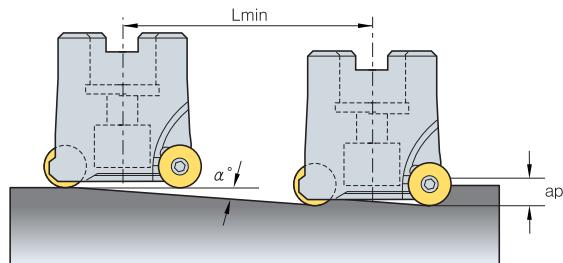
vc = Cutting speed (m/min)	P _{kw} = Required machine power (kW)
n = Revolution per a minute (min ⁻¹)	P _{hp} = Horsepower requirement (hp)
D = Cutting diameter (mm)	Q = Chip removal amount (cm ³ /min)
De = Efficient cutting diameter (mm)	ap = Depth of cut (mm)
vf = Feed per a minute (mm/min)	ae = Width of cut (mm)
fz = Feed per tooth (mm/t)	K _c = Specific cutting resistance (MPa)
z = Number of tooth	η = Mechanical efficiency (%)
P _c = Power requirement (kW)	

○ Feed as per cutting depth

Designation	Chip breaker	Depth of cut (mm)								
		0.2~0.5	0.5~1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
RDHW0501M0	-	0.25	0.15	-	-	-	-	-	-	-
RDHW06T1M0	-	0.30	0.20	0.10	-	-	-	-	-	-
RDHW0702M0	-	0.35	0.25	0.10	0.07	-	-	-	-	-
RDHW0803M0	-	0.40	0.30	0.15	0.01	-	-	-	-	-
RDKT10T3M0 -	MF/MM	-	0.40	0.35	0.30	0.20	-	-	-	-
RDKT1204M0 -	MF/MM	-	0.50	0.45	0.30	0.25	0.22	-	-	-
RDHW1605M0	-	-	0.60	0.50	0.45	0.35	0.30	0.20	0.10	-
RDHW2006M0	-	-	-	0.60	0.50	0.40	0.30	0.25	0.15	0.10
RDKT1605M0 -	MM	-	0.60	0.50	0.45	0.35	0.30	0.20	0.10	-
RDKT2006M0 -	MM	-	-	0.60	0.50	0.40	0.30	0.25	0.15	0.10



Milling

Future Mill (FMR)**► Ramping technical data**

$$L_{min} = \frac{ap}{\tan \alpha^\circ} \text{ (mm)}$$

* L_{min} : Min. inclination cutting length
 α° : Max. ramping angle
 ap : Depth of cut

Section	Tool dia.	Ramping angle α° (Max)	Cutting length L (mm) by ramping angle									
			ap = 1	ap = 2	ap = 2.5	ap = 3	ap = 3.5	ap = 4	ap = 5	ap = 6	ap = 8	ap = 10
FMR1000	08	18.14	3	6	8	-	-	-	-	-	-	-
	10	11.7	5	10	12	-	-	-	-	-	-	-
	12	8.43	7	13	17	-	-	-	-	-	-	-
	15	5.93	10	19	24	-	-	-	-	-	-	-
FMR1500	10	20.67	21	5	7	8	-	-	-	-	-	-
	12	10.05	10	11	14	17	-	-	-	-	-	-
	16	6.12	6	19	23	28	-	-	-	-	-	-
	20	4.36	4	26	33	39	-	-	-	-	-	-
FMR2000	15	9.42	6	12	15	18	21	-	-	-	-	-
	20	5.85	10	20	24	29	34	-	-	-	-	-
FMR2500	16	13.7	4	8	10	12	14	16	-	-	-	-
	20	9.29	6	12	15	18	21	24	-	-	-	-
	25	6.56	9	17	22	26	30	35	-	-	-	-
FMR3000	25	21.8	3	5	6	8	9	10	13	-	-	-
	32	13.24	4	9	11	13	15	17	21	-	-	-
	40	9.09	6	13	16	19	22	25	31	-	-	-
	50	6.52	9	17	22	26	31	35	44	-	-	-
	63	4.76	12	24	30	36	42	48	60	-	-	-
	80	3.52	16	33	41	49	57	65	81	-	-	-
	100	2.69	21	43	53	64	74	85	106	-	-	-
FMR4000	32	15.95	3	7	9	10	12	14	17	21	-	-
	40	10.3	6	11	14	17	19	22	28	33	-	-
	50	7.13	8	16	20	24	28	32	40	48	-	-
	63	5.08	11	22	28	34	39	45	56	67	-	-
	80	3.69	16	31	39	47	54	62	78	93	-	-
	100	2.79	21	41	51	62	72	82	103	123	-	-
	125	2.14	27	54	67	80	94	107	134	161	-	-
FMR5000	40	7.4	8	15	19	23	27	31	38	46	62	-
	50	5.22	11	22	27	33	38	44	55	66	88	-
	63	3.79	15	30	38	45	53	60	75	91	121	-
	80	2.97	19	39	48	58	67	77	96	116	154	-
	100	2.09	27	55	69	82	96	110	137	164	219	-
	125	1.63	35	70	88	105	123	141	176	211	281	-
	40	7.44	8	15	19	23	27	31	38	46	61	77
FMR6000	50	4.97	11	23	29	34	40	46	57	69	92	46
	63	3.69	16	31	39	47	54	62	78	93	124	62
	80	2.72	21	42	53	63	74	84	105	126	168	84
	100	2.12	27	54	68	81	95	108	135	162	216	108
	125	1.57	36	73	91	109	128	146	182	219	292	146



E Technical Information for FMR P-positive

Future Mill series for mold making

FMR P-positive

- Stable clamping system enables stable machining and productivity
- Varied product line-up ensures wide application range
- Optimal shape and grade with high hardness for hard-to-cut material machining

Features

- P-positive relief angle (11°) ensures high rigidity and high machinability in die steel and high-resistant alloy machining
- Flat clearance face of insert prevents interference and revolution while machining
- Optimal grades and chip breakers for various workpieces
- Chip breaker
 - Concave shape ensures wide chip pocket and lowers cutting temperature
 - Clearance face for preventing rotation
 - Prevents rotation in machining
 - Divides corners
 - Prevents interference in high-feed machining
 - Ensures stable clamping
- Through-coolant system
 - Superb chip evacuation
 - Low cutting heat ensures long tool life

Features of chip breakers

Chip breaker	Cutting-edge	Applications	Features
MA		Aluminum machining	• Optimal cutting-edge for aluminum machining and buffed surface ensure high machinability
ML		Titanium & Inconel machining	• Excellent results in titanium machining thanks to a high hardness cutting-edge and the chip breaker reducing the cutting load
MF		Fine finishing	• Chip breaker for low cutting resistance enables fine finishing.
MM		General machining	• Optimal for general machining
None C/B		Super hard material machining	• Optimal for high hardness die steel and heat resistant alloy

Recommended cutting condition

* Recommended chip breaker: ● First ○ Second

Workpiece	Hardness	Grades	Cutting conditions				Chip breaker			
			vc (m/min)	fz (mm/t)	ap (mm)	ae (mm)	MA	ML	MF	MM
P	Low carbon steel	HB80~180	PC5400	100~250	0.12~0.70	0.3~6.0	0.7D~0.1D	-	-	● ○ - -
	High carbon steel	HB180~280	PC5400	100~220	0.12~0.70	0.3~6.0	0.7D~0.1D	-	-	● ○ - -
	Low alloy steel	Under H _r C27	PC3600	180~290	0.20~0.60	0.3~6.0	0.7D~0.1D	-	-	- ● ○ -
			PC5400/PC5300	100~200	0.20~0.60	0.3~6.0	0.7D~0.1D	-	-	- ● ○ -
	Low pre-hardened steel	H _r C20~50	PC3600	130~250	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -
			PC2510/PC5300	50~150	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -
M	High alloy steel	Under H _r C27	PC3600	130~250	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -
			PC5300	100~220	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -
	High pre-hardened steel	H _r C20~48	PC2510/PC5300	50~150	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -
	Stainless steel	Under HB270	PC5300/PC5400	100~150	0.20~0.60	0.3~6.0	0.7D~0.1D	-	-	○ ● - -
	Gray cast iron, Ductile cast iron	Under 350MPa	PC5300	120~210	0.20~0.60	0.3~6.0	0.7D~0.1D	-	-	○ ● - -
	Aluminum	-	H01	300~800	0.30~0.60	0.3~6.0	0.7D~0.1D	●	-	- - - -
S	Heat resistant alloy	H _r C20~30	PC5300/PC5400	35~60	0.30~0.50	~0.5	0.7D~0.1D	-	● ○ - -	- - - -
		H _r C40~45	PC5300/PC5400	30~50	0.30~0.50	~0.5	0.7D~0.1D	-	● ○ - -	- - - -
	Titanium	H _r C35~45	PC5300/PC5400	40~70	0.30~0.50	~1.5	0.7D~0.1D	-	● ○ - -	- - - -
H	High hardened materials	Over H _r C50	PC2505/PC2510	30~50	0.30~0.50	~0.5	0.7D~0.1D	-	-	- - ● ○ -



Feed per tooth according to ap (fz, mm/t)

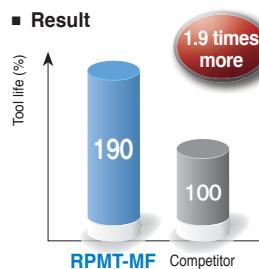
(mm)

Insert	Insert size (d)	Feed per tooth according to ap							
		ap = 1	ap = 2	ap = 3	ap = 4	ap = 5	ap = 6	ap = 8	ap = 10
RPMT08	8	0.30	0.22	0.18	0.15	-	-	-	-
RPMT10	10	0.40	0.28	0.25	0.20	0.12	-	-	-
RPMT12	12	0.60	0.45	0.35	0.30	0.25	0.20	-	-
RPMT16	16	0.65	0.45	0.40	0.32	0.30	0.28	0.23	-
RPMT20	20	0.70	0.50	0.42	0.35	0.32	0.29	0.25	0.22

Performance evaluation

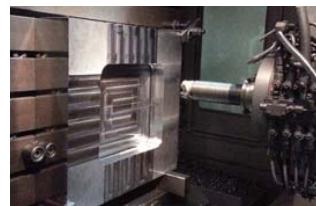
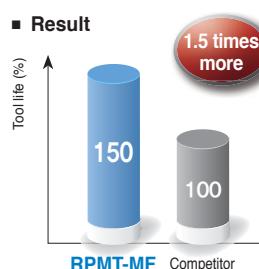
P Alloy steel (E355C Heat treatment, HRC 38~40)

- Cutting conditions vc (m/min) = 250
 fz (mm/tooth) = 0.6
 ap (mm) = 1
 wet
- Tools Insert RPMT1204M0E-MF (PC5300)
 Holder FMRS4032HRP-3L25



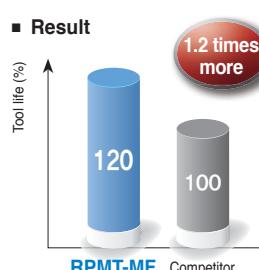
P Low pre-hardened steel (40CrMnNiMo8-6-4 Heat treatment, HRC 30~45)

- Cutting conditions vc (m/min) = 178
 fz (mm/tooth) = 0.72
 ap (mm) = 1.5
 dry
- Tools Insert RPMT1606M0S-MM (PC5300)
 Holder FMRCM5063HRP-4



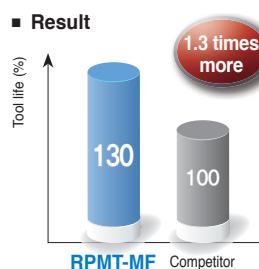
P Low pre-hardened steel (C55E4, HRC 28~33)

- Cutting conditions vc (m/min) = 178
 fz (mm/tooth) = 0.74
 ap (mm) = 0.8
 dry
- Tools Insert RPMT1204M0E-MF (PC5300)
 Holder FMRCM4063HRP-6



P High pre-hardened steel (X40CrMoV5-1, HRC 50~52)

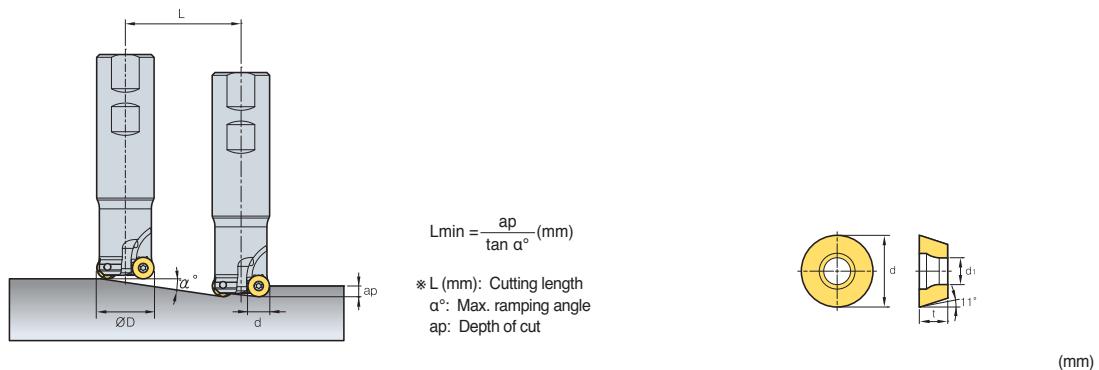
- Cutting conditions vc (m/min) = 50
 fz (mm/tooth) = 0.15
 ap (mm) = 4.0
 dry
- Tools Insert RPMW1204M0S1 (PC5300)
 Holder FMRS4032HRP-3L25



E Technical Information for FMR P-positive

FMR P-positive

Maximum angle table for ramping machining

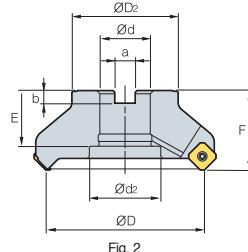
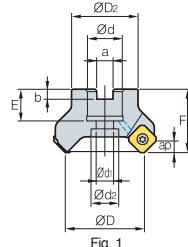


Section	Insert size (d)	Tool dia. (ØD)	Ramping angle α° (max)	Cutting length L (mm) by ap									
				ap = 1	ap = 2	ap = 2.5	ap = 3	ap = 3.5	ap = 4	ap = 5	ap = 6	ap = 8	ap = 10
FMR2500	8	17	4.7	12	24	30	36	42	48	-	-	-	-
	8	18	4.1	14	28	34	41	48	55	-	-	-	-
	8	20	15.4	4	7	9	11	13	14	-	-	-	-
	8	21	13.9	4	8	10	12	14	16	-	-	-	-
	8	25	9.8	6	12	14	17	20	23	-	-	-	-
	8	26	9.2	6	12	16	19	22	25	-	-	-	-
FMR3000	10	25	13.8	4	8	10	12	14	16	20	-	-	-
	10	26	12.6	4	9	11	13	16	18	22	-	-	-
	10	32	8.4	7	14	17	20	24	27	34	-	-	-
	10	33	8.0	7	14	18	21	25	29	36	-	-	-
	10	40	5.8	10	20	25	30	34	39	49	-	-	-
	10	50	4.2	14	27	34	41	48	55	68	-	-	-
	10	63	3.1	19	37	47	56	65	75	93	-	-	-
	10	66	2.9	20	40	50	60	69	79	99	-	-	-
FMR4000	12	25	4.5	13	25	32	38	44	51	63	76	-	-
	12	26	4.1	14	28	35	42	49	56	70	84	-	-
	12	32	14.7	4	8	10	11	13	15	19	23	-	-
	12	33	13.8	4	8	10	12	14	16	20	24	-	-
	12	40	9.6	6	12	15	18	21	24	30	36	-	-
	12	50	6.7	9	17	21	26	30	34	43	51	-	-
	12	63	4.8	12	24	30	36	42	48	60	72	-	-
	12	66	4.5	13	26	32	38	45	51	64	77	-	-
FMR5000	12	80	3.5	17	33	41	50	58	66	83	99	-	-
	12	100	2.6	22	44	55	65	76	87	109	131	-	-
	16	40	17.8	3	6	8	9	11	12	16	19	25	-
	16	50	11.3	5	10	13	15	18	20	25	30	40	-
	16	63	7.6	7	15	19	22	26	30	37	45	60	-
	16	66	7.1	8	16	20	24	28	32	40	48	64	-
	16	80	5.3	11	21	27	32	37	43	53	64	85	-
	16	100	4.0	14	29	36	43	51	58	72	87	116	-
FMR6000	16	125	3.0	19	38	48	58	67	77	96	115	154	-
	16	160	2.2	26	52	65	78	90	103	129	155	207	-
	20	50	17.8	3	6	8	9	11	12	16	19	25	31
	20	63	11.1	5	10	13	15	18	20	25	30	41	51
	20	80	7.4	8	15	19	23	27	31	38	46	61	77
	20	100	5.3	11	21	27	32	37	43	53	64	85	107
	20	125	4.0	14	29	36	43	51	58	72	87	116	145
	20	160	2.9	20	40	49	59	69	79	99	119	158	198
	20	200	2.2	26	52	65	78	90	103	129	155	207	258
	20	250	1.7	33	67	84	100	117	134	167	200	267	334

* Insert size (d): Please refer page E13, applicable insert drawing.



FMAC(M)3000



AA
45°

• AR: 21°
• RR: -17°~ -12°

Designation			ØD	ØD ₂	Ød	a	b	E	F	Ød ₁	Ød ₂	ap		Fig.
FMACM	3050HR	4	50	42	22	10.4	6.3	20	40	11	17.5	4.0	0.4	1
	3050HR-H	6	50	42	22	10.4	6.3	20	40	11	17.5	4.0	0.4	1
	3063HR	5	63	49	22	10.4	6.3	20	40	11	17.5	4.0	0.5	1
	3063HR-H	8	63	49	22	10.4	6.3	20	40	11	17.5	4.0	0.6	1
FMAC (FMACM)	3080HR	6	80	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (23)	50	14	20	4.0	1.1	1
	3080HR-H	10	80	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (23)	50	14	20	4.0	1.2	1
	3100HR	7	100	67	31.75 (32)	12.7 (14.4)	8 (8)	35 (25.5)	50	(18)	45 (26)	4.0	1.7	2 (1)
	3100HR-H	12	100	67	31.75 (32)	12.7 (14.4)	8 (8)	35 (25.5)	50	(18)	45 (26)	4.0	1.7	2 (1)
	3125HR	8	125	87	38.1 (40)	15.9 (16.4)	10 (9)	42 (29)	63	(22)	55 (32)	4.0	3.3 (3.5)	2 (1)
	3125HR-H	14	125	87	38.1 (40)	15.9 (16.4)	10 (9)	42 (29)	63	(22)	55 (32)	4.0	3.3 (3.5)	2 (1)

() Metric size

Available inserts

	SEET-MF	SEET-MM	SEET-MA	SEXT-MF	SEXT-MM	SEXT-MR	SEEW
Designation	Cermet	CN2000 CN50	NCM325 NC335 NC340 NC350 PC3500 PC3600 PC9530 PC6510 PC5300 PC5400 PD2000	Coated	Uncoated	ST30A G10 H01	page
SEET	0903AGFN-MA 0903AGSN-MF 0903AGSN-MM			● ● ● ●	●	●	
SEXT	0903AGSN-MF 0903AGSN-MM 0903AGSN-MR			● ● ● ● ●			E19 E20
SEEW	0903AGTN						

Available arbors

	Designation	Ød	NC arbors
FMAC(M)	3050HR-□	22	BT□□-FMC22-□□
	3063HR-□		
3080HR-□	25.4		BT□□-FMA25.4-□□
	27		BT□□-FMC27-□□
3100HR-□	31.75		BT□□-FMA31.75-□□
	32		BT□□-FMC32-□□
3125HR-□	38.1		BT□□-FMA38.1-□□
	40		BT□□-FMB/FMC40-□□

Parts

Specification		
Ø50~Ø125	FTKA0307	TW09S

Available inserts E19, E20

Available arbors and bolt E371~E373



FMAC(M)3000-A

Aluminum body

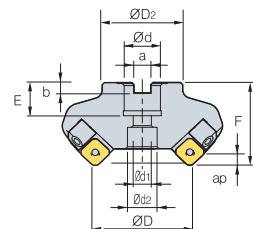


Fig. 1

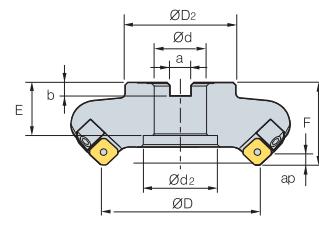


Fig. 2



AA
45°
• AR: 21°
• RR: -16°~ -12°

Designation		∅D	∅D2	∅d	a	b	E	F	∅d1	∅d2	ap	(kg)	Fig.
FMACM	3063R-A	3	63	49	22	10.4	6.3	20	40	11	18	4	0.5 1
FMAC	3080R-A	4	80	57	25.4 (27)	9.5 (12.4)	6 (7)	25	50	13.5	20	4	0.6 1
(FMACM)	3100R-A	5	100	67	31.75 (32)	12.7 (14.4)	8 (8)	32	50	-	45	4	0.8 2
	3100R-25.4-A	5	100	67	25.4	9.5	6	25	50	-	38	4	0.9 2
	3125R-A	6	125	87	38.1 (40)	15.9 (16.4)	10 (9)	38	63	-	56	4	1.6 2
	3125R-25.4-A	6	125	70	25.4	9.5	6	25	63	-	38	4	1.7 2

()Metric size

Available inserts

	SEET-MF	SEET-MM	SEET-MA	SEXT-MF	SEXT-MM	SEXT-MR	SEEW
Designation	Cermet	Coated				Uncoated	page
	CrN200 Cr30	NCrN325 NCrN340 NCrN350 PCr3500 PCr3600 PCr3700 PCr3800 PCr3900 PCr4000 PD2000				ST30A G10 H01	
SEET	0903AGFN-MA 0903AGSN-MF 0903AGSN-MM		● ● ● ●				
SEXT	0903AGSN-MF 0903AGSN-MM 0903AGSN-MR		● ● ● ● ●				E19 E20
SEEW	0903AGTN						

Available arbors

Designation	∅d	NC arbors
FMAC(M) 3063R-□	22	BT□□-FMC22-□□
3080R-□	25.4	BT□□-FMA25.4-□□
3100R-□	27	BT□□-FMC27-□□
	31.75	BT□□-FMA31.75-□□
3125R-□	32	BT□□-FMC32-□□
	38.1	BT□□-FMA38.1-□□
	40	BT□□-FMB40-□□

Parts

Specification	Screw	Insert wrench	Locator wrench	Locator	Locator screw
Ø63-Ø125	FTKA0307	TW09S	HW30L	LFMA3R-A	DHA620

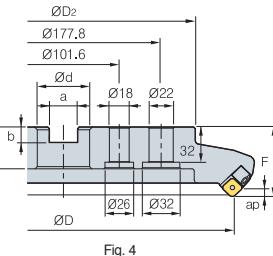
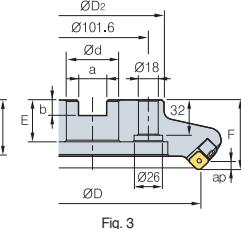
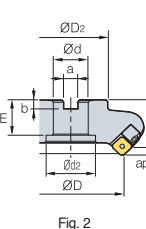
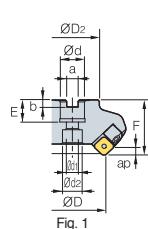
Available inserts E19, E20

Available arbors and bolt E371~E373



FMAC(M)4000-A

Aluminum body



AA
45°

- AR: 21°
- RR: -16°~ -12°

(mm)

Designation			ØD	ØD2	Ød	a	b	E	F	Ød1	Ød2	ap		Fig.	
FMACM	4063R-A		3	63	49	22	10.4	6.3	20	50	11	18	6.5	0.6	1
FMAC	4080R-A		4	80	67	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	13.5	20	6.5	0.8	1
(FMACM)	4100R-A		5	100	67	31.75 (32)	12.7 (14.4)	8 (8)	32	50	-	45	6.5	1.1	2
	4100R-25.4-A		5	100	67	25.4	9.5	6	25	50	-	38	6.5	1.2	2
	4125R-A		6	125	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (35)	63	-	56	6.5	1.7	2
	4125R-25.4-A		6	125	70	25.4	9.5	6	25	63	-	38	6.5	1.8	2
	4160R-A		7	160	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (35)	63	-	75	6.5	2.5	2
	4200R-A		8	200	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (32)	63	-	-	6.5	3.2	3
	4250R-A		10	250	180	47.625 (60)	25.4 (25.7)	14 (14)	38	63	-	-	6.5	4.1	3
	4315R-A		12	315	240	47.625 (60)	25.4 (25.7)	14 (14)	38	63	-	-	6.5	6.7	4

Note) Through coolant type between Ø50~Ø125

()Metric size

Available inserts

	SEET-MF	SEET-MM	SEET-MA	SEXT-MF	SEXT-MM	SEXT-MR	SEEW	SEEW-W	
Designation	Cermet CN2000 CN90 NCN1325 NCN1335 NCN340 NCN350 PCN350 PCN600 PCN530 PCN550 PCN400 PD2000 ST30A G10 H01	Coated PCN350 PCN600 PCN530 PCN550 PCN400	Uncoated ST30A G10 H01	page	Designation	Cermet CN2000 CN90 NCN1325 NCN1335 NCN340 NCN350 PCN350 PCN600 PCN530 PCN550 PCN400 PD2000 ST30A G10 H01	Coated PCN350 PCN600 PCN530 PCN550 PCN400	Uncoated ST30A G10 H01	page
SEET	14M4AGFN-MA 14M4AGSN-MF 14M4AGSN-MM		● ● ● ●		SEXT	14M4AGSN-MR 14M4AGTN 14M4AGFN-W 14M4AGSN-W 14M4AGTN-W	● ●		
SEXT	14M4AGSN-MF 14M4AGSN-MM	● ●	● ● ● ●		SEEW				

E19
E20

E19
E20

Available arbors

Designation	Ød	NC arbors	Designation	Ød	NC arbors
FMAC(M)	4063R-□	22	FMAC(M)	4125R-□	40
	25.4	BT□□□-FMC22-□□		4080R-□	50.8
	27	BT□□□-FMA25.4-□□		4160R-□	40
	31.75	BT□□□-FMC27-□□		4100HR-□	47.625
	32	BT□□□-FMC32-□□		4200R-□	60
	38.1	BT□□□-FMA32-□□		4250R-□	60
				4315R-□	BT□□□-FMB60-□□

Parts

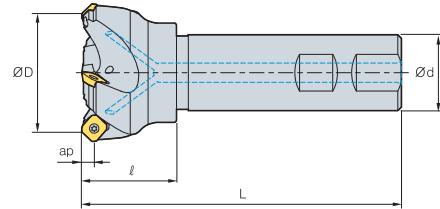
Specification	Screw	Insert wrench	Locator wrench	Locator	Locator screw
Ø63~Ø315	FTGA03512	TW15S	HW40L	LFMA4R-A	DHA0830

Available inserts E19, E20 Available arbors and bolt E371~E373



Milling

FMAS3000



AA
45°

- AR: 23°
- RR: -17° ~ -13°

(mm)

Designation			ØD	Ød	l	L	ap	
FMAS	3025HR	2	25	25	35	115	4	0.4
	3032HR	3	32	25	40	125	4	0.5
	3032HR-S32	3	32	32	40	130	4	0.8
	3040HR	3	40	32	40	130	4	0.9
	3040HR-S40	3	40	40	40	140	4	1.3
	3040HR-S42	3	40	42	40	140	4	1.4
	3050HR	4	50	32	40	135	4	1
	3050HR-S40	4	50	40	40	140	4	1.3
	3050HR-S42	4	50	42	40	140	4	1.5
	3063HR	5	63	32	45	135	4	1.2
	3063HR-S40	5	63	40	45	145	4	1.6
	3063HR-S42	5	63	42	45	145	4	1.7

Available inserts

	SEET-MF	SEET-MM	SEET-MA	SEXT-MF	SEXT-MM	SEXT-MR	SEEW	
Designation	Cermet	Cn2000 Cn30	Ncm325 Ncm335 Ncs340 Ncs350 Pcs350 Pcs600 Pcs950 Pcs6510 Pcs530 Pcs400 Pd2000	Coated		Uncoated		page
SEET	0903AGFN-MA							E19 E20
	0903AGSN-MF			●	●	●		
	0903AGSN-MM			●	●	●		
SEXT	0903AGSN-MF			●	●	●		E19 E20
	0903AGSN-MM			●	●	●		
	0903AGSN-MR			●	●	●		
SEEW	0903AGTN							

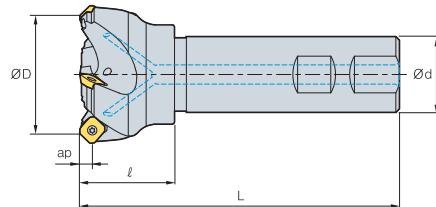
Parts

Specification		
Ø25~Ø63	FTKA0307	TW09S

Available inserts E19, E20



FMAS4000



• AR: 23°
• RR: -17°~ -13°

Designation		∅ _D	∅ _d	l	L	ap	(mm)
FMAS	4050HR	3	50	32	45	135	6.5 1
	4050HR-S40	3	50	40	45	135	6.5 1.3
	4050HR-S42	3	50	42	45	135	6.5 1.45
	4063HR	4	63	32	45	135	6.5 1.2
	4063HR-S40	4	63	40	45	135	6.5 1.5
	4063HR-S42	4	63	42	45	135	6.5 1.6

Available inserts

	SEET-MF	SEET-MM	SEET-MA	SEXT-MF	SEXT-MM	SEXT-MR	SEEW	SEEW-W	
Designation	Cermet	CN2000 CN30	NCM325 NCM335 NC5340 NCS350 PC3500 PC3600 PC9350 PC6510 PC5300 PC5400 PD2000	Coated			Uncoated		page
SEET	14M4AGFN-MA								●
	14M4AGSN-MF				● ●	● ●	● ●		
	14M4AGSN-MM			● ●	● ●	● ●	● ●		
SEXT	14M4AGSN-MF				● ●	● ●	● ●		E19 E20
	14M4AGSN-MM	● ●		● ●	● ●	● ●	● ●		
	14M4AGSN-MR			● ●	● ●	● ●	● ●		
SEEW	14M4AGTN		●						E19 E20
	14M4AGFN-W								
	14M4AGSN-W					●			
	14M4AGTN-W			● ●	● ●				

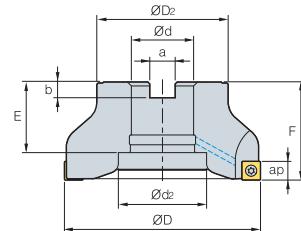
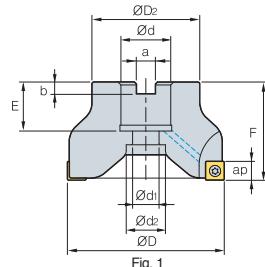
Parts

Specification	Screw	Shim	Shim screw	Insert wrench	Shim screw
Ø50~Ø63	FTGA03512	SS42SAF	SHXN0509F	TW15S	HW35L

Available inserts E19, E20



FMPC(M)3000



AA
90°

- AR: 10°
- RR: -9°~ -8°

Designation		ØD	ØD ₂	Ød	a	b	E	F	Ød ₁	Ød ₂	ap		Fig.
FMPCM 3050HS	5	50	40	22	10.4	6.3	20	40	11	18	7	0.3	1
3063HS	6	63	40	22	10.4	6.3	20	40	11	18	7	0.5	1
FMPC (FMPCM) 3080HS	7	80	55	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	14	20	7	1.0	1
3100HS	8	100	67	31.75 (32)	12.7 (14.4)	8 (8)	36 (26)	50	18	45 (26)	7	1.5	2 (1)

()Metric size

Available inserts

	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
Designation	Cermet CN2000 Cr30		Coated NCM325 NCM335 NC5340 NC5350 PC3600 PC3600 PC9530 PC6510 PC5300 PC5400 PD2000		Uncoated ST30A G10 H01		page
SDET	09M402R-MA 09M405R-MF 09M405R-MM						
SDXT	09M405R-MF 09M405L-MF 09M405R-MM 09M405L-MM 09M405R-MA	●	● ● ● ● ● ●				E17 E18

Available arbors

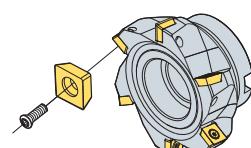
Designation	Ød	NC arbors
FMPC(M) 3050HS	22	BT□□-FMC22-□□
3063HS	25.4	BT□□-FMA25.4-□□
3080HS	27	BT□□-FMC27-□□
3100HS	31.75	BT□□-FMA31.75-□□
	32	BT□□-FMC32-□□

Parts

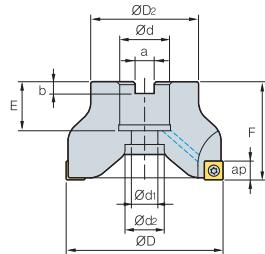
Specification		
Ø50~Ø100	FTGA03508	TW15S

Available inserts E17, E18 Available arbors and bolt E371~E373

Assembling



FMPC(M)4000



AA
90°

- AR: 10°
- RR: -9°~ -8°

(mm)

Designation		ØD	ØD ₂	Ød	a	b	E	F	Ød ₁	ØD ₂	ap	kg
FMPCM	4063HS	5	63	49	22	10.4	6.3	20 (20)	50 (50)	11	18	11 0.4
FMPC (FMPCM)	4080HS	6	80	57	25.4 (27)	9.5 (12.4)	6 (7)	25 (23)	50 (50)	14	20	11 0.9
	4100HS	7	100	67	31.75 (32)	12.7 (14.4)	8 (8)	33 (25)	63 (50)	18	26	11 1.9 (1.5)
	4125HS	8	125	87	38.1 (40)	15.9 (16.4)	10 (9)	35 (29)	63	22	32	11 3.1

()Metric size

Available inserts

	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
Designation	Cermet CN2000 CN30	Coated NCM325 NCM335 NC5340 NC5350 PC3500 PC3600 PC9330 PC6510 PC5300 PC5400 PD2000			Uncoated ST30A G10 H01		page
SDET	130504R-MA 130508R-MF 130508R-MM						
SDXT	130508R-MF 130508R-MM 130538-MM 130508R-MA	● ● ●	● ● ● ● ● ●				E17 E18

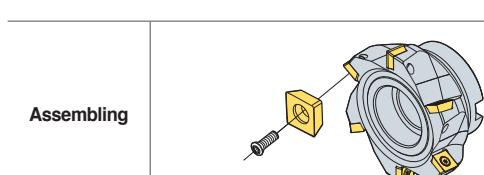
Available arbors

Designation	Ød	NC arbors
FMPC(M)		
4063HS	22	BT□□-FMC22-□□
	25.4	BT□□-FMA25.4-□□
4080HS	27	BT□□-FMC27-□□
	31.75	BT□□-FMA31.75-□□
4100HS	32	BT□□-FMC32-□□
	38.1	BT□□-FMA38.1-□□
4125HS	40	BT□□-FMB/FMC40-□□

Parts

Specification	Screw	Wrench
Ø63-Ø125	FTNC04511	TW20S

Assembling

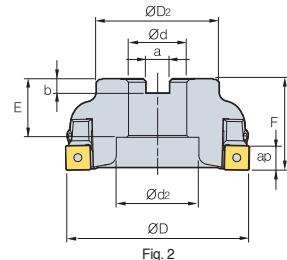
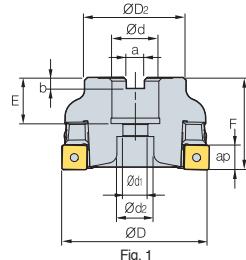
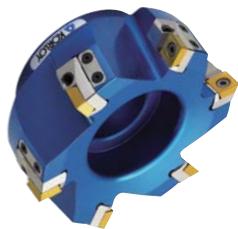


Available inserts E17,E18 Available arbors and bolt E371~E373



FMPC(M)3000-A

Aluminum body



AA
90°

- AR: 10°
- RR: -9° ~ -7.3°

Designation	ØD	ØD ₂	Ød	a	b	E	F	Ød ₁	Ød ₂	ap	(kg)	Fig.
FMPCM 3063S-A	3	63	40	22	10.4	6.3	20	40	11.0	18	7	0.2 1
FMPC 3080S-A	4	80	55	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	13.5	20	7	0.4 1
(FMPCM) 3100S-A	5	100	67	31.75 (32)	12.7 (14.4)	8 (8)	32	50	-	45	7	0.6 2
3100S-25.4-A	5	100	67	25.4	9.5	6	25	50	-	38	7	0.7 2

() Metric size

Available inserts

	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
Designation	Cermet CN2000 CN30	Coated NCN325 NCN335 NCN340 NCN350 PC3500 PC3600 PC9530 PC6510 PC5300 PC5400 PD2000	Uncoated ST30A G10 H01	page			
SDET	09M402R-MA 09M405R-MF 09M405R-MM						
SDXT	09M405R-MF 09M405L-MF 09M405R-MM 09M405L-MM 09M405R-MA	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ●				E17 E18

Available arbors

Designation	Ød	NC arbors
FMPC(M) 3063S-□	22	BT□□-FMC22-□□
3080S-□	25.4	BT□□-FMA25.4-□□
3100S-□	27	BT□□-FMC27-□□
	31.75	BT□□-FMA31.75-□□
	32	BT□□-FMC32-□□
	38.1	BT□□-FMA38.1-□□
3125S-□	40	BT□□-FMB/FMC40-□□

Parts

Specification	Screw	Insert wrench	Locator wrench	Locator	Locator screw	Chip cover	Chip cover screw
Ø63	FTGA03508	TW15S	HW30L	LFMP3R-A	DHA0624	CFMP3R14R1-A	PXMA0306
Ø80~Ø100	FTGA03508	TW15S	HW30L	LFMP3R-A	DHA0624	CFMP3R-A	PXMA0306

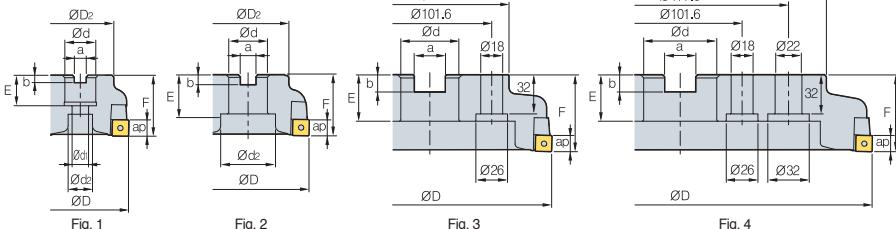
Available inserts E17, E18

Available arbors and bolt E371~E373



FMPC(M)4000-A

Aluminum body



• AR: 10°
• RR: -9°~ -7.3°

(mm)

Designation			ØD	ØD2	Ød	a	b	E	F	Ød1	Ød2	ap	kg	Fig.
FMPCM	4063S-A	3	63	49	22	10.4	6.3	20	50	11	18	11	0.6	1
FMPG (FMPCM)	4080S-A	4	80	67	25.4 (27)	9.5 (12.4)	6 (7)	25 (22)	50	13.5	20	11	0.8	1
	4100S-A	5	100	67	31.75 (32)	12.7 (14.4)	8 (8)	32	50	-	45	11	1.1	2
	4100S-25.4-A	5	100	67	25.4	9.5	6	25	50	-	38	11	1.2	2
	4125S-A	6	125	87	38.1 (40)	15.9 (16.4)	10 (9)	38 (35)	63	-	56	11	1.7	2
	4125S-25.4-A	6	125	70	25.4	9.5	6	25	63	-	38	11	1.8	2
	4160S-A	8	160	107	50.8 (40)	19.0 (16.4)	11 (9)	38 (35)	63	-	75	11	2.5	2
	4200S-A	10	200	130	47.625 (60)	25.4 (25.7)	14 (14)	38 (32)	63	-	-	11	3.2	3
	4250S-A	12	250	180	47.625 (60)	25.4 (25.7)	14 (14)	38	63	-	-	11	4.1	3
	4315S-A	15	315	240	47.625 (60)	25.4 (25.7)	14 (14)	38	63	-	-	11	6.7	4

()Metric size

Available inserts

	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
Designation	Cermet CN2000 CN30	Coated NC825 NC835 NC840 NC850 PC3500 PC3600 PC8510 PC8530 PC8540 PD2000	Uncoated ST30A G10 H01				page
SDET	130504R-MA 130508R-MF 130508R-MM						●
SDXT	130508R-MF 130508R-MM 130538-MM 130508R-MA	● ● ●	● ● ● ● ●				E17 E18 ●

Available arbors

Designation	Ød	NC arbors	Designation	Ød	NC arbors
FMAC(M)	4063R-□	22 BT□□□-FMC22-□□	FMAC(M)	4125R-□	40 BT□□□-FMB40-□□
	4080R-□	25.4 BT□□□-FMA25.4-□□		4160R-□	50.8 BT□□□-FMA50.8-□□
	4100HR-□	27 BT□□□-FMC27-□□		4200R-□	40 BT□□□-FMB/FMC40-□□
	4110HR-□	31.75 BT□□□-FMA31.75-□□		4250R-□	47.625 BT□□□-FMA47.625-□□
	4125R-□	32 BT□□□-FMC32-□□		4315R-□	60 BT□□□-FMB60-□□
		38.1 BT□□□-FMA38.1-□□			

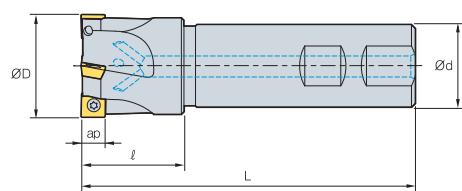
Parts

Specification	Screw	Insert wrench	Locator wrench	Locator	Locator screw	Chip cover	Chip cover screw
Ø63~Ø80	FTNC04509	TW20S	HW40L	LFMP4R1-A	DHA0825	CFMP3R14R1-A	PXMA0306
Ø100~Ø315	FTNC04509	TW20S	HW40L	LFMP4R-A	DHA0830	CFMP4R-A	PXMA0306

Available inserts E17, E18 Available arbors and bolt E371~E373



FMPS3000



• AR: 10°
• RR: -9°~ -8°

AA
90°

(mm)

Designation			ØD	Ød	l	L	ap		
FMPS	3025HS		2	25	25	35	115	7	0.4
	3032HS		3	32	25	40	125	7	0.5
	3040HS		4	40	32	40	130	7	0.8
	3040HS-S40		4	40	40	45	140	7	1.2
	3040HS-S42		4	40	42	45	140	7	1.3
	3050HS		5	50	32	40	135	7	1
	3050HS-S40		5	50	40	40	140	7	1.3
	3050HS-S42		5	50	42	40	140	7	1.4
	3063HS		6	63	32	45	135	7	1.2
	3063HS-S40		6	63	40	45	145	7	1.6
	3063HS-S42		6	63	42	45	145	7	1.7

Available inserts

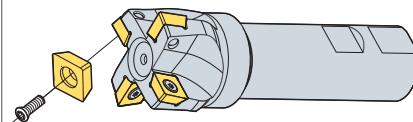
	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
Designation	Cermet		Coated		Uncoated		page
	CN2000	CN30	NCM825	NCM335	NC5340	NC5350	
			PC3500	PC3600	PC5530	PC6510	PD2000
					PC5300	PC5400	
						ST30A	G10
							H01
SDET	09M402R-MA				●		●
	09M405R-MF						
	09M405R-MM						
SDXT	09M405R-MF	●		● ● ● ● ● ●			
	09M405L-MF						
	09M405R-MM	● ●		● ● ● ● ● ●			
	09M405L-MM			● ●			
	09M405R-MA						●

E17
E18

Parts

Specification		
Ø25~Ø63	FTGA03508	TW15S

Assembling



Available inserts E17, E18

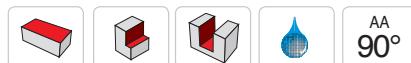
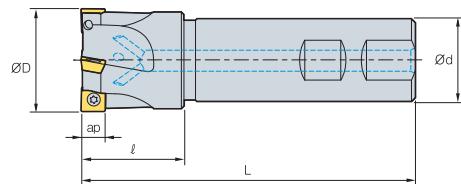


Milling

E

221

FMPS4000



AA
90°

• AR: 10°
• RR: -9°~ -8°

(mm)

Designation		∅	ØD	Ød	l	L	ap	kg
FMPS	4040HS	3	40	32	40	130	11	1
	4040HS-S40	3	40	40	40	140	11	1.3
	4040HS-S42	3	40	42	40	140	11	1.4
	4050HS	4	50	32	45	135	11	1.5
	4050HS-S40	4	50	40	45	145	11	1.7
	4050HS-S42	4	50	42	45	145	11	1.6
	4063HS	5	63	32	45	135	11	2.1
	4063HS-S40	5	63	40	45	145	11	2.4
	4063HS-S42	5	63	42	45	145	11	2.6

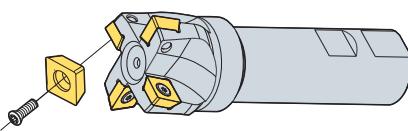
Available inserts

	SDET-MF	SDET-MM	SDET-MA	SDXT-MF	SDXT-MM	SDXT-MA	
	Cermet	CN200 CN30	NCH325 NCH335 NC340 NC5350 PC3500 PC3600 PC9530 PC510 PC5300 PC5400 PD2000	Coated	Uncoated		page
SDET	130504R-MA						
	130508R-MF						
	130508R-MM						
SDXT	130508R-MF	●		● ● ● ● ● ●			
	130508R-MM	● ●		● ● ● ● ● ●			
	130538-MM						
	130508R-MA					●	

Parts

Specification	Screw	Wrench
Ø40~Ø63	FTNC04511	TW20S

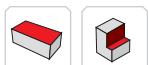
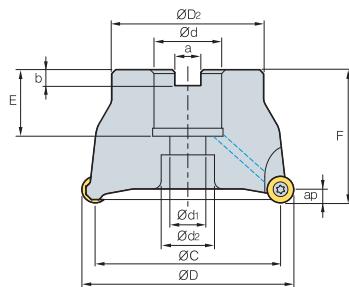
Assembling



Available inserts E17, E18



FMRC(M)3000



- AR: 5°
- RR: -5°

(mm)

Designation		∅d	∅D	∅C	∅D2	∅d	a	b	E	F	∅d1	∅d2	ap	kg
FMRCM	3040HRD	3	40	30	36	16	8.4	5.6	18	40	9	14	5.0	0.2
	3040HRD-H	4	40	30	36	16	8.4	5.6	18	40	9	14	5.0	0.2
	3050HRD	4	50	40	42	22	10.4	6.3	20	40	11	16.5	5.0	0.3
	3050HRD-H	5	50	40	42	22	10.4	6.3	20	40	11	16.5	5.0	0.3
	3063HRD	5	63	53	49	22	10.4	6.3	20	50	11	16.5	5.0	0.64
	3063HRD-H	6	63	53	49	22	10.4	6.3	20	50	11	16.5	5.0	0.64
FMRC (FMRCM)	3080HRD	6	80	70	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (22)	50 (50)	14	19	5.0	1.1
	3080HRD-H	7	80	70	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (22)	50 (50)	14	19	5.0	1.1
	3100HRD	7	100	90	67	31.75 (32)	12.7 (14.4)	8 (8.0)	32 (28)	63 (63)	18	26	5.0	2.1
	3100HRD-H	8	100	90	67	31.75 (32)	12.7 (14.4)	8 (8.0)	32 (28)	63 (63)	18	26	5.0	2.1

Note) It's general that you measure of inner diameter when the diameter of FMRC/FMRCM is Ø40~Ø63

() Metric size

Available inserts

			RDKT-MF	RDKT-MM	RDCT-MA

Designation	Cermet	Coated								Uncoated	page
	CN2000 CN30	NCM325 NCS330 NCS340 NCS350 PC2505 PC2510 PC3500 PC3600 PC5350 PC5360 PC5400	S730A H01								
RDCT	10T3M0-MA										
RDKT	10T3M0-MF			●			●				
	10T3M0-MM	●		●	●	●	●				

Available arbors

Designation	∅d	Available arbors
FMRC(M)	3040HRD 3040HRD-H	16
		BT□□-FMC16-□□
3050HRD		
3050HRD-H		
3063HRD		
3063HRD-H		
3080HRD	25.4	BT□□-FMA/FMB25.4-□□
3080HRD-H	27	BT□□-FMB/FMC27-□□
3100HRD	31.75	BT□□-FMA31.75-□□
3100HRD-H	32	BT□□-FMC32-□□

Parts

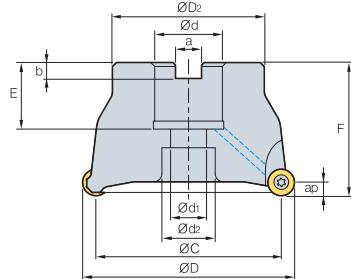
Specification		
∅40~∅100	FTGA03508	TW15S

Available inserts E15, E16

Available arbors and bolt E371~E373



FMRC(M)4000



- AR: 5°
- RR: -5°

(mm)

Designation			ØD	ØC	ØD ₂	Ød	a	b	E	F	Ød ₁	Ød ₂	ap	kg	
FMRCM	4050HRD		4	50	38	42	22	10.4	6.3	20	50	11	18	6.0	0.4
	4063HRD		4	63	51	49	22	10.4	6.3	20	50	11	18	6.0	0.6
	4063HRD-M		5	63	51	49	22	10.4	6.3	20	50	11	18	6.0	0.6
FMRC (FMRCM)	4080HRD		5	80	68	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (23)	50 (50)	14	20	6.0	1.0
	4080HRD-M		6	80	68	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (23)	50 (50)	14	20	6.0	1.0
	4100HRD		6	100	88	67	31.75 (32)	12.7 (14.4)	8 (8.0)	33 (25)	63 (50)	18	26	6.0	1.9 (1.5)
	4100HRD-M		7	100	88	67	31.75 (32)	12.7 (14.4)	8 (8.0)	33 (25)	63 (50)	18	26	6.0	1.9 (1.5)
	4125HRD		7	125	113	87	38.1 (40)	15.9 (16.4)	10 (9.0)	35 (29)	63 (63)	22	32	6.0	3.0
	4125HRD-M		8	125	113	87	38.1 (40)	15.9 (16.4)	10 (9.0)	35 (29)	63 (63)	22	32	6.0	3.0

Note) It's general that you measure of inner diameter when the diameter of FMRC/FMRCM is Ø40~Ø63

()Metric size

Available inserts

		RDKT-MF	RDKT-MM	RDCT-MA			
Designation	Cermet	CN2000 CN30	NCM325 NC5330 NC5340 NC5350 PC2505 PC2510 PC3500 PC3600 PC9330 PC6510 PC5300 PC5400	Coated	Uncoated		page
RDCT	1204M0-MA				ST30A H01		
RDKT	1204M0-MF			●		E15	
	1204M0-MM	●		● ● ● ●		E16	

Available arbors

Designation	Ød	NC arbors
FMRC(M)	4063HRD	
	4063HRD-M	22
	4080HRD	BT□□-FMC22-□□
	4080HRD	25.4
	4080HRD-M	BT□□-FMA/FMB25.4-□□
	4100HRD	27
	4100HRD-M	BT□□-FMB/FMC27-□□
	4125HRD	31.75
	4125HRD-M	BT□□-FMA/FMB31.75-□□
	4100HRD	32
	4125HRD	38.1
	4125HRD-M	BT□□-FMC32-□□
	4100HRD	40
	4125HRD-M	BT□□-FMA/FMB38.1-□□
	4125HRD	BT□□-FMB/FMC40-□□

Parts

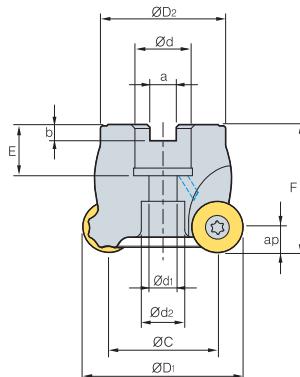
Specification	Screw	Wrench
Ø50~Ø125	FTKA0410	TW15S

Available inserts E15, E16 Available arbors and bolt E371~E373



Milling

FMRC(M)5000



• AR: 5°
• RR: -5°

(mm)

Designation			ØD	ØC	ØD2	Ød	a	b	E	F	Ød1	Ød2	ap	
FMRCM	5050HRD	3	50	34	42	22	10.4	6.3	20	50	11	16.5	8.0	0.4
	5063HRD	4	63	47	49	22	10.4	6.3	20	50	11	18	8.0	0.6
	5063HRD-H	5	63	47	49	22	10.4	6.3)	20	50	11	18	8.0	0.6
FMRC (FMRCM)	5080HRD	5	80	64	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (23)	50 (50)	14	20	8.0	0.9
	5080HRD-H	6	80	64	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (23)	50 (50)	14	20	8.0	0.9
	5100HRD	6	100	84	67	31.75 (32)	12.7 (14.4)	8 (8)	33 (25)	63 (50)	18	26	8.0	1.9 (1.4)
	5100HRD-H	7	100	84	67	31.75 (32)	12.7 (14.4)	8 (8)	33 (25)	63 (50)	18	26	8.0	1.9 (1.4)
	5125HRD	7	125	109	87	38.1 (40)	15.9 (16.4)	10 (9)	35 (29)	63 (63)	22	32	8.0	3
	5125HRD-H	8	125	109	87	38.1 (40)	15.9 (16.4)	10 (9)	35 (29)	63 (63)	22	32	8.0	3

Note) It's general that you measure of inner diameter when the diameter of FMRC/FMRCM is Ø40~Ø63

()Metric size

Available inserts

	RDHW-E,F,S		RDKT-MF		RDKT-ML		RDKT-MM			
Designation	Cermet	Coated	Cermet	Coated	Cermet	Coated	Cermet	Coated	Uncoated	page
RDHW	CN2000	NCM325	NCM330	NCM340	NCM350	PC2505	PC2510	PC3500	PC3600	E15 E16
	CN30									
RDKT	1605MO-MM				●					E15 E16
	1605MO-MF									
	1605MO-ML									

Available arbors

Designation	Ød	NC arbors
FMRC(M)		
5050HRD	22	BT□□-FMC22-□□
5063HRD		
5063HRD-H		
5080HRD	25.4	BT□□-FMA/FMB25.4-□□
5080HRD-H	27	BT□□-FMB/FMC27-□□
5100HRD	31.75	BT□□-FMA31.75-□□
5100HRD-H	32	BT□□-FMC32-□□
5125HRD	38.1	BT□□-FMA/FMB38.1-□□
5125HRD-H	40	BT□□-FMB/FMC40-□□

Parts

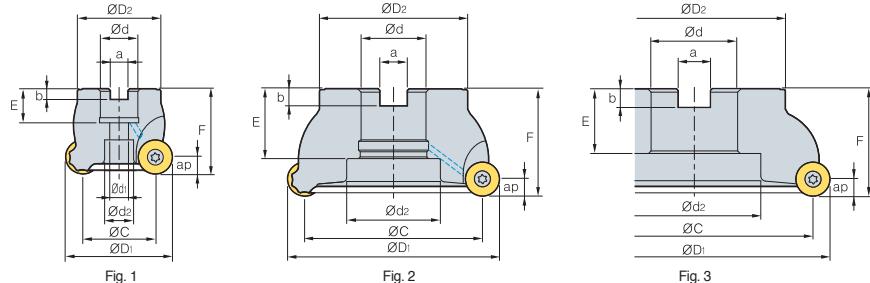
Specification		
Ø50~Ø125	FTGA0513-P	TW20-100

Available inserts E15, E16

Available arbors and bolt E371~E373



FMRC(M)6000



• AR: 5°
• RR: -5°

(mm)

Designation		∅	ØD	ØC	ØD2	Ød	a	b	E	F	Ød1	Ød2	ap	kg	Fig.
FMRCM	6063HRD	3	63	43	49	22	10.4	6.3	20	50	11	17	10.0	0.5	1
	6063HRD-M	4	63	43	49	22	10.4	6.3	20	50	11	17	10.0	0.5	1
FMRC (FMRCM)	6080HRD	4	80	60	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (22)	50	14	20	10.0	0.8	1
	6080HRD-M	5	80	60	57	25.4 (27)	9.5 (12.4)	6 (7.0)	25 (22)	50	14	20	10.0	0.8	1
	6100HRD	5	100	80	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	63	18	26	10.0	1.6	1
	6100HRD-M	6	100	80	67	31.75 (32)	12.7 (14.4)	8 (8)	32 (28)	63	18	26	10.0	1.6	1
	6125HRD	6	125	105	87	38.1 (40)	15.9 (16.4)	10 (9)	41 (29)	63	- (22)	55 (32)	10.0	2.7 (2.9)	2 (1)
	6125HRD-M	7	125	105	87	38.1 (40)	15.9 (16.4)	10 (9)	41 (29)	63	- (22)	55 (32)	10.0	2.7 (2.9)	2 (1)
	6160RD	7	160	140	107	50.8 (40)	19 (16.4)	11 (9)	38 (35)	63	-	78	10.0	4.4	3
	6160RD-M	8	160	140	107	50.8 (40)	19 (16.4)	11 (9)	38 (35)	63	-	78	10.0	4.4	3

Note) It's general that you measure of inner diameter when the diameter of FMRC/FMRCM is Ø40 - Ø63 is not inner coolant

()Metric size

Available inserts

RDHW-E,F,S RDKT-MM



Designation	Cermet		Coated										Uncoated		page	
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC6510	PC5300	PC5400	ST30A	H01	
RDHW	2006MOE															E15 E16
	2006MOF															
	2006MOS															
RDKT	2006MO-MM							●								

Available arbors

Designation	Ød	NC arbors
FMRC(M)	6063HRD	22
	6063HRD-M	BT□□-FMC22-□□
	6080HRD	25.4
	6080HRD-M	BT□□-FMA/FMB25.4-□□
	6100HRD	27
	6100HRD-M	BT□□-FMA31.75-□□
	6125HRD	31.75
	6125HRD-M	BT□□-FMC32-□□
	6160RD	32
	6160RD-M	BT□□-FMA/FMB38.1-□□
	6160RD	38.1
	6160RD-M	BT□□-FMB/FMC40-□□
	6160RD	40
	6160RD-M	BT□□-FMC50.8-□□
	6160RD	50.8
	6160RD-M	BT□□-FMB/FMC40-□□
	6160RD	40
	6160RD-M	BT□□-FMB/FMC40-□□

Parts

Specification	Screw	Wrench
Ø63-Ø160	FTGA0515-P	TW20-100

Available inserts E15, E16 Available arbors and bolt E371~E373



Milling

FMRS1000/1500

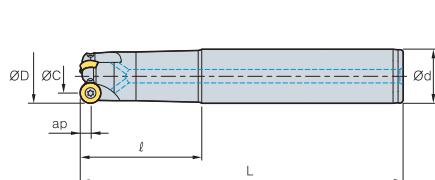


Fig. 1

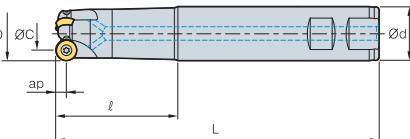
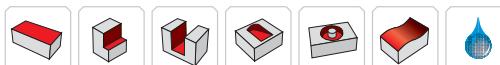


Fig. 2



• AR: 5°
• RR: -5° ~ -1°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Fig.
FMRS	1008HRD-M	1	8	5.5	10	30	80	2.5	0.2
	1008HRD-L	1	8	5.5	10	50	100	2.5	0.2
	1010HRD-M	2	10	5	12	44	100	2.5	0.2
	1010HRD-L	2	10	5	12	64	120	2.5	0.2
	1012HRD-M	2	12	7	12	44	100	2.5	0.3
	1012HRD-L	2	12	7	16	80	160	2.5	0.3
	1015HRD-M	3	15	10	16	80	160	2.5	0.3
	1015HRD-L	3	15	10	16	100	200	2.5	0.4
FMRS	1510HRD-M	1	10	6	12	44	100	3.0	0.2
	1510HRD-L	1	10	6	12	64	120	3.0	0.2
	1512HRD-M	2	12	6	12	54	110	3.0	0.3
	1512HRD-L	2	12	6	16	80	160	3.0	0.3
	1516HRD-M	3	16	10	16	60	130	3.0	0.3
	1516HRD-L	3	16	10	20	90	180	3.0	0.4
	1520HRD-M	3	20	14	20	80	150	3.0	0.4
	1520HRD-L	3	20	14	20	90	200	3.0	0.5

Available inserts

RDHW-E,F,S RDKW



Type	Designation	Cermet	Coated								Uncoated						page	
		CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3680	PC5330	PC5610	PC5300	PC5400	ST30A	H01	
1000 type	RDHW 0501M0E											●					E15 E16	
	0501M0F																	
	0501M0S																	
1500 type	RDKW 0501M0E																E15 E16	
	RDHW 06T1M0E												●					
	06T1M0F																	
	06T1M0S																	
	RDKW 06T1M0E																	

Parts

Specification	Screw	Wrench
Ø8~Ø15 (1000 type)	FTNA0203	TW06P
Ø10~Ø20 (1500 type)	FTNA02205	TW06P

Available inserts E15, E16



FMRS2000/2500

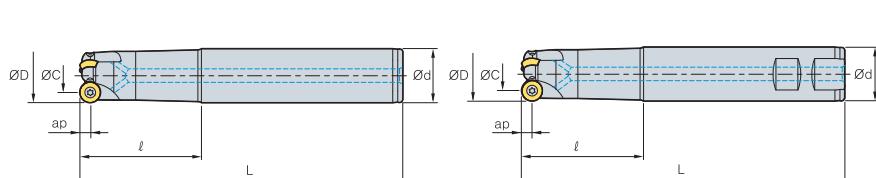


Fig. 1

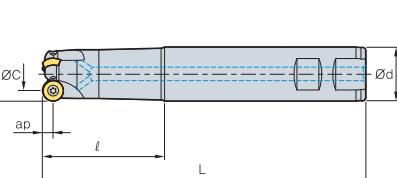


Fig. 2



• AR: 5°
• RR: -5° ~ -1°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Fig.
FMRS	2015HRD-S	2	15	8	16	55	115	3.5	0.3
	2015HRD-M	2	15	8	20	80	150	3.5	0.4
	2015HRD-L	2	15	8	20	90	200	3.5	0.5
	2020HRD-S	3	20	14	20	65	125	3.5	0.3
	2020HRD-M	3	20	14	20	80	150	3.5	0.4
	2020HRD-L	3	20	14	25	90	200	3.5	0.5
FMRS	2516HRD-S	2	16	8	16	65	125	4.0	0.3
	2516HRD-M	2	16	8	16	80	150	4.0	0.4
	2516HRD-L	2	16	8	20	90	200	4.0	0.5
	2520HRD-S	2	20	12	20	65	125	4.0	0.4
	2520HRD-M	2	20	12	20	80	150	4.0	0.5
	2520HRD-L	2	20	12	25	90	200	4.0	0.6
	2525HRD-S	3	25	17	25	55	125	4.0	0.5
	2525HRD-M	3	25	17	25	90	200	4.0	0.6
	2525HRD-L	3	25	17	32	110	250	4.0	0.7

Available inserts

		RDHW-E,F,S				RDKW											
Type	Designation	Cermet	Coated				Uncoated				page						
		CN2000	CN30	NCH125	NCS330	NCS340	NCS350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC8300	PC5400	ST304	H01
2000 type	RDHW 0702M0E																
	0702M0F																
	0702M0S																
2500 type	RDKW 0702M0E								●								
	RDHW 0803M0E								●								
	0803M0F								●								
	0803M0S																
	RDKW 0803M0E																

E15
E16

Parts

Specification	Screw	Wrench
Ø15~Ø20 (2000 type)	FTNA02555	TW07S
Ø16~Ø25 (2500 type)	FTNA0305 FTNA0306 (Ø20 over)	TW09S

Available inserts E15, E16



FMRS3000

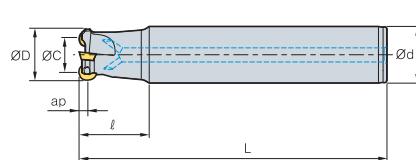


Fig. 1

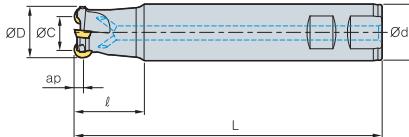


Fig. 2



• AR: 5°
• RR: -8° ~ -5°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Fig.
FMRS	3021HRD-M	1	21	11	20	40	150	5	0.4
	3021HRD-M2	2	21	11	20	40	150	5	0.4
	3021HRD-L	1	21	11	20	50	200	5	0.6
	3021HRD-L2	2	21	11	20	50	200	5	0.6
	3025HRD-S	2	25	15	25	35	115	5	0.5
	3025HRD-M	2	25	15	25	70	200	5	0.7
	3025HRD-L	2	25	15	25	100	250	5	1
	3026HRD-M	2	26	16	25	70	200	5	0.65
	3026HRD-L	2	26	16	25	100	250	5	0.7
	3032HRD-S	3	32	22	32	40	125	5	1
	3032HRD-M	3	32	22	32	70	200	5	1.3
	3032HRD-L	3	32	22	32	150	300	5	1.6
	3040HRD-S	4	40	30	32	40	125	5	1.3
	3040HRD-M	4	40	30	32	70	200	5	1.5
	3040HRD-L	4	40	30	32	150	300	5	1.8

Available inserts

RDKT-MF RDKT-MM RDCT-MA



Designation	Cermet		Coated								Uncoated		page		
	CN2000	CN30	NCM325	NC530	NC540	NC550	PC2805	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	
RDCT	10T3M0-MA														
RDKT	10T3M0-MF										●				E15
	10T3M0-MM	●					●		●	●	●				E16

Parts

Specification		Screw		Wrench
Ø21~Ø40	FTGA03508 (07)	TW15S		

Available inserts E15, E16



FMRS4000

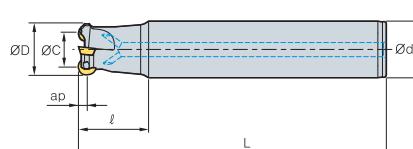


Fig. 1

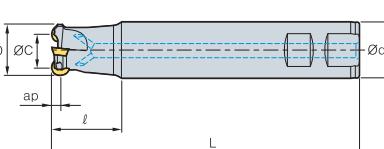
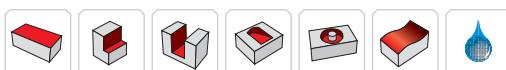


Fig. 2



- AR: 5°
- RR: -8° ~ -5°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Fig.
FMRS	4032HRD-S	2	32	20	32	40	125	6	0.8
	4032HRD-M	2	32	20	32	70	200	6	1.1
	4032HRD-L	2	32	20	32	150	300	6	1.6
	4033HRD-S	2	33	21	32	40	125	6	0.9
	4033HRD-M	2	33	21	32	70	200	6	1.1
	4033HRD-L	2	33	21	32	150	300	6	1.7
	4040HRD-S	3	40	28	32	40	125	6	1
	4040HRD-M	3	40	28	32	70	200	6	1.6
	4040HRD-L	3	40	28	32	150	300	6	1.8
	4040HRD-S40	3	40	28	40	40	125	6	1.3
	4040HRD-M40	3	40	28	40	70	200	6	2
	4040HRD-L40	3	40	28	40	150	300	6	2.4
	4040HRD-S42	3	40	28	42	40	125	6	1.6
	4040HRD-M42	3	40	28	42	70	200	6	2.4
	4040HRD-L42	3	40	28	42	150	300	6	2.8
	4050HRD-S	4	50	38	42	50	125	6	1.5
	4050HRD-M	4	50	38	42	50	250	6	2.1
	4050HRD-L	4	50	38	42	50	300	6	2.7
	4050HRD-S40	4	50	38	40	50	150	6	2
	4050HRD-M40	4	50	38	40	50	250	6	2.6
	4050HRD-L40	4	50	38	40	50	300	6	3.2

Available inserts

Designation	Cermet		Coated								Uncoated		page			
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01
RDCT	1204M0-MA														●	
RDKT	1204M0-MF										●	●				
	1204M0-MM	●						●	●	●	●					

Parts

Specification	Screw	Wrench
Ø32-Ø50	FTKA0410	TW15S

Available inserts E15, E16



FMRS5000

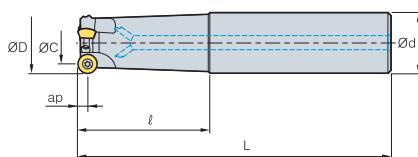


Fig. 1

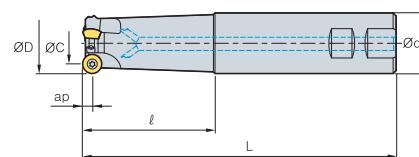


Fig. 2



• AR: 5°
• RR: -8° ~ -5°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	$\frac{kg}{mm}$	Fig.
FMRS	5040HRD-S	2	40	24	32	40	125	8	1.4
	5040HRD-M	2	40	24	32	70	200	8	1.8
	5040HRD-L	2	40	24	32	150	300	8	2.0
	5040HRD-S40	2	40	24	40	40	125	8	1.6
	5040HRD-M40	2	40	24	40	70	200	8	2.0
	5040HRD-L40	2	40	24	40	150	300	8	2.4
	5040HRD-S42	2	40	24	42	40	125	8	2.0
	5040HRD-M42	2	40	24	42	70	200	8	2.4
	5040HRD-L42	2	40	24	42	150	300	8	2.8
	5050HRD-S40	3	50	34	40	50	150	8	2.0
	5050HRD-M40	3	50	34	40	50	250	8	2.4
	5050HRD-L40	3	50	34	40	50	300	8	2.6
	5050HRD-S	3	50	34	42	50	150	8	1.5
	5050HRD-M	3	50	34	42	50	250	8	1.8
	5050HRD-L	3	50	34	42	50	300	8	2.0
	5063HRD-S40	4	63	47	40	50	150	8	1.7
	5063HRD-M40	4	63	47	40	50	250	8	2.0
	5063HRD-L40	4	63	47	40	50	300	8	2.3
	5063HRD-S	4	63	47	42	50	150	8	1.6
	5063HRD-M	4	63	47	42	50	250	8	1.8
	5063HRD-L	4	63	47	42	50	300	8	2.0

Available inserts

RDHW-E,F,S RDKT-MF RDKT-ML RDKT-MM



Designation		Cermet	NCM200 CN30	NCM325	NC5330	NC5340	NC5350	PC2505 PC2510	PC3500 PC3600	PC9530	PC6510 PC5300	PC5400	Uncoated	page
RDHW	1605M0E													E15 E16
	1605M0F													
	1605M0S													
RDKT	1605M0-MF													E15 E16
	1605M0-MM													
	1605M0-ML													

Parts

Specification	Screw	Wrench
Ø40~Ø63	FTGA0513-P	TW20-100

Available inserts E15, E16



FMRS6000

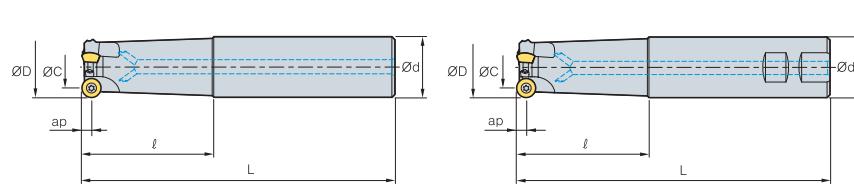


Fig. 1

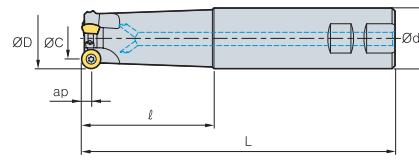


Fig. 2



- AR: 5°
- RR: -8° ~ -5°

(mm)

Designation		ØD	ØC	Ød	l	L	ap	kg	Fig.
FMRS	6050HRD-S40	3	50	31	40	50	150	10	1.3
	6050HRD-S42	3	50	31	42	50	150	10	1.4
	6050HRD-M40	3	50	31	40	50	250	10	2.2
	6050HRD-M42	3	50	31	42	50	250	10	2.4
	6050HRD-L40	3	50	31	40	50	300	10	2.7
	6050HRD-L42	3	50	31	42	50	300	10	3.0
	6063HRD-S40	4	63	44	40	50	150	10	1.5
	6063HRD-S42	4	63	44	42	50	150	10	1.6
	6063HRD-M40	4	63	44	40	50	250	10	2.5
	6063HRD-M42	4	63	44	42	50	250	10	2.7
	6063HRD-L40	4	63	44	40	50	300	10	3.0
	6063HRD-L42	4	63	44	42	50	300	10	3.2

Available inserts

		RDHW-E,F,S		RDKT-MM		page
Designation		Cermel	Coated	Coated	Uncoated	
		CN2000 CN30	NCM325 NC5330 NC5340 NC5350 PC2505 PC2510 PC3500 PC3600 PC5530 PC5510 PC5500 PC5400	PC2510 PC3500 PC3600 PC5530 PC5510 PC5500 PC5400	ST30A H01	
RDHW	2006M0E					E15 E16
	2006M0F					
	2006M0S					
RDKT	2006M0-MM			●		

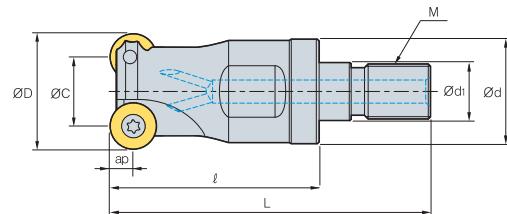
Parts

Specification	Screw	Wrench
Ø50~Ø63	FTGA0515-P	TW20-100

Available inserts E15, E16



FMRM1000/1500



• AR: 0°~5°
• RR: -5° ~ -1°

(mm)

Designation		∅D	∅C	∅d	∅d1	l	L	M	ap	$\frac{\text{kg}}{\text{mm}}$	
FMRM	1008HRD-M06	1	8	5.5	9.5	6.5	25	40	M06	2.5	0.02
	1010HRD-M06	2	10	5	9.5	6.5	25	40	M06	2.5	0.02
	1012HRD-M06	2	12	7	11	6.5	25	40	M06	2.5	0.02
	1015HRD-M08	3	15	10	14.5	8.5	30	47	M08	2.5	0.04
	1510HRD-M06	1	10	7	9.5	6.5	25	40	M06	3.0	0.02
	1512HRD-M06	2	12	6	11	6.5	25	40	M06	3.0	0.02
	1516HRD-M08	3	16	10	14.5	8.5	30	47	M08	3.0	0.02
	1520HRD-M10	3	20	14	18	10.5	35	56	M10	3.0	0.07

Available inserts

RDHW-E,F,S RDKW



Type	Designation	Cermet	Coated								Uncoated	page				
		CN2000 CN30	CN325	NC5325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A H01
1000 type	RDHW 0501M0E (F,S) RDKW 0501M0E							●								E15
1500 type	RDHW 06T1M0E (F,S) RDKW 06T1M0E								●							E16

Available adaptor

Designation		Available adaptor
FMRM	1008HRD-M06	MAT-M06
	1010HRD-M06	
	1012HRD-M06	
	1015HRD-M08	MAT-M08
	1510HRD-M06	MAT-M06
	1512HRD-M06	
	1515HRD-M08	MAT-M08
	1520HRD-M10	MAT-M10

Designation: FMRM1008HRD-M06
Modular head threading measure size (M06)

II

Adaptor spec.: MAT-**M06**-020-S10S
Adaptor threading measure (M06)

Parts

Specification	Screw	Wrench
Ø8~Ø15 (1000 type)	FTNA0203	TW06P
Ø10~Ø20 (1500 type)	FTNA02205	TW06P

Available inserts E15, E16

Available adaptor E342~E343

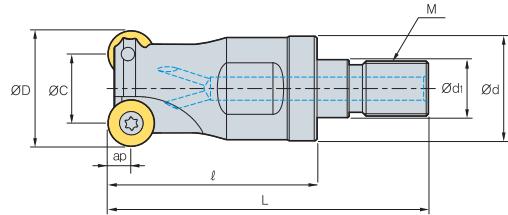


Milling

E

233

FMRM2000/2500



- AR: 0°~5°
- RR: -5°~1°

(mm)

Designation		∅D	∅C	∅d	∅d1	ℓ	L	M	ap	kg
FMRM	2015HRD-M08	2	15	8	14.5	8.5	30	M08	3.5	0.04
	2020HRD-M10	3	20	13	18	10.5	35	M10	3.5	0.07
	2516HRD-M08	2	16	8	14.5	8.5	30	M08	4.0	0.04
	2520HRD-M10	2	20	12	18	10.5	35	M10	4.0	0.07
	2525HRD-M12	3	25	17	22.5	12.5	45	M12	4.0	0.13

Available inserts

RDHW-E,F,S RDKW



Type	Designation	Cermet	Coated						Uncoated	page
		CN2000 CN30	NCB25 NC330 NC340 NC350 PC2505	PC2510 PC2500 PC660	PC550 PC5510 PC5300 PC5400	ST30A H01				
2000 type	RDHW 0702M0E (F,S)		NCB25 NC330		●					E15
	RDKW 0702M0E				●					
2500 type	RDHW 0803M0E (F,S)				●					E15 E16
	RDKW 0803M0E				●					
	1605MO-MF									

Available adaptor

Designation		Available adaptor
FMRM	2015HRD-M08	MAT-M08
	2020HRD-M10	MAT-M10
	2516HRD-M08	MAT-M08
	2520HRD-M10	MAT-M10
	2525HRD-M12	MAT-M12

Designation: FMRM1008HRD-M06
Modular Head Threading Measure size (M06)

II

Adaptor spec.: MAT-M06-020-S10S
Adaptor Threading Measure (M06)

Parts

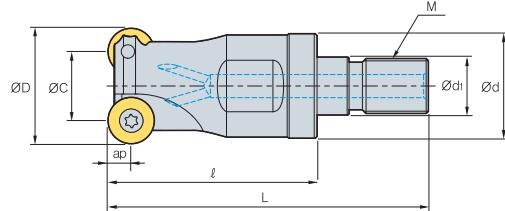
Specification	Screw	Wrench
Ø15~Ø20 (2000 type)	FTNA02555	TW07S
Ø16~Ø25 (2500 type)	FTNA0305	TW09S

Available inserts E15, E16

Available adaptor E342~E343



FMRM3000



• AR: 5°
• RR: -8° ~ -5°

(mm)

Designation			ØD	ØC	Ød	Ød1	l	L	M	ap	
FMRM	3021HRD-M10		2	21	11	18	10.5	35	M10	5.0	0.1
	3025HRD-M12		2	25	15	22.5	12.5	45	M12	5.0	0.15
	3032HRD-M16		3	32	22	29	17	50	M16	5.0	0.2
	3042HRD-M16		4	42	32	29	17	50	M16	5.0	0.24

Available inserts

	RDHW-E,F,S	RDCT-MA	RDKT-MF	RDKT-ML	RDKT-MM		
Designation	Cermet CN2000 CN30	Coated NC0325 NC3330 NC3340 NC3350 PC2505 PC2510 PC3500 PC3600 PC3530 PC3550 PC3510 PC3300 PC3400	Uncoated ST30A H01	page			
RDCT 10T3M0-MA						E15	
RDKT 10T3M0-MF			●	●		E16	
RDKT 10T3M0-MM	●		●	●	●		

Available adaptor

Designation	Available adaptor
FMRM 3021HRD-M10	MAT-M10
3025HRD-M12	MAT-M12
3032HRD-M16	
3042HRD-M16	MAT-M16

Designation: FMRM1008HRD-M06
Modular Head Threading Measure size (M06)

II

Adaptor spec.: MAT-M06-020-S10S
Adaptor Threading Measure (M06)

Parts

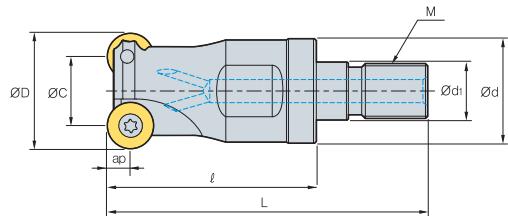
Specification		
Ø21~Ø42	FTGA03508 (07)	TW15S

Available inserts E15, E16

Available adaptor E342~E343



FMRM4000/5000



• AR: 5°
• RR: -8° ~ -5°

(mm)

Designation		∅D	∅C	∅d	∅d1	l	L	M	ap	kg
FMRM	4025HRD-M12	2	25	13	22.5	12.5	45	M12	6.0	0.12
	4032HRD-M16	2	32	20	29	17	50	M16	6.0	0.22
	4040HRD-M16	3	40	28	29	17	50	M16	6.0	0.23
	4042HRD-M16	4	42	28	29	17	50	M16	6.0	0.25
	5040HRD-M16	2	40	24	29	17	50	M16	8.0	0.25

Available inserts

		RDHW-E,F,S		RDCT-MA		RDKT-MF		RDKT-ML		RDKT-MM	
Type	Designation	Cermet	Coated	Coated	Coated	Coated	Coated	Coated	Coated	Uncoated	page
4000 type	RDCT 1204M0-MA			NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	ST30A
	RDKT 1204M0-MF							●	●	●	●
	1204M0-MM		●			●	●	●	●		
5000 type	RDHW 1605M0E,F,S										E15
	RDKT 1605M0-MF										E16
	1605M0-ML										
	1605M0-MM					●					

Available adaptor

Designation		Available adaptor	Designation: FMRM1008HRD-M06 Modular head threading measure size (M06)
FMRM	4025HRD-M12	MAT-M12	
	4032HRD-M16		
	4040HRD-M16	MAT-M16	
	4042HRD-M16		
	5040HRD-M16	MAT-M16	

II

Adaptor spec.: MAT-M06-020-S10S
Adaptor threading measure (M06)

Parts

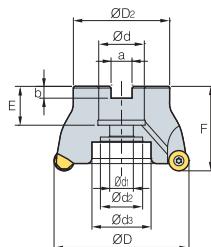
Specification	Screw	Wrench
Ø25~Ø42 (4000 type)	FTKA0410	TW1SS
Ø40 (5000 type)	FTGA0513-P	TW20-100

Available inserts E15, E16

Available adaptor E342~E343



Milling

FMRCM3000 new

 • AR: 5°
 • RR: -4° ~ 0°

(mm)

Designation		∅	∅D	∅D ₂	∅d	∅d ₁	∅d ₂	d ₃	a	b	E	F	ap	kg	Insert size
FMRCM	3040HPR-5	5	40	38	16	9	14	-	8.4	5.6	19	40	5	0.22	10
	3050HPR-6	6	50	45	22	11	18	-	10.4	6.3	20	40	5	0.35	10
	3052HPR-6	6	52	45	22	11	18	-	10.4	6.3	20	40	5	0.37	10
	3063HPR-6	6	63	50	22	11	18	-	10.4	6.3	20	40	5	0.55	10
	3063HPR-7	7	63	50	22	11	18	-	10.4	6.3	20	40	5	0.56	10
	3066HPR-7	7	66	50	22	11	18	-	10.4	6.3	20	40	5	0.60	10

Available inserts

		RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW			
		new					page	E16	
Designation		Cermet	Coated						
		CN2000 CN50	NCN325 NC5330 NC5340 NC5350	PC2505 PC2510 PC3500 PC3600 PC5530	PC6510 PC6530 PC6540	PC5300 PC5400	ST30A H01		
RPCT	10T3M0-MA						●		
RPET	10T3M0E-ML						●		
RPMT	10T3M0E-MF				●		●		
	10T3M0S-MM		● ●	●		● ●			
RPMW	10T3M0E1		● ●	●		● ●			

Available arbors

Designation		∅d	Available arbors
FMRCM	3040HPR-5	16	BT□□-FMC16-□□
	3050HPR-6	22	BT□□-FMC22-□□
	3052HPR-6	22	BT□□-FMC22-□□
	3063HPR-6	22	BT□□-FMC22-□□
	3063HPR-7	22	BT□□-FMC22-□□
	3066HPR-7	22	BT□□-FMC22-□□

Parts

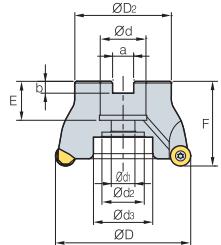
Specification	Screw	Wrench
Ø40~Ø66	FTGA03508	TW15S

Available inserts E16 Available arbors and bolt E371~E373



E FMR P-positive

FMRC(M)4000 new



• AR: 5°
• RR: -2°

(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap		Insert size	
FMRCM	4050HRP-4		4	50	45	22	11	18	-	10.4	6.3	20	40	6	0.26	12
	4050HRP-5		5	50	45	22	11	18	-	10.4	6.3	20	40	6	0.28	12
	4052HRP-5		5	52	45	22	11	18	-	10.4	6.3	20	40	6	0.30	12
	4063HRP-5		5	63	50	22	11	18	-	10.4	6.3	20	40	6	0.44	12
	4063HRP-6		6	63	50	22	11	18	-	10.4	6.3	20	40	6	0.48	12
	4066HRP-6		6	66	50	22	11	18	-	10.4	6.3	20	40	6	0.50	12
FMRC (FMRCM)	4080HRP-6		6	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	24 (23)	50	6	0.92	12
	4080HRP-7		7	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	24 (23)	50	6	0.90	12
	4100HRP-7		7	100	67	31.75 (32)	18	26	42	12.7 (14.4)	8 (8)	32 (25)	63 (53)	6	1.46	12

()Metric size

Available inserts



Designation	Cermet		Coated								Uncoated		page		
	CN2000 CN30	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC5310	PC5400	ST30A	H01
RPCT 1204M0-MA															
RPET 1204M0E-ML											●	●			
RPMT 1204M0E-MF									●		●	●			
1204M0S-MM							●	●	●		●	●			
RPMW 1204M0S1							●	●	●		●	●			
1204M0S2											●	●			

E16

Available arbors

Designation	Ød		Available arbors	
FMRCM	22		BT□□-FMC22-□□	
			BT□□-FMC25.4-□□	
			BT□□-FMC27-□□	
			BT□□-FMA25.4-□□	
			BT□□-FMC27-□□	
			BT□□-FMA31.5-□□	
FMRC(M)	25.4		BT□□-FMC25.4-□□	
	27		BT□□-FMC27-□□	
	25.4		BT□□-FMA25.4-□□	
	27		BT□□-FMC27-□□	
4100HRP-7	31.75		BT□□-FMA31.5-□□	
	32		BT□□-FMC32-□□	

Parts

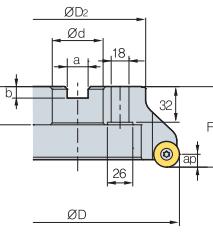
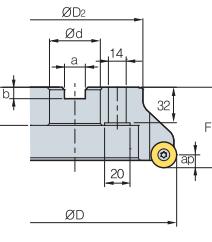
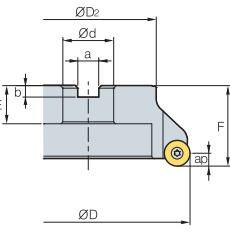
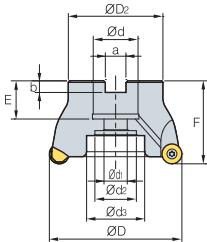
Specification	Screw	Wrench
Ø50~Ø100	FTKA0410	TW15S

Available inserts E16 Available arbors and bolt E371~E373



Milling

FMRC(M)5000 new



- AR: 5°
- RR: -1° ~ 0°

(mm)

Designation		ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	kg	Fig.	Insert size	
FMRCM	5063HPR-4	4	63	50	22	11	18	-	10.4	6.3	20	40	8	0.43	1	16
	5063HPR-5	5	63	50	22	11	18	-	10.4	6.3	20	40	8	0.44	1	16
	5066HPR-5	5	66	50	22	11	18	-	10.4	6.3	20	40	8	0.48	1	16
FMRC (FMRCM)	5080HPR-5	5	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	24 (23)	50	8	0.77	1	16
	5080HPR-6	6	80	57	25.4 (27)	14	25	35	9.5 (12.4)	6 (7)	24 (23)	50	8	0.82	1	16
	5100HPR-6	6	100	67	31.75 (32)	18	26	42	12.7 (14.4)	8 (8)	32 (25)	63 (55)	8	1.42	1	16
	5125HPR-7	7	125	87	38.1 (40)	22	32	52	15.9 (16.4)	10 (9)	35 (29)	68 (63)	8	2.78	1	16
	5125HPR-8	8	125	87	38.1 (40)	22	32	52	15.9 (16.4)	10 (9)	35 (29)	68 (63)	8	2.79	1	16
	5160HPR-8	8	160	107	50.8 (40)	-	-	100	19 (16.4)	11 (9)	38 (32)	63	8	4.01	2 (3)	16

()Metric size

Available inserts

RPCT-MA



RPET-ML



RPMT-MF



RPMT-MM



RPMW



Designation	Cermet		Coated						Uncoated		page					
	CN200	CN30	NCM225	NC330	NC340	NC350	PC2505	PC2510	PC5000	PC530	PC600	PC630	PC6400	ST30A	H01	
RPCT	1606M0-MA													●		
RPET	1606M0E-ML													●		
RPMT	1606M0E-MF								●			●		●		
	1606M0S-MM						●	●	●							
RPMW	1606M0S1						●	●	●			●	●			

E16

Available arbors

Designation	Ød	Available arbors
FMRCM	22	BT□□-FMC22-□□
5063HPR-4		
5063HPR-5		
5066HPR-5		
FMRC(M)	25.4	BT□□-FMA25.4-□□
5080HPR-5	27	BT□□-FMC27-□□
5080HPR-6	25.4	BT□□-FMA25.4-□□
	27	BT□□-FMC27-□□
5100HPR-6	31.75	BT□□-FMA31.75-□□
	32	BT□□-FMC32-□□
5125HPR-7	38.1	BT□□-FMA38.1-□□
	40	BT□□-FMC40-□□
5125HPR-8	38.1	BT□□-FMA38.1-□□
	40	BT□□-FMC40-□□
5160HPR-8	50.8	BT□□-FMA50.8-□□
	40	BT□□-FMC40-□□

Parts

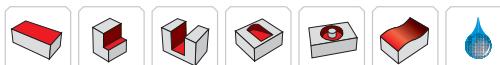
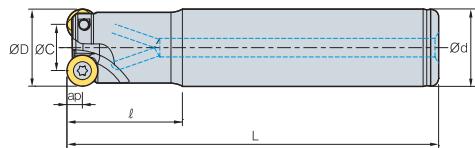
Specification	Screw	Wrench
Ø63~Ø160	FTGA0512-P	TW20-100

Available inserts E16

Available arbors and bolt E371~E373



FMRS2500 **new**



- AR: -4°
- RR: -4° ~ -1°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Insert size
FMRS	2517HRP-2S16	2	17	9	16	35	90	4	0.11
	2517HRP-2M16	2	17	9	16	35	150	4	0.20
	2517HRP-2L16	2	17	9	16	35	200	4	0.27
	2518HRP-2M16	2	18	10	16	35	150	4	0.20
	2518HRP-2L16	2	18	10	16	35	200	4	0.28
	2520HRP-3S20	3	20	12	20	35	130	4	0.27
	2520HRP-3M20	3	20	12	20	100	180	4	0.36
	2520HRP-3L20	3	20	12	20	130	250	4	0.50
	2521HRP-3S20	3	21	13	20	35	130	4	0.28
	2521HRP-3M20	3	21	13	20	35	180	4	0.40
	2521HRP-3L20	3	21	13	20	35	250	4	0.55
	2525HRP-4S25	4	25	17	25	35	150	4	0.48
	2525HRP-4M25	4	25	17	25	60	180	4	0.60
	2525HRP-4L25	4	25	17	25	130	250	4	0.81
	2526HRP-4S25	4	26	18	25	35	150	4	0.48
	2526HRP-4L25	4	26	18	25	130	250	4	0.85

Available inserts

Designation	Cermet		Coated						Uncoated		page						
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3930	PC6510	PC5300	PC5400	ST30A	H01	
RPET	0803M0E-ML										●	●					E16
RPMT	0803M0E-MF										●		●	●			
	0803M0S-MM						●	●		●			●	●			
RPMW	0803M0E1						●	●		●			●	●			

Parts

Specification	Screw	Wrench
Ø17 Ø18~Ø26	FTNA0305 FTNA0306	TW09S

Available inserts E16



E FMR P-positive

FMRS3000 **new**

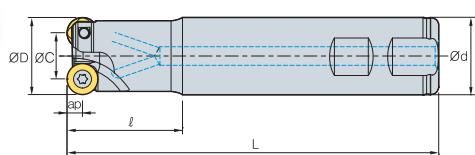


Fig. 1

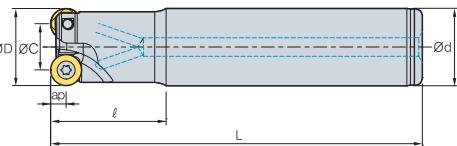


Fig. 2



- AR: -4°
- RR: -1°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Fig.	Insert size
FMRS	3025HRP-2M20	2	25	15	20	40	170	5	0.40	2 10
	3025HRP-2S25	2	25	15	25	40	120	5	0.39	1 10
	3025HRP-2M25	2	25	15	25	60	160	5	0.52	2 10
	3025HRP-2L25	2	25	15	25	130	250	5	0.80	2 10
	3026HRP-2L25	2	26	16	25	30	200	5	0.69	2 10
	3032HRP-3S32	3	32	22	32	40	125	5	0.68	1 10
	3032HRP-3L32	3	32	22	32	60	200	5	1.08	2 10
	3032HRP-4S32	4	32	22	32	40	125	5	0.66	1 10
	3032HRP-4L25	4	32	22	25	60	200	5	0.74	2 10
	3033HRP-4S32	4	33	23	32	40	125	5	0.67	1 10
	3033HRP-4M32	4	33	23	32	60	180	5	1.00	2 10
	3033HRP-4L32	4	33	23	32	180	300	5	1.64	2 10

Available inserts

	RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW
Designation	Cermet CN200 CN30	Cermet NCM325 NC530 NC540 NC550 PC2505 PC2510 PC3500 PC3600 PC5530 PC6510 PC5300 PC5400	Coated ● ● ● ● ●	Uncoated ● ● ● ● ●	page ● E16
RPCT	10T3M0-MA				
RPET	10T3M0E-ML			● ●	
RPMT	10T3M0E-MF		●	● ●	
	10T3M0S-MM	● ● ●	●	● ●	
RPMW	10T3M0E1	● ● ●	●	● ●	

Parts

Specification	Screw	Wrench
Ø25~Ø26 Ø32~Ø33	FTGA03507 FTGA03508	TW15S

Available inserts E16



Milling

FMRS4000 new

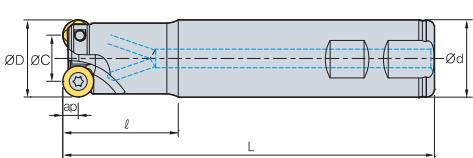


Fig. 1

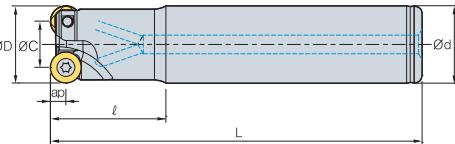


Fig. 2



- AR: -4°
- RR: -2° ~ 0°

(mm)

Designation			ØD	ØC	Ød	l	L	ap		Fig.	Insert size
FMRS	4025HRP-2S25	2	25	13	25	60	160	6	0.46	1	12
	4026HRP-2L25	2	26	14	25	60	200	6	0.48	2	12
	4032HRP-2L25	2	32	20	25	40	190	6	0.68	2	12
	4032HRP-2S32	2	32	20	32	50	125	6	0.64	1	12
	4032HRP-2L32	2	32	20	32	50	250	6	1.40	2	12
	4032HRP-3S32	3	32	20	32	50	125	6	0.64	1	12
	4032HRP-3M32	3	32	20	32	60	160	6	0.85	2	12
	4033HRP-3M32	3	33	21	32	60	200	6	1.01	2	12
	4033HRP-3L32	3	33	21	32	60	300	6	1.67	2	12
	4040HRP-3S32	3	40	28	32	35	105	6	0.60	1	12
	4040HRP-3M32	3	40	28	32	50	160	6	0.96	2	12
	4040HRP-4S32	4	40	28	32	35	105	6	0.60	1	12
	4040HRP-4M32	4	40	28	32	35	150	6	0.87	2	12
	4040HRP-4L32	4	40	28	32	35	250	6	1.46	2	12
	4050HRP-4M32	4	50	38	32	50	150	6	1.10	2	12
	4050HRP-4M40	4	50	38	40	50	150	6	1.44	2	12
	4050HRP-4M42	4	50	38	42	50	150	6	1.55	2	12

Available inserts

	RPCT-MA	RPET-MI	RPMT-MF	RPMT-MM	RPMW		page
Designation	Cermet		Coated		Uncoated		
	CN2000 CN30	NCM325 NC5330 NC5340 NC5350 PC2905 PC2910 PC3900 PC3930 PC6510 PC5300 PC5400			ST30A H01		
RPCT	1204M0-MA					●	
RPET	1204M0E-ML				● ●		
RPMT	1204M0E-MF		●		● ●		
	1204M0S-MM	● ●	●		● ●		
RPMW	1204M0S1	● ●	●		● ●		
	1204M0S2				● ●		

E16

Parts

Specification	Screw	Wrench
Ø25~Ø26 Ø32~Ø50	FTKA0408 FTKA0410	TW15S

Available inserts E16



E FMR P-positive

FMRS5000/6000 new

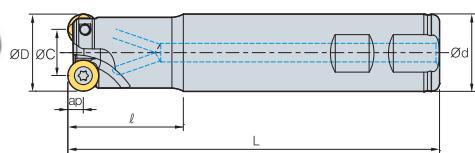


Fig. 1

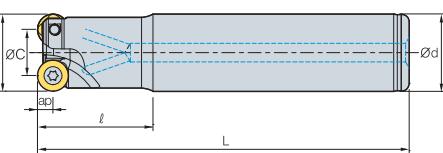
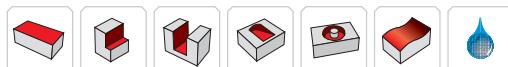


Fig. 2



- AR: -4°
- RR: 0°

(mm)

Designation		∅D	∅C	∅d	l	L	ap	kg	Insert size	Fig.
FMRS	5040HRP-2M32	2	40	24	32	50	160	8	0.92	16 2
	5040HRP-2L32	2	40	24	32	50	250	8	1.45	16 2
	5050HRP-3M40	3	50	34	40	50	160	8	1.48	16 2
	5050HRP-3L40	3	50	34	40	50	300	8	2.86	16 2
	6050HRP-3S32	3	50	30	32	50	160	10	1.06	20 1
	6050HRP-3M32	3	50	30	32	50	200	10	1.30	20 2
	6050HRP-3S40	3	50	30	40	50	125	10	1.45	20 1
	6050HRP-3M40	3	50	30	40	50	200	10	1.85	20 2

Available inserts

		RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW				
Type	Designation	Cermet	Coated	Coated	Coated	Uncoated			page	
5000 type	RPCT 1606M0-MA	CN200 CN30	NCH325 NC330 NC340 NC350	PC2505 PC2510 PC3500	PC3600 PC3530 PC3510 PC3300 PC3400	ST30A	H01			●
	RPET 1606M0E-ML					●	●			
	RPMT 1606M0E-MF			●		●	●			
	1606M0S-MM			●		●	●			
	RPMW 1606M0S1		● ●	●		●	●			
6000 type	RPCT 2007M0-MA									●
	RPET 2007M0E-ML									
	RPMT 2007M0E-MF			●		●	●			
	2007M0S-MM		● ●	●		●	●			
	RPMW 2007M0S1		● ●	●		●	●			

Parts

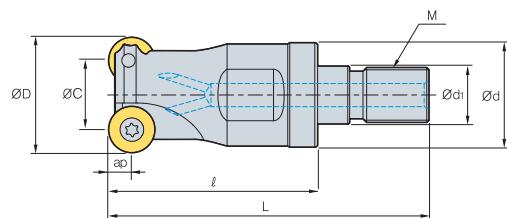
Specification	Screw	Wrench
Ø40~Ø50 (5000 type)	FTGA0511-P	TW20-100
Ø50 (6000 type)	FTKA0615-P	TW25-100

Available inserts E16



Milling

FMRM2500 **new**



• AR: -4°
• RR: -4° ~ 0°

(mm)

Designation			ØD	ØC	Ød	Ød1	l	L	M	ap		Insert size
FMRM	2517HRP-M08	2	17	9	14.5	8.5	25	42	M08	4	0.03	8
	2521HRP-M10	3	21	13	18	10.5	30	51	M10	4	0.06	8
	2526HRP-M12	4	26	18	23	12.5	35	59	M12	4	0.11	8
	2533HRP-M16	4	33	25	29	17	40	67	M16	4	0.22	8
	2540HRP-M16	5	40	32	29	17	40	67	M16	4	0.26	8

Available inserts

	RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW	
Designation	Cermet CN2000 CN30	Cermet NCN325 NC330 NC340 NC350	Coated PC2505 PC2510 PC3500 PC3600 PC3530	Coated PC3510 PC3530 PC3300 PC3400	Uncoated ST30A H01	page
RPET	0803M0E-ML			●	● ●	E16
RPMT	0803M0E-MF			●	● ●	
	0803M0S-MM		● ●	●	● ●	
RPMW	0803M0E1		● ●	●	● ●	

Parts

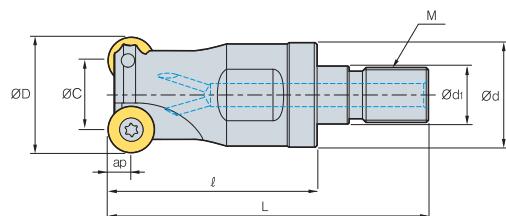
Specification	Screw	Wrench
Ø17 Ø21~Ø40	FTNA0305 FTNA0306	TW09S

Available inserts E16 Available adaptor E342~E343



E FMR P-positive

FMRM3000 *new*



- AR: -4°
- RR: -1°~0°

(mm)

Designation			ØD	ØC	Ød	Ød1	l	L	M	ap		Insert size
FMRM	3026HRP-M12	3	26	16	23	12.5	35	59	M12	5	0.10	10
	3033HRP-M16	3	33	23	29	17	40	67	M16	5	0.20	10
	3035HRP-M16	3	35	25	29	17	40	67	M16	5	0.22	10
	3040HRP-M16	3	40	30	29	17	40	67	M16	5	0.25	10
	3042HRP-M16	3	42	32	29	17	40	67	M16	5	0.27	10

Available inserts

	RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW
<i>new</i>					
Designation	Cermet CN2000 CN30	Coated NCM825 NC5330 NC5340 NC5350 PC2505 PC2510 PC3500 PC3600 PC9530 PC6510 PC5300 PC5400	Uncoated ST30A H01	page	
RPCT 10T3M0-MA				●	
RPET 10T3M0E-ML				● ●	
RPMT 10T3M0E-MF		●	●	● ●	
10T3M0S-MM		● ●	●	● ●	
RPMW 10T3M0E1		● ●	●	● ●	E16

Parts

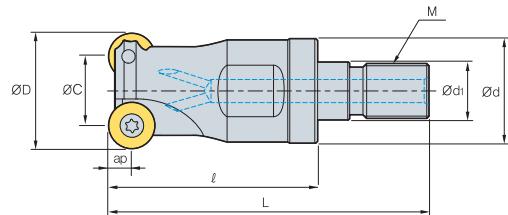
Specification	Screw	Wrench
Ø26 Ø33~Ø42	FTGA03507 FTGA03508	TW15S

Available inserts E16 Available adaptor E342~E343



Milling

FMRM4000 **new**



• AR: -4°
• RR: 0°

Designation			ØD	ØC	Ød	Ød1	l	L	M	ap	kg	Insert size
FMRM	4026HRP-M12		2	26	14	23	12.5	35	M12	6	0.10	12
	4033HRP-M16		3	33	21	29	17	40	M16	6	0.21	12
	4035HRP-M16		3	35	23	29	17	40	M16	6	0.21	12
	4040HRP-M16		4	40	28	29	17	40	M16	6	0.24	12
	4042HRP-M16		4	42	30	29	17	40	M16	6	0.25	12

Available inserts

Designation	Cermet	Coated								Uncoated	page						
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3830	PC6510	PC5300	PC5400	ST30A	H01	
RPCT	1204M0-MA														●		
RPET	1204M0E-ML																
RPMT	1204M0E-MF							●									
	1204M0S-MM						●	●	●								
RPMW	1204M0S1						●	●	●								
	1204M0S2						●	●	●								

E16

Parts

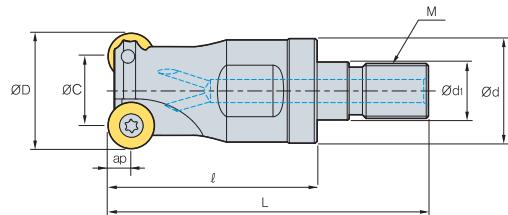
Specification	Screw	Wrench
Ø26	FTKA0408	
Ø33~Ø42	FTKA0410	TW15S

Available inserts E16 Available adaptor E342~E343



E FMR P-positive

FMRM5000 *new*



- AR: -4°
- RR: 0°

(mm)

Designation	Ø	ØD	ØC	Ød	Ød1	l	L	M	ap	kg	Insert size
FMRM	5040HRP-M16	2	40	24	29	17	40	67	M16	8	0.21
	5042HRP-M16	2	42	26	29	17	40	67	M16	8	0.23

Available inserts

	RPCT-MA	RPET-ML	RPMT-MF	RPMT-MM	RPMW
Designation	Cermet CN2000 CN30	Coated NC5325 NC5330 NC5340 NC5350 PC2505 PC2510 PC3500 PC3600 PC9530 PC6510 PC5300 PC5400	Uncoated ST30A H01	page	
RPCT	1606M0-MA				
RPET	1606M0E-ML			●	●
RPMT	1606M0E-MF		●	●	
	1606M0S-MM	●	●	●	●
RPMW	1606M0S1	●	●	●	●

E16

Parts

Specification			
Ø40~Ø42	FTGA0511-P	-	TW20-100

⇒ Available inserts E16 ⇒ Available adaptor E342~E343


Milling