

# E Technical Information for Alpha Mill

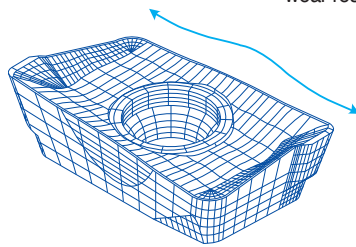
Various applications are available with multi-functional cutters

## Alpha Mill

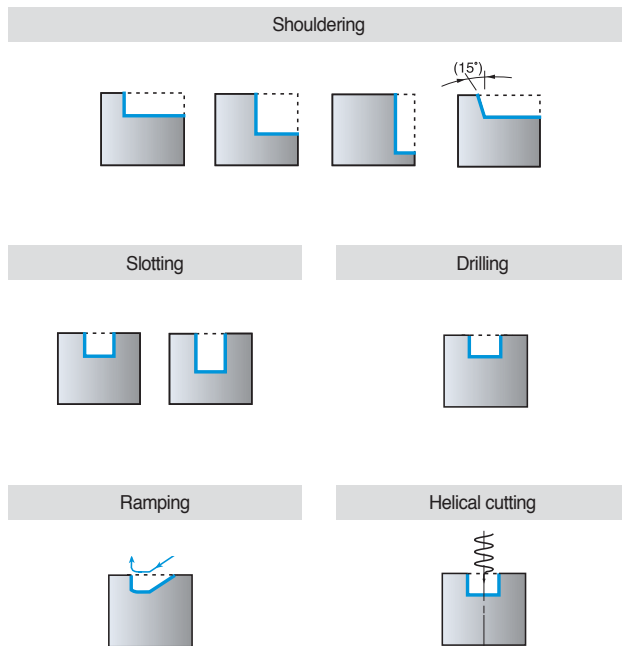
- Innovative curve cutting-edge and chip-breaker design ensures ideal 90-degree cutting, lower cutting resistance, and improved insert life.
- Various applications are available with multi-functional cutters. (Facing, Slotting, Square shoulder milling, etc.)
- Excellent performance ensured at large depth of cut operations due to strong cutting-edge and low cutting resistance.

### Features of insert





- Long tool life at high speed, high feed and deeper cutting by low cutting resistance and strong cutting-edge
- Distinguished features of Alpha-Curve reduce cutting resistance and improve cutting-edge strength and wear resistance
- Low cutting resistance is realized by KORLOY unique design-the alpha curve cutting-edge and optimal convex and concave design
- Highly efficient machining is available by the ideal application of the grade to material



### Application example



## Features of chip breakers





Type	Chip breaker	Cutting-edge	Features
Al	<b>MA</b>		• Optimal cutting-edge and buffed surface for aluminum workpieces ensure high performance in machining
Hard-to-cut material	<b>ML</b>		• Chip breaker with low cutting load is optimal for machining hard-to-cut materials
Light cutting	<b>MF</b>		• Chip breaker with low cutting load and harder cutting-edge than ML's are optimal for light cutting
General cutting	<b>MM</b>		• Optimal for milling in general ranges

## Product constitution

Item description	Type	Nose R	MA	ML	
APMT	1000 type	0.4	APMT0602PDRF-MA	-	
		0.8	APMT060208PDRF-MA	-	
	1500 type	0.4	APMT0903PDRF-MA	APMT0903PDER-ML	
		0.8	APMT090308PDRF-MA	APMT090308PDER-ML	
	2000 type	0.5	APMT11T3PDRF-MA	APMT11T3PDER-ML	
		0.8	APMT11T308PDRF-MA	APMT11T308PDER-ML	
	3000 type	0.4	APMT160404PDRF-MA	APMT160404PDER-ML	
		0.8	APMT1604PDRF-MA	APMT1604PDER-ML	
	4000 type	0.4	APMT180604PDRF-MA	APMT180604PDER-ML	
		0.8	APMT1806PDRF-MA	APMT1806PDER-ML	
		1.2	APMT180612PDRF-MA	APMT180612PDER-ML	
		1.6	APMT180616PDRF-MA	APMT180616PDER-ML	
		2.0	APMT180620PDRF-MA	APMT180620PDER-ML	
		2.4	APMT180624PDRF-MA	APMT180624PDER-ML	
			3.0	APMT180630R-MA	APMT180630R-ML

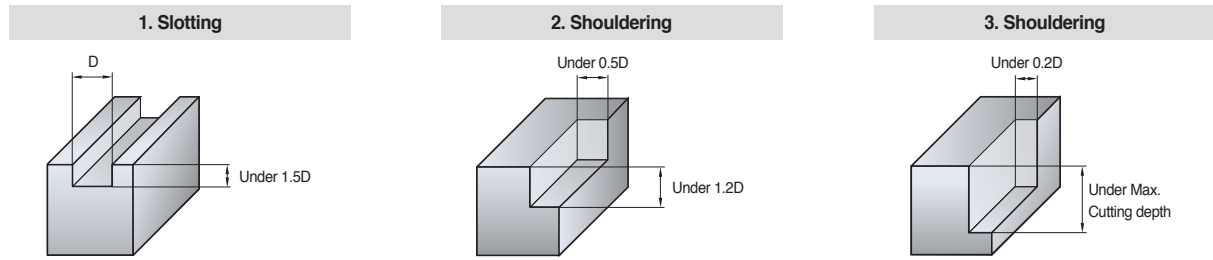
- The inserts can switch to the APMT type holders.

## 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		H	
		Low carbon steel/Mild steel		High carbon steel/Mild steel		Stainless steel		Cast iron		Aluminum alloy		Ti/Inconel		High hardness steel	
		C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades	C/B	Grades
<b>MA</b>		-	-	-	-	-	-	-	-	●	●H01	-	-	-	-
<b>ML</b>		-	-	-	-	●	●PC5300 ○PC5400 ○PC9530	-	-	-	-	-	●PC5300 ○PC5400	-	-
<b>MF</b>		●	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NC5340	-	○PC3500 ○NCM325 ○NC5340	-	●PC5300 ○PC5400 ○PC9530	●	●PC6510 ○PC5300 ○PC5400	-	-	-	●PC5300 ○PC5400	-	-
<b>MM</b>		-	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NC5340	●	●PC3500 ○PC5300 ○PC5400 ○NCM325 ○NC5340	-	●PC5300 ○PC5400 ○PC9530	-	●PC6510 ○PC5300 ○PC5400	-	-	-	●PC5300 ○PC5400	●	○PC2505 ●PC2510



## Recommended depth of cut



## Recommended cutting condition (for Multi-edge type)

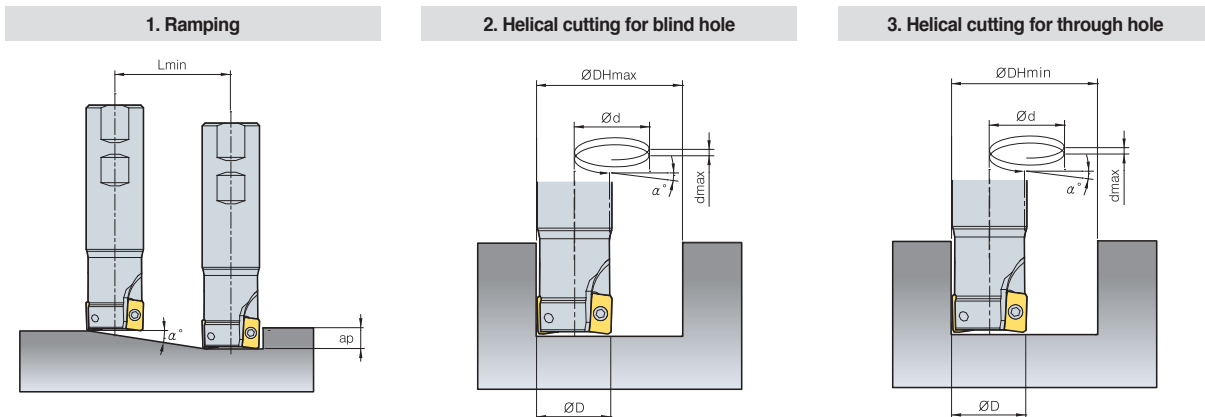
Workpiece	Grades	Fig.	Tool dia.									
			Ø10, 16		Ø20, 25		Ø32, 40		Ø50, 63		Ø80, 100	
			vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)	vc (m/min)	fz (mm/t)
Mild steel, Low carbon steel	NC5340 NCM325 PC5400 PC5300 PC3500 PC3600	①	50~80	0.05~0.08	80~100	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08	100~120	0.05~0.08
		②	65~90	0.08~0.1	100~120	0.08~0.1	120~140	0.08~0.1	120~140	0.08~0.1	120~140	0.08~0.1
		③	65~95	0.1~0.15	100~120	0.1~0.15	120~140	0.1~0.15	120~140	0.1~0.15	130~150	0.1~0.15
High carbon steel, Alloy steel	NC5340 NCM325 PC5300 PC3500 PC3600	①	45~60	0.05	60~80	0.05	80~100	0.05	80~100	0.05	80~100	0.05
		②	50~80	0.05~0.08	80~100	0.05~0.08	100~120	0.08~0.1	100~120	0.08~0.1	100~120	0.08~0.1
		③	50~80	0.1~0.15	80~100	0.1~0.15	110~130	0.1~0.15	100~120	0.1~0.15	110~130	0.1~0.15
Alloy tool steel	PC5300 PC3500 PC3600 PC2510 PC2505	①	40~55	0.05	50~70	0.05	70~90	0.05	70~90	0.05	70~90	0.05
		②	45~60	0.05~0.08	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	50~75	0.12~0.18	90~110	0.12~0.18	100~130	0.1~0.15	100~120	0.1~0.15	110~130	0.1~0.15
Stainless steel	PC5300 PC9530	①	35~50	0.054	50~70	0.054	70~90	0.05	70~90	0.05	70~90	0.05
		②	45~60	0.05~0.08	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	50~75	0.1~0.15	90~110	0.1~0.15	100~130	0.1~0.15	110~130	0.1~0.15	110~130	0.1~0.15
Cast iron	PC6510 PC5300	①	50~70	0.1~0.12	70~90	0.1~0.12	70~90	0.1~0.12	90~120	0.1~0.12	90~120	0.1~0.12
		②	50~80	0.12	80~100	0.12	90~120	0.12	100~140	0.12	100~140	0.1~0.12
		③	50~80	0.15~0.2	80~100	0.15~0.2	100~130	0.15~0.2	120~150	0.15~0.2	120~150	0.15~0.2
Aluminum alloy	H01	①	160~600	0.1~0.2	200~800	0.1~0.2	300~900	0.1~0.2	400~1,000	0.1~0.2	400~1,000	0.1~0.2
		②	200~650	0.15~0.3	250~900	0.15~0.3	300~950	0.15~0.3	400~1,000	0.1~0.4	400~1,000	0.1~0.4
		③	200~650	0.15~0.3	250~900	0.15~0.3	300~950	0.15~0.3	400~1,000	0.1~0.4	400~1,000	0.1~0.4
Hardened steel	PC5300 PC2510 PC2505	①	35~50	0.03	50~70	0.03	60~90	0.03	60~90	0.03	60~90	0.03
		②	45~60	0.05~0.08	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	50~80	0.05~0.08	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 cutting condition (for Single-edge type)

Workpiece	Grades	Fig.	Tool dia.									
			Ø10, 16		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)	vc (m/min)	fz (mm/t)
Mild steel, low carbon steel	NC5340 NCM325 PC5400 PC5300 PC3500 PC3600	①	45~60	0.05~0.08	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	60~90	0.08~0.1	80~120	0.08~0.1	120~180	0.08~0.1	180~250	0.08~0.1	200~250	0.08~0.1
		③	60~90	0.1~0.15	80~120	0.1~0.15	120~180	0.1~0.15	180~250	0.1~0.15	200~250	0.1~0.15
High carbon steel, alloy steel	NC5340 NCM325 PC5300 PC3500 PC3600	①	40~60	0.05	50~80	0.05	80~110	0.05	100~150	0.05	100~150	0.05
		②	50~80	0.05~0.08	80~100	0.05~0.08	110~150	0.05~0.1	150~200	0.05~0.1	150~200	0.05~0.1
		③	50~80	0.1~0.15	80~100	0.1~0.15	120~150	0.1~0.15	180~200	0.1~0.15	180~200	0.1~0.15
Alloy tool steel	PC5300 PC3500 PC3600 PC2510 PC2505	①	35~50	0.05	50~70	0.05	80~100	0.05	100~130	0.05	100~130	0.05
		②	45~70	0.05~0.08	70~100	0.05~0.08	100~130	0.05~0.1	130~180	0.05~0.1	130~180	0.05~0.1
		③	45~70	0.1~0.15	70~100	0.1~0.15	100~150	0.1~0.15	130~180	0.1~0.15	130~180	0.1~0.15
Stainless steel	PC5300 PC9530	①	35~50	0.05	50~70	0.05	80~100	0.05	100~130	0.05	100~130	0.05
		②	45~70	0.05~0.08	70~100	0.05~0.08	100~130	0.05~0.1	130~180	0.05~0.1	130~180	0.05~0.1
		③	45~70	0.1~0.15	70~100	0.1~0.15	100~150	0.1~0.15	130~180	0.1~0.15	130~180	0.1~0.15
Cast iron	PC6510 PC5300	①	50~80	0.08~0.12	80~100	0.08~0.12	80~100	0.15	120~150	0.15	120~150	0.15
		②	65~90	0.12~0.15	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	65~90	0.15~0.2	100~120	0.15~0.2	100~130	0.15~0.2	150~200	0.15~0.2	150~200	0.15~0.2
Aluminum alloy	H01	①	200~600	0.15~0.2	250~800	0.15~0.2	300~900	0.15~0.2	400~1,000	0.1~0.2	400~1,000	0.1~0.2
		②	200~650	0.2~0.25	250~900	0.2~0.25	350~950	0.2~0.25	400~1,000	0.2~0.3	400~1,000	0.2~0.3
		③	200~650	0.25~0.3	250~900	0.25~0.3	350~950	0.25~0.3	400~1,000	0.3~0.4	400~1,000	0.3~0.4
Hardened steel	PC5300 PC2510 PC2505	①	35~50	0.03	50~70	0.03	60~90	0.03	60~90	0.03	60~90	0.03
		②	45~65	0.05~0.08	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	50~80	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08	80~100	0.05~0.08



## Cutting condition for ramping and helical operation

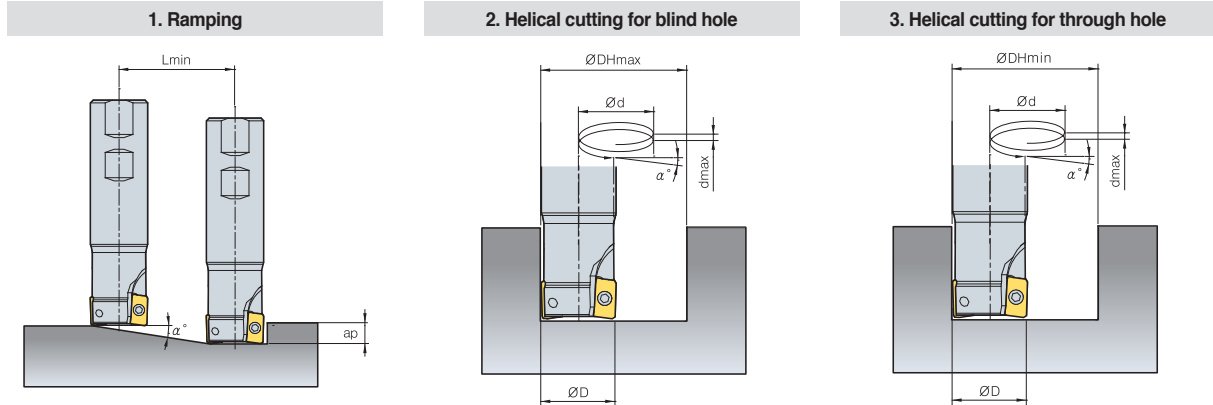


Designation	Tool dia. ØD (min)	ap	1. Ramping		2. Helical cutting for blind hole				3. Helical cutting for through hole	
			Maximum angle α (°)	Lmin (mm)	Max. desirable hole dia. ØDH Max (mm)	Max. pitch dmax (mm)	Min. desirable hole dia. ØDH Min (mm)	Max. pitch dmax (mm)	Min. desirable hole dia. ØDH Min (mm)	Max. pitch dmax (mm)
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
AMCM1032HS	32		1.4	201	62.8	1.6	61.6	1.5	57	1.4
AMCM1040HS	40		1.1	258	78.8	1.5	77.6	1.5	73	1.4
AMCM1050HS	50		0.9	330	98.8	1.5	97.6	1.5	93	1.4
AMCM1063HS	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
AMCM15040HS	40	1.5	342	78.8	2.1	77.4	2.0	71	1.9	
AMCM15050HS	50	1.2	442	98.8	2.0	97.4	2.0	91	1.9	
AMCM15063HS	63	0.9	572	124.8	2.0	123.4	1.9	117	1.8	
AMCM15080HS	80	0.7	742	158.8	1.9	157.4	1.9	151	1.8	
AMCM15100HS	100	0.5	942	198.8	1.9	197.4	1.9	191	1.8	

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



## ➤ Cutting condition for ramping and helical operation

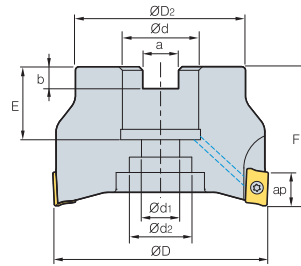
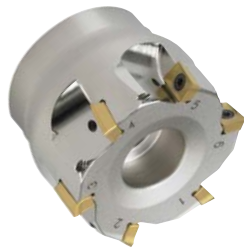


Designation	Tool dia. ØD (min)	ap	1. Ramping		2. Helical cutting for blind hole			3. Helical cutting for through hole			
			Maximum angle $\alpha$ (°)	Lmin (mm)	Max. desirable hole dia. ØDH Max (mm)	Max. pitch dmax (mm)	Min. desirable hole dia. ØDH Min (mm)	Max. pitch dmax (mm)	Min. desirable hole dia. ØDH Min (mm)	Max. pitch dmax (mm)	
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	
AMCM2040HS	40		1.29	445	78	2.6	76	2.5	71	2.1	
AMCM2050HS	50		0.36	1576	98	0.6	96	0.6	91	0.6	
AMCM2063HS	63		0.27	2104	124	0.6	122	0.6	117	0.6	
AMCM2080HS	80		0.21	2784	158	0.6	156	0.6	151	0.5	
AMCM2100HS	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	
AMCM3040HS	40	1.99		288	78	2.7	76	2.6	66	2.3	
AMCM3050HS	50	1.67		343	98	2.9	96	2.8	86	2.5	
AMCM3063HS	63	1.22		470	124	2.6	122	2.6	112	2.4	
AMCM3080HS	80	0.90		636	158	2.5	156	2.5	146	2.3	
AMCM3100HS	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		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	
AMCM4050HS	50		1.9	502	98.8	3.2	97.4	3.2	91	3.0	
AMCM4063HS	63		1.4	665	124.8	3.1	123.4	3.0	117	2.9	
AMCM4080HS	80		1.1	878	158.8	2.9	157.4	2.9	151	2.8	
AMCM4100HS	100		0.8	1128	198.8	2.9	197.4	2.9	191	2.8	
AMCM4125HS	125		0.6	1442	248.8	2.8	247.4	2.8	241	2.7	

$$Lmin = \frac{ap}{\tan \alpha} \text{ (mm)}$$



# AMC(M)1000S



AA 90°  
• AR: 9°~13°  
• RR: -14°~5°

(mm)

Designation		ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap		
AMCM	1032HS	8	32	30	16	9	14	8.4	5.6	19	40	5.6	0.15
	1040HS-16	10	40	34	16	9	14	8.4	5.6	19	40	5.6	0.24
	1040HS-22	10	40	34	22	11	18	10.4	6.3	21	40	5.6	0.24
	1050HS	12	50	42	22	11	18	10.4	6.3	21	40	5.6	0.36
	1063HS	14	63	49	22	11	18	10.4	6.3	21	40	5.6	0.61

## Available inserts

APMT-MA APMT-MM



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 0602PDFR-MA																●	E05
060208PDFR-MA																	
060202PDSR-MM				●					●				●	●			
0602PDSR-MM				●			●	●	●	●	●	●	●	●			
060208PDSR-MM				●					●	●			●	●			
060212R-MM				●						●			●	●			

## Available arbors

Designation	Ød	NC arbors
AMCM 1032HS	16	BT□□-FMC16-□□
1040HS-16		
1040HS-22		
1050HS	22	BT□□-FMC22-□□
1063HS		

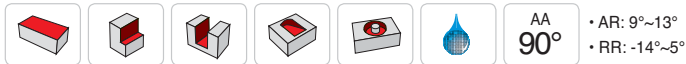
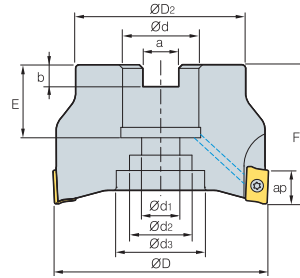
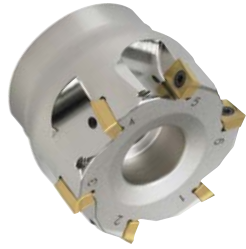
## Parts

Specification		
Ø32~Ø63	FTKA01842	TW06S-A

Available inserts E05 Available arbors and bolt E371~E373



## AMC(M)1500S



• AR: 9°~13°  
• RR: -14°~5°

(mm)

Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	a	b	E	F	ap		
AMCM	15040HS	5	40	34	16	9	-	8.4	5.6	19	40	9	0.22
	15050HS	6	50	42	22	11	-	10.4	6.3	21	40	9	0.34
	15063HS	8	63	49	22	11	-	10.4	6.3	21	40	9	0.57
AMC (AMCM)	15080HS	10	80	57	25.4 (27)	14	35	9.5 (12.4)	6 (7)	24 (23)	50	9	1.10
	15100HS	12	100	67	31.75 (32)	18	42	12.7 (14.4)	8 (8)	32 (26)	63	9	2.10

( )Metric size

### Available inserts

APMT-MA APMT-ML APMT-MM



Designation	Cermet		Coated											Uncoated		page
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3500	PC3530	PC3540	G10	H01		
APMT 0903PDFR-MA															●	E05
090308PDFR-MA																
0903PDER-ML																
090308PDER-ML																
0903PDSR-MM				●			●	●	●		●	●	●	●		
090308PDSR-MM				●				●	●		●	●	●	●		
090312R-MM									●		●	●	●	●		
090316R-MM				●					●	●		●	●	●		
090320R-MM									●	●		●	●	●		

### Available arbors

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

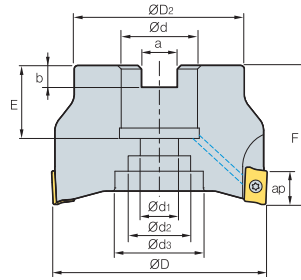
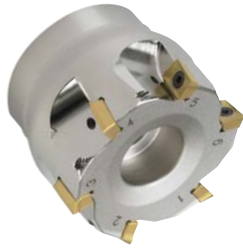
### Parts

Specification		
Ø40~Ø100	FTKA02565S	TW08S

Available inserts E05 Available arbors and bolt E371~E373



# AMC(M)2000S



AA 90°  
 • AR: 9°~13°  
 • RR: -14°~5°

(mm)

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

( ) Metric size

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDFR-MA																	●
11T308PDFR-MA																	
11T3PDER-ML													●	●			
11T308PDER-ML													●	●			
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●			
11T3PDSR-MF				●				●	●	●	●	●	●	●			
11T308PDSR-MM				●				●	●	●	●	●	●	●			
11T312PDSR-MM				●				●	●	●	●	●	●	●			
11T316R-MM				●				●	●			●	●				
11T318R-MM				●				●	●			●	●				
11T324R-MM				●				●	●			●	●				

E05

## Available arbors

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

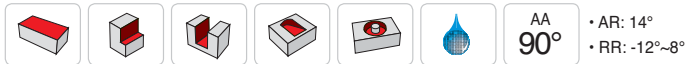
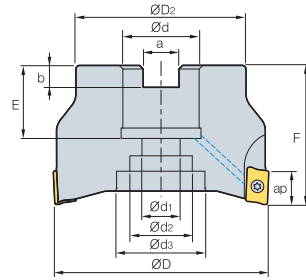
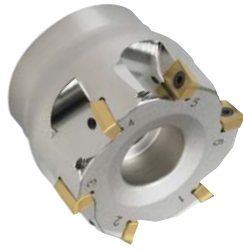
## Parts

Specification		
Ø40~Ø100	FTKA02565S	TW08S

Available inserts E05 Available arbors and bolt E371~E373



## AMC(M)3000S



AA 90°  
• AR: 14°  
• RR: -12°~8°

(mm)

Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	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

• It is recommended to use an exclusive holder with the "New" sticker for APMT inserts.

( ) Metric size

### Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDFR-MA																	E05
160404PDFR-MA																	
1604PDER-ML																	
160404PDER-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	25.4	BT□□-FMA25.4-□□
3080HS	27	BT□□-FMC27-□□
	31.75	BT□□-FMA31.75-□□
3100HS	32	BT□□-FMC32-□□

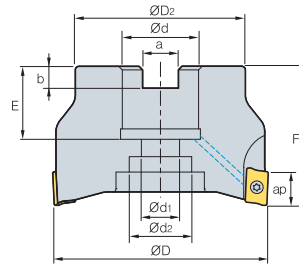
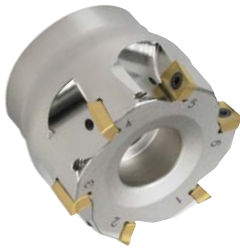
### Parts

Specification	Screw	Wrench
Ø40~Ø100	FTKA0410	TW15S

Available inserts E05 Available arbors and bolt E371~E373



# AMC(M)3000S-K



AA 90°  
• AR: 14°  
• RR: -12°~8°

(mm)

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	3080HS-K	7	80	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	25 (22)	50	16	0.36
(AMCM)	3100HS-K	8	100	67	31.75 (32)	18	26	12.7 (14.4)	8 (8)	32 (28)	63	16	0.61

• It is recommended to use an exclusive holder with the "New" sticker for APMT inserts.

( ) Metric size

## Available inserts

	APKT	APKT-MF	APKT-MM	APKT-MM1	APKT-MA	APKT-MA2	APKT-MA3										
Designation	Cermet		Coated								Uncoated		page				
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510		PC5300	PC5400	G10	H01
APKT	1604PDSR		●						●								E04
	1604PDSR-MF		●														
	1604PDSR-MM		●	●					●	●	●	●					
	160432R-MM1																
	1604PDFR-MA												●				
	1604PDFR-MA2														●		
	160416FR-MA2															●	
	160432FR-MA2																
	1604PDFR-MA3													●	●		

## Available arbors

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

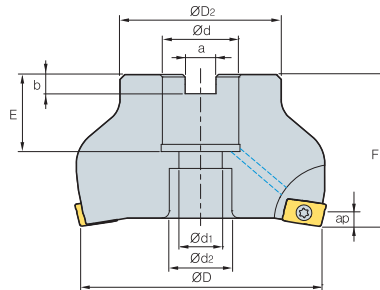
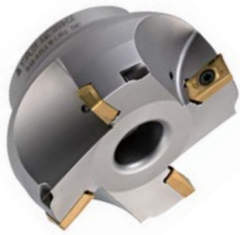
## Parts

Specification		
Ø40~Ø100	FTKA0410	TW15S

Available inserts E04 Available arbors and bolt E371~E373



# AMC(M)1000SE/2000SE



(mm)

Designation	⊙	ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	a	b	E	F	ap	kg	
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

( ) Metric size

## Available inserts

APMT-MM APMT-MF



Type	Designation	Cermet		Coated										Uncoated		page	
		CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC8510	PC5300	PC5400		G10
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				●				●	●			●	●	●		

E05

## 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-□□

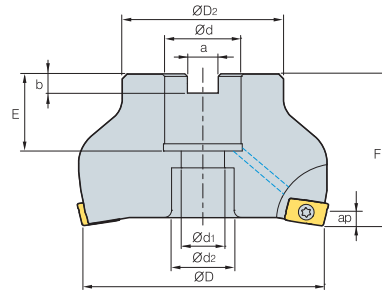
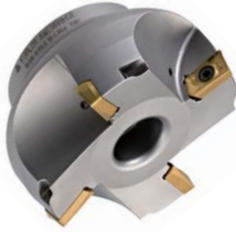
## Parts

Specification	Screw	Wrench	Wrench
Ø40~Ø50 (1000 type)	FTKA01842	-	TW06S-A
Ø80~Ø100 (2000 type)	FTKA02565S	TW08S	-

Available inserts E05 Available arbors and bolt E371~E373



## AMC(M)3000SE



(mm)

Designation		ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	ap	
AMC 3080HSE	4	80	57	25.4 (27)	14	20	9.5 (12.4)	6.0 (7.0)	25 (22)	50	6	1.3
(AMCM) 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	Cermet		Coated											Uncoated		page	
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01
APMT 1604PDSR-MM			●	●			●	●	●	●	●	●	●	●			E05
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-□□

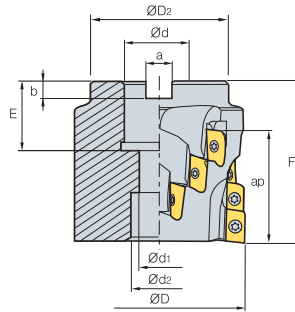
### Parts

Specification	Screw	Wrench
Ø80-Ø100	FTKA0410	TW08S

Available inserts E05 Available arbors and bolt E371-E373



# AMC(M)2000M



(mm)

Designation	ØD	ØD2	Ød	Ød1	Ød2	a	b	E	F	No. of flute	ap	kg	
<b>AMCM</b> 2050M	16	50	40	22	11	18	10.4	6.3	21	58	4	39	0.7
<b>AMC (AMCM)</b> 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

( ) Metric size

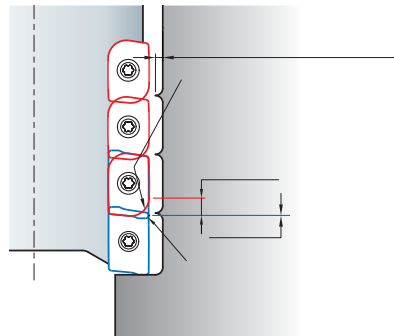
## Available inserts

Designation	APMT-MA				APMT-ML				APMT-MM				APMT-MF		page	
	Cermet		Coated		Coated		Coated		Coated		Uncoated					
	CN2000	CN80	NCM325	NC5380	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC3300	PC5400		G10
APMT 11T3PDFR-MA																
11T308PDFR-MA																
11T3PDER-ML													●	●		
11T308PDER-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 clamping the inserts

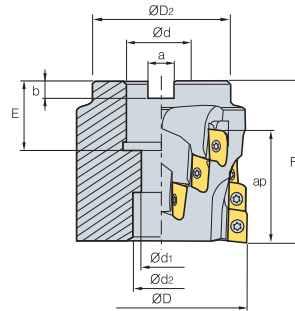


## Parts

Specification	Screw	Wrench
Ø50~Ø100	FTKA02565S	TW08S

Available inserts E05 Available arbors and bolt E371~E373

## AMC(M)3000M



AA  
90°

- AR: 9°
- RR: -9°~-5°

(mm)

Designation	ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	a	b	E	F	No. of flute	ap		
AMC 3063M	16	63	57	25.4 (27)	14	20	9.5 (12.4)	6 (7)	38 (38)	85	4	57	1.1
(AMCM) 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



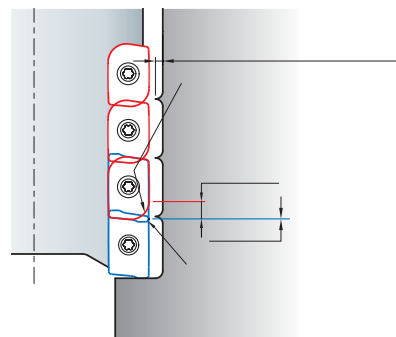
Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDFR-MA																	●
160404PDFR-MA																	
1604PDER-ML													●	●			
160404PDER-ML													●	●			
1604PDSR-MM			●	●			●	●	●	●	●	●	●	●			
1604PDSR-MF				●					●	●		●	●	●			
160410PDSR-MM										●		●	●				
160416PDSR-MM				●					●	●		●	●				
160424R-MM				●					●	●		●	●				
160430R-MM									●	●		●	●				
160432R-MM				●					●	●		●	●				

E05

### 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-□□

### Caution when clamping the inserts



### Parts

Specification		
Ø63~Ø100	FTKA0410	TW15S

Available inserts E05 Available arbors and bolt E371~E373







## AMS1000S

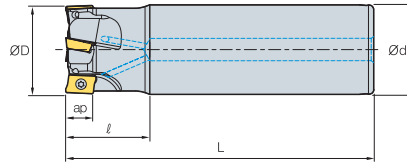


Fig. 1

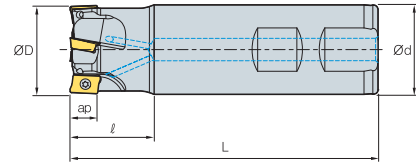
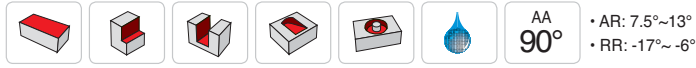


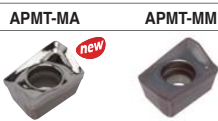
Fig. 2



(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
AMS 1010HS	2	10	10	20	80	5.6	0.04	2
1011HS	2	11	10	20	80	5.6	0.04	2
1012HS-2	2	12	12	25	80	5.6	0.06	2
1012HS-2L12	2	12	12	25	120	5.6	0.09	1
1012HS-3	3	12	12	25	80	5.6	0.06	2
1014HS-2	2	14	16	25	90	5.6	0.11	2
1014HS-2L16	2	14	16	25	140	5.6	0.18	1
1014HS-3	3	14	16	25	90	5.6	0.11	2
1015HS	3	15	16	25	90	5.6	0.11	2
1015HS-3L16	3	15	16	25	140	5.6	0.18	1
1016HS-3	3	16	16	25	90	5.6	0.12	2
1016HS-3L16	3	16	16	25	160	5.6	0.22	1
1016HS-4	4	16	16	25	90	5.6	0.12	2
1017HS	4	17	16	25	90	5.6	0.12	2
1017HS-3L16	3	17	16	25	160	5.6	0.22	1
1018HS	4	18	16	25	90	5.6	0.12	2
1018HS-4L16	4	18	16	25	180	5.6	0.25	1
1020HS-4	4	20	20	30	110	5.6	0.23	2
1020HS-4L20	4	20	20	30	200	5.6	0.43	1
1020HS-5	5	20	20	30	110	5.6	0.23	2
1021HS	5	21	20	30	110	5.6	0.24	2
1021HS-4L20	4	21	20	30	200	5.6	0.43	1
1022HS	5	22	20	30	110	5.6	0.27	2
1025HS	7	25	25	30	120	5.6	0.39	2
1026HS	7	26	25	30	120	5.6	0.39	2
1032HS	8	32	32	35	120	5.6	0.65	2
1033HS	8	33	32	35	120	5.6	0.65	2

### Available inserts



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01	
APMT 0602PDFR-MA																	●	E05
060208PDFR-MA																		
060202PDSR-MM				●					●				●	●				
0602PDSR-MM				●			●	●	●	●	●	●	●	●				
060208PDSR-MM				●					●	●	●	●	●	●				
060212R-MM				●						●	●	●	●	●				
060216R-MM										●		●	●					

### Parts

Specification		
Ø10~Ø33	FTKA01842	TW06S-A

Available inserts E05



# AMS1500S

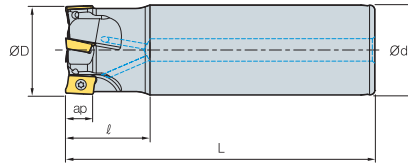


Fig. 1

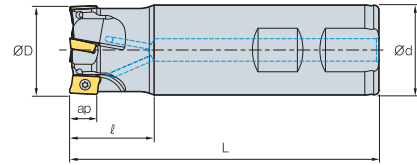


Fig. 2



AA 90°  
 • AR: 7.5°~12.5°  
 • RR: -28°~-14°

(mm)

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

## Available inserts



Designation	Cermet		Coated											Uncoated		page	
	CN2000	CN30	NCM825	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01
APMT 0903PDFR-MA																●	
090308PDFR-MA																	
0903PDER-ML													●	●			
090308PDER-ML													●	●			
0903PDSR-MM				●			●	●	●			●	●	●			
090308PDSR-MM				●					●	●			●	●			
090312R-MM										●			●	●			
090316R-MM				●					●	●			●	●			
090320R-MM									●	●			●	●			

## Parts

Specification		
Ø10~Ø14	FTKA02555S	TW08S
Ø16~Ø25	FTKA02565S	

Available inserts E05

## AMS1500S

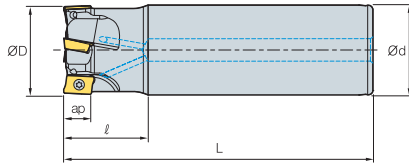


Fig. 1

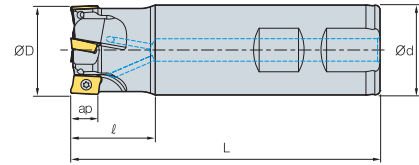


Fig. 2



(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
AMS	15025HS-4S20	4	25	20	30	110	0.25	2
	15025HS-4S25	4	25	25	30	110	0.25	2
	15028HS	4	28	25	30	110	0.36	2
	15028HS-4L25	4	28	25	30	180	0.61	1
	15028HS-5	5	28	25	30	110	0.36	2
	15030HS	4	30	25	30	110	0.38	2
	15030HS-4L25	4	30	25	30	180	0.62	1
	15030HS-5	5	30	25	30	110	0.38	2
	15032HS	4	32	32	30	110	0.60	2
	15032HS-4L32	4	32	32	30	180	1.00	1
	15032HS-5	5	32	32	30	110	0.6	2
	15035HS	5	35	32	30	110	0.70	2
	15035HS-6	6	35	32	30	110	0.7	2
	15040HS-S32	5	40	32	35	130	0.80	2
	15040HS-5L32	5	40	32	35	200	1.20	1
	15040HS-6S32	6	40	32	35	130	0.8	2
	15040HS-S40	5	40	40	35	130	1.13	2
	15040HS-6S40	6	40	40	35	130	1.13	2
	15040HS-S42	5	40	42	35	130	1.23	2
	15040HS-6S42	6	40	42	35	130	1.23	2

### Available inserts

APMT-MA APMT-ML APMT-MM



Designation	Cermet		Coated										Uncoated		page			
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01	
APMT 0903PDFR-MA																	●	E05
090308PDFR-MA																		
0903PDER-ML													●	●				
090308PDER-ML													●	●				
0903PDSR-MM				●			●	●	●	●		●	●	●				
090308PDSR-MM				●					●	●		●	●	●				
090312R-MM									●	●		●	●	●				
090316R-MM				●					●	●		●	●	●				
090320R-MM									●	●		●	●	●				

### Parts

Specification		
Ø25~Ø40	FTKA02565S	TW08S

Available inserts E05



# AMS2000S

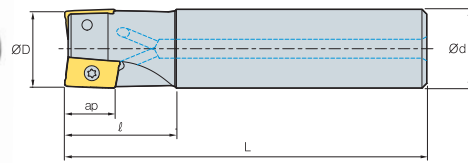


Fig. 1

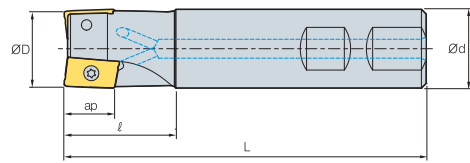


Fig. 2



AA 90°  
 • AR: 3°~14°  
 • RR: -25°~-18°

(mm)

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

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDR-MA																	
11T308PDR-MA																	
11T3PDR-ML																	
11T308PDR-ML																	
11T3PDR-MM			●	●			●	●	●	●	●	●	●	●			
11T3PDR-MF				●					●	●		●	●	●			
11T308PDR-MM				●					●	●		●	●	●			
11T312PDR-MM				●					●	●		●	●	●			
11T316R-MM				●					●	●		●	●	●			
11T318R-MM				●					●	●		●	●	●			
11T324R-MM				●					●	●		●	●	●			

E05

## Parts

Specification		
Ø10~Ø14 Ø16~Ø63	FTKA02555S FTKA02565S	TW08S

Available inserts E05

## AMS3000S

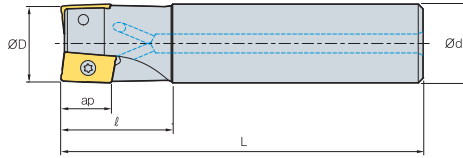


Fig. 1

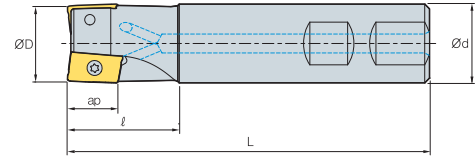


Fig. 2



AA 90°  
 • AR: 3°~14°  
 • RR: -18°~-10°

(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
AMS 3025HS	2	25	25	35	115	16	0.40	2
3025HS-2M25	2	25	25	35	180	16	0.65	1
3025HS-2L25	2	25	25	60	220	16	0.75	1
3032HS	3	32	32	40	125	16	0.69	2
3032HS-2M32	2	32	32	40	200	16	1.13	1
3032HS-2L32	2	32	32	65	260	16	1.52	1
3032HS-3M32	3	32	32	40	200	16	1.12	1
3032HS-3L32	3	32	32	65	260	16	1.48	1
3040HS	4	40	32	42	130	16	0.80	2
3040HS-3M32	3	40	32	42	200	16	1.24	1
3040HS-3L32	3	40	32	42	260	16	1.61	1
3040HS-4M32	4	40	32	42	200	16	1.21	1
3040HS-4L32	4	40	32	42	260	16	1.58	1
3040HS-S40	4	40	40	42	130	16	1.10	2
3040HS-S42	4	40	42	42	130	16	1.20	2
3050HS	5	50	32	45	135	16	1.00	2
3050HS-S40	5	50	40	45	135	16	1.30	2
3050HS-S42	5	50	42	45	135	16	1.40	2
3063HS	6	63	32	45	135	16	1.25	2
3063HS-S40	6	63	40	45	135	16	1.50	2
3063HS-S42	6	63	42	45	135	16	1.54	2

### Available inserts



Designation	Cermert		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3600	PC3600	PC9630	PC6610	PC5300	PC5400		G10	H01
APMT 1604PDR-MA																	
160404PDR-MA																	
1604PDR-ML																	
160404PDR-ML																	
1604PDR-MM			●	●			●	●	●	●	●	●	●	●			
1604PDR-MF				●					●	●	●	●	●	●			
160410PDR-MM																	
160416PDR-MM				●					●	●							
160424R-MM				●					●	●							
160430R-MM									●	●							
160432R-MM				●					●	●							

E05

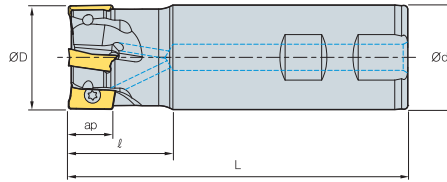
### Parts

Specification		
Ø25 Ø32-Ø63	FTKA0408 FTKA0410	TW15S

Available inserts E05



# AMS3000S-K



AA **90°**  
 • AR: 14°  
 • RR: -18° ~ -10°

(mm)

Designation		ØD	Ød	ℓ	L	ap	
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



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APKT 1604PDSR			●						●								
1604PDSR-MF			●										●				
1604PDSR-MM			●	●					●		●	●	●				
160432R-MM1																	
1604PDFR-MA														●		●	
1604PDFR-MA2																●	
160416FR-MA2																	●
160432FR-MA2																	●
1604PDFR-MA3														●		●	

## Parts

Specification		
Ø25 Ø32-Ø63	FTKA0408 FTKA0410	TW15S

Available inserts E04

## AMS4000S

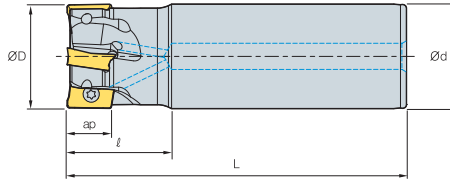


Fig. 1

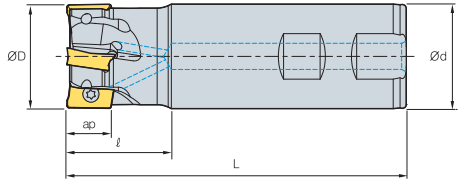


Fig. 2



AA 90° • AR: 7°~13°  
• RR: -20°~-6°

(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
AMS 4020HS	1	20	20	30	90	17	0.18	2
4020HS-M	1	20	20	30	160	17	0.17	1
4021HS	1	21	20	30	90	17	0.19	2
4021HS-M	1	21	20	30	160	17	0.34	1
4025HS	2	25	25	40	110	17	0.35	2
4025HS-2M25	2	25	25	40	180	17	0.58	1
4025HS-2L25	2	25	25	40	230	17	0.8	1
4026HS	2	26	25	40	110	17	0.37	2
4026HS-2M25	2	26	25	40	180	17	0.60	1
4026HS-2L25	2	26	25	40	230	17	0.82	1
4032HS	3	32	32	40	125	17	0.65	2
4032HS-2M32	2	32	32	50	200	17	1.17	1
4032HS-2L32	2	32	32	50	260	17	1.5	1
4032HS-3M32	3	32	32	50	200	17	1.10	1
4032HS-3L32	3	32	32	50	260	17	1.48	1
4033HS	3	33	32	40	125	17	0.68	2
4033HS-2M32	2	33	32	50	200	17	1.12	1
4033HS-2L32	2	33	32	50	260	17	1.55	1
4033HS-3M32	3	33	32	50	200	17	1.12	1
4033HS-3L32	3	33	32	50	260	17	1.55	1

### Available inserts



Designation	Coated										Uncoated		page	Designation	Coated										Uncoated		page				
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC9510			PC5300	PC5400	GT0	H01	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510		PC3500	PC3600	PC9530	PC9510
APMT 1806PDRF-MA															●	APMT 180620PDER-ML															●
180604PDRF-MA															●	180624PDER-ML															●
180612PDRF-MA															●	180630R-ML															●
180616PDRF-MA															●	1806PDSR-MM				●		●	●	●	●	●	●	●	●	●	●
180620PDRF-MA															●	1806PDSR-MF				●											●
180624PDRF-MA															●	180612PDSR-MM															●
180630R-MA															●	180616PDSR-MM															●
1806PDER-ML															●●	180620PDSR-MM															●●
180604PDER-ML															●●	180624PDSR-MM															●●
180612PDER-ML															●●	180630R-MM															●●
180616PDER-ML															●●	180632R-MM															●●

### Parts

Specification		
Ø20~Ø25 Ø32~Ø63	FTKA0408 FTKA0410	TW15S

Available inserts E05



# AMS4000S

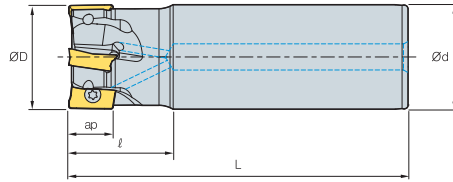


Fig. 1

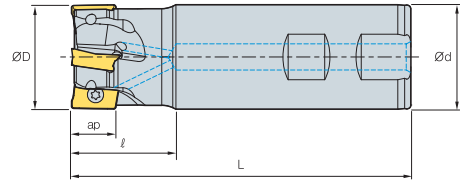


Fig. 2



AA  
90°

• AR: 7°~13°  
• RR: -20°~-6°

(mm)

Designation		ØD	Ød	ℓ	L	ap		Fig.
AMS	4040HS-3M32	3	40	32	50	200	1.20	1
	4040HS-3L32	3	40	32	50	260	1.60	1
	4040HS-4M32	4	40	32	50	200	1.20	1
	4040HS-4L32	4	40	32	50	260	1.60	1
	4040HS-S32	4	40	32	40	130	0.76	2
	4040HS-S40	4	40	40	40	130	1.10	2
	4040HS-S42	4	40	42	40	130	1.20	2
	4050HS-S32	5	50	32	40	135	0.95	2
	4050HS-S40	5	50	40	40	135	1.30	2
	4050HS-S42	5	50	42	40	135	1.40	2
	4063HS-S32	6	63	32	40	135	1.25	2
	4063HS-S40	6	63	40	40	135	1.60	2
	4063HS-S42	6	63	42	40	135	1.70	2

## Available inserts



Designation	Cement										page	Designation	Cement										page						
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2510	PC3500	PC3500	PC9530			PC6510	PC5300	PC5400	G10	H01	CN2000	CN30	NCM325	NC5330	NC5340		NC5350	PC2510	PC3500	PC3500	PC9530	PC6510
APMT 1806PDFR-MA												●	APMT 180620PDER-ML																●●
180604PDFR-MA												●	180624PDER-ML															●●	
180612PDFR-MA												●	180630R-ML															●●	
180616PDFR-MA												●	1806PDSR-MM				●		●●●●●●●●								●●		
180620PDFR-MA												●	1806PDSR-MF				●		●●●●●●●●								●●		
180624PDFR-MA												●	180612PDSR-MM				●		●●●●●●●●								●●		
180630R-MA												●	180616PDSR-MM				●		●●●●●●●●								●●		
1806PDER-ML												●●	180620PDSR-MM				●		●●●●●●●●								●●		
180604PDER-ML												●●	180624PDSR-MM				●		●●●●●●●●								●●		
180612PDER-ML												●●	180630R-MM						●●●●●●●●								●●		
180616PDER-ML												●●	180632R-MM				●		●●●●●●●●								●●		

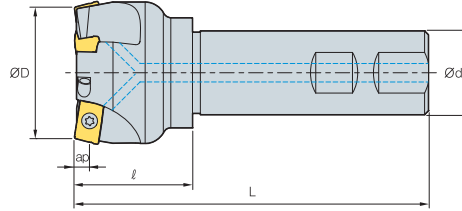
## Parts

Specification		
Ø40~Ø63	FTKA0410	TW15S

Available inserts E05



## AMS1000SE/2000SE



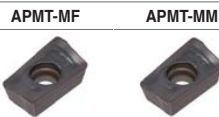
AA  
75°

• AR: -4.5°~ -1°  
• RR: -3°~0°

(mm)

Designation	⊙	ØD	Ød	ℓ	L	ap	⊕ kg
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



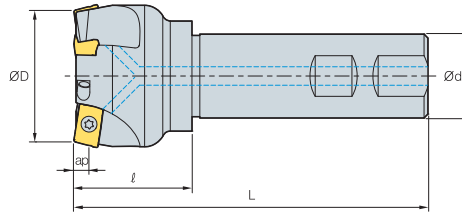
Type	Designation	Cermet		Coated										Uncoated		page		
		CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
1000 type	APMT 060202PDSR-MM			●														
	0602PDSR-MM			●				●	●	●	●	●	●	●	●			
	060208PDSR-MM			●						●	●			●	●			
	060212R-MM			●							●			●	●			
	060216R-MM										●			●	●			
2000 type	APMT 11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●			
	11T3PDSR-MF			●	●					●	●	●	●	●	●			
	11T308PDSR-MM			●	●					●	●	●	●	●	●			
	11T312PDSR-MM			●	●					●	●	●	●	●	●			
	11T316R-MM			●	●					●	●			●	●			
	11T318R-MM				●									●	●			
	11T324R-MM			●	●					●	●			●	●			

### Parts

Specification	Screw	Wrench	Wrench
Ø25 (1000 type)	FTKA01842	-	TW06S-A
Ø25~Ø63 (2000 type)	FTKA02565S	TW08S	-

Available inserts E05



**AMS3000SE**AA  
75°• AR: -4.5°~ -1°  
• RR: -3°~0°

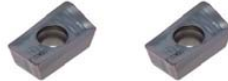
(mm)

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	Cermet		Coated										Uncoated		page			
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01	
APMT	1604PDSR-MM		●	●			●	●	●	●	●	●	●	●			E05	
	1604PDSR-MF			●					●	●		●	●	●				
	160410PDSR-MM								●	●			●	●				
	160416PDSR-MM				●					●	●			●	●			
	160424R-MM				●					●	●			●	●			
	160430R-MM									●	●			●	●			
	160432R-MM				●					●	●			●	●			

**Parts**

Specification		
Ø50-Ø63	FTKA0410	TW15S

Available inserts E05

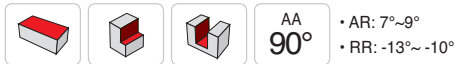
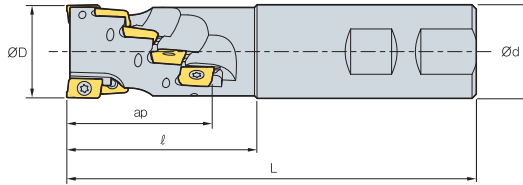


Milling

**E**

163

## AMS1000M/1500M



(mm)

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

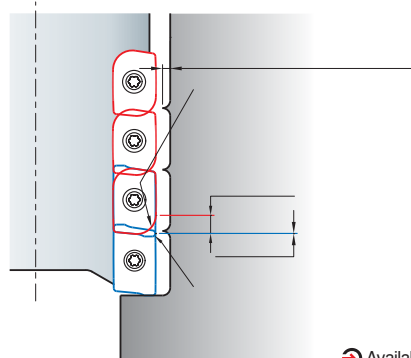
### Available inserts

APMT-MA APMT-ML APMT-MM



Type	Designation	Cermet		Coated										Uncoated		page		
		CN2000	CN30	NCM325	NCS330	NCS340	NCS350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
1000 type	APMT 0602PDFR-MA																●	E05
	060208PDFR-MA																	
	060202PDSR-MM			●					●					●	●			
	0602PDSR-MM			●				●	●	●	●	●	●	●	●			
	060208PDSR-MM			●						●	●			●	●			
	060212R-MM			●							●			●	●			
060216R-MM									●	●			●	●				
1500 type	APMT 0903PDFR-MA																●	
	090308PDFR-MA																	
	0903PDER-ML													●	●			
	090308PDER-ML													●	●			
	0903PDSR-MM			●				●	●	●	●		●	●	●			
	090308PDSR-MM			●						●	●			●	●			
	090312R-MM													●	●			
	090316R-MM			●							●	●		●	●			
090320R-MM									●	●			●	●				

### Caution when clamping the inserts



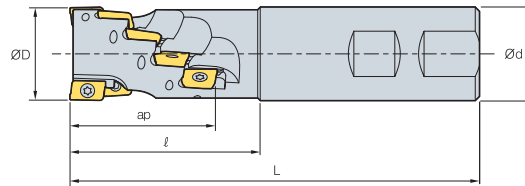
### Parts

Specification			
Ø16~Ø25 (1000 type)	FTKA01842	-	TW06S-A
Ø20~Ø32 (1500 type)	FTKA02565S	TW08S	-

Available inserts E05



# AMS2000M



(mm)

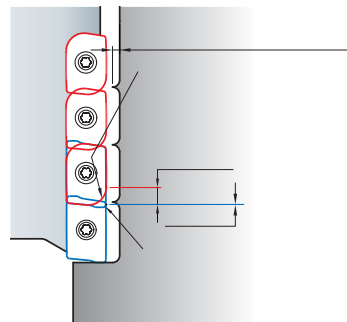
Designation		ØD	Ød	l	L	No. of flute	ap	
AMS	2020M	3	20	20	45	1	29.4	0.32
	2025M	8	25	25	55	2	38.9	0.40
	2032M	10	32	32	65	2	48.5	0.65
	2040M	14	40	40	75	2	58	0.75

## Available inserts



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400	G10		H01	
APMT 11T3PDFR-MA																	●	E05
11T308PDFR-MA																		
11T3PDER-ML													●	●				
11T308PDER-ML													●	●				
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●				
11T3PDSR-MF				●					●	●		●	●	●				
11T308PDSR-MM				●					●	●	●		●	●				
11T312PDSR-MM				●					●	●	●		●	●				
11T316R-MM				●					●	●			●	●				
11T318R-MM				●					●	●			●	●				
11T324R-MM				●					●	●			●	●				

## Caution when clamping the inserts

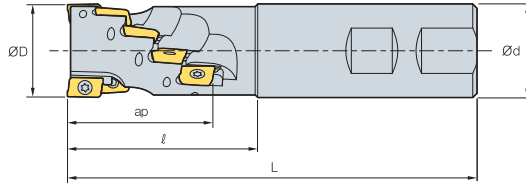


## Parts

Specification		
Ø20~Ø40	FTKA02565S	TW08S

Available inserts E05

## AMS4000M



(mm)

Designation		ØD	Ød	ℓ	L	No. of flute	ap	
AMS	4032M	4	32	32	60	130	2	0.65
	4040M	6	40	40	70	140	2	1.11
	4050M-S40	6	50	40	55	125	2	1.22
	4050M	8	50	40	70	140	2	1.37

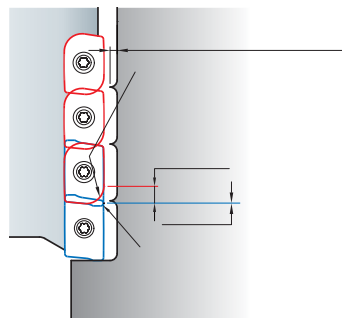
### Available inserts



Designation	Cermet		Coated												Uncoated		page
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10	H01	
APMT 1806PDFR-MA																	●
180604PDFR-MA																	●
180612PDFR-MA																	●
180616PDFR-MA																	●
180620PDFR-MA																	●
180624PDFR-MA																	●
180630R-MA																	●
1806PDER-ML													●	●			
180604PDER-ML													●	●			
180612PDER-ML													●	●			
180616PDER-ML													●	●			
180620PDER-ML													●	●			
180624PDER-ML													●	●			
180630R-ML													●	●			
1806PDSR-MM				●			●	●	●	●	●	●	●	●			
1806PDSR-MF				●					●		●	●	●	●			
180612PDSR-MM				●					●		●	●	●	●			
180616PDSR-MM				●					●		●	●	●	●			
180620PDSR-MM				●					●		●	●	●	●			
180624PDSR-MM				●					●		●	●	●	●			
180630R-MM				●					●		●	●	●	●			
180632R-MM				●					●		●	●	●	●			

E05

### Caution when clamping the inserts



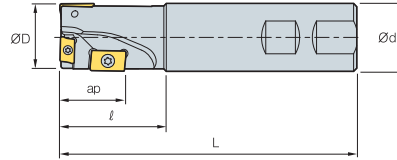
### Parts

Specification		
Ø32~Ø50	FTKA0410	TW15S

Available inserts E05



# AMS1000MH/1500MH



AA 90°  
 • AR: 9°~12°  
 • RR: -12°~ -10°

(mm)

Designation	ØD	Ød	l	L	ap	kg	APMT 0602	APMT 0903	APM(X)T 11T3 -	APMT 1604	APKT 1604 -
AMS 1014MH	14	12	30	120	11	0.16	3	-	-	-	-
1016MH	16	14	30	140	11	0.20	3	-	-	-	-
1018MH	18	16	30	140	11	0.21	3	-	-	-	-
AMS 15020MH	20	20	35	140	17	0.31	1	2	-	-	-

## Available inserts



Type	Designation	Cermet		Coated										Uncoated		page		
		CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC3510	PC5300	PC5400		G10	H01
1000 type	APMT 0602PDFR-MA																●	E05
	060208PDFR-MA																	
	060202PDSR-MM				●					●				●	●			
	0602PDSR-MM				●				●	●	●	●	●	●	●			
	060208PDSR-MM				●					●	●			●	●			
2000 type	APMT 0903PDFR-MA																●	
	090308PDFR-MA																	
	0903PDER-ML													●	●			
	090308PDER-ML													●	●			
	0903PDSR-MM				●				●	●	●	●		●	●			
090308PDSR-MM				●					●	●			●	●				

## Parts

Specification	Screw	Wrench	Wrench
Ø14~Ø18 (1000 type)	FTKA01842	-	TW06S-A
Ø20 (1500 type)	FTKA02565S	TW08S	-

Available inserts E05

## Recommended cutting condition



Drilling



Shouldering



Slotting

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



## AMS2000MH/3000MH

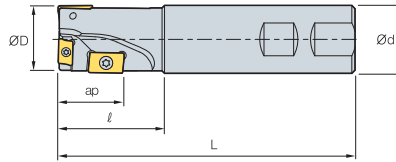


Fig. 1

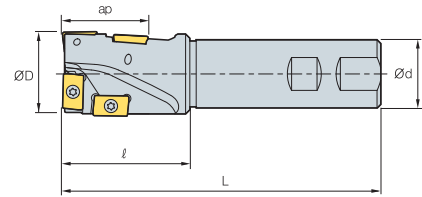


Fig. 2



(mm)

Designation		ØD	Ød	l	L	ap	kg	APMT 0602	APMT 0903	APM(X)T 11T3 -	APMT 1604	APKT 1604 -	Fig.
AMS	2025MH	3	25	25	40	130	20	0.45	-	-	3	-	1
	2032MH	3	32	32	50	140	30	0.75	-	-	1	2	1
AMS	3040MH-K	4	40	32	60	150	40	0.90	-	-	-	4	2

### Available inserts



Type	Designation	Cermet		Coated										Uncoated		page		
		CN2000	CN30	NCM325	NCM335	NC5330	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	PD2000		G10	H01
2000 type	APMT 11T3PDFR-MA																	
	11T308PDFR-MA																	
	11T3PDER-ML																	
	11T308PDER-ML																	
	11T3PDSR-MM																	
	11T3PDSR-MF																	
	11T308PDSR-MM																	
	11T312PDSR-MM																	
	11T316R-MM																	
11T318R-MM																		
11T324R-MM																		
3000 type	APMT 1604PDSR-MM																	
	1604PDSR-MF																	
3000-K type	APKT 1604PDSR-MM																	
	1604PDSR-MF																	

### Recommended cutting condition



	Drilling	Shouldering	Slotting
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

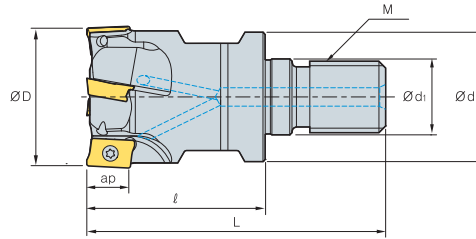
### Parts

Specification	Screw	Wrench	Wrench
Ø25~Ø32 (2000 type)	FTKA02565S	TW08S	-
Ø40 (3000 type)	FTKA0410	TW15S	-

Available inserts E04, E05



# AMM1000



AA  
90°  
• AR: 7.5°~12.5°  
• RR: -28°~-6°

(mm)

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

## Available inserts

APMT-MA APMT-MM



Designation	Cermet		Coated										Uncoated		page			
	CN2000	CN30	NCM825	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01	
APMT 0602PDFR-MA																	●	E05
060208PDFR-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)

||

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

## Parts

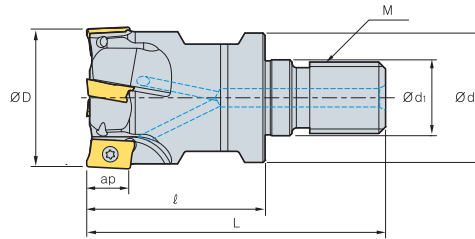
Specification		
Ø12~Ø32	FTKA01842	TW06S-A

Available inserts E05 Available adaptor E342~E343





## AMM1500



AA 90°  
 • AR: 7.5°~12.5°  
 • RR: -28°~-6°

(mm)

Designation	⊙	ØD	Ød	Ød1	ℓ	L	M	ap	⊕ kg
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	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 0903PDFR-MA																	●
090308PDFR-MA																	
0903PDER-ML													●	●			
090308PDER-ML													●	●			
0903PDSR-MM				●			●	●	●	●		●	●	●			
090308PDSR-MM				●					●	●			●	●			
090312R-MM									●	●			●	●			
090316R-MM				●					●	●			●	●			
090320R-MM									●	●			●	●			

### Available adaptor

Designation	Available adaptor
AMM 15010HR-M06	MAT-M06
15012HR-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)

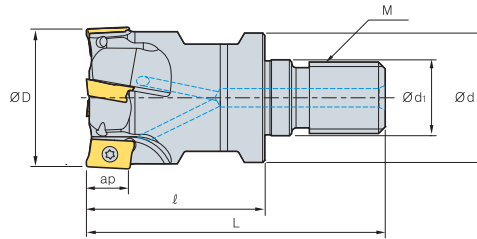
### Parts

Specification	Screw	Wrench
Ø10~Ø14 Ø16~Ø32	FTKA02555S FTKA02565S	TW08S

Available inserts E05 Available adaptor E342~E343



# AMM2000



AA 90°  
 • AR: 7.5°~12.5°  
 • RR: -28°~-6°

(mm)

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

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDFR-MA																	●
11T308PDFR-MA																	
11T3PDER-ML													●	●			
11T308PDER-ML													●	●			
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●			
11T3PDSR-MF				●				●	●		●	●	●	●			
11T308PDSR-MM				●				●	●	●		●	●	●			
11T312PDSR-MM				●				●	●	●		●	●	●			
11T316R-MM				●				●	●			●	●	●			
11T318R-MM								●	●			●	●	●			
11T324R-MM				●				●	●			●	●	●			

E05

## Available adaptor

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

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

II

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

## Parts

Specification		
Ø16-Ø40	FTKA02565S	TW08S

Available inserts E05 Available adaptor E342~E343

# E Technical Information for BT/HSK Tooling System

Guarantee strong constrain force by 2-side constraint

## BT/HSK Tooling System

### Code system (Single, Multi-edge type)

<b>BT50 HAT 4 063 114 - 4 F</b>						
<b>Arbor type</b>	<b>Item Name</b>	<b>Type</b>	<b>Diameter</b>	<b>Length (ap)</b>	<b>No. of flute</b>	<b>Front piece or total length</b>
BT30/40/50 HSK40/50/63/100	AM HAT RM	1000 type 1500 type 2000 type 3000 type 4000 type	063: Ø63	Length: 114 HS: Coolant + Single	No. of flute: 4 No. of tooth: 4	Front Piece (Y/N) Y: F No code: No L: Long type

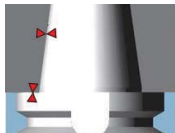



### Code system (Modular type)

<b>BT50 MAT M16 092</b>			
<b>Arbor type</b>	<b>Item category</b>	<b>M Dimensions</b>	<b>Total length (L)</b>
BT30/40/50 HSK40/50/63/100	MAT	M16	092: 92

## DBT system

### Feature of (D)BT arbor

- Guaranteed strong force by 2-side constraint
- Guarantee strengthen cutting at high speed
- Guaranteed superior surface roughness

DBT (Constrain, increased surface roughness)	BT
2-side constraint (Taper, 1-side) 	1-side constraint (Taper) 
 DBT Workpiece Ra = 0.3µm	 BT Workpiece Ra = 0.5µm

## HSK system

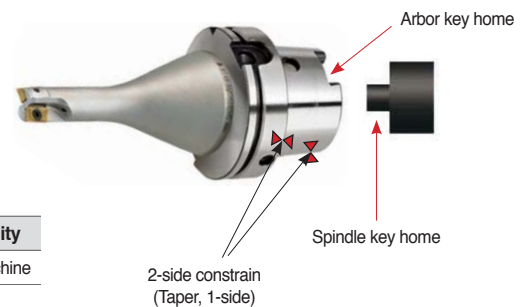
### Feature of HSK arbor

- Guaranteed strong constrain force by 2-side constraint
- Guaranteed strengthened cutting at high speeds
- Guaranteed superior surface roughness
- Guaranteed repeatability at axle direction and repeated direction

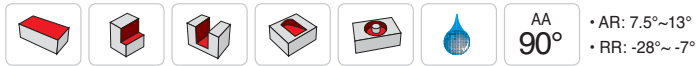
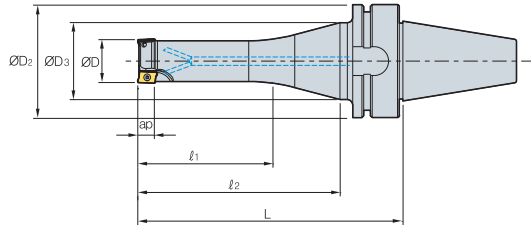
### HSK tolerance comparison

Arbor type	Max. tolerance	Min. tolerance	Available facility
HSK-T	0.075	0.035	Multi-tasking machine
HSK-A	0.33	0.08 (General)	MCT

### HSK A: HSK T key tolerance comparison



# BT30 AM1000HS



(mm)

Designation		ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
BT30	AM1010HS-2	2	10	46	41	35	83	112	5.6
	AM1012HS-2	2	12	46	41	35	83	112	5.6
	AM1012HS-3	3	12	46	41	35	83	112	5.6
	AM1016HS-3	3	16	46	41	35	83	112	5.6
	AM1016HS-4	4	16	46	41	35	83	112	5.6
	AM1020HS-4	4	20	46	41	45	98	127	5.6
	AM1020HS-5	5	20	46	41	45	98	127	5.6

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 0602PDFR-MA																	●
060208PDFR-MA																	
060202PDSR-MM				●					●				●	●			
0602PDSR-MM				●			●	●	●	●	●	●	●	●			
060208PDSR-MM				●					●	●			●	●			
060212R-MM				●						●			●	●			
060216R-MM										●			●	●			

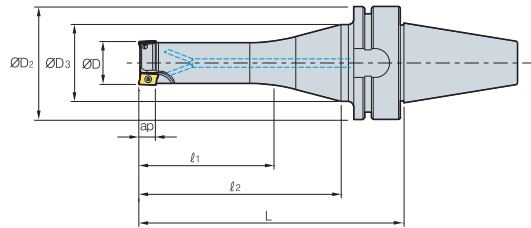
## Parts

Specification			
Ø10-Ø20	FTKA01842	-	TW06S-A

Available inserts E05

# E BT Tooling System (Single-edge)

## BT40 AM1500HS



(mm)

Designation	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
BT40 AM15016HS-2	2	16	63	50	45	83	117	9
AM15016HS-2L	2	16	63	50	35	118	152	9
AM15020HS-2	2	20	63	50	60	98	132	9
AM15020HS-3	3	20	63	50	60	98	132	9
AM15020HS-2L	2	20	63	50	50	118	152	9
AM15025HS-3	3	25	63	50	75	113	147	9
AM15025HS-4	4	25	63	50	75	113	147	9
AM15025HS-3L	3	25	63	50	65	133	167	9
AM15032HS-4	4	32	63	50	80	113	147	9
AM15032HS-5	5	32	63	50	80	113	147	9
AM15032HS-4L	4	32	63	50	70	133	167	9
AM15040HS-5	5	40	63	50	60	98	132	9
AM15040HS-6	6	40	63	50	60	98	132	9
AM15040HS-5L	5	40	63	50	50	118	152	9

### Available inserts



Designation	Cermet		Coated										Uncoated		page			
	CN2000	CN30	NCM625	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01	
APMT 0903PDFR-MA																	●	E05
090308PDFR-MA																		
0903PDER-ML													●	●				
090308PDER-ML													●	●				
0903PDSR-MM				●			●	●	●	●		●	●	●				
090308PDSR-MM				●					●	●		●	●	●				
090312R-MM										●		●	●	●				
090316R-MM				●						●	●		●	●				
090320R-MM										●	●		●	●				

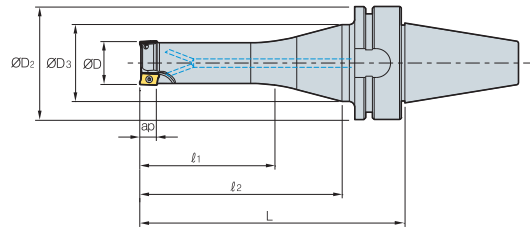
### Parts

Specification	Screw	Wrench	Wrench
Ø16~Ø40	FTKA02565S	TW08S	-

Available inserts E05



# BT40 AM2000HS



AA  
90°  
• AR: 7°~10°  
• RR: -20°~-7°

(mm)

Designation	Flutes	ØD	ØD2	ØD3	l1	l2	L	ap	
BT40	AM2016HS-2	2	16	63	50	45	83	117	11
	AM2016HS-2L	2	16	63	50	35	118	152	11
	AM2020HS-2	2	20	63	50	60	98	132	11
	AM2020HS-2L	2	20	63	50	50	118	152	11
	AM2025HS-3	3	25	63	50	75	113	147	11
	AM2025HS-3L	3	25	63	50	65	133	167	11
	AM2032HS-4	4	32	63	50	80	113	147	11
	AM2032HS-4L	4	32	63	50	70	133	167	11
	AM2040HS-5	5	40	63	50	60	98	132	11
	AM2040HS-5L	5	40	63	50	50	118	152	11
	AM2050HS-6	6	50	63	50	60	98	132	11
	AM2050HS-6L	6	50	63	50	50	118	152	11

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDFR-MA																	
11T308PDFR-MA																	
11T3PDER-ML																	
11T308PDER-ML													•	•			
11T3PDSR-MM			•	•			•	•	•	•	•	•	•	•			
11T3PDSR-MF				•					•	•			•	•			
11T308PDSR-MM				•					•	•	•		•	•			
11T312PDSR-MM				•					•	•	•		•	•			
11T316R-MM				•					•	•			•	•			
11T318R-MM				•					•	•			•	•			
11T324R-MM				•					•	•			•	•			

E05

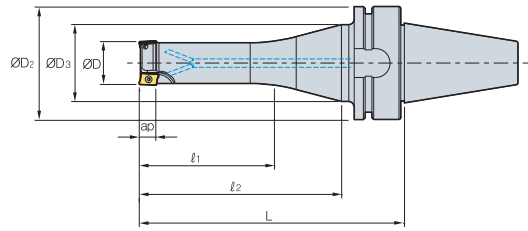
## Parts

Specification	Screw	Wrench
Ø16-Ø50	FTKA02565S	TW08S

Available inserts E05

# E BT Tooling System (Single-edge)

## BT50 AM3000HS



(mm)

Designation	Inserts	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
BT50	AM3025HS-2	2	25	100	80	65	113	158	16
	AM3025HS-2L	2	25	100	80	55	123	168	16
	AM3032HS-3	3	32	100	80	70	113	158	16
	AM3032HS-3L	3	32	100	80	60	123	168	16
	AM3040HS-4	4	40	100	80	50	98	143	16
	AM3040HS-4L	4	40	100	80	40	108	153	16
	AM3050HS-5	5	50	100	80	50	98	143	16
	AM3050HS-5L	5	50	100	80	40	108	153	16

### Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDFR-MA																	●
160404PDFR-MA																	
1604PDER-ML													●	●			
160404PDER-ML													●	●			
1604PDSR-MM			●	●			●	●	●	●	●	●	●	●			
1604PDSR-MF				●					●	●		●	●	●			
160410PDSR-MM										●		●	●				
160416PDSR-MM				●					●	●		●	●				
160424R-MM				●					●	●		●	●				
160430R-MM				●					●	●		●	●				
160432R-MM				●					●	●		●	●				

E05

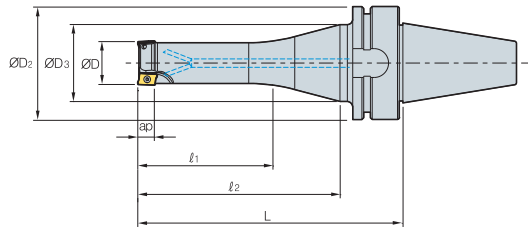
### Parts

Specification	Screw	Wrench
Ø25 Ø32-Ø50	FTKA0408 FTKA0410	TW15S

Available inserts E05



# BT50 AM4000HS



AA  
90°  
• AR: 7°~10°  
• RR: -20°~-7°

(mm)

Designation	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap
BT50 AM4020HS-1	20	100	80	50	98	143	17
AM4025HS-2	25	100	80	65	113	158	17
AM4032HS-3	32	100	80	70	113	158	17
AM4032HS-3L	32	100	80	60	123	168	17
AM4040HS-4	40	100	80	50	98	143	17
AM4040HS-4L	40	100	80	40	108	153	17
AM4050HS-5	50	100	80	50	98	143	17
AM4050HS-5L	50	100	80	40	108	153	17

## Available inserts



Designation	Cermet		Coated											Uncoated		page	
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC6510	PC5300	PC5400	G10		H01
APMT 1806PDFR-MA																	●
180604PDFR-MA																	●
180612PDFR-MA																	●
180616PDFR-MA																	●
180620PDFR-MA																	●
180624PDFR-MA																	●
180630R-MA																	●
1806PDER-ML													●	●			
180604PDER-ML													●	●			
180612PDER-ML													●	●			
180616PDER-ML													●	●			
180620PDER-ML													●	●			
180624PDER-ML													●	●			
180630R-ML													●	●			
1806PDSR-MM				●			●	●	●	●	●	●	●	●			
1806PDSR-MF				●					●		●	●	●	●			
180612PDSR-MM				●					●		●	●	●	●			
180616PDSR-MM				●					●		●	●	●	●			
180620PDSR-MM				●					●		●	●	●	●			
180624PDSR-MM				●					●		●	●	●	●			
180630R-MM				●					●		●	●	●	●			
180632R-MM				●					●		●	●	●	●			

E05

## Parts

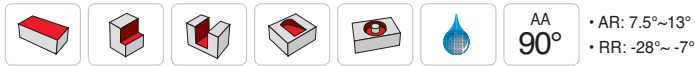
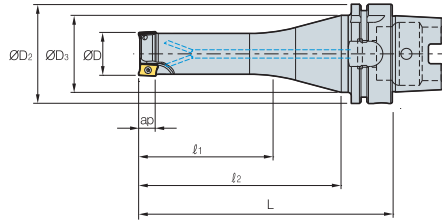
Specification	Screw	Wrench
Ø20~Ø25 Ø32~Ø50	FTKA0408 FTKA0410	TW15S

Available inserts E05



# E HSK Tooling System (Single-edge)

## HSK63A AM1000HS



(mm)

Designation	Inserts	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
HSK63A	AM1010HS-2	2	10	63	53	35	83	116	5.6
	AM1012HS-2	2	12	63	53	35	83	116	5.6
	AM1012HS-3	3	12	63	53	35	83	116	5.6
	AM1016HS-3	3	16	63	53	35	83	116	5.6
	AM1016HS-4	4	16	63	53	35	83	116	5.6
	AM1020HS-4	4	20	63	53	45	98	131	5.6
	AM1020HS-5	5	20	63	53	45	98	131	5.6

### Available inserts



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01	
APMT 0602PDFR-MA																	●	E05
060208PDFR-MA																		
060202PDSR-MM				●					●				●	●				
0602PDSR-MM				●			●	●	●	●	●	●	●	●				
060208PDSR-MM				●					●	●			●	●				
060212R-MM				●						●			●	●				
060216R-MM										●			●	●				

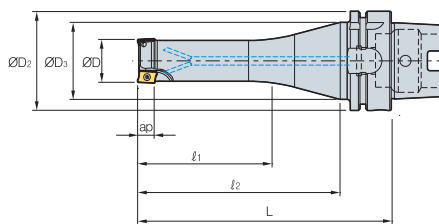
### Parts

Specification	Screw	Wrench	Wrench
Ø10~Ø20	FTKA01842	-	TW06S-A

Available inserts E05



# HSK63A AM1500HS



(mm)

Designation	Flutes	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
HSK63A	AM15016HS-2	2	16	63	53	45	83	116	9
	AM15016HS-2L	2	16	63	53	35	118	151	9
	AM15020HS-2	2	20	63	53	60	98	131	9
	AM15020HS-3	3	20	63	53	60	98	131	9
	AM15020HS-2L	2	20	63	53	50	118	151	9
	AM15025HS-3	3	25	63	53	75	113	146	9
	AM15025HS-4	4	25	63	53	75	113	146	9
	AM15025HS-3L	3	25	63	53	65	133	166	9
	AM15032HS-4	4	32	63	53	80	113	146	9
	AM15032HS-5	5	32	63	53	80	113	146	9
	AM15032HS-4L	4	32	63	53	70	133	166	9
	AM15040HS-5	5	40	63	53	60	98	131	9
	AM15040HS-6	6	40	63	53	60	98	131	9
	AM15040HS-5L	5	40	63	53	50	118	151	9

## Available inserts

APMT-MA APMT-ML APMT-MM



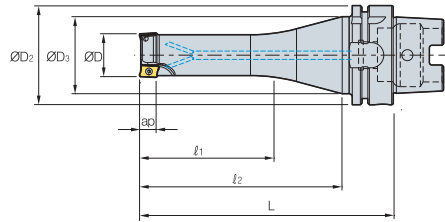
Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400	G10		H01	
APMT 0903PDFR-MA																	●	E05
090308PDFR-MA																		
0903PDER-ML													●	●				
090308PDER-ML													●	●				
0903PDSR-MM				●			●	●	●	●		●	●	●				
090308PDSR-MM				●				●	●	●		●	●	●				
090312R-MM									●	●		●	●	●				
090316R-MM				●					●	●		●	●	●				
090320R-MM									●	●		●	●	●				

## Parts

Specification	Screw	Wrench	Wrench
Ø16-Ø40	FTKA02565S	TW08S	-

Available inserts E05

## HSK63A AM2000HS



(mm)

Designation	Inserts	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
HSK63A	AM2016HS-2	2	16	63	53	45	83	116	11
	AM2016HS-2L	2	16	63	53	35	118	151	11
	AM2020HS-2	2	20	63	53	60	98	131	11
	AM2020HS-2L	2	20	63	53	50	118	151	11
	AM2025HS-3	3	25	63	53	75	113	146	11
	AM2025HS-3L	3	25	63	53	65	133	166	11
	AM2032HS-4	4	32	63	53	80	113	146	11
	AM2032HS-4L	4	32	63	53	70	133	166	11
	AM2040HS-5	5	40	63	53	60	98	131	11
	AM2040HS-5L	5	40	63	53	50	118	151	11
	AM2050HS-6	6	50	63	53	60	98	131	11
	AM2050HS-6L	6	50	63	53	50	118	151	11

### Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDFR-MA																	●
11T308PDFR-MA																	
11T3PDER-ML													●	●			
11T308PDER-ML													●	●			
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●			
11T3PDSR-MF				●					●	●	●	●	●	●			
11T308PDSR-MM				●					●	●	●	●	●	●			
11T312PDSR-MM				●					●	●	●	●	●	●			
11T316R-MM				●					●	●		●	●				
11T318R-MM																	
11T324R-MM				●					●	●		●	●				

E05

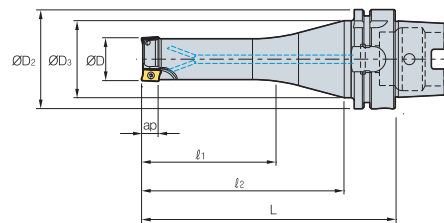
### Parts

Specification	Screw	Wrench
Ø16~Ø50	FTKA02565S	TW08S

Available inserts E05



# HSK63A AM3000HS



AA  
90°  
• AR: 7°~10°  
• RR: -20°~-7°

(mm)

Designation		ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
HSK63A	AM3025HS-2	2	25	63	53	65	113	146	16
	AM3025HS-2L	2	25	63	53	55	123	156	16
	AM3032HS-3	3	32	63	53	70	113	146	16
	AM3032HS-3L	3	32	63	53	60	123	156	16
	AM3040HS-4	4	40	63	53	50	98	131	16
	AM3040HS-4L	4	40	63	53	40	108	141	16
	AM3050HS-5	5	50	63	53	50	98	131	16
	AM3050HS-5L	5	50	63	53	40	108	141	16

## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDFR-MA																	●
160404PDFR-MA																	
1604PDER-ML													●	●			
160404PDER-ML													●	●			
1604PDSR-MM			●	●			●	●	●	●	●	●	●	●			
1604PDSR-MF				●					●	●		●	●	●			
160410PDSR-MM										●		●	●	●			
160416PDSR-MM				●					●	●		●	●	●			
160424R-MM				●					●	●		●	●	●			
160430R-MM										●		●	●	●			
160432R-MM				●					●	●		●	●	●			

E05

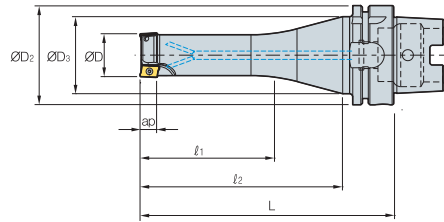
## Parts

Specification		
Ø25 Ø32-Ø50	FTKA0408 FTKA0410	TW15S

Available inserts E05

# E HSK Tooling System (Single-edge)

## HSK63A AM4000HS



(mm)

Designation		ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	ℓ <sub>1</sub>	ℓ <sub>2</sub>	L	ap	
HSK63A	AM4020HS-1	1	20	63	53	50	98	131	17
	AM4025HS-2	2	25	63	53	65	113	146	17
	AM4032HS-3	3	32	63	53	70	113	146	17
	AM4032HS-3L	3	32	63	53	60	123	156	17
	AM4040HS-4	4	40	63	53	50	98	131	17
	AM4040HS-4L	4	40	63	53	40	108	141	17
	AM4050HS-5	5	50	63	53	50	98	131	17
	AM4050HS-5L	5	50	63	53	40	108	141	17

### Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT																	
1806PDFR-MA																	●
180604PDFR-MA																	●
180612PDFR-MA																	●
180616PDFR-MA																	●
180620PDFR-MA																	●
180624PDFR-MA																	●
180630R-MA																	●
1806PDER-ML												●	●				
180604PDER-ML												●	●				
180612PDER-ML												●	●				
180616PDER-ML												●	●				
180620PDER-ML												●	●				
180624PDER-ML												●	●				
180630R-ML												●	●				
1806PDSR-MM				●			●	●	●	●	●	●	●				
1806PDSR-MF				●					●		●	●	●				
180612PDSR-MM				●				●			●	●	●				
180616PDSR-MM				●					●		●	●	●				
180620PDSR-MM				●							●	●	●				
180624PDSR-MM				●							●	●	●				
180630R-MM				●							●	●	●				
180632R-MM				●							●	●	●				

E05

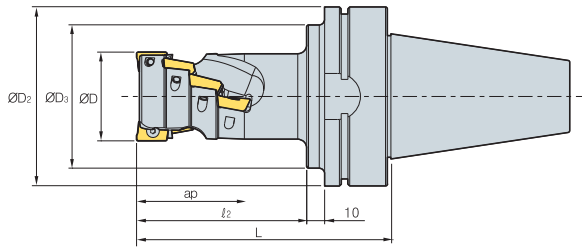
### Parts

Specification	Screw	Wrench
Ø20~Ø25 Ø32~Ø50	FTKA0408 FTKA0410	TW15S

Available inserts E05



# BT30/40 AM1000



AA  
90°  
• AR: -12.5°~13°  
• RR: -17°~-6°

(mm)

Designation	Ø	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
BT30	AM1016015-2	6	16	46	41	30	62	2	15.5
	AM1020020-3	12	20	46	41	32	64	3	20.5
	AM1025025-4	20	25	46	41	39	71	4	25.5
BT40	AM1016015-2	6	16	63	50	30	67	2	15.5
	AM1020020-3	12	20	63	50	32	69	3	20.5
	AM1025025-4	20	25	63	50	39	76	4	25.5

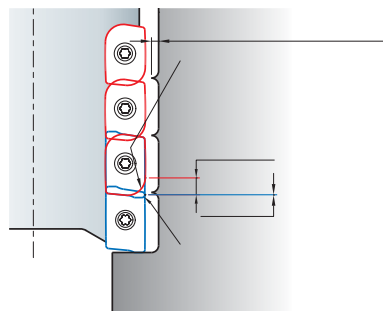
## Available inserts

APMT-MA APMT-MM



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01	
APMT 0602PDFR-MA																	●	E05
060208PDFR-MA																		
060202PDSR-MM				●						●			●	●				
0602PDSR-MM				●				●	●	●	●	●	●	●				
060208PDSR-MM				●					●	●	●	●	●	●				
060212R-MM				●							●		●	●				
060216R-MM											●		●	●				

## Caution when clamping the inserts



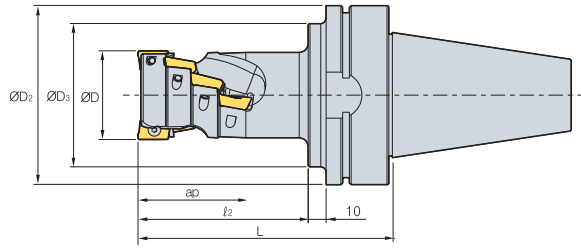
## Parts

Specification	Screw	Wrench	Wrench
Ø16-Ø25	FTKA01842	-	TW06S-A

Available inserts E05

# E BT Tooling System (Multi-edge)

## BT30/40 AM1500



AA  
90°  
• AR: -12.5°~13°  
• RR: -17°~ -6°

(mm)

Designation	⊙	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	L	ap	
BT30	AM15020026-1	3	20	46	41	42	74	1	26.5
	AM15025035-2	8	25	46	41	50	62	2	35
	AM15032044-2	10	32	46	41	60	92	2	44
BT40	AM15020026-1	3	20	63	50	42	79	1	26.5
	AM15025035-2	8	25	63	50	50	87	2	35
	AM15032044-2	10	32	63	50	60	97	2	44

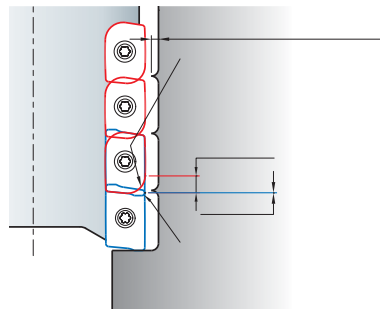
### Available inserts

APMT-MA APMT-ML APMT-MM



Designation	Cermet		Coated										Uncoated		page			
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01	
APMT 0903PDFR-MA																	●	E05
090308PDFR-MA																		
0903PDER-ML													●	●				
090308PDER-ML													●	●				
0903PDSR-MM				●			●	●	●	●		●	●	●				
090308PDSR-MM				●					●	●		●	●	●				
090312R-MM									●	●		●	●	●				
090316R-MM				●					●	●		●	●	●				
090320R-MM									●	●		●	●	●				

### Caution when clamping the inserts



### Parts

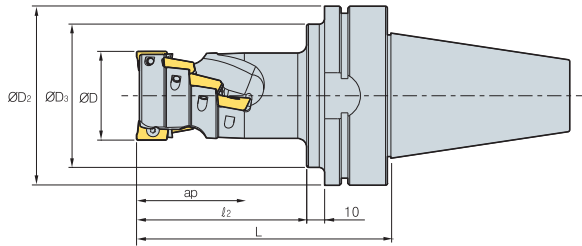
Specification	 Screw	 Wrench	 Wrench
Ø20~Ø32	FTKA02565S	TW08S	-

Available inserts E05



E Milling

# BT30/40 AM2000



(mm)

Designation	Ø	ØD	ØD2	ØD3	l2	L	No. of flute	ap	
BT30	AM2020029-1	3	20	46	41	45	77	1	29.4
	AM2025038-2	8	25	46	45	55	87	2	38.9
	AM2032048-2	10	32	46	45	65	97	2	48.5
	AM2040058-2	14	40	46	45	75	107	2	58
	AM2050039-4	16	50	46	45	58	90	4	39
	AM2063039-4	16	63	46	45	58	90	4	39
	AM2080039-5	20	80	46	45	63	95	5	39
BT40	AM2100039-6	24	100	46	45	63	95	6	39
	AM2020029-1	3	20	63	50	45	82	1	29.4
	AM2025038-2	8	25	63	50	55	92	2	38.9
	AM2032048-2	10	32	63	50	65	102	2	48.5
	AM2040058-2	14	40	63	50	75	112	2	58
	AM2050039-4	16	50	63	50	58	95	4	39
	AM2063039-4	16	63	63	50	58	95	4	39
AM2080039-5	20	80	63	50	63	100	5	39	
AM2100039-6	24	100	63	50	63	100	6	39	

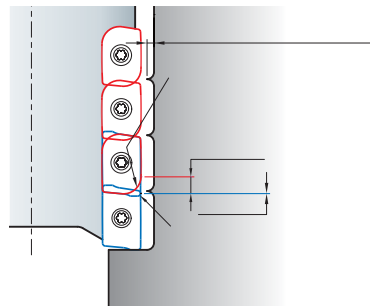
## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 11T3PDFR-MA																	
11T308PDFR-MA																	
11T3PDER-ML													●	●			
11T308PDER-ML													●	●			
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●			
11T3PDSR-MF				●					●	●		●	●	●			
11T308PDSR-MM				●					●	●		●	●	●			
11T312PDSR-MM				●					●	●		●	●	●			
11T316R-MM				●					●	●		●	●	●			
11T318R-MM				●					●	●		●	●	●			
11T324R-MM				●					●	●		●	●	●			

E05

## Caution when clamping the inserts



## Parts

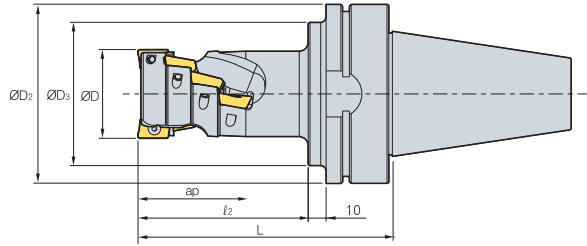
Specification	Screw	Wrench
Ø20~Ø100	FTKA02565S	TW08S

Available inserts E05



# E BT Tooling System (Multi-edge)

## BT50 AM3000



AA  
90°

• AR: 13°~15°  
• RR: -11°~ -4°

(mm)

Designation		ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>2</sub>	L	No. of flute	ap
BT50	AM3050043-2	6	50	100	80	72	2	43
	AM3063057-4	16	63	100	80	86	4	57
	AM3080071-4	20	80	100	80	100	4	71
	AM3100071-6	30	100	100	80	100	6	71

### Available inserts

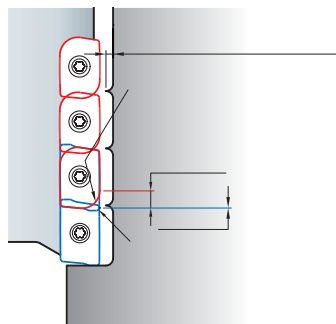
APMT-MA APMT-ML APMT-MM



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3630	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDFR-MA																	●
160404PDFR-MA																	
1604PDER-ML													●	●			
160404PDER-ML													●	●			
1604PDSR-MM			●	●			●	●	●	●	●	●	●	●			
1604PDSR-MF				●					●	●		●	●	●			
160410PDSR-MM										●		●	●				
160416PDSR-MM				●					●	●		●	●				
160424R-MM				●					●	●		●	●				
160430R-MM										●		●	●				
160432R-MM				●					●	●		●	●				

E05

### Caution when clamping the inserts



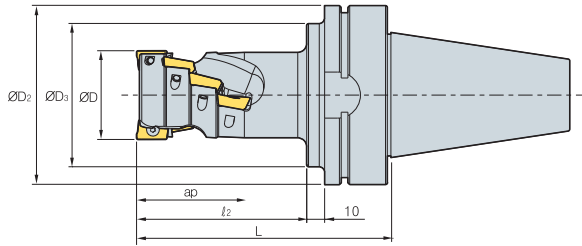
### Parts

Specification		
Ø50~Ø100	FTKA0410	TW15S

Available inserts E05



# BT50 AM4000



(mm)

Designation	ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>2</sub>	L	No. of flute	ap	
<b>BT50</b> AM4040046-2	6	40	100	80	75	123	2	46
AM4050061-2	8	50	100	80	95	143	2	61
AM4063061-4	16	63	100	80	90	138	4	61
AM4080076-4	20	80	100	80	105	153	4	76
AM4100076-6	30	100	100	80	105	153	6	76

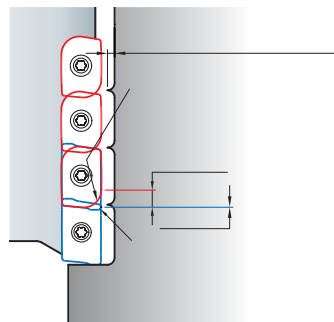
## Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC3530	PC6510	PC5300	PC5400		G10	H01
APMT 1806PDFR-MA																●	
180604PDFR-MA																●	
180612PDFR-MA																●	
180616PDFR-MA																●	
180620PDFR-MA																●	
180624PDFR-MA																●	
180630R-MA																●	
1806PDER-ML													●	●			
180604PDER-ML													●	●			
180612PDER-ML													●	●			
180616PDER-ML													●	●			
180620PDER-ML													●	●			
180624PDER-ML													●	●			
180630R-ML													●	●			
1806PDSR-MM				●			●	●	●	●	●	●	●	●			
1806PDSR-MF				●							●	●	●	●			
180612PDSR-MM				●				●			●	●	●	●			
180616PDSR-MM				●					●		●	●	●	●			
180620PDSR-MM				●						●	●	●	●	●			
180624PDSR-MM				●						●	●	●	●	●			
180630R-MM				●						●	●	●	●	●			
180632R-MM				●						●	●	●	●	●			

E05

## Caution when clamping the inserts

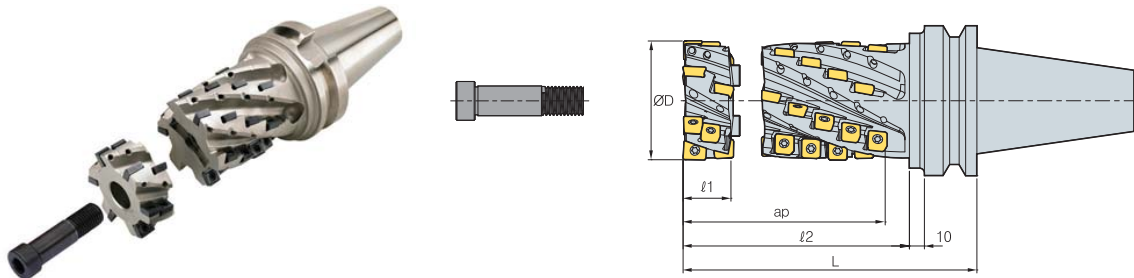


## Parts

Specification	Screw	Wrench
Ø40~Ø100	FTKA0410	TW15S

Available inserts E05

## BT50 HAT4000



(mm)

Designation			ØD	l1	l2	L	No. of flute	ap	Application	
	SPMT	ZPMT								
BT50- (Set)	HAT4050094-2F	10	1	50	32	119	160	2	94	HAT4050032-2F
	HAT4050104-2F	11	1	50	32	129	170	2	104	
	HAT4050114-2F	12	1	50	32	139	180	2	114	
	HAT4063094-4F	20	2	63	32	119	160	4	94	HAT4063032-4F
	HAT4063104-4F	22	2	63	32	129	170	4	104	
	HAT4063114-4F	24	2	63	32	139	180	4	114	
	HAT4080094-4F	20	2	80	33	119	160	4	94	HAT4080033-4F
	HAT4080104-4F	22	2	80	33	129	170	4	104	
HAT4080114-4F	24	2	80	33	139	180	4	114		
(Front Piece)	HAT4050032-2F	3	1	50	32	-	-	2	-	-
	HAT4063032-4F	6	2	63	32	-	-	4	-	
	HAT4080033-4F	6	2	80	33	-	-	4	-	

### Available inserts

SPMT-MM      ZPMT-MM



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
SPMT 120508-MMN																	E25
ZPMT 1505PPSR-MMN																	E31

### Set specification

Set Designation	Designation	Front Piece	Clamping Bolt
HAT4050094-2F HAT4050104-2F HAT4050114-2F	HAT4050062-2F HAT4050072-2F HAT4050082-2F	HAT4050032-2F	HSB1255
HAT4063094-4F HAT4063104-4F HAT4063114-4F	HAT4063062-4F HAT4063072-4F HAT4063082-4F	HAT4063032-4F	HSB1670
HAT4080094-4F HAT4080104-4F HAT4080114-4F	HAT4080061-4F HAT4080071-4F HAT4080081-4F	HAT4080033-4F	HSB1682

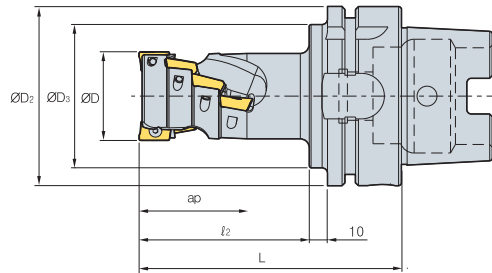
### Parts

Specification	Screw ETNA0511	Wrench TW20
Ø50-Ø80		

Available inserts E25, E31



# HSK63A AM1000



AA  
90°  
• AR: -12.5°~13°  
• RR: -17°~-6°

(mm)

Designation		$\varnothing D$	$\varnothing D_2$	$\varnothing D_3$	$l_2$	L	No. of flute	ap	
HSK63A	AM1016015-2	6	16	63	53	30	66	2	15.5
	AM1020020-3	12	20	63	53	32	68	3	20.5
	AM1025025-4	20	25	63	53	39	75	4	25.5

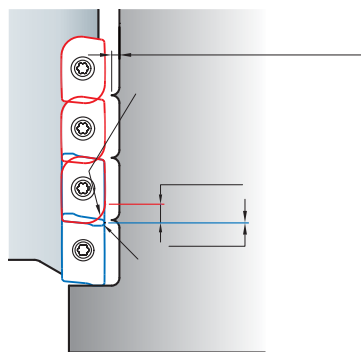
## Available inserts

APMT-MA APMT-MM



Designation	Cermet		Coated										Uncoated		page			
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01	
APMT 0602PDFR-MA																	●	E05
060208PDFR-MA																		
060202PDSR-MM				●					●				●	●				
0602PDSR-MM				●			●	●	●	●	●	●	●	●				
060208PDSR-MM				●					●				●	●				
060212R-MM				●									●	●				
060216R-MM										●			●	●				

## Caution when clamping the inserts



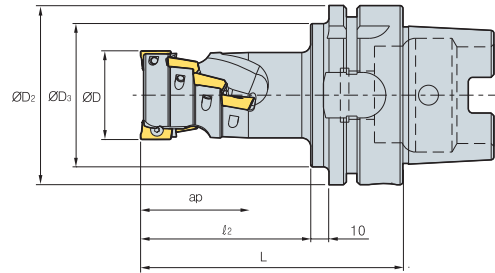
## Parts

Specification			
$\varnothing 16$ - $\varnothing 25$	FTKA01842	-	TW06S-A

Available inserts E05

# E HSK Tooling System (Multi-edge)

## HSK63A AM1500



AA  
90°

• AR: -12.5°~13°  
• RR: -17°~-6°

(mm)

Designation		ØD	ØD2	ØD3	l2	L	No. of flute	ap
HSK63A AM15020026-1	3	20	63	53	42	78	1	26.5
AM15025035-2	8	25	63	53	50	86	2	35
AM15032044-2	10	32	63	53	60	96	2	44

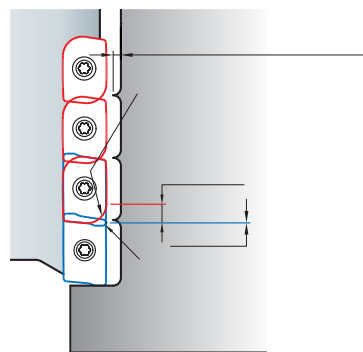
### Available inserts

APMT-MA APMT-ML APMT-MM



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		H01	
APMT 0903PDFR-MA																	●	E05
090308PDFR-MA																		
0903PDER-ML													●	●				
090308PDER-ML													●	●				
0903PDSR-MM				●			●	●	●	●		●	●	●				
090308PDSR-MM				●					●	●			●	●				
090312R-MM									●	●			●	●				
090316R-MM				●					●	●			●	●				
090320R-MM									●	●			●	●				

### Caution when clamping the inserts



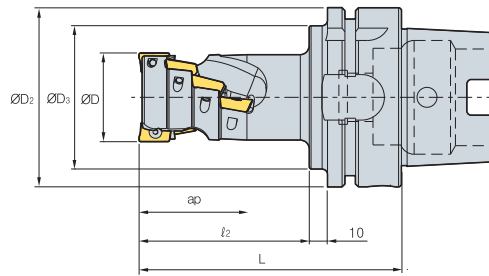
### Parts

Specification			
Ø20~Ø32	FTKA02565S	TW08S	-

Available inserts E05



# HSK63A AM2000



AA  
90°  
• AR: -12.5°~13°  
• RR: -17°~-6°

(mm)

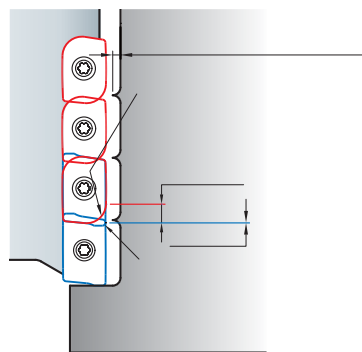
Designation		ØD	ØD <sub>2</sub>	ØD <sub>3</sub>	l <sub>2</sub>	L	No. of flute	ap
HSK63A	AM2020029-1	3	20	63	53	45	1	29.4
	AM2025038-2	8	25	63	53	55	2	38.9
	AM2032048-2	10	32	63	53	65	2	48.5
	AM2040058-2	14	40	63	53	75	2	58
	AM2050039-4	16	50	63	53	58	4	39
	AM2063039-4	16	63	63	53	58	4	39
	AM2080039-5	20	80	63	53	63	5	39
	AM2100039-6	24	100	63	53	63	6	39

## Available inserts



Designation	Cermet		Coated											Uncoated		page		
	CN2000	CN80	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10		HR1	
APMT 11T3PDFR-MA																	●	E05
11T308PDFR-MA																		
11T3PDER-ML													●	●				
11T308PDER-ML													●	●				
11T3PDSR-MM			●	●			●	●	●	●	●	●	●	●				
11T3PDSR-MF				●					●	●		●	●	●				
11T308PDSR-MM				●					●	●	●		●	●				
11T312PDSR-MM				●					●	●	●		●	●				
11T316R-MM				●					●	●			●	●				
11T318R-MM				●									●	●				
11T324R-MM				●					●	●			●	●				

## Caution when clamping the inserts



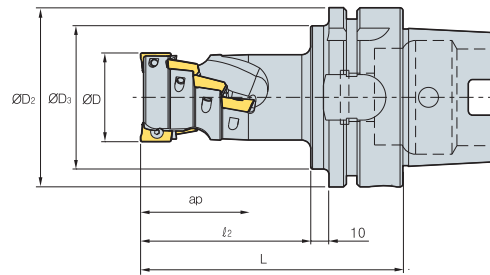
## Parts

Specification		
Ø20~Ø100	FTKA02565S	TW08S

Available inserts E05

# E HSK Tooling System (Multi-edge)

## HSK100A AM3000



AA  
90°

• AR: -13°~15°  
• RR: -11°~ -4°

(mm)

Designation		$\varnothing D$	$\varnothing D_2$	$\varnothing D_3$	$l_2$	L	No. of flute	ap
HSK100A AM3050043-2	6	50	100	88	72	111	2	43
AM3063057-4	16	63	100	88	86	125	4	57
AM3080071-4	20	80	100	88	100	139	4	71
AM3100071-6	30	100	100	88	100	139	6	71

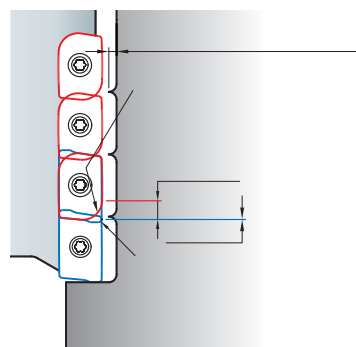
### Available inserts



Designation	Cermet		Coated										Uncoated		page		
	CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400		G10	H01
APMT 1604PDR-MA																	
160404PDR-MA																	
1604PDR-ML																	
160404PDR-ML																	
1604PDSR-MM			•	•			•	•	•	•	•	•	•	•			
1604PDSR-MF				•					•	•		•	•	•			
160410PDSR-MM									•	•		•	•	•			
160416PDSR-MM				•					•	•		•	•	•			
160424R-MM				•					•	•		•	•	•			
160430R-MM									•	•		•	•	•			
160432R-MM				•					•	•		•	•	•			

E05

### Caution when clamping the inserts



### Parts

Specification		
$\varnothing 50\text{--}\varnothing 100$	FTKA0410	TW15S

Available inserts E05







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.



# Contents

## Alpha Mill

Features	3
Cutters	10
Shanks	10
Modular Adaptors	11
Inserts	12

## AMC(M)

1000S/1500S/2000S/3000S/3000S-K/4000S	14
1000SE/2000SE/3000SE	19
2000M/3000M/4000M	21

## AMS

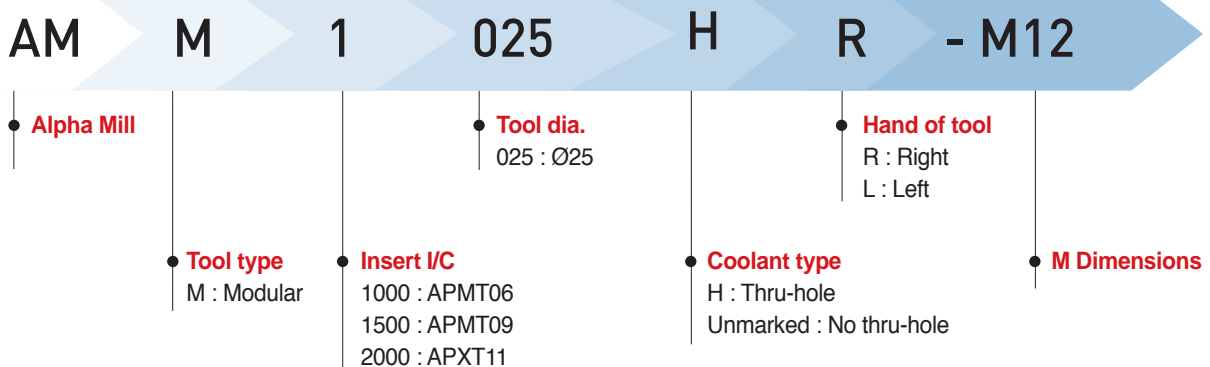
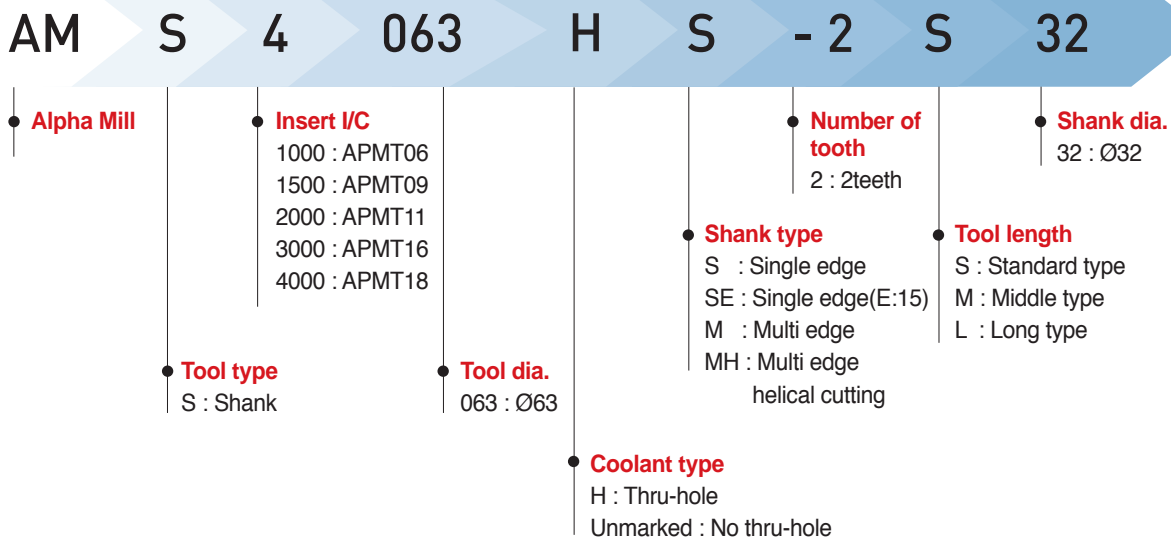
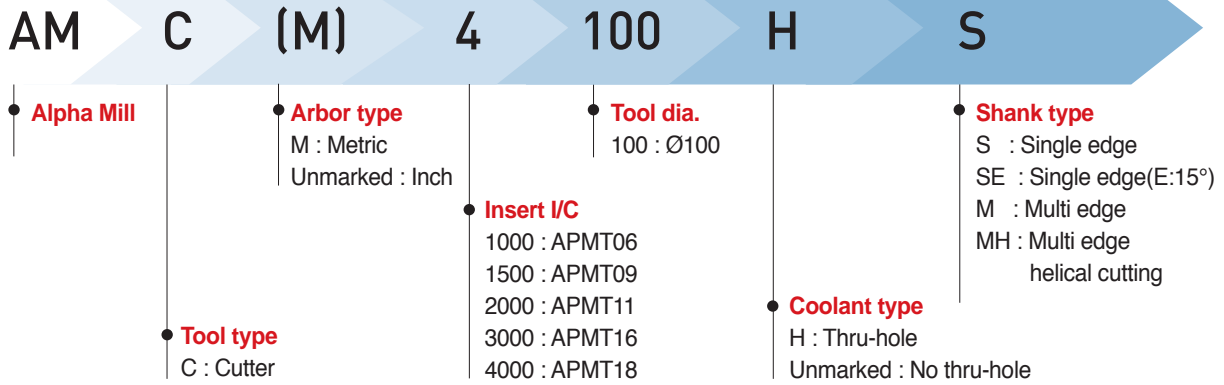
1000S/1500S/2000S/3000S/3000S-K/4000S	24
1000SE/2000SE/3000SE	32
1000M/1500M/2000M/4000M	34
1000MH/1500MH/2000MH/3000MH	36

## AMM

1000/1500/2000	37
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## Code system



# Alpha Mill

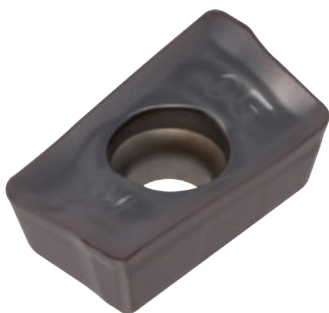


## Features

- 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.



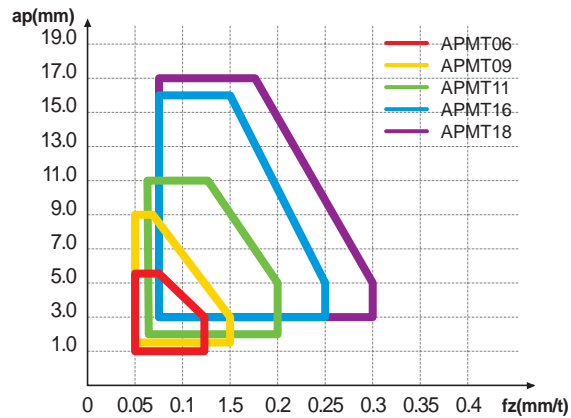
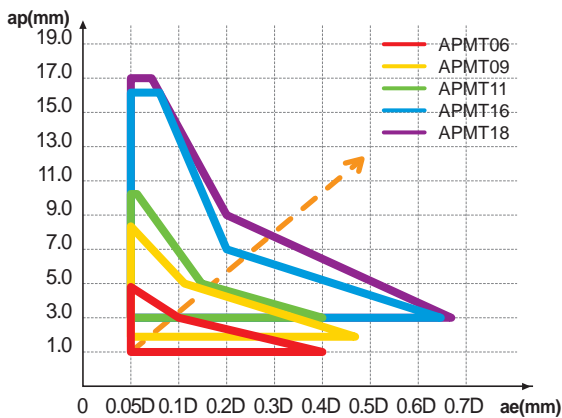
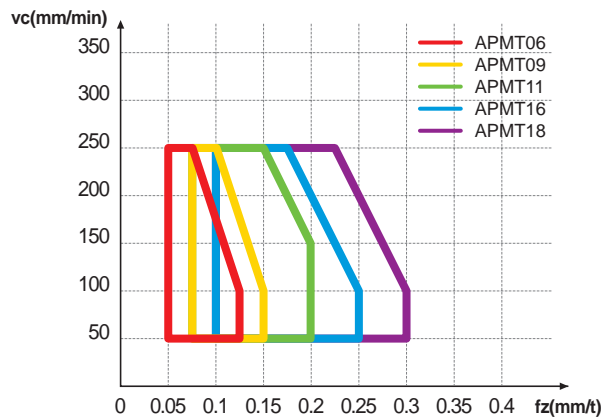
- Through coolant system
  - Better chip evacuation
  - Longer tool life with less heat
- Wider chip pocket
  - Screw on system for better chip control
- Usable with both socket and mounting bolt (bigger than Ø80)
- Lighter cutter due to bigger inside diameter
  - More convenient



- 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=1~1.5D & 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.



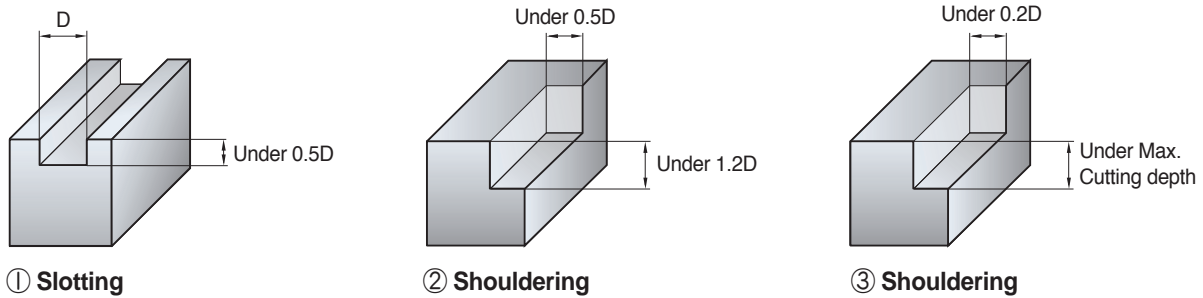
## Recommended grades and chip breakers by workpiece

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



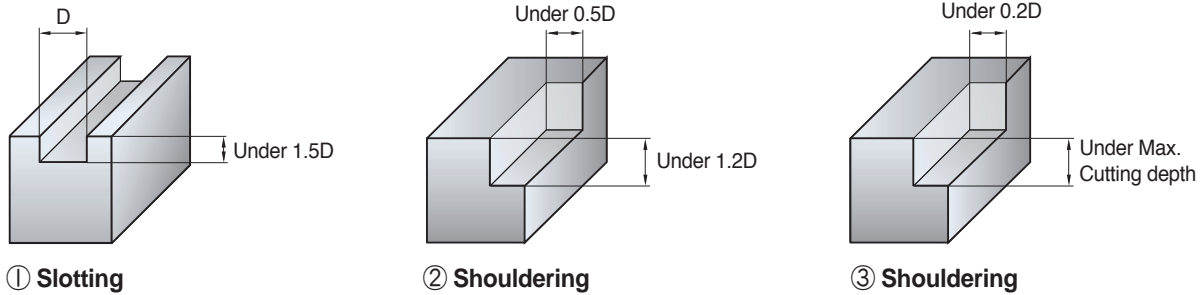
## Recommended depth of cut



## 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



## Recommended cutting condition(for single edge type)

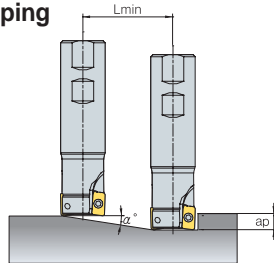
Workpiece	Grades	Fig.	Tool Dia.							
			Ø20, 25		Ø32, 40		Ø50, 63		Ø80, 100	
			vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)	vc(m/min)	fz(mm/t)
Mild steel, Low carbon steel	NCM325 PC3500	①	60~80	0.05~0.08	80~120	0.05~0.08	120~200	0.05~0.08	150~200	0.05~0.08
		②	80~120	0.08~0.10	120~180	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

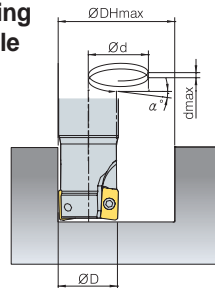


## Cutting condition for ramping and helical operation

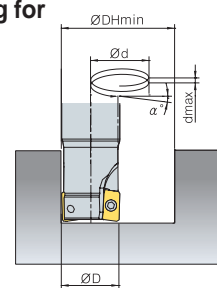
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



(mm)

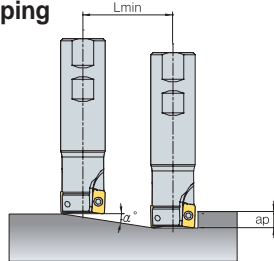
Designation	Tool Dia. ØD (min)	Ramping			Helical cutting for blind hole				Helical cutting for through hole	
		ap	Maximum angle α(°)	Lmin	Max. desirable hole Dia. ØDHmax	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax	Min. desirable hole Dia. ØDHmin	Max. pitch dmax
AMS1010HS	10	5	6.5	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
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	

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

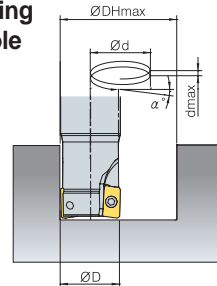


## Cutting condition for ramping and helical operation

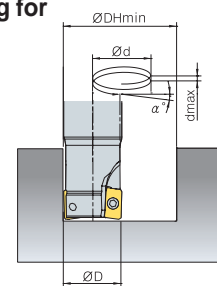
1. Ramping



2. Helical cutting for blind hole



3. Helical cutting for through hole



(mm)





Designation	Tool Dia. ØD (min)	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		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

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





# Alpha Mill



## Cutters

Type	A.A	Designation	Shape	Diameter range	Features	Application				
						Facing	Shouldering	Slotting	Copying	Ramping, Helical
Cutters for molds	0°	<b>AMC(M)</b> 1000S/1500S/ 2000S		Ø32~Ø100	3 dimensional shape and high rake angle lowers cutting load and ensures better chip evacuation.	●	●	●	●	●
	0°	<b>AMC(M)</b> 3000S/3000S-K/ 4000S		Ø40~Ø200		Inner coolant system for better chip control increases tool life.	●	●	●	●
	15°	<b>AMC(M)</b> 1000SE 2000SE 3000SE		Ø40~Ø100	Wide size range of inserts enlarges application range.	●				
	0°	<b>AMC(M)</b> 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°	<b>AMS</b> 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°	<b>AMS</b> 1000SE/2000SE 3000SE		Ø25~Ø63		Inner coolant system	●			
	0°	<b>AMS</b> 1000M/1500M 2000M/4000M		Ø16~Ø50	The various range of inserts can provide the widened choice	●	●	●	●	●
	0°	<b>AMS</b> 1000MH/1500MH 2000MH/3000MH		Ø14~Ø40	High depth and high feed can be available during operation	●	●	●	●	●

## Modular Adaptors

**AMM type**



**Steel Shank  
type**



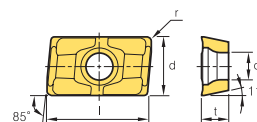
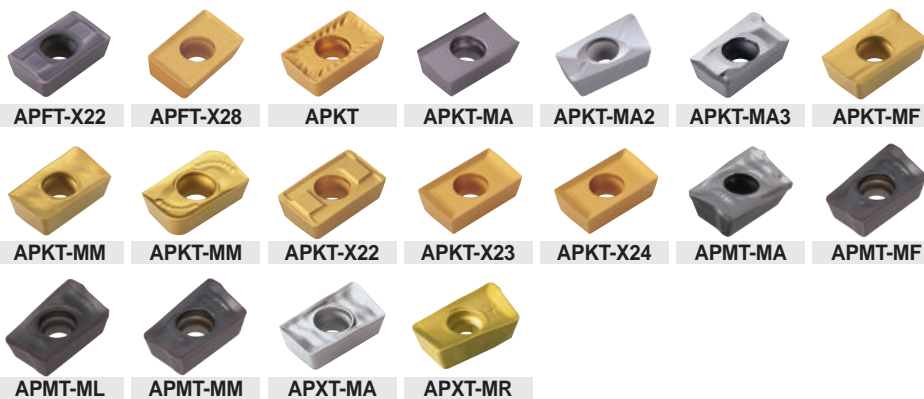
**Carbide Shank  
type**



# 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
<b>APFT</b>	<b>1604PDSR-X22</b>			•															16.4	9.525	4.76	0.8	4.4	-
	<b>1604PDTR-X22</b>																		16.4	9.525	4.76	0.8	4.4	-
<b>APFT</b>	<b>1604PDR-X28</b>																		16.4	9.525	4.76	0.8	4.4	-
	<b>1604PDSR-X28</b>																		16.4	9.525	4.76	0.8	4.4	-
	<b>1604PDTR-X28</b>																		16.4	9.525	4.76	0.8	4.4	-
<b>APKT</b>	<b>1604PDSR</b>	•		•				•											16.4	9.525	4.76	0.8	4.4	-
<b>APKT</b>	<b>1604PDFR-MA</b>									•				•					16.4	9.525	4.76	0.2	4.4	-
<b>APKT</b>	<b>1604PDFR-MA2</b>													•					16.5	9.56	5.76	0.8	4.5	-
	<b>160416FR-MA2</b>																		16.5	9.56	5.76	1.6	4.5	-
	<b>160432FR-MA2</b>																		16.5	9.56	5.76	3.2	4.5	-
<b>APKT</b>	<b>1604PDFR-MA3</b>													•	•				16.4	9.525	5.0	0.8	4.4	-
	<b>160420FR-MA3</b>																		16.0	9.525	5.0	2.0	4.4	-
<b>APKT</b>	<b>1604PDSR-MF</b>	•			•														16.4	9.525	5.0	0.8	4.4	-
<b>APKT</b>	<b>1604PDSR-MM</b>	•	•		•	•		•	•	•									16.4	9.525	5.2	0.8	4.4	-
<b>APKT</b>	<b>160432R-MM1</b>	•																	16.4	9.525	4.76	3.2	4.4	-
<b>APKT</b>	<b>1604PDSR-X22</b>	•																	16.4	9.525	4.76	0.8	4.4	-
	<b>1604PDTR-X22</b>																		16.4	9.525	4.76	0.8	4.4	-
<b>APKT</b>	<b>1604PDR-X23</b>																		16.3	9.525	4.76	1.0	4.4	-
	<b>1604PDTR-X23</b>																		16.3	9.525	4.76	1.0	4.4	-
<b>APKT</b>	<b>1604PDR-X24</b>																		16.3	9.525	4.76	1.0	4.4	-
	<b>1604PDFR-X24</b>																		16.3	9.525	4.76	1.0	4.4	-
<b>APMT</b>	<b>0602PDFR-MA</b>													•					6	4.24	2.6	0.4	2.0	-
	<b>0903PDFR-MA</b>													•					9.4	6.21	3.6	0.4	2.8	-
	<b>11T3PDFR-MA</b>													•					11.2	6.467	3.6	0.5	2.9	-
	<b>1604PDFR-MA</b>													•					16.4	9.41	5.76	0.8	4.5	-
	<b>1806PDFR-MA</b>													•					17.4	10.98	6.35	0.8	4.5	-
<b>APMT</b>	<b>11T3PDSR-MF</b>	•	•	•	•		•	•											11.2	6.467	3.6	0.5	2.85	-
	<b>1604PDSR-MF</b>	•		•	•	•		•	•										16.4	9.41	5.76	0.8	4.5	-
	<b>1806PDSR-MF</b>			•		•		•	•										17.4	10.98	6.35	0.8	4.5	-
	<b>180612PDSR-MF</b>																		17.4	10.98	6.35	1.2	4.5	-
<b>APMT</b>	<b>0903PDER-ML</b>							•											9.4	6.21	3.6	0.4	2.8	-
	<b>11T3PDER-ML</b>							•											11.2	6.467	3.6	0.5	2.9	-
	<b>1604PDER-ML</b>							•											16.4	9.41	5.76	0.8	4.5	-
	<b>1806PDER-ML</b>							•											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
<b>APMT</b>				●	●	●		●	●										6	4.24	2.6	0.2	2.0	-
				●	●	●		●	●	●	●								6	4.24	2.6	0.4	2.0	-
				●	●	●		●	●										6	4.24	2.6	0.8	2.0	-
				●	●	●													6	4.24	2.6	1.2	2.0	-
				●															6	4.24	2.6	1.6	2.0	-
				●	●	●		●	●										9.4	6.21	3.6	0.4	2.8	-
				●	●	●		●	●										9.4	6.21	3.6	0.6	2.8	-
				●	●	●		●	●										9.4	6.21	3.6	0.8	2.8	-
						●		●	●										9.4	6.21	3.6	1.2	2.8	-
				●	●	●													9.4	6.21	3.6	1.6	2.8	-
						●													9.2	6.21	3.6	2.0	2.8	-
																			9.2	6.21	3.6	3.1	2.8	-
																			9.2	6.21	3.6	3.2	2.8	-
	●		●	●	●		●	●	●	●									11.2	6.467	3.6	0.5	2.85	-
	●		●	●	●		●	●	●										11.2	6.467	3.6	0.8	2.85	-
	●		●	●	●		●	●	●										11.2	6.467	3.6	1.2	2.85	-
	●		●	●	●														11	6.467	3.6	1.6	2.85	-
																			11	6.467	3.6	1.8	2.85	-
			●	●	●		●												11	6.467	3.6	2.4	2.85	-
	●		●	●	●			●	●	●									16.4	9.41	5.76	0.8	4.5	-
	●			●	●		●	●											16.4	9.41	5.76	1.0	4.5	-
	●		●	●	●		●	●											16.4	9.41	5.76	1.6	4.5	-
			●	●	●		●	●											16	9.41	5.76	2.4	4.5	-
							●												16	9.41	5.76	3.0	4.5	-
	●		●	●	●		●	●											16	9.41	5.76	3.2	4.5	-
							●												16	9.41	5.76	5.0	4.5	-
							●												16	9.41	5.76	6.4	4.5	-
	●		●	●	●		●	●	●	●									17.4	10.98	6.35	0.8	4.5	-
	●		●	●	●		●	●											17.4	10.98	6.35	1.2	4.5	-
			●				●	●											17.4	10.98	6.35	1.6	4.5	-
																			17.4	10.98	6.35	2.0	4.5	-
			●	●			●												17.4	10.98	6.35	2.4	4.5	-
																			16.7	10.98	6.35	3.0	4.5	-
			●	●		●	●												16.7	10.98	6.35	3.2	4.5	-
						●	●												16.7	10.98	6.35	4.0	4.5	-
						●													16.7	10.98	6.35	4.8	4.5	-
							●												16.7	10.98	6.35	5.0	4.5	-
																			16.7	10.98	6.35	6.0	4.5	-
																			16.7	10.98	6.35	6.4	4.5	-
<b>APXT</b>														●					11.3	6.594	3.6	0.5	2.85	-
																			11.3	6.594	3.6	1.8	2.85	-
<b>APXT</b>																			11.3	6.594	3.6	0.5	2.85	-
																			11.3	6.594	3.6	0.8	2.85	-

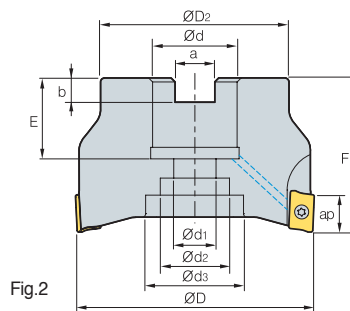
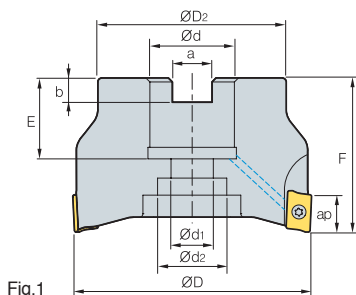
□ : Stock item

# Alpha Mill



## AMC(M)1000S/1500S

- AR : 9°~13°
- RR : -14°~5°



(mm)

Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	a	b	E	F	ap	kg	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 0602PDFR-MA																	
	060202PDSR-MM			●	●	●	●	●										
	0602PDSR-MM			●	●	●	●	●	●									
	060208PDSR-MM			●	●	●	●	●		●		●						
	060212R-MM			●	●	●												
1500 type	APMT 0903PDFR-MA																	
	0903PDER-ML							●										
	0903PDSR-MM			●	●	●	●	●	●									
	090308PDSR-MM			●	●	●	●	●	●									
	090312R-MM					●	●	●	●	●								
	090316R-MM					●	●	●	●									
090320R-MM					●	●												

### Available arbors

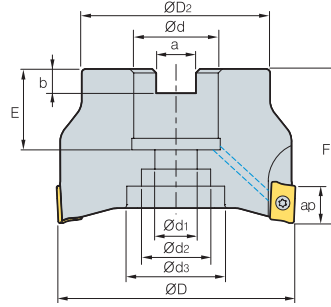
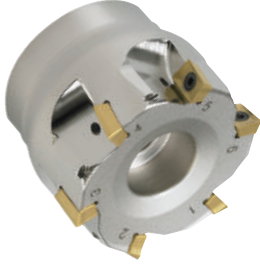
Type	Designation	Ød	NC arbors	Type	Designation	Ød	NC arbors
1000 type	AMC(M)	1032HS	BT □□-FMC16-□□	1500 type	AMC(M) 15040HS	16	BT □□-FMC16-□□
		1040HS-16			15050HS	22	BT □□-FMC22-□□
		1040HS-22			15063HS	22	BT □□-FMC22-□□
	1050HS	15080HS	25.4		BT □□-FMA25.4-□□		
	1063HS	15080HS	27		BT □□-FMC27-□□		
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

### Parts

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

# AMC(M)2000S

- AR : 9°~13°
- RR : -14°~5°



(mm)

Designation			ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	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

• ( ) Metric size

## Available inserts

		APMT-MA	APMT-ML	APMT-MM	APMT-MF													
						Coated				Cermet			Uncoated					
Designation		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		BT□□-FMA25.4-□□
	2080HS	27	BT□□-FMC27-□□
	2100HS	31.75	BT□□-FMA31.75-□□
		32	BT□□-FMC32-□□

## Parts



FTKA02565S



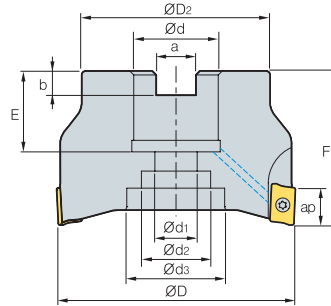
TW08S

# Alpha Mill



## AMC(M)3000S

- AR : 14°
- RR : -12°~8°



(mm)

Designation			ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	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 1604PDFR-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



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TW15S



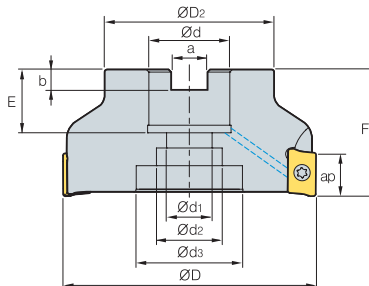


# Alpha Mill



## AMC(M)4000S

- AR : 13°~15°
- RR : -12°~7°



(mm)

Designation			ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	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	PC35/45	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-□□
4080HS	25.4 27	BT□□-FMA25.4-□□ BT□□-FMC27-□□	4160S	50.8 40	BT□□-FMA50.8-□□ BT□□-FMC40-□□

### Parts



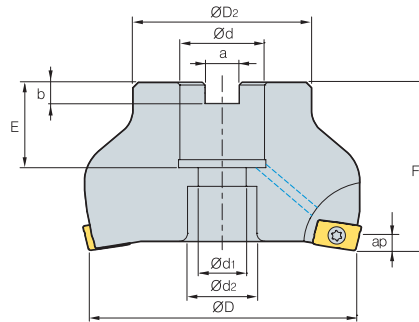
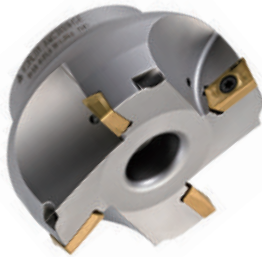
FTKA0410



TW15S

## AMC(M)1000SE/2000SE

- AR : 45°
- RR : 0°



(mm)

Designation			ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	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

• ( ) 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

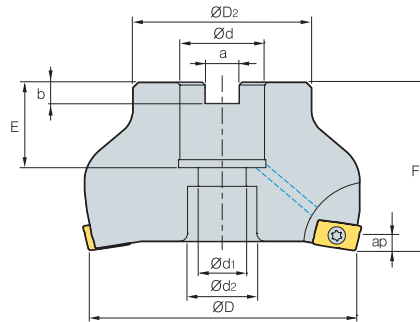
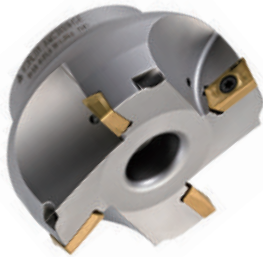
Type			
1000 type	FTKA01842	-	TW06S-A
2000 type	FTKA02565S	TW08S	-

# Alpha Mill



## AMC(M)3000SE

- AR : 45°
- RR : 0°



(mm)

Designation			ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	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

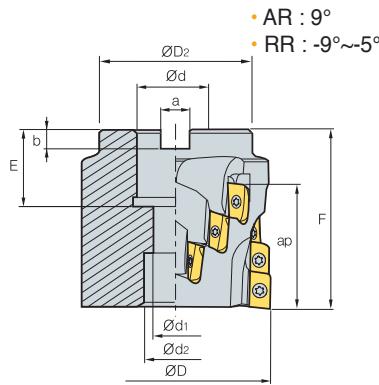


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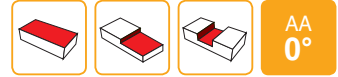


TW08S

# AMC(M)2000M



• AR : 9°  
• RR : -9°~5°



Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	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)

• ( ) Metric size

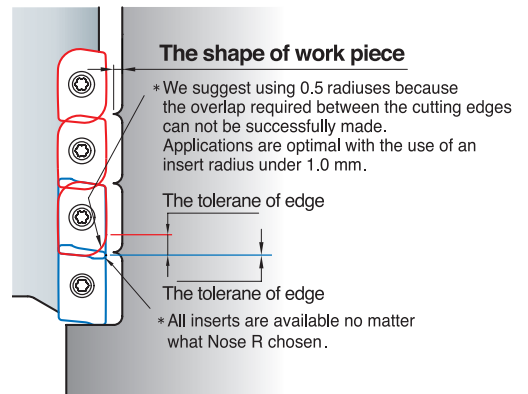
## Available inserts

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) 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



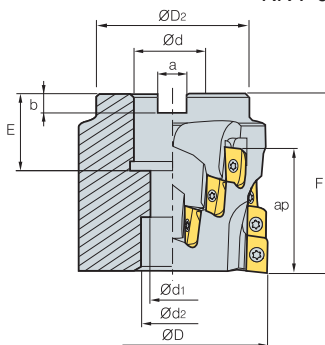
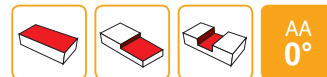
TW08S

# Alpha Mill



## AMC(M)3000M

- AR : 9°
- RR : -9°~5°



(mm)

Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	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 1604PDFR-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) 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

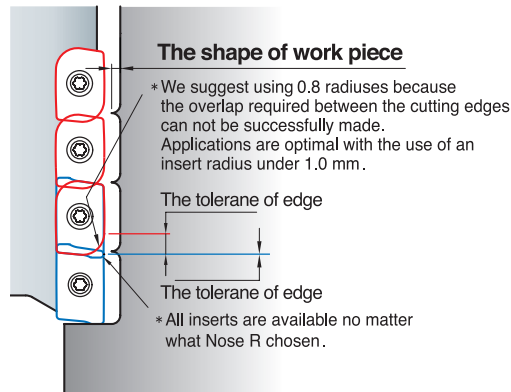


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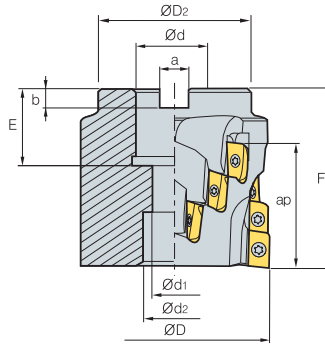


TW15S

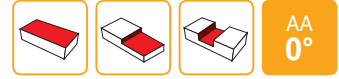
### Caution when insert are screwed



# AMC(M)4000M



- AR : 9°
- RR : -9°~5°



Designation		ØD	ØD <sub>2</sub>	Ød	Ød <sub>1</sub>	Ød <sub>2</sub>	Ød <sub>3</sub>	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

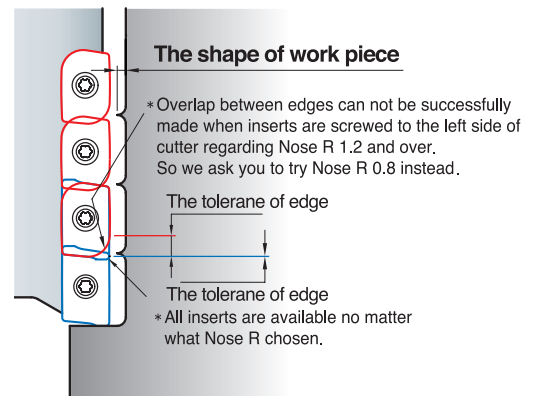
## Available inserts

		APMT-MA	APMT-ML	APMT-MM	APMT-MF																	
						Coated										Cermet			Uncoated			
Designation		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		
AMC(M)	4063M	25.4	BT□□-FMA25.4-□□	BT□□-SMA25.4-□□
		27	BT□□-FMC27-□□	BT□□-SMC27-□□
4080M	31.75	31.75	BT□□-FMA31.75-□□	BT□□-SMA31.75-□□
		32	BT□□-FMC32-□□	BT□□-SMC32-□□
4100M	38.1	38.1	BT□□-FMA38.1-□□	BT□□-SMA38.1-□□
		40	BT□□-FMC40-□□	BT□□-SMC40-□□
4125M	38.1	38.1	BT□□-FMA38.1-□□	BT□□-SMA38.1-□□
		40	BT□□-FMC40-□□	BT□□-SMC40-□□

## Caution when insert are screwed



## Parts



FTKA0410



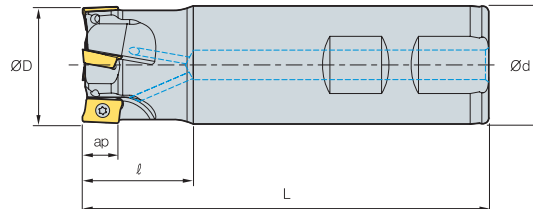
TW15S

# 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

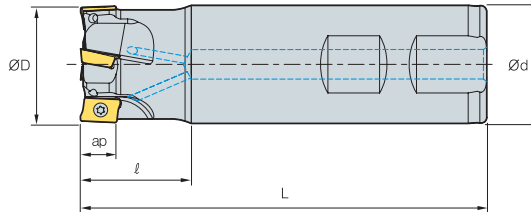


# AMS1500S

- AR : 7.5°~12.5°
- RR : -28°~14°



AA  
0°



(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 0903PDFR-MA																	
0903PDER-ML						●											
0903PDSR-MM			●	●	●	●	●										
090308PDSR-MM			●	●	●	●	●										
090312R-MM						●	●										
090316R-MM					●	●											
090320R-MM					●	●											

## Parts



FTKA02555S  
FTKA02565S



TW08S



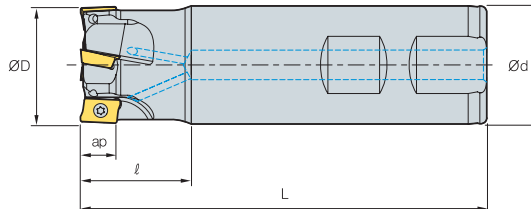
Ø10~Ø14  
Ø16~Ø100

# 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 0903PDFR-MA																	
0903PDER-ML						●											
0903PDSR-MM			●	●	●	●	●										
090308PDSR-MM			●	●	●	●	●										
090312R-MM					●	●											
090316R-MM				●	●	●											
090320R-MM				●	●												

### Parts



FTKA02565S

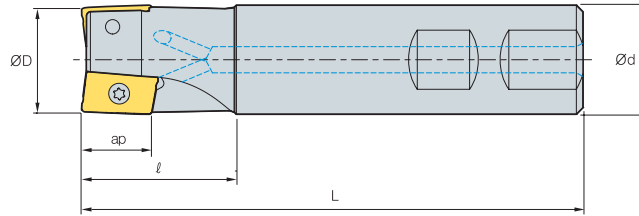


TW08S

# AMS2000S



- AR : 3°~14°
- RR : -25°~18°



(mm)

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	Coated								Cermet			Uncoated						
Designation					NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20	
APMT 11T3PDR-MA																						
11T3PDR-ML										●												
11T3PDR-MM		●			●		●	●	●	●	●	●	●									
11T3PDR-MF		●			●		●	●	●	●	●	●	●									
11T308PDR-MM		●			●		●	●	●	●	●	●	●									
11T312PDR-MM		●			●		●	●	●	●	●	●	●									
11T316R-MM		●			●		●	●	●	●	●	●	●									
11T318R-MM							●	●	●	●	●	●	●									
11T324R-MM							●	●	●	●	●	●	●									

## Parts



FTKA0255S  
FTKA0256S

TW08S

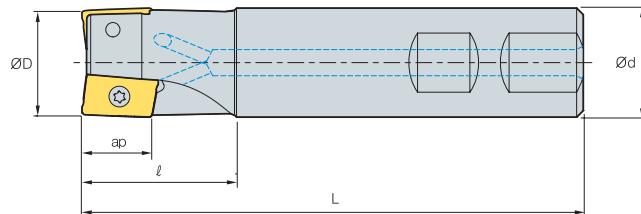
Ø10~Ø14  
Ø16~Ø100

# 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																	
1604PDR-ML						●											
1604PDR-MM	●		●	●	●	●	●	●	●								
1604PDR-MF	●		●	●	●	●	●										
160410PDR-MM	●				●	●	●										
160416PDR-MM	●		●	●	●	●	●										
160424R-MM			●	●	●	●	●										
160430R-MM					●	●											
160432R-MM	●		●	●	●	●	●										

### Parts

Screw



Wrench



Cutter Dia.



FTKA0408  
FTKA0410

TW15S

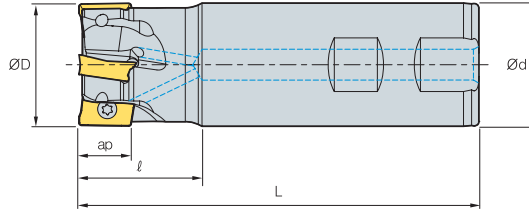
Ø25  
Ø32~Ø100

# AMS3000S-K

- AR : 14°
- RR : -18°~10°



AA  
0°

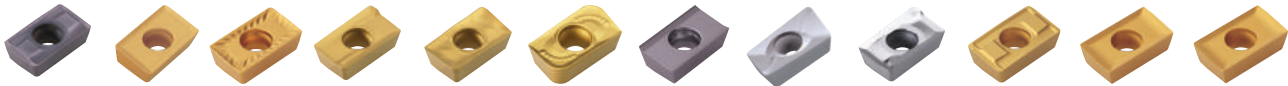


(mm)

Designation		ØD	Ød	ℓ	L	ap	
AMS 3025HS-K	2	25	25	35	115	16	0.4
3032HS-K	3	32	32	40	125	16	0.69
3040HS-K	4	40	32	42	130	16	0.8
3040HS-K-S40	4	40	40	42	130	16	1.1
3040HS-K-S42	4	40	42	42	130	16	1.2
3050HS-K	5	50	32	45	135	16	1.0
3050HS-K-S40	5	50	40	45	135	16	1.3
3050HS-K-S42	5	50	42	45	135	16	1.4
3063HS-K	6	63	32	45	135	16	1.25
3063HS-K-S40	6	63	40	45	135	16	1.5
3063HS-K-S42	6	63	42	45	135	16	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



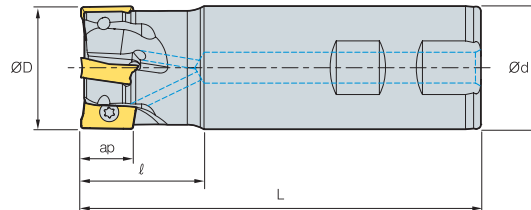
Ø25  
Ø32~Ø100

# Alpha Mill



## AMS4000S

- AR : 7°~13°
- RR : -20°~6°



(mm)

Designation	齿数	ØD	Ød	ℓ	L	ap	kg
AMS 4020HS	1	20	20	30	90	17	0.18
4020HS-M	1	20	20	30	160	17	0.17
4021HS	1	21	20	30	90	17	0.19
4021HS-M	1	21	20	30	160	17	0.34
4025HS	2	25	25	40	110	17	0.35
4025HS-2M25	2	25	25	40	180	17	0.58
4025HS-2L25	2	25	25	40	230	17	0.8
4026HS	2	26	25	40	110	17	0.37
4026HS-2M25	2	26	25	40	180	17	0.60
4026HS-2L25	2	26	25	40	230	17	0.82
4032HS	3	32	32	40	125	17	0.65
4032HS-2M32	2	32	32	50	200	17	1.17
4032HS-2L32	2	32	32	50	260	17	1.5
4032HS-3M32	3	32	32	50	200	17	1.10
4032HS-3L32	3	32	32	50	260	17	1.48
4033HS	3	33	32	40	125	17	0.68
4033HS-2M32	2	33	32	50	200	17	1.12
4033HS-2L32	2	33	32	50	260	17	1.55
4033HS-3M32	3	33	32	50	200	17	1.12
4033HS-3L32	3	33	32	50	260	17	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 1806PDFR-MA																	
1806PDER-ML						●											
1806PDSR-MM	●		●	●	●	●	●	●									
1806PDSR-MF			●	●	●	●	●										
180612PDSR-MM	●		●	●	●	●	●										
180616PDSR-MM			●			●	●										
180620PDSR-MM																	
180624PDSR-MM			●	●		●	●										
180630R-MM																	
180632R-MM			●	●		●	●										

### Parts

Screw



Wrench



Cutter Dia.



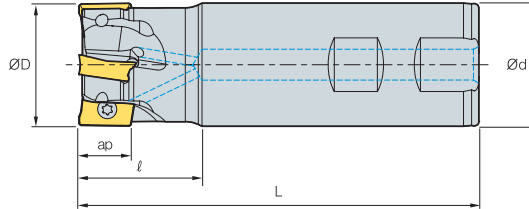
FTKA0408  
FTKA0410

TW15S

Ø20~Ø25  
Ø32~Ø100

# AMS4000S

- AR : 7°~13°
- RR : -20°~6°



(mm)

Designation		ØD	Ød	ℓ	L	ap	
<b>AMS</b> 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	PC3530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20
APMT 1806PDR-MA																	
1806PDR-ML						●											
1806PDR-MM	●		●	●	●	●	●	●	●								
1806PDR-MF			●	●	●	●	●										
180612PDR-MM	●		●	●	●	●	●										
180616PDR-MM			●			●	●										
180620PDR-MM																	
180624PDR-MM			●	●		●											
180630R-MM																	
180632R-MM			●	●		●	●										

## Parts



FTKA0410



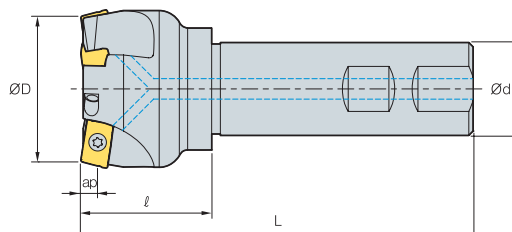
TW15S

# Alpha Mill



## AMS1000SE/2000SE

- AR : -4.5°~1°
- RR : -3°~0°



(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																		

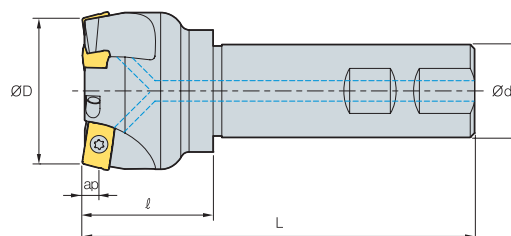
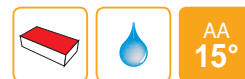
### Parts

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



# AMS3000SE

- AR : -4.5°~1°
- RR : -3°~0°



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

(mm)

## 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



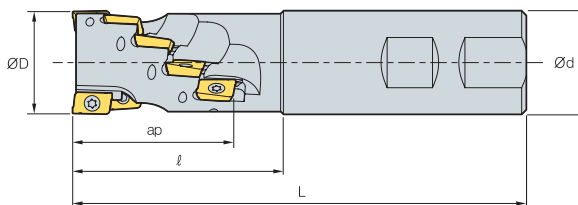
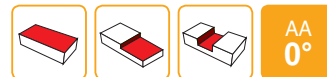
TW15S

# Alpha Mill



## AMS1000M/1500M

- AR : 7°~9°
- RR : -13°~10°



Designation			ØD	Ød	l	L	No. of flute	ap	(mm)
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

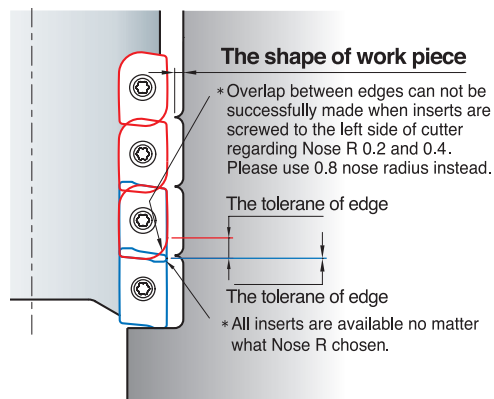
### Available inserts

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

### Parts

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

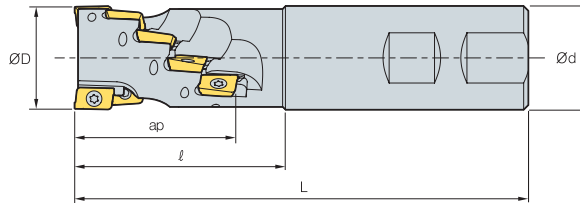
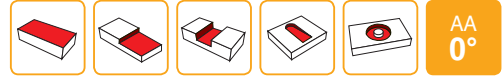
### Caution when insert are screwed



# 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

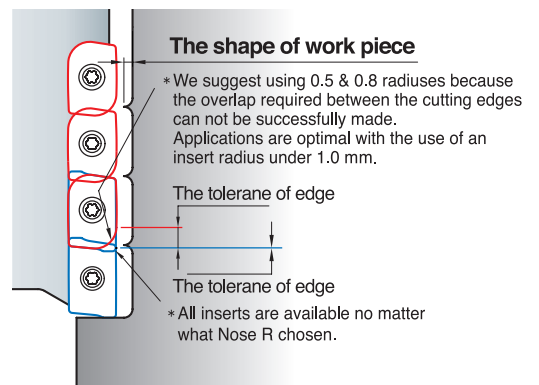
## Available inserts

		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 11T3PDFR-MA																	
	11T3PDER-ML																	
	11T3PDSR-MM	•		•	•	•	•	•	•	•								
	11T3PDSR-MF	•		•	•	•	•	•	•									
	11T308PDSR-MM	•		•	•	•	•	•	•									
	11T312PDSR-MM	•		•	•	•	•	•	•									
	11T316R-MM	•		•	•	•												
	11T318R-MM																	
11T324R-MM			•	•	•		•											
4000 type	APMT 1806PDFR-MA																	
	1806PDER-ML																	
	1806PDSR-MM	•		•	•	•	•	•	•	•								
	1806PDSR-MF			•	•	•	•	•	•									
	180612PDSR-MM	•		•	•	•	•	•	•									
	180616PDSR-MM			•			•	•										
	180620PDSR-MM			•	•		•											
	180624PDSR-MM			•	•		•											
	180630R-MM			•	•		•	•										
	180632R-MM			•	•		•	•										

## Parts

Type		
2000 type	FTKA02565S	TW08S
4000 type	FTKA0410	TW15S

## Caution when insert are screwed



# Alpha Mill



## AMS1000MH/1500MH/2000MH/3000MH

- AR : 9°~12°
- RR : -12°~10°

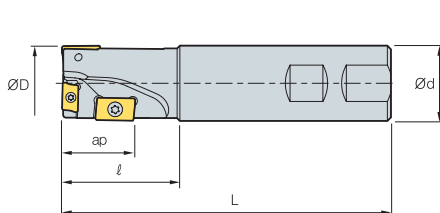


Fig. 1

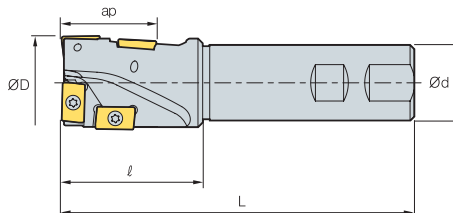


Fig. 2

(mm)

Designation		ØD	Ød	ℓ	L	ap		APMT 0602-	APMT 0903-	APMT 11T3 -	APMT 1604-	APKT 1604 -	Fig.
AMS 1014MH	3	14	12	30	120	11	0.16	3	-	-	-	-	1
AMS 1016MH	3	16	14	30	140	11	0.20	3	-	-	-	-	1
AMS 1018MH	3	18	16	30	140	11	0.21	3	-	-	-	-	1
AMS 15020MH	3	20	20	35	140	17	0.31	1	2	-	-	-	1
AMS 2025MH	3	25	25	40	130	20	0.45	-	-	3	-	-	1
AMS 2032MH	3	32	32	50	140	30	0.75	-	-	1	2	-	1
AMS 3040MH-K	4	40	32	60	150	40	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	•		•	•	•													
11T324R-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	-

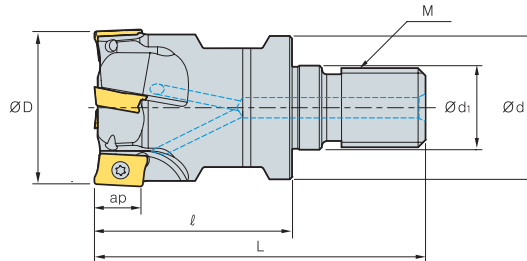
### Recommended cutting condition

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 <sub>1</sub>	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 0602PDFR-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)

||

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

## Parts



FTKA01842



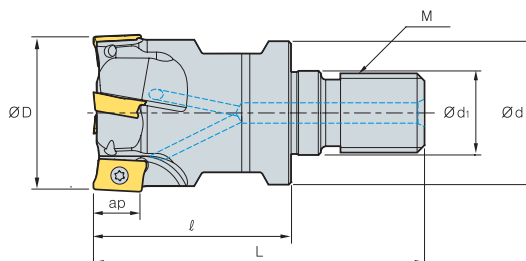
TW06S-A

# Alpha Mill



## AMM1500

- AR : 7.5°~12.5°
- RR : -28°~6°



(mm)

Designation		ØD	Ød	Ød <sub>1</sub>	l	L	M	ap	
<b>AMM</b> 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																	
0903PDR-ML						●											
0903PDR-MM			●	●	●	●	●										
090308PDR-MM			●	●	●	●	●										
090312R-MM					●	●	●										
090316R-MM				●	●	●	●										
090320R-MM				●	●	●	●										

### Available adaptor

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

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

||

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

### Parts



FTKA02555S  
FTKA02565S

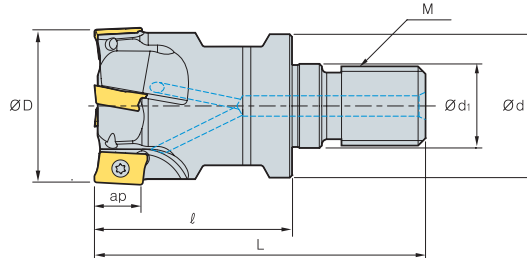
TW08S

Ø10~Ø14  
Ø16~Ø100

# AMM2000



- AR : 7.5°~12.5°
- RR : -28°~6°



(mm)

Designation			ØD	Ød	Ød <sub>1</sub>	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																
							Coated										Cermet			Uncoated		
Designation		NCM325	NCM335	NC5330	PC3500	PC5300	PC5400	PC3545	PC9530	PC6510	PD2000	CN2000	CN20	CN30	H01	G10	ST30A	ST20				
APMT	11T3PDR-MA																					
	11T3PDR-ML																					
	11T3PDR-MM	●		●	●	●	●	●	●	●												
	11T3PDR-MF	●		●	●	●	●	●	●	●												
	11T308PDR-MM	●		●	●	●	●	●	●	●												
	11T312PDR-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	

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

||

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

## Parts



FTKA02565S



TW08S

# Alpha Mill



## MAT(Steel shank type)

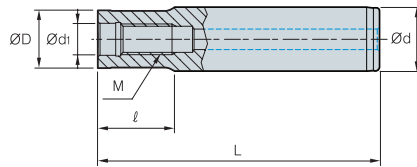


Fig. 1

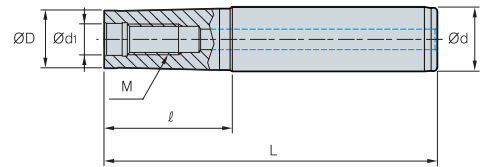


Fig. 2

(mm)

Designation	ØD	Ød	Ød <sub>1</sub>	ℓ	L	M	Fig.
<b>MAT</b> 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)

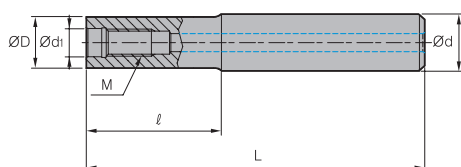


Fig. 1

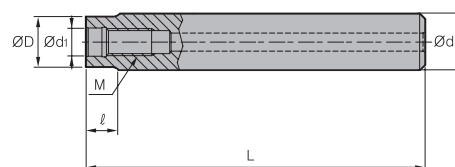


Fig. 2

		(mm)						
	Designation	ØD	Ød	Ød <sub>1</sub>	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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