

Various applications are available with multi-functional cutters

Alpha Mill



The long edge is for deep depth of cuts and more MRR.

- The Alpha mill series line-up makes high feed and deep depth of cut machining possible with a variety of insert sizes.
- The new series provides use of an extra short edge and provides for high feed milling.



KORLOY

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Alpha Mill

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AMC(M)

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AMS

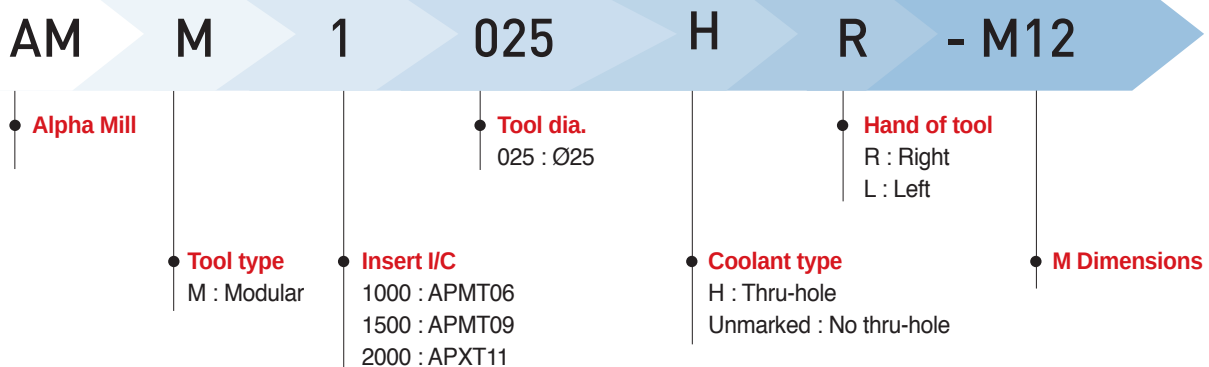
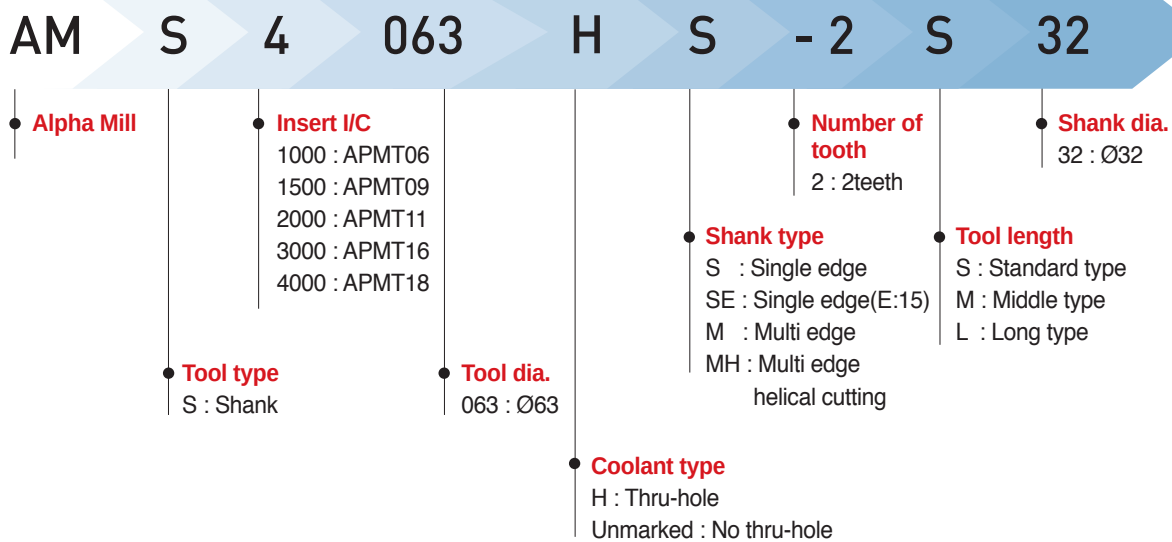
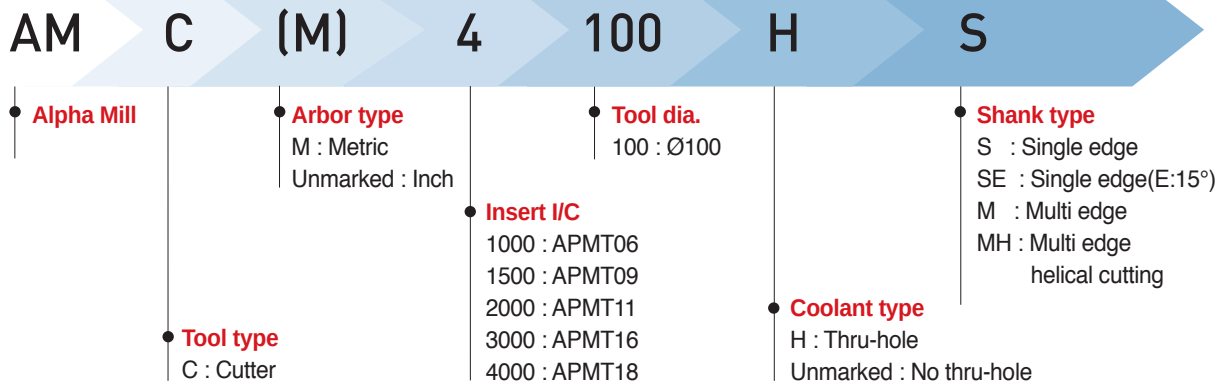
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AMM

1000/1500/2000	37
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Code system



Alpha Mill



Features

- Alpha Mill series line-up makes both high feed and deep depth of cut machining possible with a variety of insert sizes.
- The smaller inserts with 1.5 times more edges accomplish high feed.
- The bigger inserts achieve better hardness and deep depth of cutting making 1.3 times better MRR.



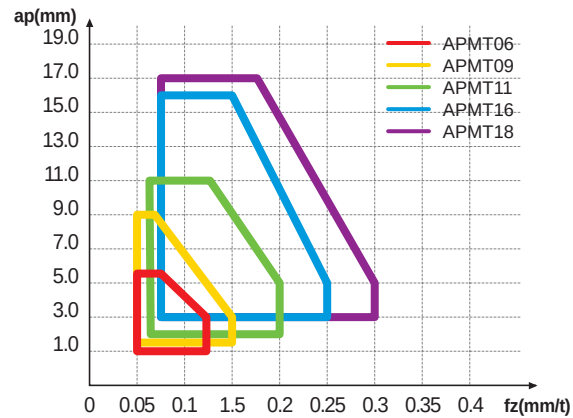
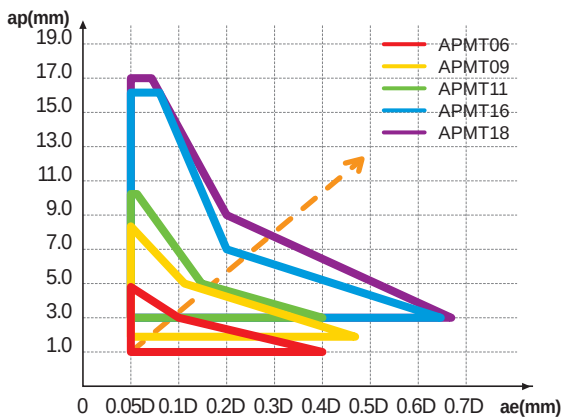
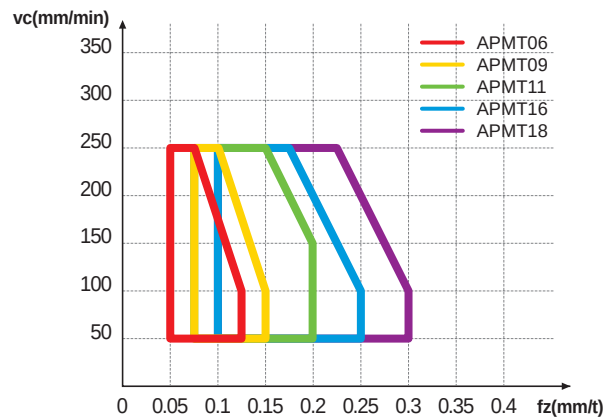
- Through coolant system
 - Better chip evacuation
 - Longer tool life with less heat
- Wider chip pocket
 - Screw on system for better chip control
- Usable with both socket and mounting bolt (bigger than Ø80)
- Lighter cutter due to bigger inside diameter
 - More convenient



- Chip breaker
 - High angle of inclination better hardness and enlarged chip pocket with the convex and concave shape
- Concave shape
 - Minimum interference better chip control
- The side
 - All positive shaped sides minimum interference
- Main cutting edge
 - High rake angle cutting edge
 - Decreasing cutting resistance
 - Sharp cutting edge

Application range

- Please follow this table.
- When $L/D=1\sim1.5D$ & $2D$, $3D$, reduce condition by 70~90%.
- Reduce cutting condition by 70% when slotting, ramping and helical ramping.
- Avoid $a_p=ae$, It might tool breakage.



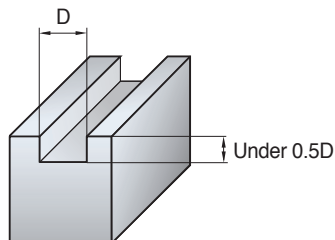
Recommended grades and chip breakers by workpiece

Chip breaker	Cutter edge	Recommended C/B and grade as per workpiece (□ : 1st)											
		P				M		K		N		S	
		Low carbon steel Mild steel		High carbon steel Alloy steel		Stainless steel		Cast iron		Aluminum alloy		Ti / Inconel	
		C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades
MA		-	-	-	-	-	-	-	-	●	●H01	-	-
ML		-	-	-	-	●	●PC5300 ○PC5400 ○PC3545 ○PC9530	-	-	-	-	●	●PC5300 ○PC5400 ○PC3545
MF		●	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NCM335	-	●PC3500 ○PC3545 ○NCM325 ○NCM335	-	●PC5300 ○PC5400 ○PC3545 ○PC9530	-	●PC6510 ○PC5300 ○PC5400	-	-	-	●PC5300 ○PC5400 ○PC3545
MM		-	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NCM335	●	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NCM335	-	●PC5300 ○PC5400 ○PC3545 ○PC9530	●	●PC6510 ○PC5300 ○PC5400	-	-	-	●PC5300 ○PC5400 ○PC3545

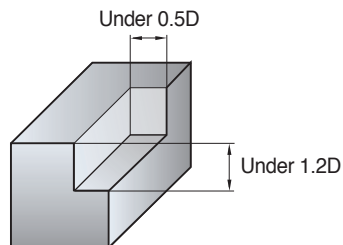
Alpha Mill



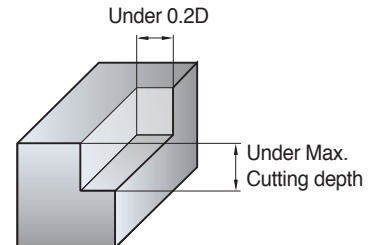
Recommended depth of cut



① Slotting



② Shouldering

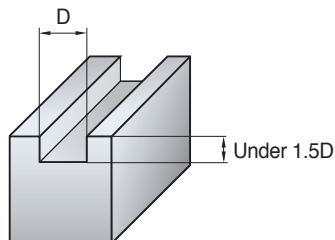


③ Shouldering

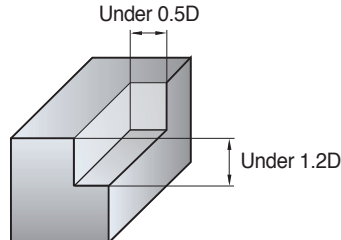
Recommended cutting condition(for multi edge type)

Workpiece	Grades	Fig.	Tool Dia.							
			Ø20, 25		Ø32, 40		Ø50, 63		Ø80, 100	
			vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)
Mild steel, Low carbon steel	NCM325 PC3500	①	80~100	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08
		②	100~120	0.08~0.10	120~140	0.08~0.10	120~140	0.08~0.10	120~140	0.08~0.10
		③	100~120	0.10~0.15	140~140	0.10~0.15	120~140	0.10~0.15	130~150	0.10~0.15
High carbon steel, Alloy steel	NCM325 PC3500	①	60~80	0.05	80~100	0.05	80~100	0.05	80~100	0.05
		②	80~100	0.05~0.08	100~120	0.08~0.10	100~120	0.08~0.10	100~120	0.08~0.10
		③	80~100	0.10~0.15	110~130	0.10~0.15	100~120	0.10~0.15	110~130	0.10~0.15
Alloy tool steel	NCM325 PC3500	①	50~70	0.05	70~90	0.05	70~90	0.05	70~90	0.05
		②	60~80	0.05~0.08	90~120	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08
		③	90~110	0.12~0.18	100~130	0.10~0.15	100~120	0.10~0.15	110~130	0.10~0.15
Stainless steel	PC5300 PC9530	①	50~70	0.054	70~90	0.05	70~90	0.05	70~90	0.05
		②	60~80	0.05~0.08	90~120	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08
		③	90~110	0.10~0.15	100~130	0.10~0.15	110~130	0.10~0.15	110~130	0.10~0.15
Cast iron	PC6510 PC5300	①	70~90	0.10~0.12	70~90	0.10~0.12	90~120	0.10~0.12	90~120	0.10~0.12
		②	80~100	0.12	90~120	0.12	100~140	0.12	100~140	0.12
		③	80~100	0.15~0.2	100~130	0.15~0.20	120~150	0.15~0.20	120~150	0.15~0.20
Aluminum alloy	H01	①	200~800	0.10~0.20	300~900	0.10~0.20	400~1,000	0.10~0.20	400~1,000	0.10~0.20
		②	250~900	0.15~0.30	300~950	0.15~0.30	400~1,000	0.10~0.40	400~1,000	0.10~0.40
		③	250~900	0.15~0.30	300~950	0.15~0.30	400~1,000	0.10~0.40	400~1,000	0.10~0.40
Hardened steel	PC3545 PC5300	①	50~70	0.03	60~90	0.03	60~90	0.03	60~90	0.03
		②	60~80	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08
		③	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08

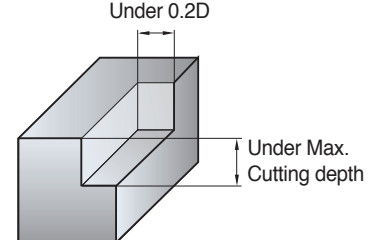
Recommended depth of cut



① Slotting



② Shouldering



③ Shouldering

Recommended cutting condition(for single edge type)

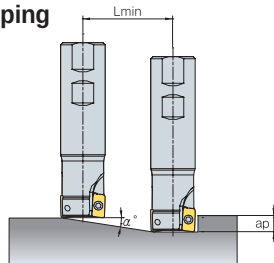
Workpiece	Grades	Fig.	Tool Dia.							
			Ø20, 25		Ø32, 40		Ø50, 63		Ø80, 100	
			vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)
Mild steel, Low carbon steel	NCM325 PC3500	①	60~80	0.05~0.08	80~120	0.05~0.08	120~200	0.05~0.08	150~200	0.05~0.08
		②	80~120	0.08~0.10	120~180	0.08~0.10	180~250	0.08~0.10	200~250	0.08~0.10
		③	80~120	0.10~0.15	120~180	0.10~0.15	180~250	0.10~0.15	200~250	0.10~0.15
High carbon steel, Alloy steel	NCM325 PC3500	①	50~80	0.05	80~110	0.05	100~150	0.05	100~150	0.05
		②	80~100	0.05~0.08	110~150	0.05~0.10	150~200	0.05~0.10	150~200	0.05~0.10
		③	80~100	0.10~0.15	120~150	0.10~0.15	180~200	0.10~0.15	80~200	0.10~0.15
Alloy tool steel	NCM325 PC3500	①	50~70	0.05	80~100	0.05	100~130	0.05	100~130	0.05
		②	70~100	0.05~0.08	100~130	0.05~0.10	130~180	0.05~0.10	130~180	0.05~0.10
		③	70~100	0.10~0.15	100~150	0.10~0.15	130~180	0.10~0.15	130~180	0.10~0.15
Stainless steel	PC5300 PC9530	①	50~70	0.05	80~100	0.05	100~130	0.05	100~130	0.05
		②	70~100	0.05~0.08	100~130	0.05~0.10	130~180	0.05~0.10	130~180	0.05~0.10
		③	70~100	0.10~0.15	100~150	0.10~0.15	130~180	0.10~0.15	130~180	0.10~0.15
Cast iron	PC6510 PC5300	①	80~100	0.08~0.12	80~100	0.15	120~150	0.15	120~150	0.15
		②	100~120	0.12~0.15	100~130	0.15~0.18	150~200	0.15~0.18	150~200	0.15~0.18
		③	100~120	0.15~0.20	100~130	0.15~0.20	150~200	0.15~0.20	150~200	0.15~0.20
Aluminum alloy	H01	①	250~800	0.15~0.20	300~900	0.15~0.20	400~1,000	0.10~0.20	400~1,000	0.10~0.20
		②	250~900	0.20~0.25	350~950	0.20~0.25	400~1,000	0.20~0.30	400~1,000	0.20~0.30
		③	250~900	0.25~0.3	350~950	0.25~0.30	400~1,000	0.30~0.40	400~1,000	0.30~0.40
Hardened steel	PC3545 PC5300	①	50~70	0.03	60~90	0.03	60~90	0.03	60~90	0.03
		②	60~80	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08
		③	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08

Alpha Mill

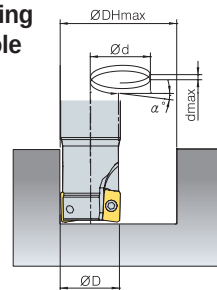


Cutting condition for ramping and helical operation

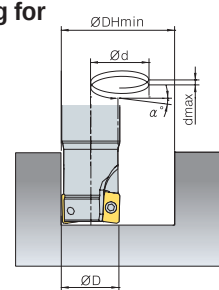
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



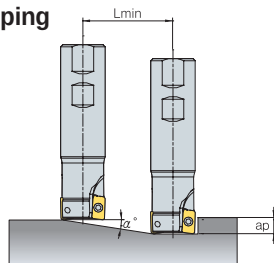
(mm)

Designation	Tool Dia. ØD (mm)	Ramping			Helical cutting for blind hole				Helical cutting for through hole	
		ap	Maximum angle α(°)	Lmin	Max. desirable hole Dia. ØDHmax	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax
AMS1010HS	10	5	6.5	44	18.8	2.1	17.6	2.0	13	1.5
AMS1011HS	11		5.6	51	20.8	2.0	19.6	1.9	15	1.5
AMS1012HS	12		4.9	58	22.8	2.0	21.6	1.9	17	1.5
AMS1014HS	14		3.9	73	26.8	1.8	25.6	1.8	21	1.4
AMS1015HS	15		3.6	80	28.8	1.8	27.6	1.7	23	1.4
AMS1016HS	16		3.3	87	30.8	1.8	29.6	1.7	25	1.4
AMS1017HS	17		3.0	94	32.8	1.7	31.6	1.7	27	1.4
AMS1018HS	18		2.8	101	34.8	1.7	33.6	1.7	29	1.4
AMS1020HS	20		2.5	115	38.8	1.7	37.6	1.6	33	1.4
AMS1021HS	21		2.3	123	40.8	1.7	39.6	1.6	35	1.4
AMS1022HS	22		2.2	130	42.8	1.6	41.6	1.6	37	1.4
AMS1025HS	25		1.9	151	48.8	1.6	47.6	1.6	43	1.4
AMS1026HS	26		1.8	158	50.8	1.6	49.6	1.6	45	1.4
AMS1032HS	32		1.4	201	62.8	1.6	61.6	1.5	57	1.4
AMS1033HS	33		1.4	208	64.8	1.6	63.6	1.5	59	1.4
AMC1032HS	32		1.4	201	62.8	1.6	61.6	1.5	57	1.4
AMC1040HS	40		1.1	258	78.8	1.5	77.6	1.5	73	1.4
AMC1050HS	50		0.9	330	98.8	1.5	97.6	1.5	93	1.4
AMC1063HS	63		0.7	423	124.8	1.5	123.6	1.5	119	1.4
AMS1510HS	10	9	7.5	68	18.8	2.5	17.4	2.3	11	1.5
AMS1512HS	12		6.5	79	22.8	2.6	21.4	2.4	15	1.7
AMS1513HS	13		5.7	90	24.8	2.5	23.4	2.3	17	1.7
AMS1514HS	14		6.3	82	26.8	2.9	25.4	2.8	19	2.1
AMS1516HS	16		5.0	102	30.8	2.7	29.4	2.6	23	2.0
AMS1517HS	17		4.6	112	32.8	2.6	31.4	2.5	25	2.0
AMS1518HS	18		4.2	122	34.8	2.6	33.4	2.5	27	2.0
AMS1519HS	19		3.9	132	36.8	2.5	35.4	2.4	29	2.0
AMS1520HS	20		3.6	142	38.8	2.5	37.4	2.4	31	2.0
AMS1521HS	21		3.4	152	40.8	2.4	39.4	2.3	33	2.0
AMS1522HS	22		3.2	162	42.8	2.4	41.4	2.3	35	1.9
AMS1524HS	24		2.8	182	46.8	2.3	45.4	2.2	39	1.9
AMS1525HS	25		2.7	192	48.8	2.3	47.4	2.2	41	1.9
AMS1528HS	28		2.3	222	54.8	2.2	53.4	2.2	47	1.9
AMS1530HS	30		2.1	242	58.8	2.2	57.4	2.1	51	1.9
AMS1532HS	32		2.0	262	62.8	2.2	61.4	2.1	55	1.9
AMS1535HS	35		1.8	292	68.8	2.1	67.4	2.1	61	1.9
AMS1540HS	40		1.5	342	78.8	2.1	77.4	2.0	71	1.9
AMC15040HS	40		1.5	342	78.8	2.1	77.4	2.0	71	1.9
AMC15050HS	50		1.2	442	98.8	2.0	97.4	2.0	91	1.9
AMC15063HS	63		0.9	572	124.8	2.0	123.4	1.9	117	1.8
AMC15080HS	80		0.7	742	158.8	1.9	157.4	1.9	151	1.8
AMC15100HS	100		0.5	942	198.8	1.9	197.4	1.9	191	1.8

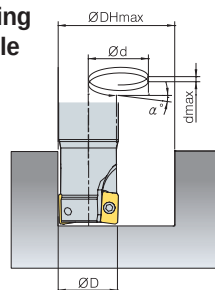
$$L_{\min} = \frac{ap}{\tan \alpha} \quad (\text{mm})$$

Cutting condition for ramping and helical operation

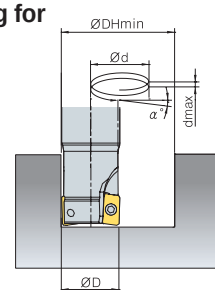
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



(mm)

Designation	Tool Dia. ØD (mm)	Ramping			Helical cutting for blind hole				Helical cutting for through hole	
		ap	Maximum angle α°	Lmin	Max. desirable hole Dia. ØDHmax	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax
AMS2010HS	10	10	16.82	33	18	5.4	16.4	5.0	11	3.3
AMS2012HS	12		11.69	48	22	4.6	20.4	4.2	15	3.1
AMS2014HS	14		7.55	75	26	3.4	24.4	3.2	19	2.5
AMS2016HS	16		10.30	55	30	5.5	28	5.1	23	4.2
AMS2018HS	18		8.23	69	34	4.9	32	4.6	27	3.9
AMS2020HS	20		5.60	102	38	3.7	36	3.5	31	3.0
AMS2022HS	22		5.15	111	42	3.8	40	3.6	35	3.2
AMS2025HS	25		3.92	146	48	3.3	46	3.2	41	2.8
AMS2032HS	32		2.70	212	62	2.9	60	2.8	55	2.6
AMS2040HS	40		1.98	289	78	2.7	76	2.6	71	2.5
AMS2050HS	50		1.48	386	98	2.5	96	2.5	91	2.4
AMS2063HS	63		1.11	514	124	2.4	122	2.4	117	2.3
AMC2050HS	50		0.36	1576	98	0.6	96	0.6	91	0.6
AMC2063HS	63		0.27	2104	124	0.6	122	0.6	117	0.6
AMC2080HS	80		0.21	2784	158	0.6	156	0.6	151	0.5
AMC2100HS	100		0.16	3584	198	0.6	196	0.5	191	0.5
AMS3025HS	25	10	4.72	121	48	4.0	46	3.8	36	3.0
AMS3032HS	32		3.00	191	62	3.2	60	3.1	50	2.6
AMS3040HS	40		2.29	250	78	3.1	76	3.0	66	2.6
AMS3050HS	50		1.64	350	98	2.8	96	2.7	86	2.5
AMS3063HS	63		1.22	470	124	2.6	122	2.6	112	2.4
AMC3040HS	40		1.99	288	78	2.7	76	2.6	66	2.3
AMC3050HS	50		1.67	343	98	2.9	96	2.8	86	2.5
AMC3063HS	63		1.22	470	124	2.6	122	2.6	112	2.4
AMC3080HS	80		0.90	636	158	2.5	156	2.5	146	2.3
AMC3100HS	100		0.69	830	198	2.4	196	2.4	186	2.2
AMS2025MH	25	10	1.50	764	48	1.3	46	1.2	-	-
AMS2032MH	32	10	1.50	1146	62	1.6	60	1.6	-	-
AMS3040MH	40	16	1.50	1528	78	2.0	76	2.0	-	-
AMS4020HS	20	16	9.5	98	38.8	6.5	37.4	6.2	31	5.2
AMS4021HS	21		5.2	179	40.8	3.7	39.4	3.6	33	3.0
AMS4025HS	25		7.6	122	48.8	6.5	47.4	6.3	41	5.5
AMS4026HS	26		7.1	130	50.8	6.4	49.4	6.2	43	5.4
AMS4032HS	32		3.4	276	62.8	3.7	61.4	3.6	55	3.3
AMS4033HS	33		3.2	288	64.8	3.7	63.4	3.6	57	3.2
AMS4040HS	40		2.5	376	78.8	3.4	77.4	3.4	71	3.1
AMS4050HS	50		1.9	502	98.8	3.2	97.4	3.2	91	3.0
AMS4063HS	63		1.4	665	124.8	3.1	123.4	3.0	117	2.9
AMC4050HS	50		1.9	502	98.8	3.2	97.4	3.2	91	3.0
AMC4063HS	63		1.4	665	124.8	3.1	123.4	3.0	117	2.9
AMC4080HS	80		1.1	878	158.8	2.9	157.4	2.9	151	2.8
AMC4100HS	100		0.8	1128	198.8	2.9	197.4	2.9	191	2.8
AMC4125HS	125		0.6	1442	248.8	2.8	247.4	2.8	241	2.7

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

Alpha Mill



Cutters

Type	A.A	Designation	Shape	Diameter range	Features	Application				
						Facing	Shouldering	Slotting	Copying	Ramping, Helical
Cutters for molds	0°	AMC(M) 1000S/1500S/ 2000S		Ø32~Ø100	3 dimensional shape and high rake angle lowers cutting load and ensures better chip evacuation.	•	•	•	•	•
	0°	AMC(M) 3000S/3000S-K/ 4000S		Ø40~Ø200		•	•	•	•	•
	15°	AMC(M) 1000SE 2000SE 3000SE		Ø40~Ø100	Inner coolant system for better chip control increases tool life. Wide size range of inserts enlarges application range.	•				
	0°	AMC(M) 2000M 3000M 4000M		Ø50~Ø125	Various types of Alpha Mills available for high depth of cut and high feed machining.	•	•	•	•	•

Shanks

Type	A.A	Designation	Shape	Diameter range	Features	Application				
						Facing	Shouldering	Slotting	Copying	Ramping, Helical
Cutters for molds	0°	AMS 1000S/1500S 2000S/3000S 3000S-K/4000S		Ø10~Ø63	The combination of a 3 dimensional curve design & high rake angle helps chip-evacuation effectively with a low cutting force	•	•	•	•	•
	15°	AMS 1000SE/2000SE 3000SE		Ø25~Ø63		•				
	0°	AMS 1000M/1500M 2000M/4000M		Ø16~Ø50	Inner coolant system The various range of inserts can provide the widened choice	•	•	•	•	•
	0°	AMS 1000MH/1500MH 2000MH/3000MH		Ø14~Ø40	High depth and high feed can be available during operation	•	•	•	•	•

Modular Adaptors

AMM type



**Steel Shank
type**



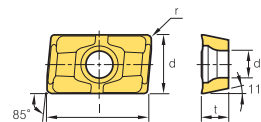
**Carbide Shank
type**



Alpha Mill



Inserts



Designation		Coated										Cermet			Uncoated				Dimensions(mm)						
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	C
APFT	1604PDSR-X22				●															16.4	9.525	4.76	0.8	4.4	-
	1604PDTR-X22																			16.4	9.525	4.76	0.8	4.4	-
APFT	1604PDR-X28																			16.4	9.525	4.76	0.8	4.4	-
	1604PDSR-X28																			16.4	9.525	4.76	0.8	4.4	-
	1604PDTR-X28																			16.4	9.525	4.76	0.8	4.4	-
APKT	1604PDSR	●			●				●											16.4	9.525	4.76	0.8	4.4	-
APKT	1604PDFR-MA										●				●					16.4	9.525	4.76	0.2	4.4	-
APKT	1604PDFR-MA2														●					16.5	9.56	5.76	0.8	4.5	-
	160416FR-MA2																			16.5	9.56	5.76	1.6	4.5	-
	160432FR-MA2																			16.5	9.56	5.76	3.2	4.5	-
APKT	1604PDFR-MA3														●	●				16.4	9.525	5.0	0.8	4.4	-
	160420FR-MA3																			16.0	9.525	5.0	2.0	4.4	-
APKT	1604PDSR-MF	●				●														16.4	9.525	5.0	0.8	4.4	-
APKT	1604PDSR-MM	●	●		●	●		●	●	●										16.4	9.525	5.2	0.8	4.4	-
APKT	160432R-MM1	●																		16.4	9.525	4.76	3.2	4.4	-
APKT	1604PDSR-X22	●																		16.4	9.525	4.76	0.8	4.4	-
	1604PDTR-X22																			16.4	9.525	4.76	0.8	4.4	-
APKT	1604PDR-X23																			16.3	9.525	4.76	1.0	4.4	-
	1604PDTR-X23																			16.3	9.525	4.76	1.0	4.4	-
APKT	1604PDR-X24																			16.3	9.525	4.76	1.0	4.4	-
	1604PDFR-X24																			16.3	9.525	4.76	1.0	4.4	-
APMT	0602PDFR-MA														●					6	4.24	2.6	0.4	2.0	-
	0903PDFR-MA														●					9.4	6.21	3.6	0.4	2.8	-
	11T3PDFR-MA														●					11.2	6.467	3.6	0.5	2.9	-
	1604PDFR-MA														●					16.4	9.41	5.76	0.8	4.5	-
	1806PDFR-MA														●					17.4	10.98	6.35	0.8	4.5	-
APMT	11T3PDSR-MF	●		●	●	●		●	●											11.2	6.467	3.6	0.5	2.85	-
	1604PDSR-MF	●		●	●	●		●	●											16.4	9.41	5.76	0.8	4.5	-
	1806PDSR-MF			●		●		●	●											17.4	10.98	6.35	0.8	4.5	-
	180612PDSR-MF																			17.4	10.98	6.35	1.2	4.5	-
APMT	0903PDER-ML							●												9.4	6.21	3.6	0.4	2.8	-
	11T3PDER-ML							●												11.2	6.467	3.6	0.5	2.9	-
	1604PDER-ML							●												16.4	9.41	5.76	0.8	4.5	-
	1806PDER-ML							●												17.4	10.98	6.35	0.8	4.5	-

□ : Stock item

Inserts

Designation		Coated										Cermet			Uncoated			Dimensions(mm)							
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	l	d	t	r	d1	C
APMT	060202PDSR-MM			●	●	●		●	●											6	4.24	2.6	0.2	2.0	-
	0602PDSR-MM			●	●	●		●	●	●	●									6	4.24	2.6	0.4	2.0	-
	060208PDSR-MM			●	●	●		●	●											6	4.24	2.6	0.8	2.0	-
	060212R-MM			●	●	●														6	4.24	2.6	1.2	2.0	-
	060216R-MM				●															6	4.24	2.6	1.6	2.0	-
	0903PDSR-MM			●	●	●		●	●											9.4	6.21	3.6	0.4	2.8	-
	090306PDSR-MM																			9.4	6.21	3.6	0.6	2.8	-
	090308PDSR-MM			●	●	●		●	●											9.4	6.21	3.6	0.8	2.8	-
	090312R-MM					●		●	●											9.4	6.21	3.6	1.2	2.8	-
	090316R-MM			●	●	●														9.4	6.21	3.6	1.6	2.8	-
	090320R-MM				●	●														9.2	6.21	3.6	2.0	2.8	-
	090331R-MM																			9.2	6.21	3.6	3.1	2.8	-
	090332R-MM																			9.2	6.21	3.6	3.2	2.8	-
	11T3PDSR-MM	●		●	●	●		●	●	●	●									11.2	6.467	3.6	0.5	2.85	-
	11T308PDSR-MM	●		●	●	●		●	●	●										11.2	6.467	3.6	0.8	2.85	-
	11T312PDSR-MM	●		●	●	●		●	●	●										11.2	6.467	3.6	1.2	2.85	-
	11T316R-MM	●		●	●	●														11	6.467	3.6	1.6	2.85	-
	11T318R-MM																			11	6.467	3.6	1.8	2.85	-
	11T324R-MM			●	●	●		●												11	6.467	3.6	2.4	2.85	-
	1604PDSR-MM	●		●	●	●			●	●	●									16.4	9.41	5.76	0.8	4.5	-
	160410PDSR-MM	●			●	●		●	●											16.4	9.41	5.76	1.0	4.5	-
	160416PDSR-MM	●		●	●	●		●	●											16.4	9.41	5.76	1.6	4.5	-
	160424R-MM			●	●	●		●	●											16	9.41	5.76	2.4	4.5	-
	160430R-MM							●												16	9.41	5.76	3.0	4.5	-
	160432R-MM	●		●	●	●		●	●											16	9.41	5.76	3.2	4.5	-
	160450R-MM							●												16	9.41	5.76	5.0	4.5	-
	160464R-MM							●												16	9.41	5.76	6.4	4.5	-
	1806PDSR-MM	●		●	●	●		●	●	●	●									17.4	10.98	6.35	0.8	4.5	-
	180612PDSR-MM	●		●	●	●		●	●											17.4	10.98	6.35	1.2	4.5	-
	180616PDSR-MM			●				●	●											17.4	10.98	6.35	1.6	4.5	-
	180620PDSR-MM																			17.4	10.98	6.35	2.0	4.5	-
	180624PDSR-MM			●	●			●												17.4	10.98	6.35	2.4	4.5	-
	180630R-MM																			16.7	10.98	6.35	3.0	4.5	-
	180632R-MM			●	●		●	●												16.7	10.98	6.35	3.2	4.5	-
	180640R-MM						●	●												16.7	10.98	6.35	4.0	4.5	-
	180648R-MM						●													16.7	10.98	6.35	4.8	4.5	-
	180650R-MM																			16.7	10.98	6.35	5.0	4.5	-
	180660R-MM																			16.7	10.98	6.35	6.0	4.5	-
	180664R-MM																			16.7	10.98	6.35	6.4	4.5	-
APXT	11T3PDR-MA														●				11.3	6.594	3.6	0.5	2.85	-	
	11T318R-MA																		11.3	6.594	3.6	1.8	2.85	-	
APXT	11T3PDSR-MR																		11.3	6.594	3.6	0.5	2.85	-	
	11T308PDR-MR																		11.3	6.594	3.6	0.8	2.85	-	

□ : Stock item

Alpha Mill

AMC(M)1000S/1500S

- AR : 9°~13°
- RR : -14°~5°

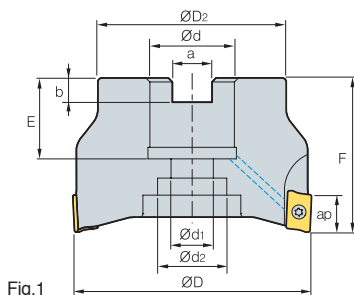


Fig.1

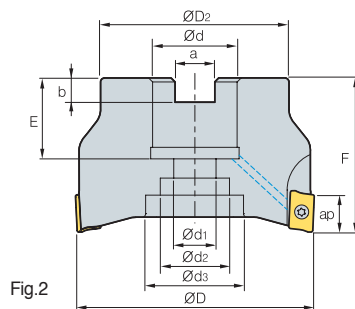


Fig.2

(mm)

Designation			ØD	ØD ₂	ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap		Fig.
AMC(M)	1032HS	8	32	30	16	9	14	-	8.4	5.6	19	40	5.6	0.15	1
	1040HS-16	10	40	34	16	9	14	-	8.4	5.6	19	40	5.6	0.24	1
	1040HS-22	10	40	34	22	11	18	-	10.4	6.3	21	40	5.6	0.24	1
	1050HS	12	50	42	22	11	18	-	10.4	6.3	21	40	5.6	0.36	1
	1063HS	14	63	49	22	11	18	-	10.4	6.3	21	40	5.6	0.61	1
AMCM	15040HS	5	40	34	16	9	14	-	8.4	5.6	19	40	9	0.22	2
	15050HS	6	50	42	22	11	18	-	10.4	6.3	21	40	9	0.34	2
	15063HS	8	63	49	22	11	18	-	10.4	6.3	21	40	9	0.57	2
AMC (AMCM)	15080HS	10	80	57	25.4(27)	14	25	35	9.5(12.4)	6(7)	24(23)	50	9	1.10	2
	15100HS	12	100	67	31.75(32)	18	26	42	12.7(14.4)	8(8)	32(26)	63	9	2.10	2

• ()Metric size

Available inserts

APMT-MA

APMT-ML

APMT-MM



Type	Designation	Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
1000 type	APMT 0602PDR-MA																	
	060202PDSR-MM			•	•	•	•	•										
	0602PDSR-MM			•	•	•	•	•	•	•								
	060208PDSR-MM			•	•	•	•	•										
	060212R-MM			•	•	•												
1500 type	APMT 0903PDR-MA																	
	0903PDR-ML						•											
	0903PDSR-MM			•	•	•	•	•										
	090308PDSR-MM			•	•	•	•	•										
	090312R-MM					•	•	•										
	090316R-MM					•	•											
	090320R-MM					•	•											

Available arbors

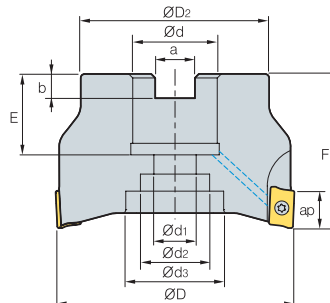
Type	Designation		Ød	NC arbors	Type	Designation		Ød	NC arbors
1000 type	AMC(M)	1032HS	16	BT □□-FMC16-□□	1500 type	AMC(M)	15040HS	16	BT □□-FMC16-□□
		1040HS-16					15050HS	22	BT □□-FMC22-□□
		1040HS-22	22	BT □□-FMC22-□□			15063HS	25.4	BT □□-FMA25.4-□□
		1050HS					15080HS	27	BT □□-FMC27-□□
		1063HS					15100HS	31.75	BT □□-FMA31.75-□□
						32	BT □□-FMC32-□□		

Parts

Type	Screw	Wrench	Type	Screw	Wrench
1000 type	FTKA01842	TW06S-A	1500 type	FTKA02565S	TW08S

AMC(M)2000S

- AR : 9°~13°
- RR : -14°~5°



Designation			ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	
AMCM	2040HS	5	40	34	16	9	14	-	8.4	5.6	18	40	11	0.22
	2050HS	6	50	42	22	11	18	-	10.4	6.3	20	40	11	0.34
	2063HS	8	63	49	22	11	18	-	10.4	6.3	20	40	11	0.57
AMC (AMCM)	2080HS	8	80	57	25.4(27)	14	25	35	9.5(12.4)	6(7)	25(22)	50	11	1.10
	2100HS	10	100	67	31.75(32)	18	26	42	12.7(14.4)	8(8)	32(28)	63	11	2.10

(mm)

• () Metric size

Available inserts

APMT-MA		APMT-ML		APMT-MM		APMT-MF												
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	11T3PDFR-MA						●											
	11T3PDER-ML						●											
	11T3PDSR-MM	●		●	●	●	●	●	●									
	11T3PDSR-MF	●		●	●	●	●	●	●									
	11T308PDSR-MM	●		●	●	●	●	●	●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●												
	11T318R-MM																	
	11T324R-MM			●	●	●		●										

Available arbors

Designation		Ød	NC arbors
AMC(M)	2040HS	16	BT□□-FMC16-□□
	2050HS	22	BT□□-FMC22-□□
	2063HS		
2080HS		25.4	BT□□-FMA25.4-□□
		27	BT□□-FMC27-□□
2100HS		31.75	BT□□-FMA31.75-□□
		32	BT□□-FMC32-□□

Parts



FTKA02565S

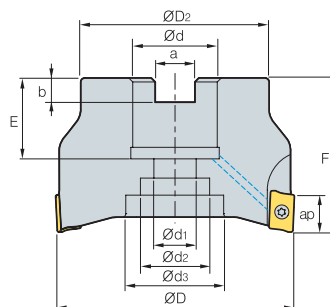
TW08S

Alpha Mill



AMC(M)3000S

- AR : 14°
- RR : -12°~8°



(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
AMCM	3040HS	4	40	34	16	9	14	-	8.4	5.6	18	40	16	0.18
	3050HS	5	50	42	22	11	18	-	10.4	6.3	20	40	16	0.28
	3063HS	6	63	49	22	11	18	-	10.4	6.3	20	40	16	0.50
AMC (AMCM)	3080HS	7	80	57	25.4(27)	14	25	35	9.5(12.4)	6(7)	25(22)	50	16	1.02
	3100HS	8	100	67	31.75(32)	18	26	42	12.7(14.4)	8(8)	32(28)	63	16	2.05

• () Metric size

Available inserts

APMT-MA		APMT-ML		APMT-MM		APMT-MF												
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	1604PDR-MA						●											
	1604PDER-ML						●											
	1604PDSR-MM	●		●	●	●	●	●	●									
	1604PDSR-MF	●		●	●	●	●		●									
	160410PDSR-MM	●		●	●	●	●	●										
	160416PDSR-MM	●		●	●	●	●	●										
	160424R-MM			●	●	●	●	●										
	160430R-MM						●											
	160432R-MM	●		●	●	●	●	●										

Available arbors

Designation	Ød	NC arbors
AMC(M) 3040HS	16	BT□□-FMC16-□□
3050HS	22	BT□□-FMC22-□□
3063HS		
3080HS	25.4	BT□□-FMA25.4-□□
	27	BT□□-FMC27-□□
3100HS	31.75	BT□□-FMA31.75-□□
	32	BT□□-FMC32-□□

Parts



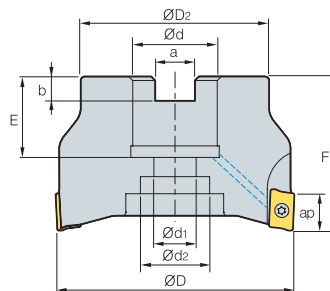
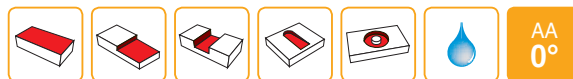
FTKA0410



TW15S

AMC(M)3000S-K

- AR : 14°
- RR : -12°~8°



Designation			ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	
AMCM	3040HS-K	4	40	34	16	9	14	8.4	5.6	18	40	16	0.15
	3050HS-K	5	50	42	22	11	18	10.4	6.3	20	40	16	0.24
	3063HS-K	6	63	49	22	11	18	10.4	6.3	20	40	16	0.24
AMC (AMCM)	3080HS-K	7	80	57	25.4(27)	14	20	9.5(12.4)	6(7)	25(22)	50	16	0.36
	3100HS-K	8	100	67	31.75(32)	18	26	12.7(14.4)	8(8)	32(28)	63	16	0.61

(mm)

• () Metric size

Available inserts

APFT-X22	APFT-X28	APKT	APKT-MF	APKT-MM	APKT-MM1	APKT-MA	APKT-MA2	APKT-MA3	APKT-X22	APKT-X23	APKT-X24

Designation	Coated										Designation	Coated									
	NCM325	NCM335	NC5330	PC5300	PC3545	PC3530	PC6510	PC215K	PD2000	CN2000		NCM325	NCM335	NC5330	PC5300	PC3545	PC3530	PC6510	PC215K	PD2000	CN2000
APFT 1604PDSR-X22				●																	
1604PDTR-X22																					
1604PDR-X28																					
1604PDSR-X28																					
1604PDTR-X28																					
APKT 1604PDSR	●		●																		
1604PDSR-MF	●			●																	
1604PDSR-MM	●	●	●	●	●	●	●														
160432R-MM1	●																				
1604PDR-MA											●										
APKT 1604PDR-MA2																					
160416FR-MA2																					
160432FR-MA2																					
1604PDR-MA3																					
1604PDSR-X22												●									
1604PDTR-X22																					
1604PDR-X23																					
1604PDTR-X23																					
1604PDR-X24																					
1604PDTR-X24																					

Available arbors

Designation		Ød	NC arbors
AMC(M)	3040HS-K	16	BT□□-FMC16-□□
	3050HS-K	22	BT□□-FMC22-□□
	3063HS-K	22	BT□□-FMC22-□□
	3080HS-K	25.4	BT□□-FMA25.4-□□
		27	BT□□-FMC27-□□
	3100HS-K	31.75	BT□□-FMA31.75-□□
		32	BT□□-FMC32-□□

Parts



FTKA0410



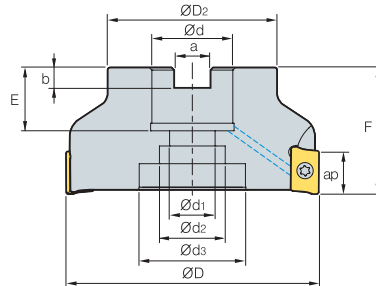
TW15S

Alpha Mill



AMC(M)4000S

- AR : 13°~15°
- RR : -12°~7°

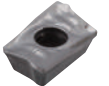


(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	ap	
AMCM	4050HS	5	50	42	22	11	18	-	10.4	6.3	21	40	17	0.28
	4063HS	6	63	49	22	11	18	-	10.4	6.3	21	40	17	0.50
AMC (AMCM)	4080HS	7	80	57	25.4(27)	14	25	35	9.5(12.4)	6(7)	24(23)	50	17	1.00
	4100HS	8	100	67	31.75(32)	18	26	42	12.7(14.4)	8(8)	32(25)	63(50)	17	2.10
	4125HS	9	125	87	38.1(40)	22	32	52	15.9(16.4)	10(9)	35(29)	63	17	3.30
	4160S	10	160	107	50.8(40)	-	-	100	19(16.4)	11(9)	38(32)	63	17	3.6
	4200S	10	200	108	47.625(60)	-	-	132	25.4(25.7)	14(14)	40(38)	63	17	6

• () Metric size

Available inserts

APMT-MA		APMT-ML				APMT-MM				APMT-MF								
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	1806PDFR-MA																	
	1806PDER-ML						●											
	1806PDSR-MM	●		●	●	●	●	●	●	●								
	1806PDSR-MF			●		●	●	●										
	180612PDSR-MM	●		●	●	●	●	●										
	180616PDSR-MM			●			●	●										
	180620PDSR-MM																	
	180624PDSR-MM			●	●		●											
	180630R-MM																	
	180632R-MM			●	●		●	●										

Available arbors

Designation	Ød	NC arbors	Designation	Ød	NC arbors
AMC(M) 4050HS	22	BT□□-FMC22-□□	AMC(M) 4125HS	38.1	BT□□-FMA38.1-□□
4063HS				40	BT□□-FMC40-□□
4080HS	25.4	BT□□-FMA25.4-□□	4160S	50.8	BT□□-FMA50.8-□□
	27	BT□□-FMC27-□□		40	BT□□-FMC40-□□
4100HS	31.75	BT□□-FMA31.75-□□	4200S	47.625	BT□□-FMA47.625-□□
	32	BT□□-FMC32-□□		60	BT□□-FMB60-□□

Parts



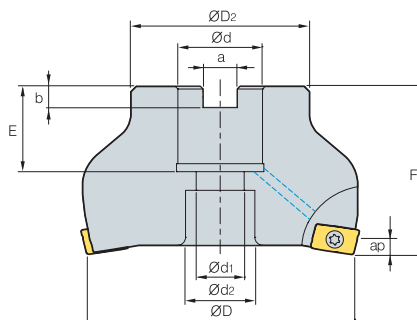
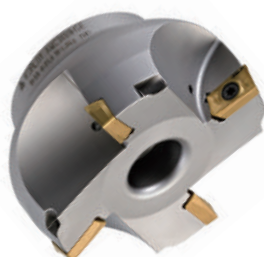
FTKA0410



TW15S

AMC(M)1000SE/2000SE

- AR : 45°
- RR : 0°



Designation			ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	
AMCM	1040HSE	4	40	34	16	9	14	8.4	5.6	19	40	2.5	0.26
	1050HSE	5	50	42	22	11	18	10.4	6.3	21	40	2.5	0.39
AMC (AMCM)	2080HSE	5	80	57	25.4(27)	14	20	9.5(12.4)	6.0(7.0)	25(22)	50	4	1.2
	2100HSE	6	100	67	31.75(32)	18	26	12.7(14.4)	8.0(8.0)	32(28)	63	4	2.33

(mm)

• () Metric size

Available inserts

		APMT-MM 										APMT-MF 							
Type	Designation	Coated										Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
1000 type	APMT 060202PDSR-MM			●	●	●	●	●											
	0602PDSR-MM			●	●	●	●	●	●										
	060208PDSR-MM			●	●	●	●	●		●									
	060212R-MM			●	●	●													
2000 type	APMT 11T3PDSR-MM	●		●	●	●	●	●	●	●									
	11T3PDSR-MF	●		●	●	●	●	●											
	11T308PDSR-MM	●		●	●	●	●	●	●										
	11T312PDSR-MM	●		●	●	●	●	●	●										
	11T316R-MM	●		●	●	●													
	11T318R-MM																		
	11T324R-MM			●	●	●		●											

Available arbors

Type	Designation	Ød	NC arbors
1000 type	AMC(M) 1040HSE	16	BT□□-FMC16-□□
	1050HSE	22	BT□□-FMC22-□□
2000 type	AMC(M) 2080HSE	25.4	BT□□-FMA25.4-□□
		27	BT□□-FMC27-□□
	2100HSE	31.75	BT□□-FMA31.75-□□
		32	BT□□-FMC32-□□

Parts

Type			
1000 type	FTKA01842	-	TW06S-A
2000 type	FTKA02565S	TW08S	-

Alpha Mill

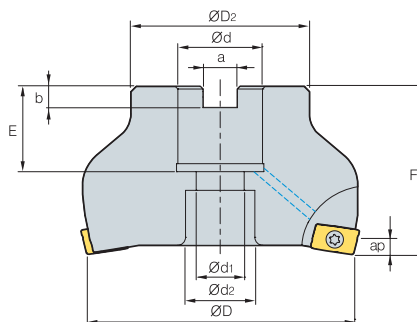
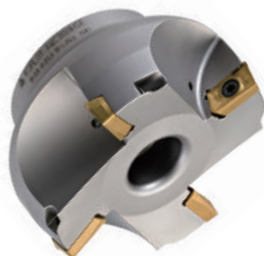


AMC(M)3000SE

- AR : 45°
- RR : 0°



AA
15°



(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	ap	
AMC(M)	3080HSE	4	80	57	25.4(27)	14	20	9.5(12.4)	6.0(7.0)	25(22)	50	6	1.3
	3100HSE	5	100	67	31.75(32)	18	26	12.7(14.4)	8.0(8.0)	32(28)	63	6	2.3

• () Metric size

Available inserts

APMT-MM



APMT-MF



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 1604PDSR-MM	●		●	●	●	●	●	●	●								
1604PDSR-MF	●		●	●	●	●	●	●	●								
160410PDSR-MM	●				●	●	●										
160416PDSR-MM	●		●	●	●	●	●										
160424R-MM			●	●	●	●	●										
160430R-MM						●											
160432R-MM	●		●	●	●	●	●										

Available arbors

Designation	Ød	NC arbors
AMC(M) 3080HSE	25.4	BT□□-FMA25.4-□□
	27	BT□□-FMC27-□□
3100HSE	31.75	BT□□-FMA31.75-□□
	32	BT□□-FMC32-□□

Parts

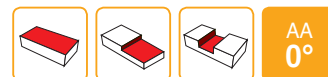
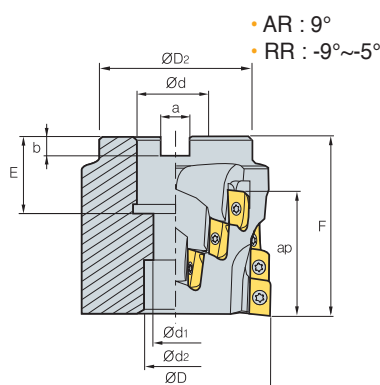


FTKA0410



TW08S

AMC(M)2000M



Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	No. of flute	ap	
AMC(M)	2050M	16	50	40	22.225(22)	11	18	8(10.4)	5(6.3)	29(21)	58	4	39	0.7
	2063M	16	63	50	25.4(27)	13.5	20	9.5(12.4)	6(7)	25(25)	58	4	39	0.8
	2080M	20	80	60	31.75(32)	-	45	12.7(14.4)	8(8)	35(28)	63	5	39	0.96
	2100M	24	100	80	38.1(40)	-	56	15.9(16.4)	10(9)	38(30)	63	6	39	1.2

(mm)

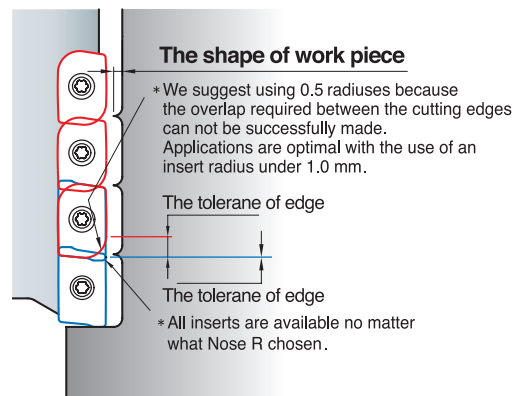
Available inserts

APMT-MA		APMT-ML				APMT-MM						APMT-MF							
																			
Designation		Coated										Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
APMT	11T3PDR-MA																		
	11T3PDER-ML						●												
	11T3PDSR-MM	●		●	●	●	●	●	●	●									
	11T3PDSR-MF	●		●	●	●	●	●											
	11T308PDSR-MM	●		●	●	●	●	●	●										
	11T312PDSR-MM	●		●	●	●	●	●	●										
	11T316R-MM	●		●	●	●													
	11T318R-MM																		
	11T324R-MM			●	●	●		●											

Available arbors

Designation	Ød	NC arbors	
AMC(M) 2050M	22.225	BT□□-FMA22.225-□□	BT□□-SMA22.225-□□
	22	BT□□-FMC22-□□	BT□□-SMC22-□□
2063M	25.4	BT□□-FMA25.4-□□	BT□□-SMA25.4-□□
	27	BT□□-FMC27-□□	BT□□-SMC27-□□
2080M	31.75	BT□□-FMA31.75-□□	BT□□-SMA31.75-□□
	32	BT□□-FMC32-□□	BT□□-SMC32-□□
2100M	38.1	BT□□-FMA38.1-□□	BT□□-SMA38.1-□□
	40	BT□□-FMC40-□□	BT□□-SMC40-□□

Caution when insert are screwed



Parts



FTKA02565S



TW08S

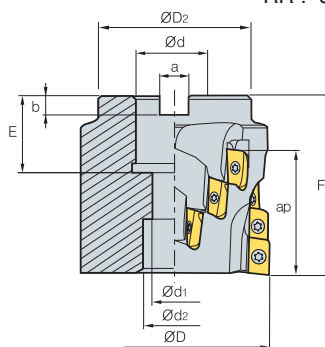
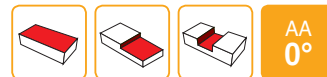
Alpha Mill



AMC(M)3000M



- AR : 9°
- RR : -9°~5°



(mm)

Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	a	b	E	F	No. of flute	ap	
AMC(M)	3063M	16	63	57	25.4(27)	14	20	9.5(12.4)	6(7)	38(38)	85	4	57	1.1
	3080M	20	80	67	31.75(32)	14	26	12.7(14.4)	8(8)	40(40)	100	4	71	2.23
	3100M	30	100	87	38.1(40)	22	32	15.9(16.4)	10(9)	40(40)	100	6	71	3.59

• () Metric size

Available inserts

APMT-MA		APMT-ML		APMT-MM		APMT-MF												
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	1604PDR-MA						●											
	1604PDR-ML						●											
	1604PDSR-MM	●		●	●	●	●	●	●									
	1604PDSR-MF	●		●	●	●	●											
	160410PDSR-MM	●			●	●	●	●										
	160416PDSR-MM	●		●	●	●	●	●										
	160424R-MM			●	●	●	●	●										
	160430R-MM						●											
	160432R-MM	●		●	●	●	●	●										

Available arbors

Designation	Ød	NC arbors	
AMC(M) 3063M	25.4	BT□□-FMA25.4-□□	BT□□-SMA25.4-□□
	27	BT□□-FMC27-□□	BT□□-SMC27-□□
3080M	31.75	BT□□-FMA31.75-□□	BT□□-SMA31.75-□□
	32	BT□□-FMC32-□□	BT□□-SMC32-□□
3100M	38.1	BT□□-FMA38.1-□□	BT□□-SMA38.1-□□
	40	BT□□-FMC40-□□	BT□□-SMC40-□□

Parts

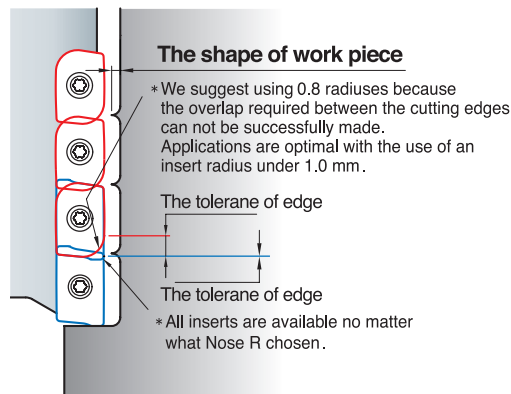


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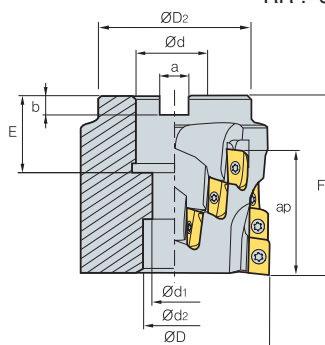


TW15S

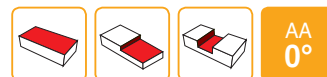
Caution when insert are screwed



AMC(M)4000M



- AR : 9°
- RR : -9°~5°

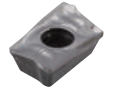
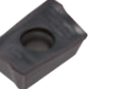


															ØD			(mm)
Designation			ØD	ØD ₂	Ød	Ød ₁	Ød ₂	Ød ₃	a	b	E	F	No. of flute	ap				
AMC(M)	4063M	16	63	57	25.4(27)	14	20	28	9.5(12.4)	6(7)	38(38)	85	4	61.1	1.1			
	4080M	20	80	67	31.75(32)	14	26	40	12.7(14.4)	8(8)	40(40)	100	4	76.1	2.23			
	4100M	30	100	87	38.1(40)	22	32	60	15.9(16.4)	10(9)	40(40)	100	6	76.1	3.59			
	4125M	18	125	87	38.1(40)	22	32	52	15.9(16.4)	10(9)	36(29)	68	6	46.1	4.0			

(mm)

• () Metric size

Available inserts

APMT-MA		APMT-ML		APMT-MM								APMT-MF							
																			
Designation		Coated										Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
APMT	1806PDR-MA																		
	1806PDR-ML						●												
	1806PDSR-MM	●		●	●	●	●	●	●	●									
	1806PDSR-MF			●		●	●	●		●									
	180612PDSR-MM	●		●	●	●	●	●											
	180616PDSR-MM			●			●	●											
	180620PDSR-MM																		
	180624PDSR-MM			●	●		●												
	180630R-MM																		
	180632R-MM			●	●		●	●											

Available arbors

Designation	Ød	NC Arbors	
AMC(M) 4063M	25.4	BT □ -FMA25.4- □	BT □ -SMA25.4- □
	27	BT □ -FMC27- □	BT □ -SMC27- □
4080M	31.75	BT □ -FMA31.75- □	BT □ -SMA31.75- □
	32	BT □ -FMC32- □	BT □ -SMC32- □
4100M	38.1	BT □ -FMA38.1- □	BT □ -SMA38.1- □
	40	BT □ -FMC40- □	BT □ -SMC40- □
4125M	38.1	BT □ -FMA38.1- □	BT □ -SMA38.1- □
	40	BT □ -FMC40- □	BT □ -SMC40- □

Parts

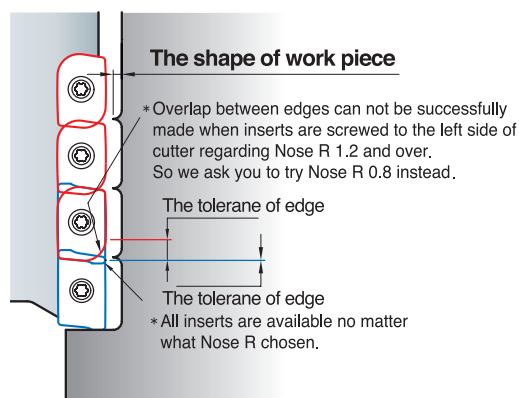


FTKA0410



TW15S

Caution when insert are screwed

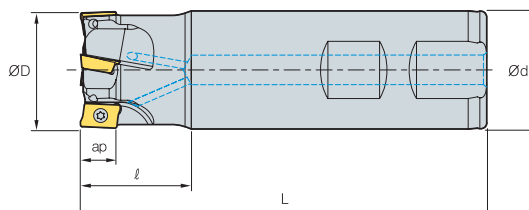


Alpha Mill



AMS1000S

- AR : 7.5°~13°
- RR : -17°~6°



(mm)

Designation			ØD	Ød	ℓ	L	ap	
AMS	1010HS	2	10	10	20	80	5.6	0.04
	1011HS	2	11	10	20	80	5.6	0.04
	1012HS-2	2	12	12	25	80	5.6	0.06
	1012HS-2L12	2	12	12	25	120	5.6	0.09
	1012HS-3	3	12	12	25	80	5.6	0.06
	1014HS-2	2	14	16	25	90	5.6	0.11
	1014HS-2L16	2	14	16	25	140	5.6	0.18
	1014HS-3	3	14	16	25	90	5.6	0.11
	1015HS	3	15	16	25	90	5.6	0.11
	1015HS-3L16	3	15	16	25	140	5.6	0.18
	1016HS-3	3	16	16	25	90	5.6	0.12
	1016HS-3L16	3	16	16	25	160	5.6	0.22
	1016HS-4	4	16	16	25	90	5.6	0.12
	1017HS	4	17	16	25	90	5.6	0.12
	1017HS-3L16	3	17	16	25	160	5.6	0.22
	1018HS	4	18	16	25	90	5.6	0.12
	1018HS-4L16	4	18	16	25	180	5.6	0.25
	1020HS-4	4	20	20	30	110	5.6	0.23
	1020HS-4L20	4	20	20	30	200	5.6	0.43
	1020HS-5	5	20	20	30	110	5.6	0.23
	1021HS	5	21	20	30	110	5.6	0.24
	1021HS-4L20	4	21	20	30	200	5.6	0.43
	1022HS	5	22	20	30	110	5.6	0.27
	1025HS	7	25	25	30	120	5.6	0.39
	1026HS	7	26	25	30	120	5.6	0.39
	1032HS	8	32	32	35	120	5.6	0.65
	1033HS	8	33	32	35	120	5.6	0.65

Available inserts

APMT-MA

APMT-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 0602PDFR-MA																	
060202PDSR-MM			●	●	●	●	●										
0602PDSR-MM			●	●	●	●	●	●	●								
060208PDSR-MM			●	●	●	●	●										
060212R-MM			●	●	●		●										
060216R-MM				●													

Parts



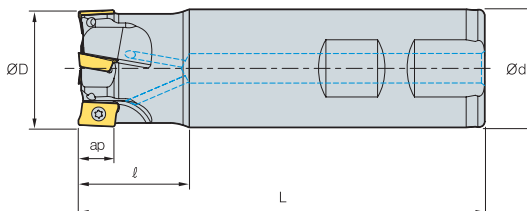
FTKA01842



TW06S-A

AMS1500S

- AR : 7.5°~12.5°
- RR : -28°~14°



(mm)

Designation			ØD	Ød	ℓ	L	ap	
AMS	15010HS	1	10	10	25	80	9	0.04
	15010HS-1L16	1	10	16	30	160	9	0.21
	15012HS	1	12	16	25	80	9	0.10
	15012HS-1L16	1	12	16	30	160	9	0.21
	15013HS	1	13	16	25	80	9	0.10
	15014HS	1	14	16	25	80	9	0.10
	15014HS-1L16	1	14	16	30	160	9	0.21
	15016HS	2	16	16	30	90	9	0.11
	15016HS-2L16	2	16	16	30	160	9	0.21
	15017HS	2	17	16	30	90	9	0.12
	15017HS-2L16	2	17	16	30	160	9	0.21
	15018HS	2	18	16	30	90	9	0.14
	15018HS-2L16	2	18	16	30	160	9	0.21
	15019HS	2	19	16	30	90	9	0.16
	15020HS	2	20	20	30	90	9	0.18
	15020HS-2L20	2	20	20	30	160	9	0.34
	15020HS-3	3	20	20	30	90	9	0.18
	15021HS	2	21	20	30	90	9	0.20
	15021HS-2L20	2	21	20	30	160	9	0.34
	15021HS-3	3	21	20	30	90	9	0.2
	15022HS	3	22	20	30	110	9	0.23
	15022HS-3L20	3	22	20	30	180	9	0.38
	15024HS	3	24	20	30	110	9	0.30
	15024HS-4	4	24	20	30	110	9	0.3
	15025HS-3S20	3	25	20	30	110	9	0.35
	15025HS	3	25	25	30	110	9	0.35
	15025HS-3L25	3	25	25	30	180	9	0.59

Available inserts

		APMT-MA		APMT-ML				APMT-MM										
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	0903PDR-MA																	
	0903PDR-ML						●											
	0903PDSR-MM			●	●	●	●	●										
	090308PDSR-MM			●	●	●	●	●										
	090312R-MM					●	●	●										
	090316R-MM				●	●												
	090320R-MM				●	●												

Parts

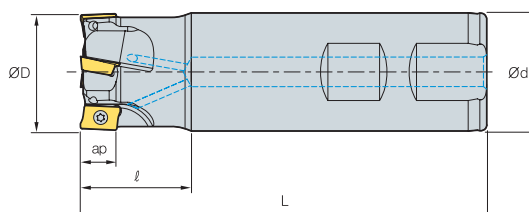
		
FTKA02555S	TW08S	Ø10~Ø14
FTKA02565S		Ø16~Ø100

Alpha Mill



AMS1500S

- AR : 7.5°~12.5°
- RR : -28°~14°



(mm)

Designation			ØD	Ød	ℓ	L	ap	
AMS	15025HS-4S20	4	25	20	30	110	9	0.25
	15025HS-4S25	4	25	25	30	110	9	0.25
	15028HS	4	28	25	30	110	9	0.36
	15028HS-4L25	4	28	25	30	180	9	0.61
	15028HS-5	5	28	25	30	110	9	0.36
	15030HS	4	30	25	30	110	9	0.38
	15030HS-4L25	4	30	25	30	180	9	0.62
	15030HS-5	5	30	25	30	110	9	0.38
	15032HS	4	32	32	30	110	9	0.60
	15032HS-4L32	4	32	32	30	180	9	1.00
	15032HS-5	5	32	32	30	110	9	0.6
	15035HS	5	35	32	30	110	9	0.70
	15035HS-6	6	35	32	30	110	9	0.7
	15040HS-S32	5	40	32	35	130	9	0.80
	15040HS-5L32	5	40	32	35	200	9	1.20
	15040HS-6S32	6	40	32	35	130	9	0.8
	15040HS-S40	5	40	40	35	130	9	1.13
	15040HS-6S40	6	40	40	35	130	9	1.13
	15040HS-S42	5	40	42	35	130	9	1.23
	15040HS-6S42	6	40	42	35	130	9	1.23

Available inserts

APMT-MA



APMT-ML



APMT-MM



Designation	Coated									Cermet			Uncoated				
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 0903PDR-MA																	
0903PDER-ML						●											
0903PDSR-MM			●	●	●	●	●										
090308PDSR-MM			●	●	●	●	●										
090312R-MM					●	●	●										
090316R-MM				●	●												
090320R-MM				●	●												

Parts



FTKA02565S

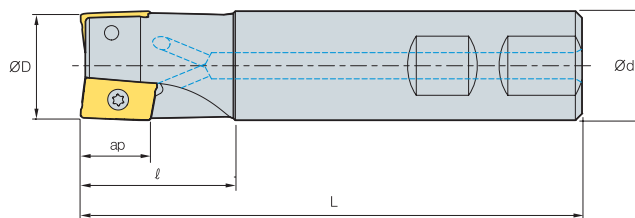
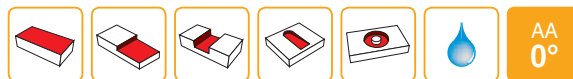


TW08S

AMS2000S



- AR : 3°~14°
- RR : -25°~18°



Designation			ØD	Ød	ℓ	L	ap	
AMS	2010HS	1	10	10	20	85	11	0.04
	2010HS-1L16	1	10	16	30	160	11	0.21
	2012HS	1	12	16	25	85	11	0.10
	2012HS-1L16	1	12	16	30	160	11	0.21
	2014HS	1	14	16	25	90	11	0.12
	2014HS-1L16	1	14	16	30	160	11	0.21
	2016HS	2	16	16	25	90	11	0.12
	2016HS-2L16	2	16	16	30	180	11	0.21
	2018HS	2	18	16	25	90	11	0.12
	2018HS-2L16	2	18	16	30	180	11	0.21
	2020HS	2	20	20	30	100	11	0.21
	2020HS-2L20	2	20	20	30	210	11	0.49
	2022HS	3	22	20	35	115	11	0.25
	2022HS-3L20	3	22	20	35	180	11	0.38
	2025HS	3	25	25	35	115	11	0.40
	2025HS-3L25	3	25	25	40	180	11	0.59
	2032HS	4	32	32	40	125	11	0.70
	2032HS-4L32	4	32	32	50	180	11	1.00
	2040HS	5	40	32	42	130	11	0.84
	2040HS-5L32	5	40	32	50	200	11	1.20
	2040HS-S40	5	40	40	42	130	11	1.15
	2040HS-S42	5	40	42	42	130	11	2.00
	2050HS	6	50	32	45	135	11	1.06
	2050HS-S40	6	50	40	45	135	11	1.38
	2050HS-S42	6	50	42	45	135	11	1.50
	2063HS	8	63	32	45	135	11	1.31
	2063HS-S40	8	63	40	45	135	11	1.62
	2063HS-S42	8	63	42	45	135	11	1.70

Available inserts

APMT-MA		APMT-ML				APMT-MF				APMT-MM								
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	11T3PDR-MA																	
	11T3PDER-ML						●											
	11T3PDSR-MM	●		●	●	●	●	●	●									
	11T3PDSR-MF	●		●	●	●	●	●		●								
	11T308PDSR-MM	●		●	●	●	●	●	●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●												
	11T318R-MM																	
	11T324R-MM			●	●	●		●										

Parts



FTKA0255S
FTKA0256S

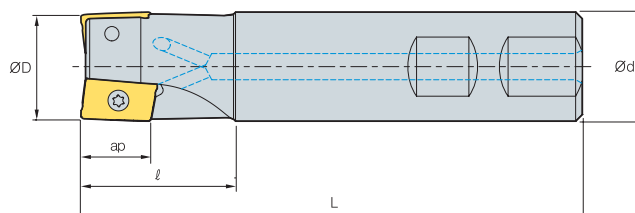
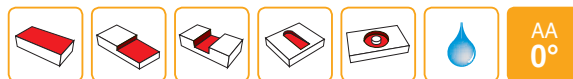
TW08S

Ø10~Ø14
Ø16~Ø100

Alpha Mill

AMS3000S

- AR : 3°~14°
- RR : -18°~10°



(mm)

Designation		ØD	Ød	l	L	ap	
AMS 3025HS	2	25	25	35	115	16	0.40
3025HS-2M25	2	25	25	35	180	16	0.65
3025HS-2L25	2	25	25	60	220	16	0.75
3032HS	3	32	32	40	125	16	0.69
3032HS-2M32	2	32	32	40	200	16	1.13
3032HS-2L32	2	32	32	65	260	16	1.52
3032HS-3M32	3	32	32	40	200	16	1.12
3032HS-3L32	3	32	32	65	260	16	1.48
3040HS	4	40	32	42	130	16	0.80
3040HS-3M32	3	40	32	42	200	16	1.24
3040HS-3L32	3	40	32	42	260	16	1.61
3040HS-4M32	4	40	32	42	200	16	1.21
3040HS-4L32	4	40	32	42	260	16	1.58
3040HS-S40	4	40	40	42	130	16	1.10
3040HS-S42	4	40	42	42	130	16	1.20
3050HS	5	50	32	45	135	16	1.00
3050HS-S40	5	50	40	45	135	16	1.30
3050HS-S42	5	50	42	45	135	16	1.40
3063HS	6	63	32	45	135	16	1.25
3063HS-S40	6	63	40	45	135	16	1.50
3063HS-S42	6	63	42	45	135	16	1.54

Available inserts

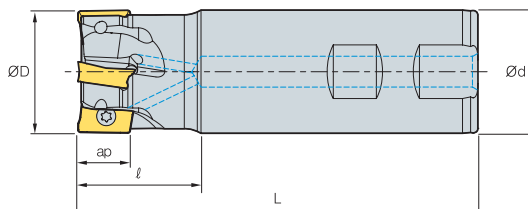
APMT-MA		APMT-ML		APMT-MF				APMT-MM										
																		
Designation		Coated									Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	1604PDR-MA						●											
	1604PDER-ML																	
	1604PDSR-MM	●		●	●	●	●	●	●									
	1604PDSR-MF	●		●	●	●	●	●										
	160410PDSR-MM	●				●	●	●										
	160416PDSR-MM	●		●	●	●	●	●										
	160424R-MM			●	●	●	●	●										
	160430R-MM					●	●											
	160432R-MM	●		●	●	●	●	●										

Parts

FTKA0408	TW15S	Ø25
FTKA0410		Ø32~Ø100

AMS3000S-K

- AR : 14°
- RR : -18°~10°



(mm)

Designation		ØD	Ød	ℓ	L	ap	kg
AMS	3025HS-K	2	25	25	35	115	0.4
	3032HS-K	3	32	32	40	125	0.69
	3040HS-K	4	40	32	42	130	0.8
	3040HS-K-S40	4	40	40	42	130	1.1
	3040HS-K-S42	4	40	42	42	130	1.2
	3050HS-K	5	50	32	45	135	1.0
	3050HS-K-S40	5	50	40	45	135	1.3
	3050HS-K-S42	5	50	42	45	135	1.4
	3063HS-K	6	63	32	45	135	1.25
	3063HS-K-S40	6	63	40	45	135	1.5
	3063HS-K-S42	6	63	42	45	135	1.54

Available inserts

APFT-X22	APFT-X28	APKT	APKT-MF	APKT-MM	APKT-MM1	APKT-MA	APKT-MA2	APKT-MA3	APKT-X22	APKT-X23	APKT-X24

Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC3545	PC9530	PC6510	PC215K	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APFT 1604PDSR-X22				●													
1604PDTR-X22																	
1604PDR-X28																	
1604PDSR-X28																	
1604PDTR-X28																	
APKT 1604PDSR	●			●					●								
1604PDSR-MF	●			●	●												
1604PDSR-MM	●	●		●	●	●	●	●									
160432R-MM1	●																
1604PDFR-MA														●			
1604PDFR-MA2																	
160416FR-MA2																	
160432FR-MA2																	
1604PDFR-MA3														●	●		
1604PDSR-X22	●																
1604PDTR-X22																	
1604PDR-X23																	
1604PDTR-X23																	
1604PDR-X24																	
1604PDTR-X24																	

Parts



FTKA0408
FTKA0410

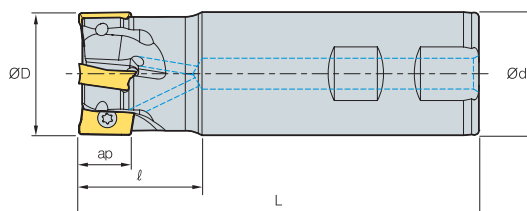
TW15S

Ø25
Ø32~Ø100

Alpha Mill

AMS4000S

- AR : 7°~13°
- RR : -20°~6°

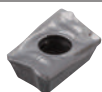


(mm)

Designation		ØD	Ød	l	L	ap	
AMS	4020HS	1	20	20	30	90	0.18
	4020HS-M	1	20	20	30	160	0.17
	4021HS	1	21	20	30	90	0.19
	4021HS-M	1	21	20	30	160	0.34
	4025HS	2	25	25	40	110	0.35
	4025HS-2M25	2	25	25	40	180	0.58
	4025HS-2L25	2	25	25	40	230	0.8
	4026HS	2	26	25	40	110	0.37
	4026HS-2M25	2	26	25	40	180	0.60
	4026HS-2L25	2	26	25	40	230	0.82
	4032HS	3	32	32	40	125	0.65
	4032HS-2M32	2	32	32	50	200	1.17
	4032HS-2L32	2	32	32	50	260	1.5
	4032HS-3M32	3	32	32	50	200	1.10
	4032HS-3L32	3	32	32	50	260	1.48
	4033HS	3	33	32	40	125	0.68
	4033HS-2M32	2	33	32	50	200	1.12
	4033HS-2L32	2	33	32	50	260	1.55
	4033HS-3M32	3	33	32	50	200	1.12
	4033HS-3L32	3	33	32	50	260	1.55

Available inserts

APMT-MA



APMT-ML



APMT-MM



APMT-MF



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 1806PDRF-MA																	
1806PDER-ML						●											
1806PDSR-MM	●		●	●	●	●	●	●	●								
1806PDSR-MF			●		●	●	●										
180612PDSR-MM	●		●	●	●	●	●										
180616PDSR-MM			●			●	●										
180620PDSR-MM						●											
180624PDSR-MM			●	●		●											
180630R-MM			●	●		●	●										
180632R-MM			●	●		●	●										

Parts



FTKA0408
FTKA0410



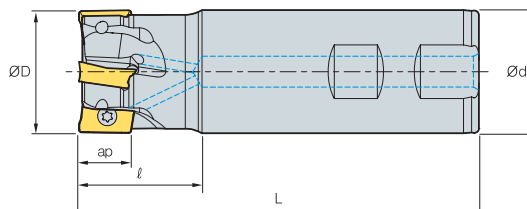
TW15S



Ø20~Ø25
Ø32~Ø100

AMS4000S

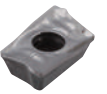
- AR : 7°~13°
- RR : -20°~6°



(mm)

Designation			ØD	Ød	ℓ	L	ap	
AMS	4040HS-3M32	3	40	32	50	200	17	1.20
	4040HS-3L32	3	40	32	50	260	17	1.60
	4040HS-4M32	4	40	32	50	200	17	1.20
	4040HS-4L32	4	40	32	50	260	17	1.60
	4040HS-S32	4	40	32	40	130	17	0.76
	4040HS-S40	4	40	40	40	130	17	1.10
	4040HS-S42	4	40	42	40	130	17	1.20
	4050HS-S32	5	50	32	40	135	17	0.95
	4050HS-S40	5	50	40	40	135	17	1.30
	4050HS-S42	5	50	42	40	135	17	1.40
	4063HS-S32	6	63	32	40	135	17	1.25
	4063HS-S40	6	63	40	40	135	17	1.60
	4063HS-S42	6	63	42	40	135	17	1.70

Available inserts

APMT-MA		APMT-ML		APMT-MM				APMT-MF										
																		
Designation		Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	1806PDR-MA						●											
	1806PDR-ML						●											
	1806PDSR-MM	●		●	●	●	●	●	●									
	1806PDSR-MF			●		●	●	●		●								
	180612PDSR-MM	●		●	●	●	●											
	180616PDSR-MM			●			●	●										
	180620PDSR-MM																	
	180624PDSR-MM			●	●		●											
	180630R-MM																	
	180632R-MM			●	●		●	●										

Parts



FTKA0410

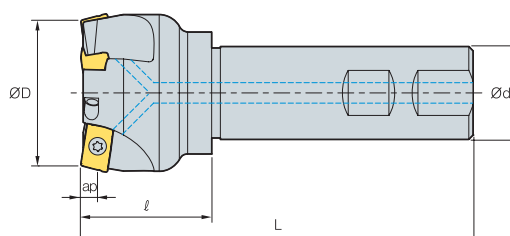
TW15S

Alpha Mill



AMS1000SE/2000SE

- AR : $-4.5^{\circ} \sim -1^{\circ}$
- RR : $-3^{\circ} \sim 0^{\circ}$



(mm)

	Designation		ØD	Ød	l	L	ap	
AMS	1025HSE	3	25	25	30	115	2.5	0.41
AMS	2025HSE	2	25	25	30	115	4	0.4
	2032HSE	3	32	32	40	125	4	0.72
	2040HSE	3	40	32	40	130	4	0.86
	2040HSE-S40	3	40	40	40	130	4	1.2
	2040HSE-S42	3	40	42	40	130	4	1.3
	2050HSE	4	50	32	40	135	4	0.98
	2050HSE-S40	4	50	40	40	135	4	1.3
	2050HSE-S42	4	50	42	40	135	4	1.4
	2063HSE	5	63	32	40	135	4	1.24
	2063HSE-S40	5	63	40	40	135	4	1.57
	2063HSE-S42	5	63	42	40	135	4	1.62

Available inserts

APMT-MF



APMT-MM



APXT-MR



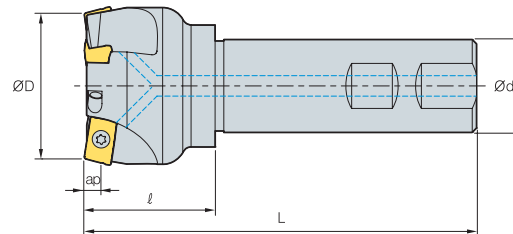
Type	Designation	Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
1000 type	APMT 060202PDSR-MM			●	●	●	●	●										
	0602PDSR-MM			●	●	●	●	●	●	●								
	060208PDSR-MM			●	●	●	●	●										
	060212R-MM			●	●	●												
	060216R-MM			●	●													
2000 type	APMT 11T3PDSR-MM	●		●	●	●	●	●	●	●								
	11T3PDSR-MF	●		●	●	●	●	●	●									
	11T308PDSR-MM	●		●	●	●	●	●	●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●		●										
	11T318R-MM			●	●	●												
	11T324R-MM			●	●	●		●										
	APXT 11T3PDSR-MR																	
	11T308PDR-MR																	
	11T3PDR-MA														●			
	11T318R-MA																	

Parts

Type			
1000 type	FTKA01842	-	TW06S-A
2000 type	FTKA02565S	TW08S	-

AMS3000SE

- AR : $-4.5^{\circ} \sim -1^{\circ}$
- RR : $-3^{\circ} \sim 0^{\circ}$



(mm)

Designation			ØD	Ød	l	L	ap	
AMS	3050HSE	3	50	32	45	135	6	1.0
	3050HSE-S40	3	50	40	45	135	6	1.3
	3050HSE-S42	3	50	42	45	135	6	1.4
	3063HSE	4	63	32	45	135	6	1.3
	3063HSE-S40	4	63	40	45	135	6	1.6
	3063HSE-S42	4	63	42	45	135	6	1.7

Available inserts

APMT-MF

APMT-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 1604PDSR-MM	●		●	●	●	●	●	●	●								
1604PDSR-MF	●		●	●	●	●	●										
160410PDSR-MM	●				●	●	●										
160416PDSR-MM	●		●	●	●	●	●										
160424R-MM			●	●	●	●	●										
160430R-MM						●											
160432R-MM	●		●	●	●	●	●										

Parts



FTKA0410

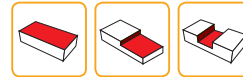


TW15S

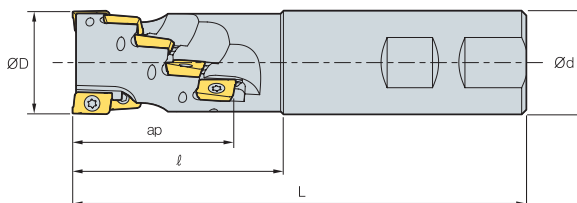
Alpha Mill

AMS1000M/1500M

- AR : 7°~9°
- RR : -13°~-10°



AA
0°



(mm)

	Designation		ØD	Ød	l	L	No. of flute	ap	kg
AMS	1016M	6	16	16	30	80	2	15.5	0.3
	1020M	12	20	20	32	85	3	20.5	0.3
	1025M	20	25	25	39	95	4	25.5	0.3
AMS	15020M	3	20	20	42	105	1	26.5	0.3
	15025M	8	25	25	50	110	2	35	0.3
	15032M	10	32	32	60	120	2	44	0.3

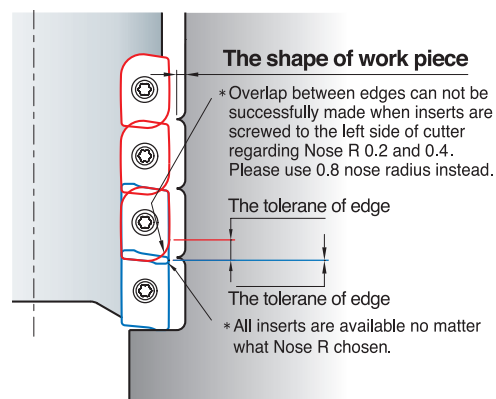
Available inserts

APMT-MA				APMT-ML				APMT-MM											
																			
Type	Designation	Coated										Cermet			Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
1000 type	APMT 0602PDR-MA																		
	060202PDSR-MM			●	●	●	●	●											
	0602PDSR-MM			●	●	●	●	●	●	●									
	060208PDSR-MM			●	●	●	●	●											
	060212R-MM			●	●	●													
	060216R-MM				●														
1500 type	APMT 0903PDR-MA																		
	0903PDR-ML						●												
	0903PDSR-MM			●	●	●	●	●											
	090308PDSR-MM			●	●	●	●	●											
	090312R-MM					●	●	●											
	090316R-MM				●	●													
	090320R-MM				●	●													

Parts

Type			
1000 type	FTKA01842	-	TW06S-A
1500 type	FTKA02565S	TW08S	-

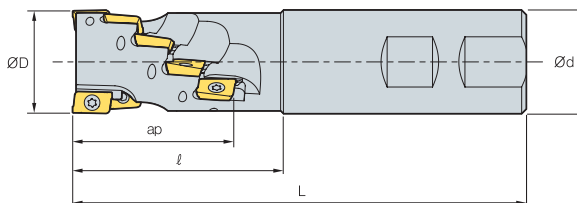
Caution when insert are screwed



AMS2000M/4000M



- AR : 7°~9°
- RR : -13°~10°



(mm)

	Designation		ØD	Ød	l	L	No. of flute	ap	
AMS	2020M	3	20	20	45	120	1	29.4	0.32
	2025M	8	25	25	55	130	2	38.9	0.40
	2032M	10	32	32	65	140	2	48.5	0.65
	2040M	14	40	40	75	150	2	58	0.75
AMS	4032M	4	32	32	60	130	2	31.6	0.65
	4040M	6	40	40	70	140	2	46	1.11
	4050M-S40	6	50	40	55	125	2	46	1.22
	4050M	8	50	40	70	140	2	61	1.37

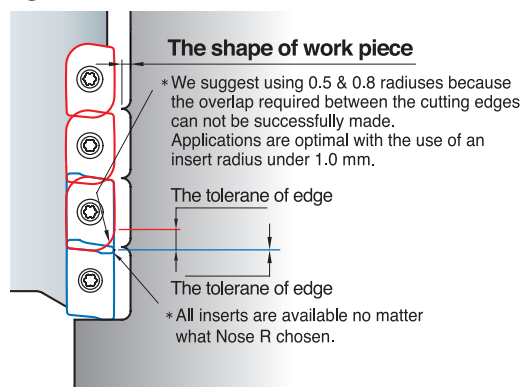
Available inserts

APMT-MA			APMT-ML			APMT-MF			APMT-MM									
																		
Type	Designation	Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
2000 type	APMT 11T3PDR-MA																	
	11T3PDR-ML						●											
	11T3PDSR-MM	●		●	●	●	●	●	●	●								
	11T3PDSR-MF	●		●	●	●	●	●										
	11T308PDSR-MM	●		●	●	●	●		●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●												
	11T318R-MM																	
	11T324R-MM			●	●	●		●										
4000 type	APMT 1806PDR-MA																	
	1806PDR-ML						●											
	1806PDSR-MM	●		●	●	●	●	●	●	●								
	1806PDSR-MF			●		●	●	●										
	180612PDSR-MM	●		●	●	●	●	●										
	180616PDSR-MM			●			●	●										
	180620PDSR-MM																	
	180624PDSR-MM			●	●		●											
	180630R-MM																	
	180632R-MM			●	●		●	●										

Parts

Type		
2000 type	FTKA0256S	TW08S
4000 type	FTKA0410	TW15S

Caution when insert are screwed



Alpha Mill

AMS1000MH/1500MH/2000MH/3000MH

- AR : 9°~12°
- RR : -12°~10°

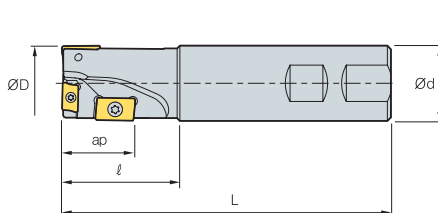


Fig. 1

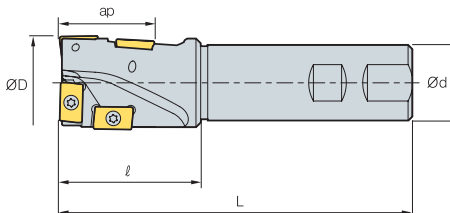


Fig. 2

(mm)

Designation		ØD	Ød	l	L	ap	kg	APMT 0602-	APMT 0903-	APMT 11T3 -	APMT 1604-	APKT 1604 -	Fig.
AMS	1014MH	3	14	12	30	120	0.16	3	-	-	-	-	1
	1016MH	3	16	14	30	140	0.20	3	-	-	-	-	1
	1018MH	3	18	16	30	140	0.21	3	-	-	-	-	1
AMS	15020MH	3	20	20	35	140	0.31	1	2	-	-	-	1
AMS	2025MH	3	25	25	40	130	0.45	-	-	3	-	-	1
	2032MH	3	32	32	50	140	0.75	-	-	1	2	-	1
AMS	3040MH-K	4	40	32	60	150	0.90	-	-	-	-	4	2

Available inserts

	APKT-MF	APKT-MM	APMT-MA	APMT-ML	APMT-MF	APMT-MM												
																		
Type	Designation	Coated										Cermet			Uncoated			
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
1000 type	APMT 0602PDFR-MA																	
	060202PDSR-MM			●	●	●	●	●										
	0602PDSR-MM			●	●	●	●	●	●	●								
	060208PDSR-MM			●	●	●	●	●										
1500 type	APMT 0903PDFR-MA																	
	0903PDER-ML						●											
	0903PDSR-MM			●	●	●	●	●										
	090308PDSR-MM			●	●	●	●	●										
2000 type	APMT 11T3PDFR-MA																	
	11T3PDER-ML						●											
	11T3PDSR-MM	●		●	●	●	●	●	●	●								
	11T3PDSR-MF	●		●	●	●	●	●										
	11T308PDSR-MM	●		●	●	●	●	●	●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●												
	11T318R-MM																	
3000 type	APMT 1604PDSR-MM	●		●	●	●	●	●	●	●								
	1604PDSR-MF	●		●	●	●	●	●										
3000-K type	APKT 1604PDSR-MM	●	●		●	●		●	●	●								
	1604PDSR-MF	●				●												

Parts

Type			
1000 type	FTKA01842	-	TW06S-A
1500 type	FTKA02565S	TW08S	-
2000 type	FTKA02565S	TW08S	-
3000 type	FTKA0410	TW15S	-

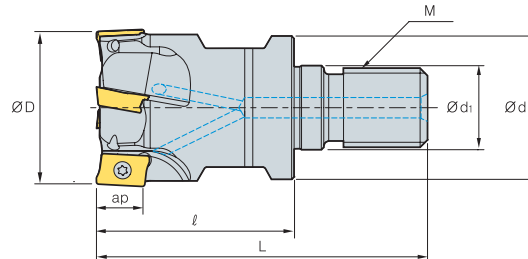
Recommended cutting condition

vc(m/min)	80~200	80~200	80~200
fz(mm/t)	0.03~0.06	0.05~0.25	0.05~0.20
• Please keep the drill depth under 0.25D when you're drilling.			
• Please keep the step depth from 0.2 to 0.3mm.			

AMM1000



- AR : 7.5°~12.5°
- RR : -28°~6°



(mm)

Designation			ØD	Ød	Ød ₁	ℓ	L	M	ap	
AMM	1012HR-M06	3	12	11	6.5	25	40	M06	5.6	0.02
	1016HR-M08	4	16	14.5	8.5	25	42	M08	5.6	0.03
	1020HR-M10	5	20	18	10.5	30	51	M10	5.6	0.07
	1025HR-M12	7	25	23	12.5	35	59	M12	5.6	0.12
	1032HR-M16	8	32	29	17	40	67	M16	5.6	0.23

Available inserts

APMT-MA



APMT-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 0602PDRF-MA																	
060202PDSR-MM			●	●	●	●	●										
0602PDSR-MM			●	●	●	●	●	●	●								
060208PDSR-MM			●	●	●	●	●										
060212R-MM			●	●	●												
060216R-MM				●													

Available adaptor

Designation	Available adaptor
AMM 1012HR-M06	MAT - M06
1016HR-M08	MAT - M08
1020HR-M10	MAT - M10
1025HR-M12	MAT - M12
1032HR-M16	MAT - M16

Designation : AMM1032HR-M16
Modular head threading measure size(M16)

II

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

Parts



FTKA01842



TW06S-A

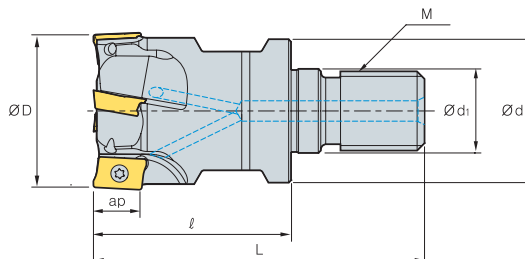
Alpha Mill



AMM1500



- AR : 7.5°~12.5°
- RR : -28°~6°



(mm)

Designation			ØD	Ød	Ød ₁	ℓ	L	M	ap	
AMM	15010HR-M06	1	10	9.5	6.5	25	40	M06	9	0.01
	15012HR-M06	1	12	11	6.5	25	40	M06	9	0.02
	15016HR-M08	2	16	14.5	8.5	25	42	M08	9	0.03
	15020HR-M10	2	20	18	10.5	30	51	M10	9	0.06
	15025HR-M12	3	25	23	12.5	35	59	M12	9	0.12
	15032HR-M16	4	32	29	17	40	67	M16	9	0.22

Available inserts

APMT-MA



APMT-ML



APMT-MM



Designation	Coated										Cermet			Uncoated			
	NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 0903PDR-MA																	
0903PDER-ML																	
0903PDSR-MM			●	●	●	●	●										
090308PDSR-MM			●	●	●	●	●										
090312R-MM					●	●	●										
090316R-MM				●	●	●	●										
090320R-MM				●	●	●	●										

Available adaptor

Designation	Available adaptor
AMM 15010HR-M06	MAT - M06
15012HR-M06	MAT - M06
15016HR-M08	MAT - M08
15020HR-M10	MAT - M10
15025HR-M12	MAT - M12
15032HR-M16	MAT - M16

Designation : AMM1032HR-M16
Modular head threading measure size(M16)

II

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

Parts



FTKA02555S
FTKA02565S



TW08S

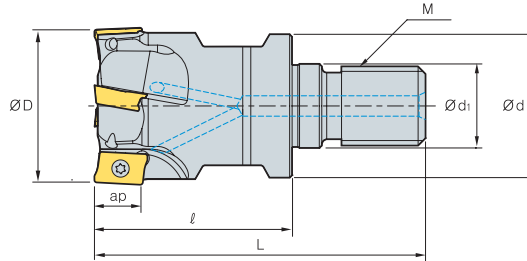


Ø10~Ø14
Ø16~Ø100

AMM2000



- AR : 7.5°~12.5°
- RR : -28°~6°



(mm)

Designation			ØD	Ød	Ød ₁	ℓ	L	M	ap	
AMM	2016HR-M08	2	16	14.5	8.5	25	42	M08	11	0.04
	2020HR-M10	2	20	18	10.5	30	51	M10	11	0.07
	2025HR-M12	3	25	23	12.5	35	59	M12	11	0.04
	2032HR-M16	4	32	29	17	40	67	M16	11	0.23
	2040HR-M16	5	40	29	17	40	67	M16	11	0.25

Available inserts

APMT-MA		APMT-ML		APMT-MM		APMT-MF		APXT-MA										
																		
Designation		Coated										Cermet		Uncoated				
		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT	11T3PDFR-MA																	
	11T3PDER-ML						●											
	11T3PDSR-MM	●		●	●	●	●	●	●	●								
	11T3PDSR-MF	●		●	●	●	●	●										
	11T308PDSR-MM	●		●	●	●	●	●	●									
	11T312PDSR-MM	●		●	●	●	●	●	●									
	11T316R-MM	●		●	●	●												
	11T318R-MM																	
	11T324R-MM			●	●	●		●										
APXT	11T3PDR-MA													●				

Available adaptor

Designation	Available adaptor
AMM 2016HR-M08	MAT - M08
2020HR-M10	MAT - M10
2025HR-M12	MAT - M12
2032HR-M16	MAT - M16
2040HR-M16	MAT - M16

Designation : AMM1032HR-M16
Modular head threading measure size(M16)

II

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

Parts



FTKA02565S

TW08S

Alpha Mill



MAT(Steel shank type)

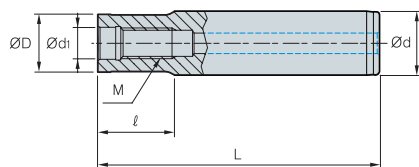


Fig. 1

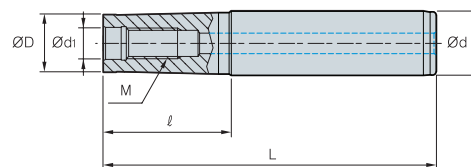


Fig. 2

(mm)

	Designation	ØD	Ød	Ød ₁	ℓ	L	M	Fig.
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

MAT-C(Carbide shank type)

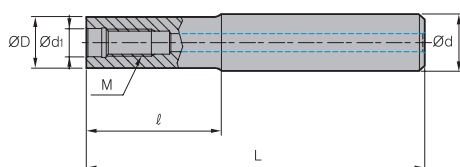


Fig. 1

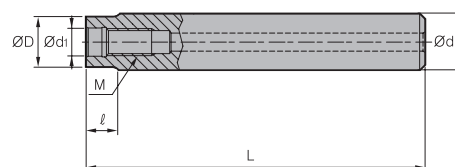


Fig. 2

(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

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