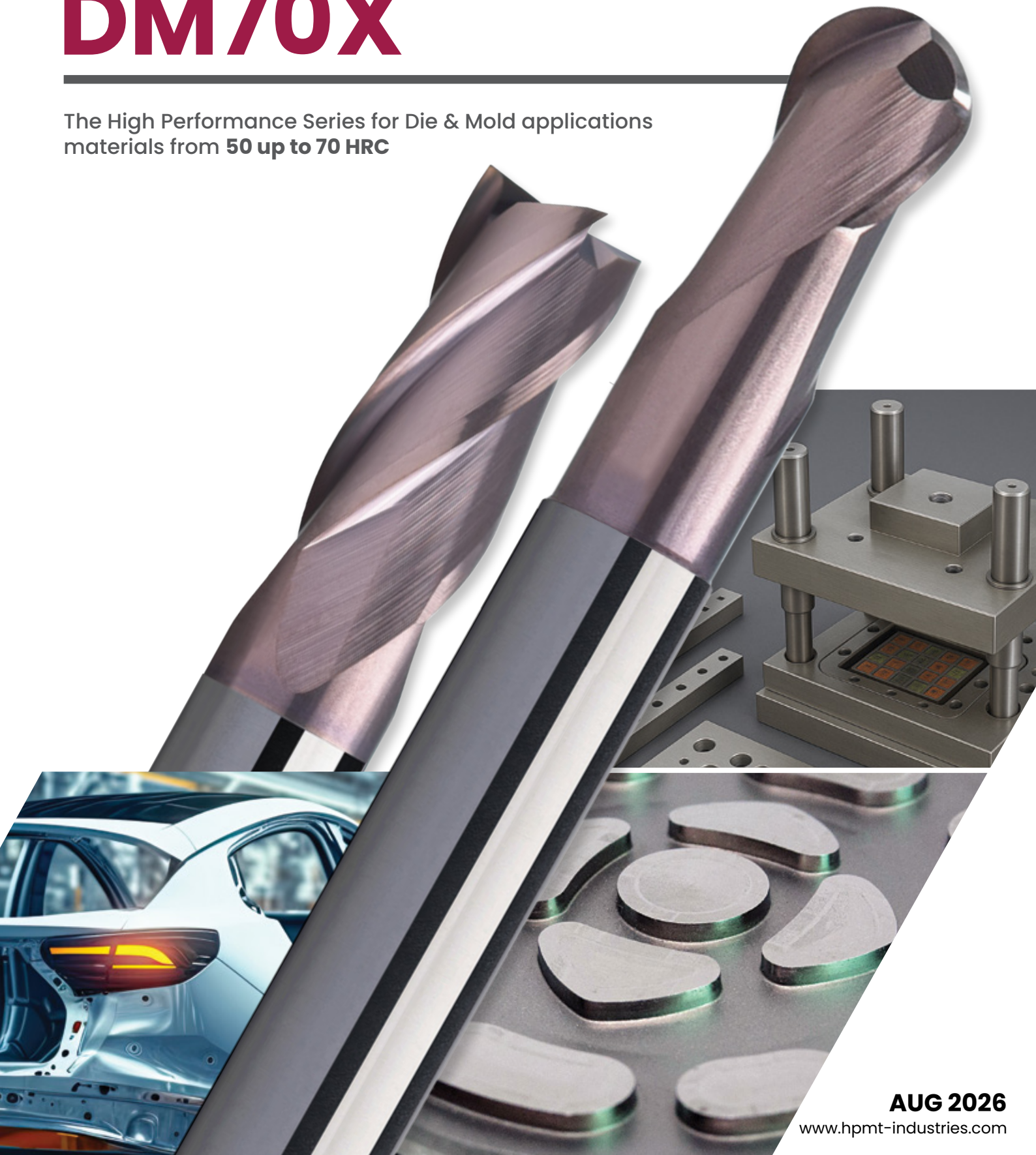


DM70X

The High Performance Series for Die & Mold applications
materials from **50 up to 70 HRC**



DM70X – SQUARE ENDMILLS

	EDP No.	Type	Z	Diameter Range	Page
	A6F	DP Straight Shank	4	1 – 20	9
	A6M	DP Straight Shank with Recess	4	1 – 20	9
	A6D	Miniature Long Neck	2	0.1 – 3	12-13
	A6E	Miniature DP Long Neck	4	1 – 6	18

DM70X – TORUS ENDMILLS

	EDP No.	Type	Z	Diameter Range	Page
	A6H	DP Straight Shank	4	1 – 20	22
	A6J	DP Straight Shank with Recess	4	1 – 20	23-24
	A6G	Miniature Long Neck	2	0.2 – 0.9	27-28
	A6G	Miniature DP Long Neck	4	1 – 6	30-33

DM70X – BALLNOSES

	EDP No.	Type	Z	Diameter Range	Page
	A6Q	Straight Shank	2	1 – 12	37
	A6R	Straight Shank with Recess	2	1 – 12	37
	A6S	Miniature Ballnose Long Neck	2	0.1 – 6	40-43

DM70 – MULTIFLUTES

	EDP No.	Type	Z	Diameter Range	Page
	K73	DH Torus with Recess	6/7	3 – 20	52
	K76	DH Square with Recess	6/7	3 – 20	50
	K77	DH Square	6/7	3 – 20	50

DM70X – HIGH FEED ENDMILLS

	EDP No.	Type	Z	Diameter Range	Page
	M17	High Feed Endmill with Recess	4/6	1 – 16	55

INTRODUCTION



OVERCOMING THE CHALLENGES OF HARD MATERIAL MACHINING IN DIE & MOLD MANUFACTURING

Are you having difficulty achieving superior surface finishes, long tool life, and consistent performance when machining hardened materials? The DM70X Series is engineered specifically for these demands, delivering a complete tooling solution optimized for materials in the 50–70 HRC range.

EXTENDED TOOL LIFE, MAXIMUM UPTIME

Built for endurance, DM70X features a reinforced structure and next-generation B0909X coating that withstands extreme heat and abrasion — delivering up to 3x longer tool life. Fewer tool changes mean reduced downtime and lower production costs.

SUPERIOR SURFACE FINISH, LESS POST-PROCESSING

Precision-engineered geometry and cutting-edge edge treatment enable surface roughness as fine as Ra 0.160 μm and Sa 0.165 μm . That means less polishing, faster turnaround, and higher-quality parts straight off the machine.

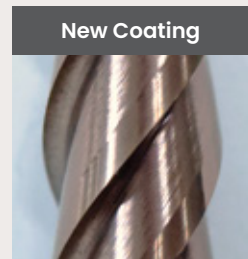
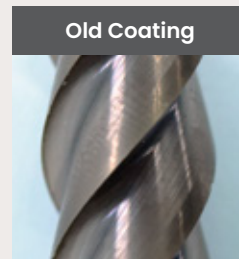
COMPLETE TOOLING COVERAGE FOR EVERY OPERATION

Whether it's roughing, profiling, semi-finishing, or finishing, DM70X provides the right tool. Choose from a wide range of Square, Torus, Ballnose, Multiflute, and Micro Tools — all optimized for hardened materials.

DM70X FEATURES & BENEFITS

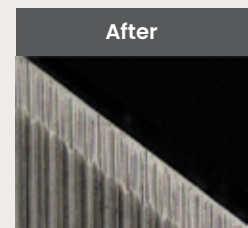
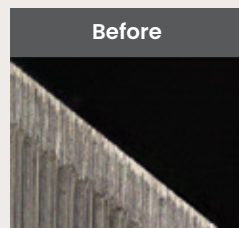
NEW B0909X COATING WITH HIGHER SILICON CONTENT

- High heat and wear resistance for longer tool life when machining hardened steels.
- Maintains performance under high-speed conditions for stable machining.



SUPREME EDGE TECHNOLOGY

- Uniform cutting edges ensure consistent machining.
- Smooth edge surface enhances coating adhesion and chip flow for superior surface finishing.
- Reduced friction and abrasion resistance contribute to longer tool life.



DISCONTINUED LISTING



DM70X vs DM70 vs SE60 / BN60

TYPE		DM70X	DM70	SE60 / BN60
SQUARE ENDMILLS	Straight Shank	A6F	A5F	A35
	Straight Shank (Recess)	A6M	A5M	-
	Long Neck	A6D	A5D	A03
	Long Neck	A6E	A5E	-
TORUS ENDMILLS	Straight Shank	A6H	A5H	A50
	Straight Shank (Recess)	A6J	A5J	-
	Long Neck	A6G (Z2 & Z4)	A5G (Z2 & Z4)	A79
BALLNOSE CUTTERS	Straight Shank	A6Q	A5Q	A69
	Straight Shank (Recess)	A6R	A5R	A70
	Long Neck	A6S	A5S	A76
MULTIFLUTES	Straight Shank	K73	K73	-
	Straight Shank	K77	K77	A42
	Straight Shank (Recess)	K76	K76	A43

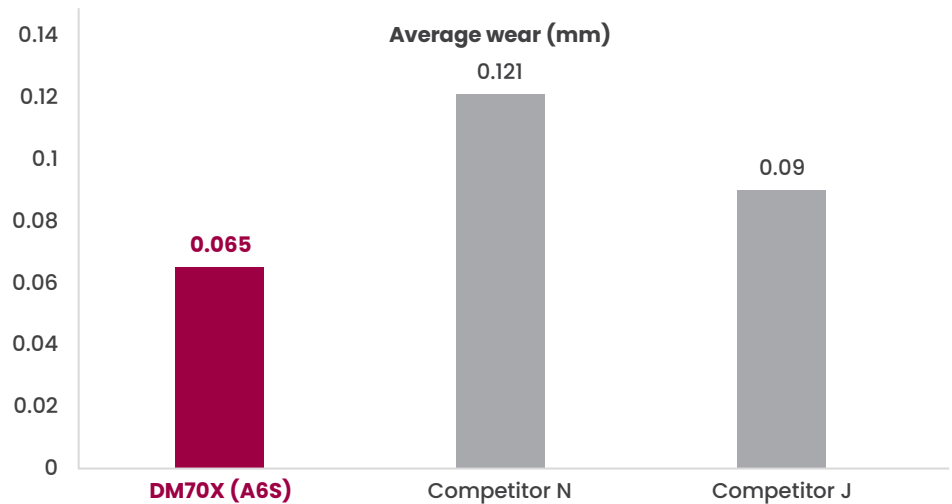
CASE STUDY 1

A6S



FACE MILLING

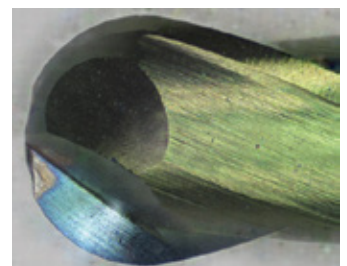
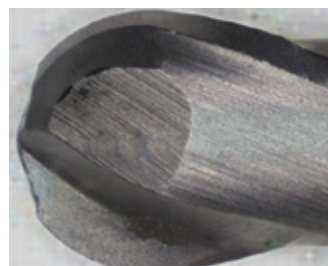
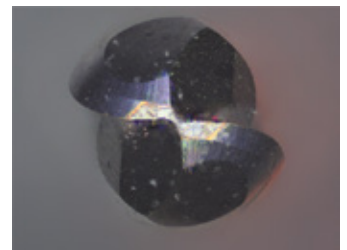
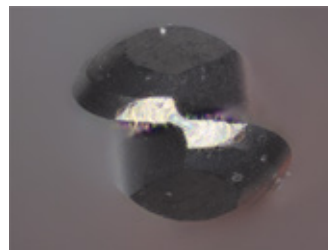
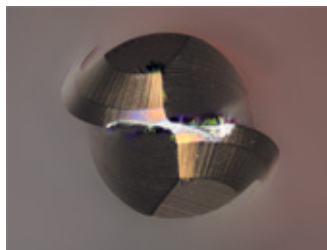
Tool Design	Miniature Long Neck, 2 Flute
Workpiece Material	SKD 11 (58 HRC)
Tool Diameter	Ø1 mm
Cutting Speed	30,000 rpm
Feed Rate	1,800 mm/min
Ap	0.02 mm
Ae	0.03 mm
Machining Time	2 hours 20 mins
Machine	Jing Diao



DM70X (A6S)

COMPETITOR N

COMPETITOR J



DM70X (A6S) has 40% longer tool life than Competitor J and 90% longer tool life than Competitor N.

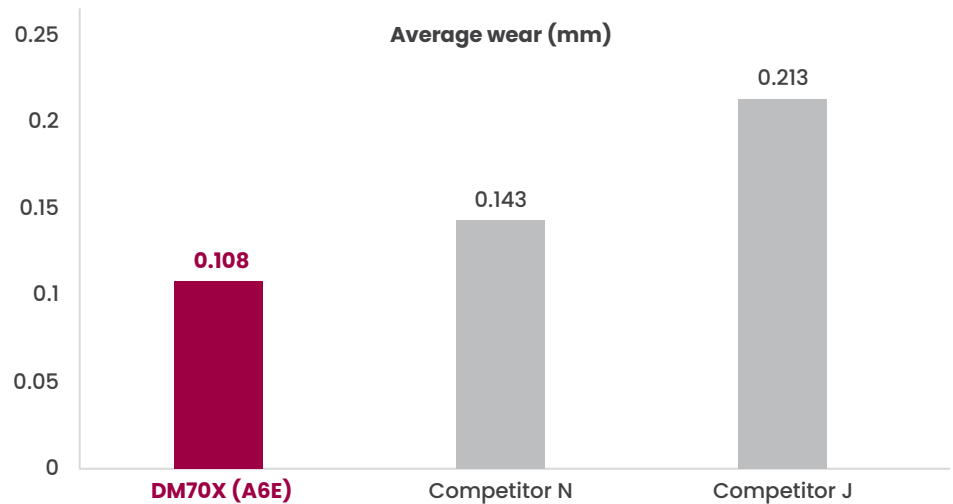
CASE STUDY 2

A6E

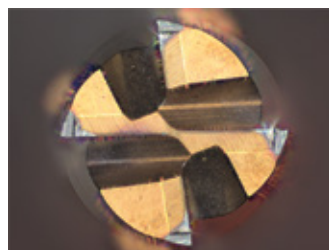


FACE MILLING

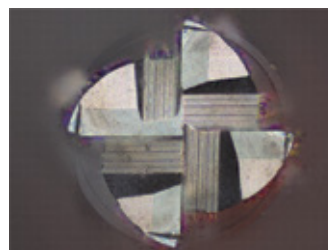
Tool Design	Miniature Long Neck, 4 Flute
Workpiece Material	STAVAX (52 HRC)
Tool Diameter	Ø1 mm
Cutting Speed	18,000 rpm
Feed Rate	1,500 mm/min
Ap	0.01 mm
Ae	0.25 mm
Machining Time	1 hour 9 mins
Machine	Jing Diao



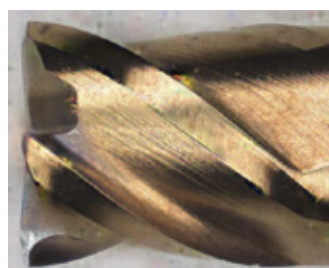
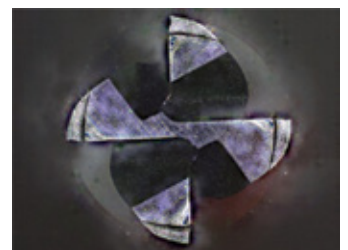
DM70X (A6E)



COMPETITOR N



COMPETITOR J

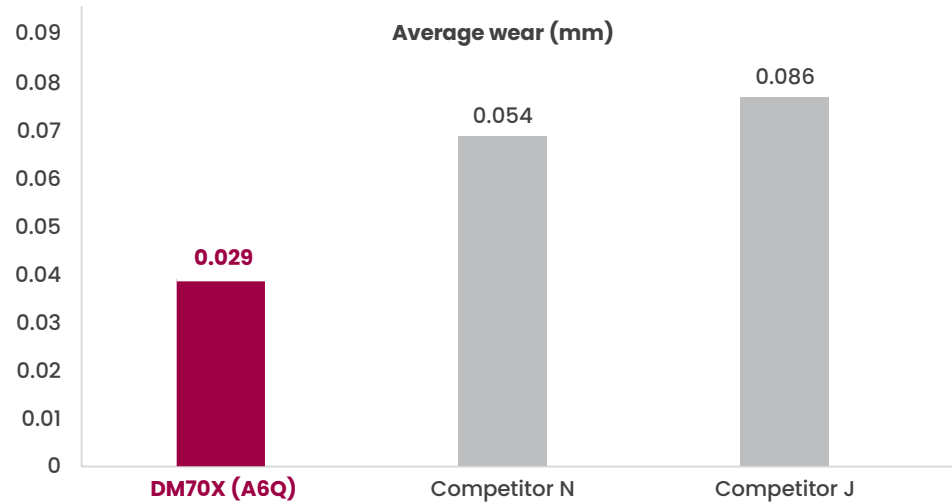


DM70X (A6E) has 300% longer tool life than Competitor J and 30% longer tool life than Competitor N.

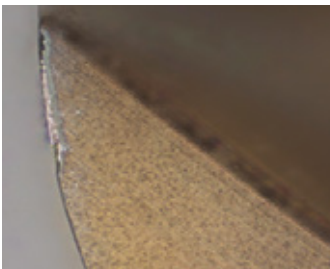
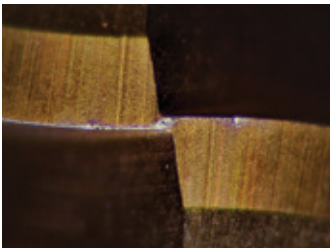
A6Q



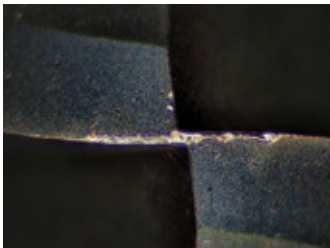
FACE MILLING	
Tool Design	Ballnose Cutter, 2 Flute
Workpiece Material	SKD 11 (58 HRC)
Tool Diameter	Ø6 mm
Cutting Speed	9,000 rpm
Feed Rate	3,000 mm/min
Ap	0.028 mm
Ae	0.07 mm
Machining Time	1 hour 30 mins
Machine	Makino



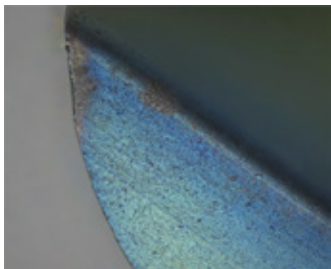
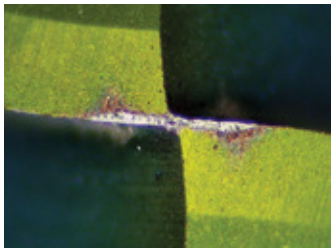
DM70X (A6Q)



COMPETITOR N



COMPETITOR J



DM70X (A6Q) has 80% longer tool life than competitor N and 100% longer tool life than competitor J.

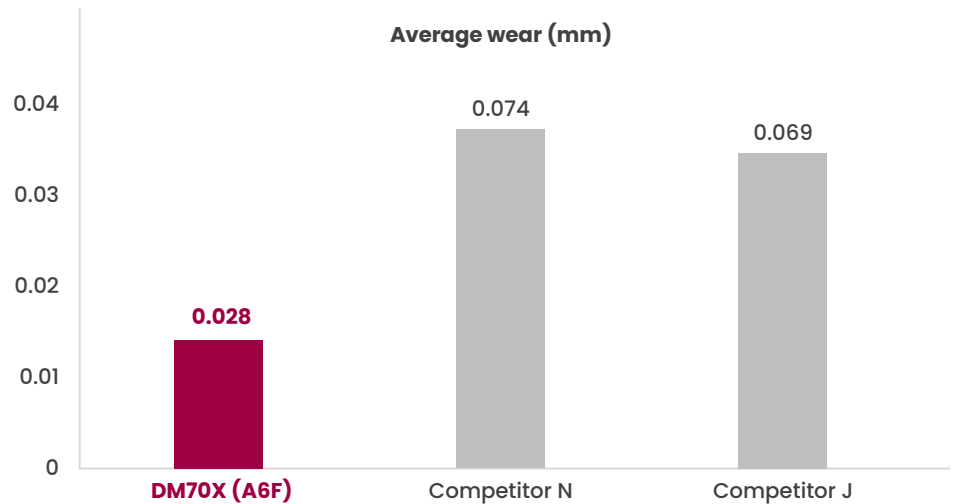
CASE STUDY 4

A6F



SIDE MILLING

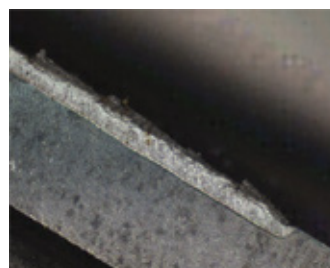
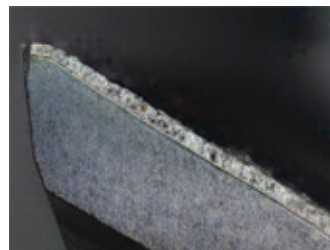
Tool Design	Standard Endmill, 4 Flute
Workpiece Material	SKD 11 (58 HRC)
Tool Diameter	Ø6 mm
Cutting Speed	8,000 rpm
Feed Rate	4,000 mm/min
Ap	6.0 mm
Ae	0.1 mm
Machining Time	2 hours 46 mins
Machine	Makino



DM70X (A6F)

COMPETITOR N

COMPETITOR J



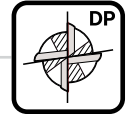
DM70X (A6F) has 200% longer tool life compared to competitor N and 150% longer tool life compared to competitor J.

A6F



Differential Pitch (DP)

- Reduces chatter to provide excellent surface finishing.



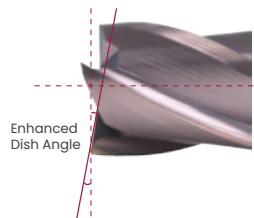
Enhanced Gash Land

- Reinforces corner strength to resist chipping and premature wear.
- Increases mechanical strength for better performance under high cutting forces.
- Improves cutting stability for longer tool life and reliable machining.



Enhanced Dish Angle

- Minimizes irregular tool movement to reduce wear, ensuring longer tool life.



A6F

DP
Straight Shank

A6M

DP
Straight Shank
with Recess

A6F/A6M

DM70X DP Endmill / with Recess, 4 Flutes



A6F (Straight Shank)



A6M (with Recess)



Order Number	Dimension (mm)						Stock
	D	I1	I2	L	d1	d2(h5)	
A6F 0100 050 04	1	2.5		50		4	●
A6F 0100 050 06				50		6	●
A6F 0150 050 04	1.5	4		50		4	●
A6F 0150 050 06				50		6	●
A6F 0200 050 04	2	6		50		4	●
A6F 0200 050 06				50		6	●
A6F 0250 050 04	2.5	8		50		4	●
A6F 0250 050 06				50		6	●
A6F 0300 050 04	3			50		4	●
A6F 0300 050 06				50		6	●
A6F 0400 050 04	4	11		50		4	●
A6F 0400 050 06				50		6	●
A6F 0400 075 04		15		75		4	●
A6F 0500 060 06	5			60		6	●
A6F 0600 060 06 13		13		60		6	●
A6F 0600 060 06 20	6	20		60		6	●
A6F 0600 075 06		15		75		6	●
A6F 0600 100 06		20		100		6	●
A6F 0800 075 08	8			75		8	●
A6F 0800 100 08		25		100		8	●
A6F 1000 075 10		22		75		10	●
A6F 1000 100 10 25		25		100		10	●
A6F 1000 100 10 30	10			100		10	●
A6F 1000 125 10		30		125		10	●
A6F 1000 150 10				150		10	●
A6F 1200 075 12		25		75		12	●
A6F 1200 100 12 30		30		100		12	●
A6F 1200 100 12 35		35		100		12	●
A6F 1200 150 12	12			150		12	●
A6F 1600 090 16 32	16	32		90		16	●
A6F 2000 100 20 40	20	40		100		20	●

Order Number	Dimension (mm)						Stock
	D	I1	I2	L	d1	d2(h5)	
A6M 0100 050 04	1	2.5	4	50		4	●
A6M 0100 050 06			6	50		6	●
A6M 0150 050 04	1.5	4	6	50		4	●
A6M 0150 050 06			9	50		6	●
A6M 0200 050 04	2	6	8	50		4	●
A6M 0200 050 06			12	50		6	●
A6M 0250 050 04	2.5	8	10	50		4	▲
A6M 0250 050 06			15	50		6	●
A6M 0300 050 04	3		12	50		4	●
A6M 0300 050 06			15	50		6	●
A6M 0400 050 04	4	11	16	50		4	●
A6M 0400 050 06			20	50		6	●
A6M 0400 075 04		15	20	75		4	●
A6M 0500 060 06	5		20	60		6	●
A6M 0600 060 06 13		13	22	60		6	●
A6M 0600 060 06 20	6	20	24	60		6	●
A6M 0600 075 06		15	20	75		6	●
A6M 0600 100 06		20	24	100		6	▲
A6M 0800 075 08	8		25	75		8	●
A6M 0800 100 08		25	30	100		8	●
A6M 1000 075 10		22	30	75		10	●
A6M 1000 100 10 25		25	30	100		10	▲
A6M 1000 100 10 30	10		35	100		10	●
A6M 1000 125 10		30	35	125		10	▲
A6M 1000 150 10			35	150		10	●
A6M 1200 075 12		25	35	75		12	●
A6M 1200 100 12 30		30	35	100		12	●
A6M 1200 100 12 35		35	40	100		12	●
A6M 1200 150 12	12		40	150		12	▲
A6M 1600 090 16 32	16	32	48	90		16	●
A6M 2000 100 20 40	20	40	60	100		20	▲

	Germany	France	Italy	China
● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

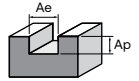
Diameter (mm)	Tolerance
<1	+0 ~ -0.005
1 ≤ D ≤ 2.5	+0 ~ -0.010
2.5 ≤ D ≤ 6	+0 ~ -0.015
6 < D ≤ 10	-0.005 ~ -0.020
>10	-0.010 ~ -0.025

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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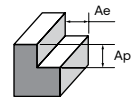


DM70X Endmill, 4 Flutes – A6F, A6M



Slotting	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 < HRC ≤ 65		65 < HRC ≤ 70	
Ap (mm)	0.02 x D		0.01 x D		0.01 x D	
Ae (mm)	0.40 x D		0.40 x D		0.40 x D	
D	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	70	0.035	60	0.015	50	0.014
1.5		0.058		0.024		0.022
2		0.080		0.032		0.030
2.5		0.108		0.043		0.040
3		0.135		0.053		0.050
4		0.190		0.076		0.072
5		0.243		0.097		0.092
6		0.300		0.121		0.115
8		0.402		0.160		0.152
10		0.480		0.198		0.188
12		0.560		0.230		0.219
16		0.640		0.251		0.240
20		0.660		0.255		0.250

DM70X Endmill, 4 Flutes – A6F, A6M



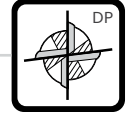
Side Milling	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 < HRC ≤ 65		65 < HRC ≤ 70	
Ap (mm)	1.00 – 1.50 × D		1.00 – 1.50 × D		1.00 – 1.50 × D	
Ae (mm)	0.030 x D		0.020 x D		0.015 x D	
D	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	200	0.006	150	0.006	100	0.005
2		0.014		0.012		0.011
3		0.022		0.020		0.019
4		0.031		0.029		0.026
5		0.047		0.045		0.040
6		0.073		0.064		0.058
8		0.094		0.085		0.078
10		0.113		0.103		0.092
12		0.125		0.114		0.103
16		0.157		0.143		0.129
20		0.188		0.171		0.155

A6E



Differential Pitch (DP)

- Reduces chatter to provide excellent surface finishing.



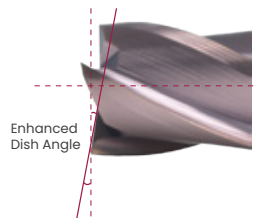
Enhanced Gash Land

- Reinforces corner strength to resist chipping and premature wear.
- Increases mechanical strength for better performance under high cutting forces.
- Improves cutting stability for longer tool life and reliable machining.



Enhanced Dish Angle

- Minimizes irregular tool movement to reduce wear, ensuring longer tool life.



A6D

Miniature
Long Neck
2 Flute

A6E

Miniature DP
Long Neck
4 Flute



A6D



Order Number	Dimension (mm)						Stock
	D	l1	l2	L	d1	d2(h5)	
A6D 0010 050 0400	0.1	0.08	-	50	-	4	○
A6D 0010 050 0400 0030			0.3	50	0.085	4	○
A6D 0010 050 0400 0050			0.5	50	0.085	4	○
A6D 0010 050 0400 0075			0.75	50	0.085	4	○
A6D 0010 050 0400 0100			1	50	0.085	4	○
A6D 0015 050 0400	0.15	0.12	-	50	-	4	○
A6D 0015 050 0400 0030			0.3	50	0.13	4	○
A6D 0015 050 0400 0050			0.5	50	0.13	4	○
A6D 0015 050 0400 0075			0.75	50	0.13	4	○
A6D 0015 050 0400 0100			1	50	0.13	4	○
A6D 0015 050 0400 0150			1.5	50	0.13	4	○
A6D 0020 050 0400	0.2	0.15	-	50	-	4	○
A6D 0020 050 0400 0050			0.5	50	0.18	4	○
A6D 0020 050 0400 0075			0.75	50	0.18	4	○
A6D 0020 050 0400 0100			1	50	0.18	4	●
A6D 0020 050 0400 0150			1.5	50	0.18	4	○
A6D 0020 050 0400 0200			2	50	0.18	4	○
A6D 0020 050 0400 0250	0.2	0.15	2.5	50	0.18	4	○
A6D 0020 050 0400 0300			3	50	0.18	4	○
A6D 0030 050 0400	0.3	0.25	-	50	-	4	●
A6D 0030 050 0400 0100			1	50	0.28	4	●
A6D 0030 050 0400 0150			1.5	50	0.28	4	●
A6D 0030 050 0400 0200			2	50	0.28	4	●
A6D 0030 050 0400 0250			2.5	50	0.28	4	●
A6D 0030 050 0400 0300			3	50	0.28	4	●
A6D 0040 050 0400	0.4	0.3	-	50	-	4	●
A6D 0040 050 0400 0100			1	50	0.37	4	▲
A6D 0040 050 0400 0150			1.5	50	0.37	4	▲
A6D 0040 050 0400 0200			2	50	0.37	4	●
A6D 0040 050 0400 0250			2.5	50	0.37	4	▲
A6D 0040 050 0400 0300			3	50	0.37	4	▲
A6D 0040 050 0400 0350	0.4	0.3	3.5	50	0.37	4	▲
A6D 0040 050 0400 0400			4	50	0.37	4	▲
A6D 0040 050 0400 0500			5	50	0.37	4	▲
A6D 0040 050 0400 0600			6	50	0.37	4	▲
A6D 0040 050 0400 0800			8	50	0.37	4	▲
A6D 0040 050 0400 1000			10	50	0.37	4	▲
A6D 0050 050 0400	0.5	0.4	-	50	-	4	●
A6D 0050 050 0400 0100			1	50	0.46	4	●
A6D 0050 050 0400 0150			1.5	50	0.46	4	●
A6D 0050 050 0400 0200			2	50	0.46	4	●
A6D 0050 050 0400 0250			2.5	50	0.46	4	▲
A6D 0050 050 0400 0300			3	50	0.46	4	▲
A6D 0050 050 0400 0350			3.5	50	0.46	4	▲
A6D 0050 050 0400 0400	0.5	0.4	4	50	0.46	4	▲
A6D 0050 050 0400 0450			4.5	50	0.46	4	▲
A6D 0050 050 0400 0500			5	50	0.46	4	▲
A6D 0050 050 0400 0600			6	50	0.46	4	●
A6D 0050 050 0400 0700			7	50	0.46	4	▲
A6D 0050 050 0400 0800	0.5	0.4	8	50	0.46	4	●
A6D 0050 050 0400 0900			9	50	0.46	4	▲
A6D 0050 050 0400 1000			10	50	0.46	4	●
A6D 0060 050 0400	0.6	0.5	-	50	-	4	●
A6D 0060 050 0400 0150			1.5	50	0.56	4	▲
A6D 0060 050 0400 0200			2	50	0.56	4	●
A6D 0060 050 0400 0300			3	50	0.56	4	▲
A6D 0060 050 0400 0400			4	50	0.56	4	●
A6D 0060 050 0400 0500			5	50	0.56	4	●
A6D 0060 050 0400 0600			6	50	0.56	4	●
A6D 0060 050 0400 0800			8	50	0.56	4	●
A6D 0070 050 0400	0.7	0.55	-	50	-	4	●
A6D 0070 050 0400 0200			2	50	0.66	4	▲
A6D 0070 050 0400 0400			4	50	0.66	4	●
A6D 0070 050 0400 0600			6	50	0.66	4	●
A6D 0070 050 0400 0800			8	50	0.66	4	▲
A6D 0070 050 0400 1000			10	50	0.66	4	▲
A6D 0080 050 0400	0.8	0.65	-	50	-	4	●
A6D 0080 050 0400 0300			3	50	0.76	4	●
A6D 0080 050 0400 0400			4	50	0.76	4	●
A6D 0080 050 0400 0500			5	50	0.76	4	▲
A6D 0080 050 0400 0600			6	50	0.76	4	●
A6D 0080 050 0400 0800			8	50	0.76	4	●
A6D 0080 050 0400 1000			10	50	0.76	4	●
A6D 0080 050 0400 1200			12	50	0.76	4	●
A6D 0100 050 0400	1	0.8	-	50	-	4	●
A6D 0100 050 0400 0200			2	50	0.95	4	●
A6D 0100 050 0400 0300			3	50	0.95	4	●
A6D 0100 050 0400 0400			4	50	0.95	4	●
A6D 0100 050 0400 0500			5	50	0.95	4	●
A6D 0100 050 0400 0600			6	50	0.95	4	●
A6D 0100 050 0400 0700			7	50	0.95	4	▲
A6D 0100 050 0400 0800			8	50	0.95	4	●
A6D 0100 050 0400 0900			9	50	0.95	4	▲
A6D 0100 050 0400 1000			10	50	0.95	4	●
A6D 0100 050 0400 1200			12	50	0.95	4	●
A6D 0100 050 0400 1400			14	50	0.95	4	▲
A6D 0100 050 0400 1600			16	50	0.95	4	●
A6D 0100 060 0400 1800			-	60	0.95	4	▲

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Tolerance
<1	+0 ~ -0.005
1 ≤ D ≤ 2.5	+0 ~ -0.010
2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6D DM70X Miniature Endmill with Long Neck, 2 Flutes



A6D



Order Number	Dimension (mm)						Stock
	D	l2	l2	L	d1	d2(h5)	
A6D 0100 060 0400 2000	1	0.8	20	60	0.95	4	▲
A6D 0100 060 0400 2200			22	60	0.95	4	●
A6D 0120 050 0400			-	50	-	4	○
A6D 0120 050 0400 0600	1.2	1	6	50	1.15	4	○
A6D 0120 050 0400 0800			8	50	1.15	4	○
A6D 0120 050 0400 1000			10	50	1.15	4	○
A6D 0120 050 0400 1200			12	50	1.15	4	○
A6D 0120 050 0400 1600			16	50	1.15	4	○
A6D 0140 050 0400	1.4	1.1	-	50	-	4	●
A6D 0140 050 0400 0600			6	50	1.35	4	▲
A6D 0140 050 0400 1200			12	50	1.35	4	▲
A6D 0150 050 0400	1.5	1.2	-	50	-	4	●
A6D 0150 050 0400 0400			4	50	1.45	4	●
A6D 0150 050 0400 0600			6	50	1.45	4	●
A6D 0150 050 0400 0800			8	50	1.45	4	●
A6D 0150 050 0400 1000			10	50	1.45	4	●
A6D 0150 050 0400 1200			12	50	1.45	4	●
A6D 0150 050 0400 1400			14	50	1.45	4	▲
A6D 0150 050 0400 1600			16	50	1.45	4	●
A6D 0150 060 0400			0	60	-	4	○
A6D 0150 060 0400 1800			18	60	1.45	4	○
A6D 0150 060 0400 2000			20	60	1.45	4	○
A6D 0150 075 0400			-	75	0	4	○
A6D 0150 075 0400 2500			25	75	1.45	4	○
A6D 0150 075 0400 3000			30	75	1.45	4	○
A6D 0150 075 0400 3500			35	75	1.45	4	○
A6D 0160 050 0400	1.6	1.3	0	50	-	4	●
A6D 0160 050 0400 0600			6	50	1.55	4	▲
A6D 0160 050 0400 0800			8	50	1.55	4	●
A6D 0180 050 0400	1.8	1.4	-	50	-	4	○
A6D 0180 050 0400 0600			6	50	1.75	4	○
A6D 0180 050 0400 0800			8	50	1.75	4	○
A6D 0180 050 0400 1000			10	50	1.75	4	○
A6D 0180 050 0400 1200			12	50	1.75	4	○
A6D 0180 050 0400 1400			14	50	1.75	4	○
A6D 0180 050 0400 1600			16	50	1.75	4	○
A6D 0180 060 0400			-	60	-	4	○
A6D 0180 060 0400 1800	2	1.6	18	60	1.75	4	○
A6D 0200 050 0400			-	50	-	4	●
A6D 0200 050 0400 0400			4	50	1.94	4	▲
A6D 0200 050 0400 0600			6	50	1.94	4	●
A6D 0200 050 0400 0800			8	50	1.94	4	●
A6D 0200 050 0400 1000			10	50	1.94	4	●
A6D 0200 050 0400 1200			12	50	1.94	4	●

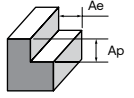
Order Number	Dimension (mm)						Stock
	D	l2	l2	L	d1	d2(h5)	
A6D 0200 050 0400 1400	2	1.6	14	50	1.94	4	●
A6D 0200 050 0400 1600			16	50	1.94	4	●
A6D 0200 060 0400			0	60	0	4	●
A6D 0200 060 0400 1800			18	60	1.94	4	○
A6D 0200 060 0400 2000			20	60	1.94	4	●
A6D 0200 075 0400			0	75	0	4	●
A6D 0200 075 0400 2500			25	75	1.94	4	●
A6D 0200 075 0400 3000			30	75	1.94	4	▲
A6D 0200 075 0400 3500			35	75	1.94	4	▲
A6D 0200 100 0400			0	100	0	4	○
A6D 0200 100 0400 4000	2.5	2	40	100	1.94	4	○
A6D 0200 100 0400 5000			50	100	1.94	4	○
A6D 0250 050 0400			0	50	0	4	●
A6D 0250 050 0400 0800			8	50	2.4	4	▲
A6D 0250 050 0400 1200			12	50	2.4	4	●
A6D 0250 050 0400 1600			16	50	2.4	4	▲
A6D 0250 060 0400			0	60	0	4	●
A6D 0250 060 0400 2000			20	60	2.4	4	●
A6D 0250 075 0400			0	75	0	4	○
A6D 0250 075 0400 3000			30	75	2.4	4	○
A6D 0250 100 0400	3	4.5	0	100	0	4	●
A6D 0250 100 0400 4000			40	100	2.4	4	●
A6D 0250 100 0400 5000			50	100	2.4	4	▲
A6D 0300 050 0600			0	50	0	6	●
A6D 0300 050 0600 0800			8	50	2.85	6	●
A6D 0300 050 0600 1200			12	50	2.85	6	●
A6D 0300 050 0600 1600			16	50	2.85	6	●
A6D 0300 060 0600			0	60	0	6	○
A6D 0300 060 0600 2000			20	60	2.85	6	○
A6D 0300 075 0600			0	75	0	6	●
A6D 0300 075 0600 2500			25	75	2.85	6	▲
A6D 0300 075 0600 3000			30	75	2.85	6	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Tolerance
<1	+0 ~ -0.005
1 ≤ D ≤ 2.5	+0 ~ -0.010
2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

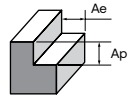
N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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DM70X Miniature Endmill with Long Neck, 2 Flutes – A6D

Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
0.1	-	0.003	0.050	14	120	0.002	0.050	13	40
	0.3	0.003	0.050	14	120	0.002	0.050	13	40
	0.5	0.003	0.050	14	80	0.002	0.050	13	40
	0.75	0.002	0.050	14	70	0.001	0.050	13	40
	1	0.001	0.050	14	50	0.001	0.050	13	40
0.15	-	0.003	0.075	21	150	0.002	0.075	19	50
	0.3	0.003	0.075	21	150	0.002	0.075	19	50
	0.5	0.003	0.075	21	120	0.002	0.075	19	50
	0.75	0.002	0.075	21	100	0.001	0.075	19	50
	1	0.001	0.075	21	80	0.001	0.075	19	50
	1.5	0.001	0.075	21	60	0.001	0.075	19	40
0.2	-	0.003	0.100	21	180	0.003	0.100	19	60
	0.5	0.003	0.100	21	180	0.003	0.100	19	60
	0.75	0.003	0.100	21	150	0.003	0.100	19	60
	1	0.003	0.100	21	120	0.003	0.100	19	60
	1.5	0.002	0.100	21	60	0.002	0.100	19	60
	2	0.002	0.100	21	60	0.002	0.100	19	60
	2.5	0.001	0.100	21	50	0.001	0.100	16	50
	3	0.001	0.100	17	40	0.001	0.100	16	40
0.3	-	0.003	0.150	31	410	0.003	0.150	28	290
	1	0.003	0.150	31	300	0.003	0.150	28	240
	1.5	0.003	0.150	31	180	0.003	0.150	28	180
	2	0.003	0.150	31	120	0.003	0.150	28	120
	2.5	0.002	0.150	26	100	0.002	0.150	24	50
	3	0.002	0.150	26	50	0.002	0.150	24	50
0.4	-	0.005	0.200	41	400	0.005	0.200	38	350
	1	0.005	0.200	41	360	0.005	0.200	38	300
	1.5	0.005	0.200	41	360	0.005	0.200	38	300
	2	0.005	0.200	41	300	0.005	0.200	31	250
	2.5	0.005	0.200	35	290	0.004	0.200	31	250
	3	0.004	0.200	35	260	0.003	0.200	25	220
	3.5	0.004	0.200	35	240	0.003	0.200	25	200
	4	0.003	0.200	35	200	0.002	0.200	25	160
	5	0.003	0.200	30	180	0.002	0.200	25	150
	6	0.002	0.200	30	150	0.002	0.200	23	130
	8	0.001	0.200	22	120	0.001	0.200	18	90
	10	0.001	0.200	18	80	0.001	0.200	15	50

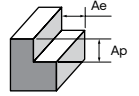
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DM70X Miniature Endmill with Long Neck, 2 Flutes – A6D

Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
0.5	-	0.010	0.250	43	530	0.007	0.250	36	500
	1	0.010	0.250	43	500	0.007	0.250	36	410
	1.5	0.010	0.250	43	450	0.007	0.250	36	400
	2	0.010	0.250	43	420	0.007	0.250	36	380
	2.5	0.008	0.250	43	400	0.006	0.250	36	360
	3	0.007	0.250	43	350	0.005	0.250	36	320
	3.5	0.006	0.250	43	320	0.003	0.250	36	280
	4	0.005	0.250	43	290	0.003	0.250	36	220
	4.5	0.004	0.250	43	230	0.003	0.250	31	200
	5	0.003	0.250	35	230	0.003	0.250	28	180
	6	0.003	0.250	35	200	0.002	0.250	28	140
	7	0.003	0.250	28	180	0.002	0.250	22	140
	8	0.002	0.250	28	160	0.002	0.250	22	130
	9	0.002	0.250	28	150	0.001	0.250	22	120
	10	0.002	0.250	22	130	0.001	0.250	19	110
0.6	-	0.010	0.300	52	590	0.007	0.300	43	450
	1.5	0.010	0.300	52	550	0.007	0.300	43	450
	2	0.010	0.300	52	500	0.007	0.300	43	360
	3	0.007	0.300	52	450	0.005	0.300	43	320
	4	0.005	0.300	52	400	0.003	0.300	43	280
	5	0.003	0.300	41	340	0.003	0.300	34	230
	6	0.002	0.300	41	280	0.002	0.300	34	180
	8	0.002	0.300	33	200	0.002	0.300	34	70
0.7	-	0.020	0.350	60	770	0.014	0.350	51	650
	2	0.020	0.350	60	675	0.014	0.350	51	600
	4	0.018	0.350	60	600	0.011	0.350	51	480
	6	0.014	0.350	58	540	0.009	0.350	47	425
	8	0.013	0.350	54	465	0.007	0.350	44	365
	10	0.005	0.350	43	370	0.004	0.350	35	260
0.8	-	0.030	0.400	69	950	0.020	0.400	58	850
	3	0.030	0.400	69	800	0.020	0.400	58	750
	4	0.025	0.400	69	700	0.015	0.400	58	600
	5	0.020	0.400	64	630	0.012	0.400	50	530
	6	0.020	0.400	55	530	0.010	0.400	45	450
	8	0.007	0.400	44	400	0.005	0.400	35	290
	10	0.007	0.400	44	390	0.005	0.400	30	280
	12	0.005	0.400	36	380	0.003	0.400	30	270

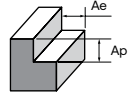
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DM70X Miniature Endmill with Long Neck, 2 Flutes – A6D

Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
1	-	0.060	0.500	72	1000	0.050	0.500	57	900
	2	0.060	0.500	72	1000	0.050	0.500	57	900
	3	0.050	0.500	72	1000	0.040	0.500	57	900
	4	0.040	0.500	72	900	0.030	0.500	57	800
	5	0.030	0.500	63	800	0.020	0.500	50	700
	6	0.020	0.500	57	700	0.010	0.500	44	600
	7	0.020	0.500	57	650	0.010	0.500	44	550
	8	0.020	0.500	50	600	0.010	0.500	38	500
	9	0.015	0.500	50	550	0.007	0.500	38	450
	10	0.010	0.500	44	500	0.007	0.500	31	400
	12	0.010	0.500	41	400	0.005	0.500	31	300
	14	0.008	0.500	41	360	0.005	0.500	31	280
	16	0.006	0.500	38	320	0.004	0.500	28	250
	18	0.006	0.500	38	240	0.004	0.500	25	200
	20	0.005	0.500	31	160	0.003	0.500	22	130
	22	0.003	0.500	31	150	0.002	0.500	19	100
1.2	-	0.030	0.600	68	700	0.020	0.600	53	600
	6	0.030	0.600	68	700	0.020	0.600	53	600
	8	0.020	0.600	60	600	0.010	0.600	45	500
	10	0.020	0.600	45	500	0.010	0.600	38	430
	12	0.010	0.600	38	500	0.007	0.600	34	400
	16	0.010	0.600	34	300	0.005	0.600	30	260
1.4	-	0.040	0.700	88	800	0.030	0.700	79	700
	6	0.040	0.700	88	800	0.030	0.700	79	700
	12	0.010	0.700	57	500	0.007	0.700	48	400
1.5	-	0.050	0.750	94	900	0.040	0.750	85	800
	4	0.050	0.750	94	900	0.040	0.750	85	800
	6	0.040	0.750	94	800	0.030	0.750	85	700
	8	0.030	0.750	85	600	0.030	0.750	66	600
	10	0.030	0.750	75	500	0.020	0.750	66	500
	12	0.020	0.750	66	500	0.020	0.750	57	430
	14	0.020	0.750	57	400	0.010	0.750	47	380
	16	0.010	0.750	47	360	0.007	0.750	42	300
	-	0.009	0.75	45	345	0.006	0.750	40	280
	18	0.008	0.750	42	330	0.005	0.750	38	260
	20	0.005	0.750	38	280	0.004	0.750	33	200
	-	0.0045	0.75	35	240	0.0035	0.750	31	175
	25	0.004	0.750	33	200	0.003	0.750	28	150
	30	0.003	0.750	28	150	0.002	0.750	24	110
	35	0.002	0.750	24	110	0.002	0.750	21	90
1.6	-	0.040	0.800	96	850	0.030	0.800	85	750
	6	0.040	0.800	96	850	0.030	0.800	85	750
	8	0.030	0.800	85	750	0.030	0.800	70	600

cont'd ►



DM70X Miniature Endmill with Long Neck, 2 Flutes – A6D

Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
1.8	-	0.050	0.900	102	900	0.040	0.900	85	750
	6	0.050	0.900	102	900	0.040	0.900	85	750
	8	0.040	0.900	90	800	0.030	0.900	68	600
	10	0.040	0.900	79	700	0.030	0.900	68	500
	12	0.030	0.900	68	600	0.020	0.900	57	500
	14	0.030	0.900	68	600	0.020	0.900	57	430
	16	0.020	0.900	57	500	0.010	0.900	52	400
	-	0.020	0.900	54	455	0.010	0.900	50	385
	18	0.020	0.900	52	410	0.010	0.900	48	370
2	-	0.080	1.000	113	1000	0.060	1.000	94	800
	4	0.080	1.000	113	1000	0.060	1.000	94	800
	6	0.060	1.000	113	900	0.050	1.000	94	750
	8	0.050	1.000	101	800	0.040	1.000	75	600
	10	0.050	1.000	88	700	0.040	1.000	75	500
	12	0.040	1.000	75	600	0.030	1.000	63	500
	14	0.030	1.000	75	600	0.020	1.000	63	430
	16	0.030	1.000	63	500	0.020	1.000	58	400
	-	0.025	1.000	60	455	0.015	1.000	56	385
	18	0.020	1.000	58	410	0.010	1.000	53	370
	20	0.020	1.000	58	380	0.010	1.000	53	340
	-	0.0175	1.000	56	355	0.009	1.000	52	320
	25	0.015	1.000	53	330	0.008	1.000	50	300
	30	0.010	1.000	47	280	0.006	1.000	44	250
	35	0.008	1.000	41	230	0.005	1.000	38	200
	-	0.0065	1.000	38	205	0.0045	1.000	35	175
	40	0.005	1.000	35	180	0.004	1.000	31	150
	50	0.004	1.000	28	100	0.003	1.000	25	80
2.5	-	0.070	1.250	110	800	0.050	1.250	79	700
	8	0.070	1.250	110	800	0.050	1.250	79	700
	12	0.060	1.250	94	700	0.040	1.250	75	600
	16	0.050	1.250	79	600	0.020	1.250	67	500
	-	0.050	1.250	71	550	0.020	1.250	63	500
	20	0.050	1.250	64	500	0.020	1.250	59	500
	-	0.038	1.250	60	400	0.018	1.250	53	375
	30	0.025	1.250	55	300	0.015	1.250	47	250
	-	0.019	1.250	49	250	0.013	1.250	43	215
	40	0.012	1.250	43	200	0.010	1.250	39	180
	50	0.008	1.250	35	120	0.005	1.250	31	100
3	-	0.100	1.500	132	900	0.070	1.500	94	800
	8	0.100	1.500	132	900	0.070	1.500	94	800
	12	0.080	1.500	113	800	0.060	1.500	87	700
	16	0.070	1.500	94	700	0.050	1.500	80	600
	-	0.070	1.500	90	700	0.045	1.500	77	600
	20	0.070	1.500	85	700	0.040	1.500	74	600
	-	0.065	1.500	81	650	0.035	1.500	70	550
	25	0.060	1.500	77	600	0.030	1.500	66	500
	30	0.030	1.500	66	600	0.020	1.500	61	500

A6E

DM70X Miniature DP Endmill with Long Neck, 4 Flutes

HPMT



A6E



Order Number	Dimension (mm)						Stock
	D	l1	l2	L	d1	d2(h5)	
A6E 0100 050 0400	1	0.8	-	50	-	4	●
A6E 0100 050 0400 040			4	50	0.95	4	●
A6E 0100 050 0400 060			6	50	0.95	4	▲
A6E 0100 050 0400 080			8	50	0.95	4	●
A6E 0100 050 0400 100			10	50	0.95	4	●
A6E 0120 050 0400	1.2	1	-	50	-	4	○
A6E 0120 050 0400 060			6	50	1.15	4	○
A6E 0120 050 0400 080			8	50	1.15	4	○
A6E 0120 050 0400 100	1.5	1.2	10	50	1.15	4	○
A6E 0120 050 0400 120			12	50	1.15	4	○
A6E 0150 050 0400			-	50	-	4	●
A6E 0150 050 0400 060			6	50	1.45	4	▲
A6E 0150 050 0400 080			8	50	1.45	4	▲
A6E 0150 050 0400 100	1.8	1.4	10	50	1.45	4	●
A6E 0150 050 0400 120			12	50	1.45	4	▲
A6E 0150 050 0400 140			14	50	1.45	4	▲
A6E 0150 050 0400 160			16	50	1.45	4	●
A6E 0180 050 0400			-	50	-	4	●
A6E 0180 050 0400 060	2	1.6	6	50	1.74	4	▲
A6E 0180 050 0400 080			8	50	1.74	4	▲
A6E 0180 050 0400 100			10	50	1.74	4	▲
A6E 0180 050 0400 120			12	50	1.74	4	▲
A6E 0180 050 0400 140			14	50	1.74	4	▲
A6E 0180 050 0400 160	2.5	2	16	50	1.74	4	●
A6E 0180 060 0400 180			18	60	1.74	4	○
A6E 0200 050 0400			-	50	-	4	●
A6E 0200 050 0400 060			6	50	1.94	4	●
A6E 0200 050 0400 080			8	50	1.94	4	●
A6E 0200 050 0400 100	3	2.4	10	50	1.94	4	●
A6E 0200 050 0400 120			12	50	1.94	4	●
A6E 0200 050 0400 140			14	50	1.94	4	▲
A6E 0200 050 0400 160			16	50	1.94	4	●
A6E 0200 060 0400 180			18	60	1.94	4	▲
A6E 0200 060 0400 200	4	3	20	60	1.94	4	●
A6E 0250 050 0400			-	50	-	4	●
A6E 0250 050 0400 080			8	50	2.4	4	●
A6E 0250 050 0400 120			12	50	2.4	4	●
A6E 0250 050 0400 160			16	50	2.4	4	▲
A6E 0250 060 0400	5	4	-	60	-	4	○
A6E 0250 060 0400 200			20	60	2.4	4	●
A6E 0250 075 0400			-	75	-	4	○
A6E 0250 075 0400 250			25	75	2.4	4	○

Order Number	Dimension (mm)						Stock
	D	l1	l2	L	d1	d2(h5)	
A6E 0300 050 0600	3	4.5	-	50	-	6	●
A6E 0300 050 0600 080			8	50	2.85	6	●
A6E 0300 050 0600 120			12	50	2.85	6	●
A6E 0300 060 0600			-	60	-	6	●
A6E 0300 060 0600 160			16	60	2.85	6	●
A6E 0300 060 0600 200	4	6	20	60	2.85	6	●
A6E 0300 075 0600			-	75	-	6	●
A6E 0300 075 0600 250			25	75	2.85	6	○
A6E 0300 075 0600 300			30	75	2.85	6	○
A6E 0400 050 0600			-	50	-	6	○
A6E 0400 050 0600 120	5	7.5	12	50	3.8	6	●
A6E 0400 060 0600			-	60	-	6	●
A6E 0400 060 0600 160			16	60	3.8	6	●
A6E 0400 060 0600 200			20	60	3.8	6	●
A6E 0400 075 0600			-	75	-	6	●
A6E 0400 075 0600 250	6	9	25	75	3.8	6	●
A6E 0400 075 0600 300			30	75	3.8	6	●
A6E 0400 075 0600 350			35	75	3.8	6	▲
A6E 0400 100 0600			-	100	-	6	●
A6E 0400 100 0600 400			40	100	3.8	6	●
A6E 0500 060 0600	7	10	-	60	-	6	○
A6E 0500 060 0600 160			16	60	4.8	6	○
A6E 0500 075 0600			-	75	-	6	○
A6E 0500 075 0600 250			25	75	4.8	6	○
A6E 0500 075 0600 350			35	75	4.8	6	●
A6E 0500 100 0600	8	12	-	100	-	6	●
A6E 0500 100 0600 500			50	100	4.8	6	●
A6E 0600 060 0600			-	60	-	6	●
A6E 0600 060 0600 200			20	60	5.8	6	●
A6E 0600 075 0600			-	75	-	6	●
A6E 0600 075 0600 300	9	15	30	75	5.8	6	●
A6E 0600 100 0600			-	100	-	6	●
A6E 0600 100 0600 400			40	100	5.8	6	●
A6E 0600 100 0600 500			50	100	5.8	6	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Tolerance
<1	+0 ~ -0.005
1 ≤ D ≤ 2.5	+0 ~ -0.010
2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

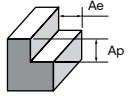
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DM70X Miniature DP Endmill with Long Neck, 4 Flutes – A6E

Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
1	-	0.04	0.5	79	2200	0.03	0.5	57	2000
	4	0.04	0.5	79	1800	0.03	0.5	57	1600
	6	0.02	0.5	62	1400	0.01	0.5	44	1250
	8	0.02	0.5	55	1200	0.01	0.5	38	1050
	10	0.01	0.5	48	1000	0.007	0.5	31	800
1.2	-	0.03	0.6	75	1800	0.02	0.6	53	1500
	6	0.03	0.6	75	1400	0.02	0.6	53	1200
	8	0.02	0.6	66	1200	0.01	0.6	45	1000
	10	0.02	0.6	50	1000	0.01	0.6	38	850
	12	0.01	0.6	41	1000	0.007	0.6	34	800
1.5	-	0.04	0.75	104	2100	0.03	0.75	85	1900
	6	0.04	0.75	104	1600	0.03	0.75	85	1400
	8	0.03	0.75	93	1300	0.03	0.75	66	1200
	10	0.03	0.75	83	1100	0.02	0.75	66	1000
	12	0.02	0.75	73	1000	0.02	0.75	57	850
	14	0.02	0.75	62	800	0.01	0.75	47	750
	16	0.01	0.75	52	720	0.007	0.75	42	600
1.8	-	0.05	0.9	112	2100	0.04	0.9	85	1800
	6	0.05	0.9	112	1800	0.04	0.9	85	1500
	8	0.04	0.9	100	1600	0.03	0.9	68	1200
	10	0.04	0.9	87	1400	0.03	0.9	68	1000
	12	0.03	0.9	75	1200	0.02	0.9	57	1000
	14	0.03	0.9	75	1200	0.02	0.9	57	860
	16	0.02	0.9	62	1000	0.01	0.9	52	800
	18	0.02	0.9	57	820	0.01	0.9	48	740
2	-	0.06	1	124	2200	0.05	1	94	1800
	6	0.06	1	124	1800	0.05	1	94	1500
	8	0.05	1	111	1600	0.04	1	75	1300
	10	0.05	1	97	1400	0.04	1	75	1200
	12	0.04	1	83	1300	0.03	1	63	1100
	14	0.03	1	83	1200	0.02	1	63	950
	16	0.03	1	69	1000	0.02	1	58	850
	18	0.02	1	64	820	0.01	1	53	740
	20	0.02	1	64	760	0.01	1	53	680
2.5	-	0.07	1.25	121	2000	0.05	1.25	79	1750
	8	0.07	1.25	121	1600	0.05	1.25	79	1400
	12	0.06	1.25	104	1400	0.04	1.25	75	1200
	16	0.05	1.25	86	1200	0.02	1.25	67	1000
	-	0.05	1.25	79	1100	0.02	1.25	63	1000
	20	0.05	1.25	71	1000	0.02	1.25	59	1000
	-	0.04	1.25	66	900	0.015	1.25	55	840
	25	0.03	1.25	60	800	0.01	1.25	51	680

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DM70X Miniature DP Endmill with Long Neck, 4 Flutes – A6E

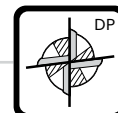
Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
3	-	0.1	1.5	145	2000	0.07	1.5	94	1800
	8	0.1	1.5	145	1800	0.07	1.5	94	1600
	12	0.08	1.5	124	1600	0.06	1.5	87	1400
	-	0.075	1.5	114	1550	0.055	1.5	83	1350
	16	0.07	1.5	104	1500	0.05	1.5	80	1300
	20	0.07	1.5	93	1400	0.04	1.5	74	1200
	-	0.065	1.5	89	1350	0.035	1.5	70	1150
	25	0.06	1.5	85	1300	0.03	1.5	66	1100
	30	0.03	1.5	73	1200	0.02	1.5	61	1000
4	-	0.15	2	131	2300	0.08	2	101	2100
	12	0.15	2	131	2000	0.08	2	101	1600
	-	0.125	2	121	1750	0.07	2	94	1500
	16	0.1	2	111	1500	0.06	2	88	1400
	20	0.08	2	97	1450	0.05	2	77	1300
	-	0.075	2	90	1425	0.045	2	71	1250
	25	0.07	2	83	1400	0.04	2	65	1200
	30	0.05	2	66	1000	0.03	2	53	850
	35	0.04	2	58	880	0.02	2	48	720
	-	0.035	2	54	800	0.015	2	43	660
	40	0.03	2	50	720	0.01	2	38	600
5	-	0.12	2.5	121	2300	0.08	2.5	86	2000
	16	0.12	2.5	121	1800	0.08	2.5	86	1600
	-	0.095	2.5	111	1600	0.065	2.5	76	1400
	25	0.07	2.5	100	1400	0.05	2.5	66	1200
	35	0.05	2.5	73	900	0.03	2.5	55	800
	-	0.04	2.5	60	760	0.025	2.5	47	650
	50	0.03	2.5	48	620	0.02	2.5	39	500
6	-	0.18	3	135	2100	0.08	3	85	1900
	20	0.18	3	135	1600	0.08	3	85	1400
	-	0.15	3	114	1400	0.07	3	75	1200
	30	0.12	3	93	1200	0.06	3	66	1000
	-	0.1	3	78	1100	0.045	3	57	900
	40	0.08	3	62	1000	0.03	3	47	800
	50	0.05	3	52	700	0.02	3	38	500

A6H



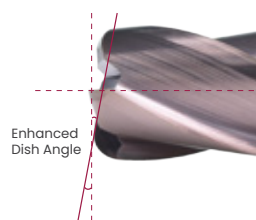
Differential Pitch (DP)

- Reduces chatter to provide excellent surface finishing.



Enhanced Dish Angle

- Minimizes irregular tool movement to reduce wear, ensuring longer tool life.



A6H

DP

A6J

DP
with Recess

A6H DM70X DP Torus Endmill, 4 Flutes



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6H 0100 050 0400 010	1	2.5		50		0.1	4	○
A6H 0100 050 0400 020				50		0.2	4	●
A6H 0100 050 0400 030				50		0.3	4	○
A6H 0150 050 0400 010	1.5	4		50		0.1	4	○
A6H 0150 050 0400 020				50		0.2	4	●
A6H 0150 050 0400 030				50		0.3	4	○
A6H 0150 050 0400 050	2	6		50		0.5	4	○
A6H 0200 050 0400 010				50		0.1	4	●
A6H 0200 050 0400 020				50		0.2	4	●
A6H 0200 050 0400 030	2.5	8		50		0.3	4	●
A6H 0200 050 0400 050				50		0.5	4	●
A6H 0250 050 0400 010				50		0.1	4	○
A6H 0250 050 0400 020	3	10		50		0.2	4	○
A6H 0250 050 0400 030				50		0.3	4	○
A6H 0250 050 0400 050				50		0.5	4	○
A6H 0300 050 0400 010	3	12		50		0.1	4	●
A6H 0300 060 0600 010				60		0.1	6	●
A6H 0300 050 0400 020				50		0.2	4	●
A6H 0300 060 0600 020	4	14		60		0.2	6	●
A6H 0300 050 0400 030				50		0.3	4	●
A6H 0300 060 0600 030				60		0.3	6	●
A6H 0300 050 0400 050	5	16		50		0.5	4	▲
A6H 0300 060 0600 050				60		0.5	6	○
A6H 0300 050 0400 100				50		1	4	▲
A6H 0300 060 0600 100	6	18		60		1	6	○
A6H 0400 060 0400 010			9	60		0.1	4	●
A6H 0400 075 0600 010			10	75		0.1	6	●
A6H 0400 060 0400 020	7	20	9	60		0.2	4	●
A6H 0400 075 0600 020			10	75		0.2	6	●
A6H 0400 060 0400 030			9	60		0.3	4	●
A6H 0400 075 0600 030	8	22	10	75		0.3	6	●
A6H 0400 060 0400 050			9	60		0.5	4	▲
A6H 0400 075 0600 050			10	75		0.5	6	●
A6H 0400 060 0400 100	9	24	9	60		1	4	●
A6H 0400 075 0600 100			10	75		1	6	○
A6H 0600 060 0600 010			11	60		0.1	6	●
A6H 0600 075 0600 010	10	26	13	75		0.1	6	●
A6H 0600 060 0600 020			11	60		0.2	6	●
A6H 0600 075 0600 020			13	75		0.2	6	●
A6H 0600 060 0600 030	11	28	11	60		0.3	6	●
A6H 0600 075 0600 030			13	75		0.3	6	●
A6H 0600 060 0600 050			11	60		0.5	6	●
A6H 0600 075 0600 050	12	30	13	75		0.5	6	●
A6H 0600 075 0600 050 20			20	75		0.5	6	●
A6H 0600 100 0600 050			13	100		0.5	6	○
A6H 0600 060 0600 100	13	32	11	60		1	6	●
A6H 0600 075 0600 100			13	75		1	6	●
A6H 0600 060 0600 150			11	60		1.5	6	●
A6H 0600 075 0600 150	14	34	13	75		1.5	6	○
A6H 0600 060 0600 200			11	60		2	6	○
A6H 0600 075 0600 200			13	75		2	6	●

Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6H 0800 075 0800 020	16	16		75		0.2	8	●
A6H 0800 075 0800 030				75		0.3	8	●
A6H 0800 100 0800 030			19	100		0.3	8	●
A6H 0800 075 0800 050 16	19	19		75		0.5	8	●
A6H 0800 075 0800 050 19				75		0.5	8	●
A6H 0800 075 0800 050 25				75		0.5	8	●
A6H 0800 100 0800 050	25	25		100		0.5	8	○
A6H 0800 075 0800 100				75		1	8	●
A6H 0800 100 0800 100			19	100		1	8	●
A6H 0800 075 0800 150	16	16		75		1.5	8	●
A6H 0800 100 0800 150				100		1.5	8	●
A6H 0800 075 0800 200			16	75		2	8	○
A6H 0800 100 0800 200	19	19		100		2	8	○
A6H 1000 075 1000 030				75		0.3	10	○
A6H 1000 100 1000 030	22	22		100		0.3	10	●
A6H 1000 075 1000 050 19			19	75		0.5	10	●
A6H 1000 075 1000 050 25			25	75		0.5	10	●
A6H 1000 100 1000 050 22	22	22		100		0.5	10	○
A6H 1000 100 1000 050 30			30	100		0.5	10	●
A6H 1000 125 1000 050				125		0.5	10	●
A6H 1000 150 1000 050	22	22		150		0.5	10	●
A6H 1000 150 1000 050 30			30	150		0.5	10	●
A6H 1000 075 1000 100			19	75		1	10	●
A6H 1000 100 1000 100	22	22		100		1	10	●
A6H 1000 075 1000 150			19	75		1.5	10	○
A6H 1000 100 1000 150			22	100		1.5	10	●
A6H 1000 075 1000 200	19	19		75		2	10	○
A6H 1000 100 1000 200			22	100		2	10	○
A6H 1000 075 1000 250			19	75		2.5	10	○
A6H 1000 100 1000 250	22	22		100		2.5	10	○
A6H 1200 075 1200 030				75		0.3	12	▲
A6H 1200 100 1200 030	26	26		100		0.3	12	●
A6H 1200 075 1200 050				75		0.5	12	●
A6H 1200 100 1200 050 26			26	100		0.5	12	○
A6H 1200 100 1200 050 35	35	35		100		0.5	12	○
A6H 1200 150 1200 050 26			26	150		0.5	12	○
A6H 1200 150 1200 050 35			35	150		0.5	12	●
A6H 1200 075 1200 100	22	22		75		1	12	●
A6H 1200 100 1200 100			26	100		1	12	●
A6H 1200 075 1200 150			22	75		1.5	12	○
A6H 1200 100 1200 150	26	26		100		1.5	12	●
A6H 1200 075 1200 200			22	75		2	12	○
A6H 1200 100 1200 200			26	100		2	12	●
A6H 1200 075 1200 250	22	22		75		2.5	12	○
A6H 1200 100 1200 250			26	100		2.5	12	○
A6H 1200 075 1200 300			22	75		3	12	○
A6H 1200 100 1200 300	26	26		100		3	12	●
A6H 1600 090 1600 050				90		0.5	16	●
A6H 1600 090 1600 100	16	32		90		1	16	●
A6H 2000 100 2000 050				100		0.5	20	○
A6H 2000 100 2000 100	20	40		100		1	20	○

	Germany	France	Italy	China
● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6J 0100 050 0400 010 015	1	1.5	3	50	0.95	0.1	4	○
A6J 0100 050 0400 020 015			3	50	0.95	0.2	4	○
A6J 0100 050 0400 030 015			3	50	0.95	0.3	4	○
A6J 0100 050 0400 010		2.5	6	50	0.95	0.1	4	●
A6J 0100 050 0400 020			6	50	0.95	0.2	4	▲
A6J 0100 050 0400 030			6	50	0.95	0.3	4	○
A6J 0150 050 0400 010 020	1.5	2	4.5	50	1.45	0.1	4	○
A6J 0150 050 0400 020 020			4.5	50	1.45	0.2	4	○
A6J 0150 050 0400 030 020			4.5	50	1.45	0.3	4	○
A6J 0150 050 0400 050 020		4	4.5	50	1.45	0.5	4	○
A6J 0150 050 0400 010			9	50	1.45	0.1	4	○
A6J 0150 050 0400 020			9	50	1.45	0.2	4	▲
A6J 0150 050 0400 030	2	3	9	50	1.45	0.3	4	○
A6J 0150 050 0400 050			9	50	1.45	0.5	4	○
A6J 0200 050 0400 010 030		6	6	50	1.94	0.1	4	○
A6J 0200 050 0400 020 030			6	50	1.94	0.2	4	○
A6J 0200 050 0400 030 030			6	50	1.94	0.3	4	○
A6J 0200 050 0400 050 030		2.5	6	50	1.94	0.5	4	○
A6J 0200 050 0400 010	2.5	6	12	50	1.94	0.1	4	●
A6J 0200 050 0400 020			12	50	1.94	0.2	4	●
A6J 0200 050 0400 030			12	50	1.94	0.3	4	●
A6J 0200 050 0400 050		4.5	12	50	1.94	0.5	4	▲
A6J 0250 050 0400 010			15	50	2.4	0.1	4	○
A6J 0250 050 0400 020			15	50	2.4	0.2	4	○
A6J 0250 050 0400 030	3	6	15	50	2.4	0.3	4	○
A6J 0250 050 0400 050			15	50	2.4	0.5	4	○
A6J 0300 050 0400 010 045		8	9	50	2.85	0.1	4	○
A6J 0300 060 0600 010 045			9	60	2.85	0.1	6	○
A6J 0300 050 0400 020 045			9	50	2.85	0.2	4	○
A6J 0300 060 0600 020 045	4	4.5	9	60	2.85	0.2	6	○
A6J 0300 050 0400 030 045			9	50	2.85	0.3	4	○
A6J 0300 060 0600 030 045			9	60	2.85	0.3	6	○
A6J 0300 050 0400 050 045		8	9	50	2.85	0.5	4	○
A6J 0300 060 0600 050 045			9	60	2.85	0.5	6	○
A6J 0300 050 0400 100 045			9	50	2.85	1	4	○
A6J 0300 060 0600 100 045	4	6	9	60	2.85	1	6	○
A6J 0300 050 0400 010			12	50	2.85	0.1	4	▲
A6J 0300 060 0600 010			15	60	2.85	0.1	6	▲
A6J 0300 050 0400 020		8	12	50	2.85	0.2	4	▲
A6J 0300 060 0600 020			15	60	2.85	0.2	6	●
A6J 0300 050 0400 030			12	50	2.85	0.3	4	▲
A6J 0300 060 0600 030	4	8	15	60	2.85	0.3	6	●
A6J 0300 050 0400 050			12	50	2.85	0.5	4	●
A6J 0300 060 0600 050			15	60	2.85	0.5	6	●
A6J 0300 050 0400 100		10	12	50	2.85	1	4	○
A6J 0300 060 0600 100			15	60	2.85	1	6	●
A6J 0400 060 0400 010 060			12	60	3.8	0.1	4	○
A6J 0400 075 0600 010 060	4	6	12	75	3.8	0.1	6	○
A6J 0400 060 0400 020 060			12	60	3.8	0.2	4	○
A6J 0400 075 0600 020 060			12	75	3.8	0.2	6	○
A6J 0400 060 0400 030 060			12	60	3.8	0.3	4	○

Order Number	Dimension (mm)							Stock	
	D	l1	l2	L	d1	R	d2(h5)		
A6J 0400 075 0600 030 060	4	6	12	75	3.8	0.3	6	○	
A6J 0400 060 0400 050 060			12	60	3.8	0.5	4	○	
A6J 0400 075 0600 050 060			12	75	3.8	0.5	6	○	
A6J 0400 060 0400 100 060			12	60	3.8	1	4	○	
A6J 0400 075 0600 100 060			12	75	3.8	1	6	○	
A6J 0400 060 0400 010		9	16	60	3.8	0.1	4	▲	
A6J 0400 075 0600 010		10	20	75	3.8	0.1	6	▲	
A6J 0400 060 0400 020		9	16	60	3.8	0.2	4	▲	
A6J 0400 075 0600 020		10	20	75	3.8	0.2	6	●	
A6J 0400 060 0400 030		9	16	60	3.8	0.3	4	▲	
A6J 0400 075 0600 030		10	20	75	3.8	0.3	6	○	
A6J 0400 060 0400 050		9	16	60	3.8	0.5	4	●	
A6J 0400 075 0600 050		10	20	75	3.8	0.5	6	●	
A6J 0400 060 0400 100		9	16	60	3.8	1	4	▲	
A6J 0400 075 0600 100		10	20	75	3.8	1	6	○	
A6J 0600 060 0600 010		6	11	24	60	5.8	0.1	6	●
A6J 0600 075 0600 010	30			75	5.8	0.1	6	▲	
A6J 0600 060 0600 020	24			60	5.8	0.2	6	●	
A6J 0600 075 0600 020	30			75	5.8	0.2	6	●	
A6J 0600 060 0600 030	24			60	5.8	0.3	6	▲	
A6J 0600 075 0600 030	30			75	5.8	0.3	6	○	
A6J 0600 060 0600 050	24			60	5.8	0.5	6	●	
A6J 0600 075 0600 050	30			75	5.8	0.5	6	●	
A6J 0600 075 0600 050 20	20			30	75	5.8	0.5	6	●
A6J 0600 100 0600 050	13			30	100	5.8	0.5	6	●
A6J 0600 060 0600 100	11			24	60	5.8	1	6	●
A6J 0600 075 0600 100	13			30	75	5.8	1	6	●
A6J 0600 060 0600 150	11			24	60	5.8	1.5	6	●
A6J 0600 075 0600 150	13			30	75	5.8	1.5	6	○
A6J 0600 060 0600 200	11			24	60	5.8	2	6	○
A6J 0600 075 0600 200	13			30	75	5.8	2	6	○
A6J 0800 075 0800 020	8	16	26	75	7.8	0.2	8	●	
A6J 0800 075 0800 030			26	75	7.8	0.3	8	▲	
A6J 0800 100 0800 030		19	32	100	7.8	0.3	8	○	
A6J 0800 075 0800 050 16		16	26	75	7.8	0.5	8	●	
A6J 0800 075 0800 050 19		19	26	75	7.8	0.5	8	●	
A6J 0800 075 0800 050 25		25	30	75	7.8	0.5	8	▲	
A6J 0800 100 0800 050		19	32	100	7.8	0.5	8	●	
A6J 0800 075 0800 100		16	26	75	7.8	1	8	●	
A6J 0800 100 0800 100		19	32	100	7.8	1	8	●	
A6J 0800 075 0800 150		16	26	75	7.8	1.5	8	○	
A6J 0800 100 0800 150		19	32	100	7.8	1.5	8	○	
A6J 0800 075 0800 200		16	26	75	7.8	2	8	●	
A6J 0800 100 0800 200		19	32	100	7.8	2	8	●	
A6J 1000 075 1000 030		10	19	30	75	9.8	0.3	10	○
A6J 1000 100 1000 030			22	40	100	9.8	0.3	10	▲
A6J 1000 075 1000 050 19			19	30	75	9.8	0.5	10	●
A6J 1000 075 1000 050 25	25		30	75	9.8	0.5	10	▲	
A6J 1000 100 1000 050 22	22		40	100	9.8	0.5	10	●	
A6J 1000 100 1000 050 30	30		40	100	9.8	0.5	10	●	
A6J 1000 125 1000 050		22	40	125	9.8	0.5	10	○	

cont'd ▶

	Germany	France	Italy	China
● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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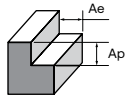
Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6J 1000 150 1000 050	10	22	40	150	9.8	0.5	10	○
A6J 1000 150 1000 050 30		30	40	150	9.8	0.5	10	○
A6J 1000 075 1000 100		19	30	75	9.8	1	10	●
A6J 1000 100 1000 100		22	40	100	9.8	1	10	●
A6J 1000 075 1000 150		19	30	75	9.8	1.5	10	○
A6J 1000 100 1000 150		22	40	100	9.8	1.5	10	○
A6J 1000 075 1000 200		19	30	75	9.8	2	10	●
A6J 1000 100 1000 200		22	40	100	9.8	2	10	○
A6J 1000 075 1000 250		19	30	75	9.8	2.5	10	▲
A6J 1000 100 1000 250		22	40	100	9.8	2.5	10	○
A6J 1200 075 1200 030	12	22	35	75	11.7	0.3	12	●
A6J 1200 100 1200 030		26	48	100	11.7	0.3	12	○
A6J 1200 075 1200 050		22	35	75	11.7	0.5	12	●
A6J 1200 100 1200 050 26		26	48	100	11.7	0.5	12	▲
A6J 1200 100 1200 050 35		35	48	100	11.7	0.5	12	○
A6J 1200 150 1200 050 26		26	48	150	11.7	0.5	12	○
A6J 1200 150 1200 050 35		35	48	150	11.7	0.5	12	▲
A6J 1200 075 1200 100		22	35	75	11.7	1	12	●
A6J 1200 100 1200 100		26	48	100	11.7	1	12	●
A6J 1200 075 1200 150		22	35	75	11.7	1.5	12	○
A6J 1200 100 1200 150		26	48	100	11.7	1.5	12	○
A6J 1200 075 1200 200		22	35	75	11.7	2	12	●
A6J 1200 100 1200 200		26	48	100	11.7	2	12	▲
A6J 1200 075 1200 250		22	35	75	11.7	2.5	12	○
A6J 1200 100 1200 250		26	48	100	11.7	2.5	12	○
A6J 1200 075 1200 300		22	35	75	11.7	3	12	●
A6J 1200 100 1200 300		26	48	100	11.7	3	12	●
A6J 1600 090 1600 050	16	32	48	90	15	0.5	16	▲
A6J 1600 090 1600 100	20	40	48	90	15	1	16	●
A6J 2000 100 2000 050			60	100	19	0.5	20	○
A6J 2000 100 2000 100			60	100	19	1	20	○

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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DM70X DP Torus Endmill, 4 Flutes – A6H, A6J

Side Milling	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 < HRC ≤ 65		65 < HRC ≤ 70	
Ap (mm)	0.18 x R		0.12 x R		0.09 x R	
Ae (mm)	(D/2)-R		(D/2)-R		(D/2)-R	
D	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	80	0.035	70	0.015	60	0.014
1.5		0.058		0.024		0.022
2		0.080		0.032		0.030
2.5		0.108		0.043		0.040
3		0.135		0.053		0.050
4		0.190		0.076		0.072
5		0.243		0.097		0.092
6		0.300		0.121		0.115
8		0.402		0.160		0.152
10		0.480		0.198		0.188
12		0.560		0.230		0.219
16		0.640		0.251		0.240
20		0.660		0.255		0.250

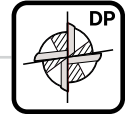
1. Suitable to use in down cutting or contour lines. Reduce the feed rate between 60% and 70% when cutting at an incline (incline angle: 1°) in Z direction.

2. It is recommended to reduce the speed for corners be set. The speed reduction is approximately 1/2 of the diameter tool, and the feed rate need to be reduced between 50% and 60%.

3. R = Corner Radius, D = Cutter Diameter.

A6G

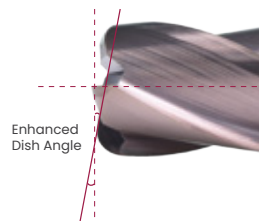
Differential Pitch (DP)



- Reduces chatter to provide excellent surface finishing.

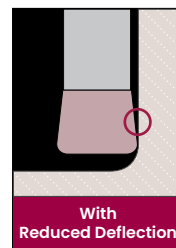
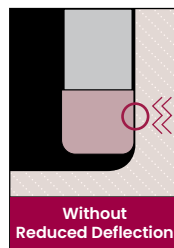
Enhanced Dish Angle

- Minimizes irregular tool movement to reduce wear, ensuring longer tool life.



Back Taper Optimization (<Ø 4mm)

- Prevents unwanted contact between micro tools ($\leq \varnothing 4$ mm) and the workpiece in deep or narrow cavities, reducing vibration and ensuring better surface finishing by maintaining a safe clearance gap.
- Reduces tool deflection for tight tolerance and dimensional accuracy.
- Minimizes vibration for superior surface finishing.



A6G

Miniature
Long Neck
2 Flute

A6G

Miniature DP
Long Neck
4 Flute



A6G



Order Number	Dimension (mm)							Stock
	D	I1	I2	L	d1	R	d2(h5)	
A6G 0020 050 0400 R002	0.2	0.15	-	50	-	0.02	4	○
A6G 0020 050 0400 005 R002			0.5	50	0.18	0.02	4	○
A6G 0020 050 0400 010 R002			1	50	0.18	0.02	4	○
A6G 0020 050 0400 015 R002			1.5	50	0.18	0.02	4	○
A6G 0020 050 0400 020 R002			2	50	0.18	0.02	4	○
A6G 0020 050 0400 R005			-	50	-	0.05	4	○
A6G 0020 050 0400 005 R005			0.5	50	0.18	0.05	4	○
A6G 0020 050 0400 010 R005			1	50	0.18	0.05	4	○
A6G 0020 050 0400 015 R005			1.5	50	0.18	0.05	4	○
A6G 0020 050 0400 020 R005			2	50	0.18	0.05	4	○
A6G 0030 050 0400 R002	0.3	0.25	-	50	-	0.02	4	●
A6G 0030 050 0400 010 R002			1	50	0.28	0.02	4	●
A6G 0030 050 0400 015 R002			1.5	50	0.28	0.02	4	▲
A6G 0030 050 0400 020 R002			2	50	0.28	0.02	4	▲
A6G 0030 050 0400 025 R002			2.5	50	0.28	0.02	4	▲
A6G 0030 050 0400 030 R002			3	50	0.28	0.02	4	▲
A6G 0030 050 0400 R005			-	50	-	0.05	4	○
A6G 0030 050 0400 010 R005			1	50	0.28	0.05	4	○
A6G 0030 050 0400 015 R005			1.5	50	0.28	0.05	4	○
A6G 0030 050 0400 020 R005			2	50	0.28	0.05	4	○
A6G 0030 050 0400 025 R005	0.4	0.3	2.5	50	0.28	0.05	4	○
A6G 0030 050 0400 030 R005			3	50	0.28	0.05	4	○
A6G 0040 050 0400 R002			-	50	-	0.02	4	○
A6G 0040 050 0400 010 R002			1	50	0.37	0.02	4	○
A6G 0040 050 0400 015 R002			1.5	50	0.37	0.02	4	○
A6G 0040 050 0400 020 R002			2	50	0.37	0.02	4	○
A6G 0040 050 0400 025 R002			2.5	50	0.37	0.02	4	○
A6G 0040 050 0400 030 R002			3	50	0.37	0.02	4	○
A6G 0040 050 0400 040 R002			4	50	0.37	0.02	4	○
A6G 0040 050 0400 R005			-	50	-	0.05	4	○
A6G 0040 050 0400 010 R005	0.4	0.3	1	50	0.37	0.05	4	○
A6G 0040 050 0400 015 R005			1.5	50	0.37	0.05	4	○
A6G 0040 050 0400 020 R005			2	50	0.37	0.05	4	○
A6G 0040 050 0400 025 R005			2.5	50	0.37	0.05	4	○
A6G 0040 050 0400 030 R005			3	50	0.37	0.05	4	○
A6G 0040 050 0400 040 R005			4	50	0.37	0.05	4	○
A6G 0040 050 0400 R010			-	50	-	0.1	4	○
A6G 0040 050 0400 010 R010			1	50	0.37	0.1	4	○
A6G 0040 050 0400 015 R010			1.5	50	0.37	0.1	4	○
A6G 0040 050 0400 020 R010			2	50	0.37	0.1	4	○
A6G 0040 050 0400 025 R010	0.7	0.55	2.5	50	0.37	0.1	4	○
A6G 0040 050 0400 030 R010			3	50	0.37	0.1	4	○
A6G 0040 050 0400 040 R010			4	50	0.37	0.1	4	○
A6G 0050 050 0400 R002	0.5	0.4	-	50	-	0.02	4	○
A6G 0050 050 0400 010 R002			1	50	0.46	0.02	4	○
A6G 0050 050 0400 020 R002			2	50	0.46	0.02	4	○
A6G 0050 050 0400 030 R002			3	50	0.46	0.02	4	○
A6G 0050 050 0400 040 R002			4	50	0.46	0.02	4	○
A6G 0050 050 0400 050 R002			5	50	0.46	0.02	4	○
A6G 0050 050 0400 060 R002			6	50	0.46	0.02	4	○
A6G 0050 050 0400 R005			-	50	-	0.05	4	●
A6G 0050 050 0400 010 R005			1	50	0.46	0.05	4	▲
A6G 0050 050 0400 020 R005			2	50	0.46	0.05	4	●
A6G 0050 050 0400 030 R005	0.6	0.5	3	50	0.46	0.05	4	●
A6G 0050 050 0400 040 R005			4	50	0.46	0.05	4	▲
A6G 0050 050 0400 050 R005			5	50	0.46	0.05	4	▲
A6G 0050 050 0400 060 R005			6	50	0.46	0.05	4	▲
A6G 0050 050 0400 R010			-	50	-	0.1	4	●
A6G 0050 050 0400 010 R010			1	50	0.46	0.1	4	▲
A6G 0050 050 0400 020 R010			2	50	0.46	0.1	4	▲
A6G 0050 050 0400 030 R010			3	50	0.46	0.1	4	▲
A6G 0050 050 0400 040 R010			4	50	0.46	0.1	4	●
A6G 0050 050 0400 050 R010			5	50	0.46	0.1	4	▲
A6G 0060 050 0400 R002	0.6	0.5	-	50	-	0.02	4	○
A6G 0060 050 0400 020 R002			2	50	0.56	0.02	4	○
A6G 0060 050 0400 040 R002			4	50	0.56	0.02	4	○
A6G 0060 050 0400 060 R002			6	50	0.56	0.02	4	○
A6G 0060 050 0400 080 R002			8	50	0.56	0.02	4	○
A6G 0060 050 0400 100 R002			10	50	0.56	0.02	4	○
A6G 0060 050 0400 R005			-	50	-	0.05	4	○
A6G 0060 050 0400 020 R005			2	50	0.56	0.05	4	○
A6G 0060 050 0400 040 R005			4	50	0.56	0.05	4	○
A6G 0060 050 0400 060 R005			6	50	0.56	0.05	4	○
A6G 0060 050 0400 080 R005	0.7	0.55	8	50	0.56	0.05	4	○
A6G 0060 050 0400 100 R005			10	50	0.56	0.05	4	○
A6G 0060 050 0400 R010			-	50	-	0.1	4	●
A6G 0060 050 0400 020 R010			2	50	0.56	0.1	4	▲
A6G 0060 050 0400 040 R010			4	50	0.56	0.1	4	▲
A6G 0060 050 0400 060 R010			6	50	0.56	0.1	4	●
A6G 0060 050 0400 080 R010			8	50	0.56	0.1	4	▲
A6G 0060 050 0400 100 R010			10	50	0.56	0.1	4	▲
A6G 0070 050 0400 R002			-	50	-	0.02	4	○
A6G 0070 050 0400 020 R002			2	50	0.66	0.02	4	○
A6G 0070 050 0400 040 R002	0.7	0.55	4	50	0.66	0.02	4	○
A6G 0070 050 0400 060 R002			6	50	0.66	0.02	4	○

Order Number	Dimension (mm)							Stock
	D	II	I2	L	dI	R	d2(h5)	
A6G 0050 050 0400 R002	0.5	0.4	-	50	-	0.02	4	○
A6G 0050 050 0400 010 R002			1	50	0.46	0.02	4	○
A6G 0050 050 0400 020 R002			2	50	0.46	0.02	4	○
A6G 0050 050 0400 030 R002			3	50	0.46	0.02	4	○
A6G 0050 050 0400 040 R002			4	50	0.46	0.02	4	○
A6G 0050 050 0400 050 R002			5	50	0.46	0.02	4	○
A6G 0050 050 0400 060 R002			6	50	0.46	0.02	4	○
A6G 0050 050 0400 R005			-	50	-	0.05	4	●
A6G 0050 050 0400 010 R005			1	50	0.46	0.05	4	▲
A6G 0050 050 0400 020 R005			2	50	0.46	0.05	4	●
A6G 0050 050 0400 030 R005			3	50	0.46	0.05	4	●
A6G 0050 050 0400 040 R005			4	50	0.46	0.05	4	▲
A6G 0050 050 0400 050 R005			5	50	0.46	0.05	4	▲
A6G 0050 050 0400 060 R005			6	50	0.46	0.05	4	▲
A6G 0050 050 0400 R010			-	50	-	0.1	4	●
A6G 0050 050 0400 010 R010			1	50	0.46	0.1	4	▲
A6G 0050 050 0400 020 R010			2	50	0.46	0.1	4	▲
A6G 0050 050 0400 030 R010			3	50	0.46	0.1	4	▲
A6G 0050 050 0400 040 R010			4	50	0.46	0.1	4	●
A6G 0050 050 0400 050 R010			5	50	0.46	0.1	4	▲
A6G 0050 050 0400 060 R010	6	50	0.46	0.1	4	▲		
A6G 0060 050 0400 R002	0.6	0.5	-	50	-	0.02	4	○
A6G 0060 050 0400 020 R002			2	50	0.56	0.02	4	○
A6G 0060 050 0400 040 R002			4	50	0.56	0.02	4	○
A6G 0060 050 0400 060 R002			6	50	0.56	0.02	4	○
A6G 0060 050 0400 080 R002			8	50	0.56	0.02	4	○
A6G 0060 050 0400 100 R002			10	50	0.56	0.02	4	○
A6G 0060 050 0400 R005			-	50	-	0.05	4	○
A6G 0060 050 0400 020 R005			2	50	0.56	0.05	4	○
A6G 0060 050 0400 040 R005			4	50	0.56	0.05	4	○
A6G 0060 050 0400 060 R005			6	50	0.56	0.05	4	○
A6G 0060 050 0400 080 R005			8	50	0.56	0.05	4	○
A6G 0060 050 0400 100 R005			10	50	0.56	0.05	4	○
A6G 0060 050 0400 R010			-	50	-	0.1	4	●
A6G 0060 050 0400 020 R010			2	50	0.56	0.1	4	▲
A6G 0060 050 0400 040 R010			4	50	0.56	0.1	4	▲
A6G 0060 050 0400 060 R010			6	50	0.56	0.1	4	●
A6G 0060 050 0400 080 R010	8	50	0.56	0.1	4	▲		
A6G 0060 050 0400 100 R010	10	50	0.56	0.1	4	▲		
A6G 0070 050 0400 R002	0.7	0.55	-	50	-	0.02	4	○
A6G 0070 050 0400 020 R002			2	50	0.66	0.02	4	○
A6G 0070 050 0400 040 R002			4	50	0.66	0.02	4	○
A6G 0070 050 0400 060 R002			6	50	0.66	0.02	4	○

A6G DM70X Miniature Torus Endmill with Long Neck, 2 Flutes



A6G



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0070 050 0400 R005	0.7	0.55	-	50	0.66	0.05	4	○
A6G 0070 050 0400 020 R005			2	50	0.66	0.05	4	○
A6G 0070 050 0400 040 R005			4	50	0.66	0.05	4	○
A6G 0070 050 0400 060 R005			6	50	0.66	0.05	4	○
A6G 0070 050 0400 R010			-	50	0.66	0.1	4	○
A6G 0070 050 0400 020 R010			2	50	0.66	0.1	4	○
A6G 0070 050 0400 040 R010			4	50	0.66	0.1	4	○
A6G 0070 050 0400 060 R010			6	50	0.66	0.1	4	○
A6G 0080 050 0400 R002	0.8	0.65	-	50	-	0.02	4	○
A6G 0080 050 0400 020 R002			2	50	0.76	0.02	4	○
A6G 0080 050 0400 040 R002			4	50	0.76	0.02	4	○
A6G 0080 050 0400 060 R002			6	50	0.76	0.02	4	○
A6G 0080 050 0400 080 R002			8	50	0.76	0.02	4	○
A6G 0080 050 0400 R005			-	50	-	0.05	4	○
A6G 0080 050 0400 020 R005			2	50	0.76	0.05	4	○
A6G 0080 050 0400 040 R005			4	50	0.76	0.05	4	○
A6G 0080 050 0400 060 R005			6	50	0.76	0.05	4	○
A6G 0080 050 0400 080 R005			8	50	0.76	0.05	4	○
A6G 0080 050 0400 120 R005			12	50	0.76	0.05	4	○
A6G 0080 050 0400 R010			-	50	-	0.1	4	●
A6G 0080 050 0400 020 R010			2	50	0.76	0.1	4	●
A6G 0080 050 0400 040 R010			4	50	0.76	0.1	4	●
A6G 0080 050 0400 060 R010			6	50	0.76	0.1	4	●
A6G 0080 050 0400 080 R010			8	50	0.76	0.1	4	●
A6G 0080 050 0400 120 R010			12	50	0.76	0.1	4	▲
A6G 0080 050 0400 R020			-	50	-	0.2	4	○
A6G 0080 050 0400 020 R020			2	50	0.76	0.2	4	○
A6G 0080 050 0400 040 R020			4	50	0.76	0.2	4	○
A6G 0080 050 0400 060 R020			6	50	0.76	0.2	4	○
A6G 0080 050 0400 080 R020			8	50	0.76	0.2	4	○
A6G 0080 050 0400 120 R020			12	50	0.76	0.2	4	○
A6G 0090 050 0400 R010	0.9	0.7	-	50	-	0.1	4	○
A6G 0090 050 0400 040 R010			4	50	0.85	0.1	4	○
A6G 0090 050 0400 080 R010			8	50	0.85	0.1	4	○

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

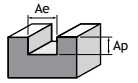
Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
		1 ≤ D ≤ 2.5	+0 ~ -0.010

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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DM70X Miniature Torus Endmill with Long Neck, 2 Flutes – A6G



Slotting		H1			H2		
Working Material		Hardened Steel			Hardened Steel		
Properties		45 ≤ HRC < 52			52 ≤ HRC < 68		
D	Effective Length	Ap	Vc	Vf	Ap	Vc	Vf
0.2	-	0.003	19	180	0.003	19	60
	0.5	0.003	19	180	0.003	19	60
	1	0.003	19	120	0.002	19	60
	1.5	0.002	19	60	0.002	19	60
	2	0.002	19	60	0.001	19	60
0.3	-	0.003	19	420	0.003	19	300
	1	0.003	19	300	0.003	19	240
	1.5	0.003	19	180	0.003	19	180
	2	0.003	19	120	0.003	19	120
	2.5	0.002	16	100	0.002	16	50
	3	0.002	16	50	0.002	16	50
0.4	-	0.005	19	420	0.005	18	360
	1	0.005	19	360	0.005	18	300
	1.5	0.005	19	360	0.005	18	300
	2	0.005	19	300	0.005	16	250
	2.5	0.005	18	300	0.004	16	250
	3	0.004	16	250	0.003	14	200
	4	0.003	16	200	0.002	13	160
0.5	-	0.010	16	550	0.006	14	506
	1	0.010	16	500	0.006	14	414
	2	0.010	16	400	0.005	14	368
	3	0.007	16	350	0.004	14	322
	4	0.005	16	300	0.002	14	230
	5	0.003	13	240	0.002	11	180
	6	0.003	13	200	0.001	11	144
0.6	-	0.010	16	600	0.006	14	460
	2	0.010	16	500	0.006	14	368
	4	0.005	14	400	0.004	13	276
	6	0.002	13	280	0.003	11	180
	8	0.002	10	200	0.001	9	72
	10	0.002	9	80	0.001	8	72
0.7	-	0.030	16	650	0.006	14	506
	2	0.030	16	600	0.006	14	414
	4	0.020	16	500	0.005	14	368
	6	0.015	13	400	0.003	11	288
0.8	-	0.030	16	1000	0.020	14	874
	2	0.030	16	850	0.020	14	736
	4	0.025	16	700	0.015	14	598
	6	0.020	13	520	0.010	11	432
	8	0.007	10	384	0.005	9	280
	12	0.007	9	384	0.003	8	280
0.9	-	0.030	16	864	0.020	13	704
	4	0.025	16	684	0.020	13	544
	8	0.020	10	494	0.008	9	374

cont'd ►



A6G



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0100 050 0400 R002	1	0.8	-	50	-	0.02	4	○
A6G 0100 050 0400 020 R002			2	50	0.95	0.02	4	○
A6G 0100 050 0400 030 R002			3	50	0.95	0.02	4	○
A6G 0100 050 0400 040 R002			4	50	0.95	0.02	4	○
A6G 0100 050 0400 050 R002			5	50	0.95	0.02	4	○
A6G 0100 050 0400 060 R002			6	50	0.95	0.02	4	○
A6G 0100 050 0400 080 R002			8	50	0.95	0.02	4	○
A6G 0100 050 0400 100 R002			10	50	0.95	0.02	4	○
A6G 0100 050 0400 R005			-	50	-	0.05	4	○
A6G 0100 050 0400 020 R005			2	50	0.95	0.05	4	○
A6G 0100 050 0400 030 R005			3	50	0.95	0.05	4	○
A6G 0100 050 0400 040 R005			4	50	0.95	0.05	4	○
A6G 0100 050 0400 050 R005			5	50	0.95	0.05	4	○
A6G 0100 050 0400 060 R005			6	50	0.95	0.05	4	○
A6G 0100 050 0400 080 R005			8	50	0.95	0.05	4	○
A6G 0100 050 0400 100 R005			10	50	0.95	0.05	4	○
A6G 0100 050 0400 R010			-	50	-	0.1	4	●
A6G 0100 050 0400 020 R010			2	50	0.95	0.1	4	●
A6G 0100 050 0400 030 R010			3	50	0.95	0.1	4	▲
A6G 0100 050 0400 040 R010			4	50	0.95	0.1	4	●
A6G 0100 050 0400 050 R010			5	50	0.95	0.1	4	▲
A6G 0100 050 0400 060 R010			6	50	0.95	0.1	4	●
A6G 0100 050 0400 080 R010			8	50	0.95	0.1	4	●
A6G 0100 050 0400 100 R010			10	50	0.95	0.1	4	●
A6G 0100 050 0400 R020			-	50	-	0.2	4	●
A6G 0100 050 0400 020 R020			2	50	0.95	0.2	4	▲
A6G 0100 050 0400 030 R020			3	50	0.95	0.2	4	▲
A6G 0100 050 0400 040 R020			4	50	0.95	0.2	4	●
A6G 0100 050 0400 050 R020			5	50	0.95	0.2	4	●
A6G 0100 050 0400 060 R020			6	50	0.95	0.2	4	●
A6G 0100 050 0400 080 R020			8	50	0.95	0.2	4	●
A6G 0100 050 0400 100 R020			10	50	0.95	0.2	4	●
A6G 0100 050 0400 120 R020			12	50	0.95	0.2	4	●
A6G 0100 050 0400 R030			-	50	-	0.3	4	○
A6G 0100 050 0400 020 R030			2	50	0.95	0.3	4	○
A6G 0100 050 0400 030 R030			3	50	0.95	0.3	4	○
A6G 0100 050 0400 040 R030			4	50	0.95	0.3	4	○
A6G 0100 050 0400 050 R030			5	50	0.95	0.3	4	○
A6G 0100 050 0400 060 R030			6	50	0.95	0.3	4	○
A6G 0100 050 0400 080 R030			8	50	0.95	0.3	4	○
A6G 0100 050 0400 100 R030			10	50	0.95	0.3	4	○
A6G 0120 050 0400 R010	1.2	1	-	50	-	0.1	4	●
A6G 0120 050 0400 050 R010			5	50	1.14	0.1	4	●
A6G 0120 050 0400 100 R010			10	50	1.14	0.1	4	●
A6G 0120 050 0400 050 R020			5	50	1.14	0.2	4	●
A6G 0120 050 0400 100 R020			10	50	1.14	0.2	4	▲
A6G 0120 050 0400 R030			-	50	-	0.3	4	○
A6G 0120 050 0400 050 R030			5	50	1.14	0.3	4	○
A6G 0120 050 0400 100 R030			10	50	1.14	0.3	4	○
A6G 0150 050 0400 R002			-	50	-	0.02	4	○
A6G 0150 050 0400 030 R002			3	50	1.43	0.02	4	○
A6G 0150 050 0400 040 R002			4	50	1.43	0.02	4	○
A6G 0150 050 0400 060 R002			6	50	1.43	0.02	4	○
A6G 0150 050 0400 080 R002			8	50	1.43	0.02	4	○
A6G 0150 050 0400 120 R002			12	50	1.43	0.02	4	○
A6G 0150 050 0400 150 R002			15	50	1.43	0.02	4	○
A6G 0150 050 0400 R005			-	50	-	0.05	4	○
A6G 0150 050 0400 030 R005	1.5	1.2	3	50	1.43	0.05	4	○
A6G 0150 050 0400 040 R005			4	50	1.43	0.05	4	○
A6G 0150 050 0400 060 R005			6	50	1.43	0.05	4	○
A6G 0150 050 0400 080 R005			8	50	1.43	0.05	4	○
A6G 0150 050 0400 120 R005			12	50	1.43	0.05	4	○
A6G 0150 050 0400 150 R005			15	50	1.43	0.05	4	○
A6G 0150 050 0400 R010			-	50	-	0.1	4	●
A6G 0150 050 0400 030 R010			3	50	1.43	0.1	4	▲
A6G 0150 050 0400 040 R010			4	50	1.43	0.1	4	▲
A6G 0150 050 0400 060 R010			6	50	1.43	0.1	4	●
A6G 0150 050 0400 080 R010			8	50	1.43	0.1	4	●
A6G 0150 050 0400 120 R010			12	50	1.43	0.1	4	▲
A6G 0150 050 0400 150 R010			15	50	1.43	0.1	4	▲
A6G 0150 050 0400 R020			-	50	-	0.2	4	●
A6G 0150 050 0400 030 R020			3	50	1.43	0.2	4	▲
A6G 0150 050 0400 040 R020			4	50	1.43	0.2	4	●
A6G 0150 050 0400 060 R020			6	50	1.43	0.2	4	●
A6G 0150 050 0400 080 R020			8	50	1.43	0.2	4	●
A6G 0150 050 0400 100 R020			10	50	1.43	0.2	4	●
A6G 0150 050 0400 120 R020			12	50	1.43	0.2	4	●
A6G 0150 050 0400 150 R020			15	50	1.43	0.2	4	●
A6G 0150 050 0400 R030			-	50	-	0.3	4	○
A6G 0150 050 0400 030 R030			3	50	1.43	0.3	4	○
A6G 0150 050 0400 040 R030			4	50	1.43	0.3	4	○
A6G 0150 050 0400 060 R030			6	50	1.43	0.3	4	○
A6G 0150 050 0400 080 R030			8	50	1.43	0.3	4	○
A6G 0150 050 0400 120 R030			12	50	1.43	0.3	4	○
A6G 0150 050 0400 150 R030			15	50	1.43	0.3	4	○

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6G



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0150 050 0400 R050	1.5	1.2	-	50	-	0.5	4	●
A6G 0150 050 0400 030 R050			3	50	1.43	0.5	4	▲
A6G 0150 050 0400 040 R050			4	50	1.43	0.5	4	▲
A6G 0150 050 0400 060 R050			6	50	1.43	0.5	4	▲
A6G 0150 050 0400 080 R050			8	50	1.43	0.5	4	▲
A6G 0150 050 0400 120 R050			12	50	1.43	0.5	4	●
A6G 0150 050 0400 150 R050			15	50	1.43	0.5	4	▲
A6G 0200 050 0400 R002			-	50	-	0.02	4	○
A6G 0200 050 0400 040 R002			4	50	1.91	0.02	4	○
A6G 0200 050 0400 060 R002			6	50	1.91	0.02	4	○
A6G 0200 050 0400 080 R002	2	1.6	8	50	1.91	0.02	4	○
A6G 0200 050 0400 120 R002			12	50	1.91	0.02	4	●
A6G 0200 060 0400 R002			-	60	-	0.02	4	○
A6G 0200 060 0400 160 R002			16	60	1.91	0.02	4	○
A6G 0200 060 0400 200 R002			20	60	1.91	0.02	4	○
A6G 0200 050 0400 R005			-	50	-	0.05	4	○
A6G 0200 050 0400 040 R005			4	50	1.91	0.05	4	○
A6G 0200 050 0400 060 R005			6	50	1.91	0.05	4	○
A6G 0200 050 0400 080 R005			8	50	1.91	0.05	4	○
A6G 0200 050 0400 120 R005			12	50	1.91	0.05	4	○
A6G 0200 060 0400 R005			-	60	-	0.05	4	○
A6G 0200 060 0400 160 R005			16	60	1.91	0.05	4	○
A6G 0200 060 0400 200 R005			20	60	1.91	0.05	4	○
A6G 0200 050 0400 R010			-	50	-	0.1	4	●
A6G 0200 050 0400 040 R010			4	50	1.91	0.1	4	●
A6G 0200 050 0400 060 R010			6	50	1.91	0.1	4	●
A6G 0200 050 0400 080 R010			8	50	1.91	0.1	4	▲
A6G 0200 050 0400 120 R010			12	50	1.91	0.1	4	●
A6G 0200 060 0400 R010			-	60	-	0.1	4	○
A6G 0200 060 0400 160 R010			16	60	1.91	0.1	4	○
A6G 0200 060 0400 200 R010			20	60	1.91	0.1	4	○
A6G 0200 050 0400 R020			-	50	-	0.2	4	●
A6G 0200 050 0400 040 R020			4	50	1.91	0.2	4	●
A6G 0200 050 0400 060 R020			6	50	1.91	0.2	4	●
A6G 0200 050 0400 080 R020			8	50	1.91	0.2	4	●
A6G 0200 050 0400 100 R020			10	50	1.91	0.2	4	●
A6G 0200 050 0400 120 R020			12	50	1.91	0.2	4	●
A6G 0200 060 0400 R020			-	60	-	0.2	4	●
A6G 0200 060 0400 160 R020			16	60	1.91	0.2	4	●
A6G 0200 060 0400 200 R020			20	60	1.91	0.2	4	●
A6G 0200 050 0400 R030			-	50	-	0.3	4	○
A6G 0200 050 0400 040 R030			4	50	1.91	0.3	4	○
A6G 0200 050 0400 060 R030			6	50	1.91	0.3	4	○
A6G 0200 050 0400 080 R030	2	1.6	8	50	1.91	0.3	4	○
A6G 0200 050 0400 120 R030			12	50	1.91	0.3	4	○
A6G 0200 060 0400 R030			-	60	-	0.3	4	○
A6G 0200 060 0400 160 R030			16	60	1.91	0.3	4	○
A6G 0200 060 0400 200 R030			20	60	1.91	0.3	4	○
A6G 0200 050 0400 R050			-	50	-	0.5	4	●
A6G 0200 050 0400 040 R050			4	50	1.91	0.5	4	▲
A6G 0200 050 0400 060 R050			6	50	1.91	0.5	4	●
A6G 0200 050 0400 080 R050			8	50	1.91	0.5	4	▲
A6G 0200 050 0400 120 R050			12	50	1.91	0.5	4	●
A6G 0250 050 0400 R010	2.5	2	-	50	-	0.1	4	○
A6G 0250 050 0400 100 R010			10	50	2.39	0.1	4	○
A6G 0250 060 0400 R010			-	60	-	0.1	4	●
A6G 0250 060 0400 200 R010			20	60	2.39	0.1	4	●
A6G 0250 075 0400 R010			-	75	-	0.1	4	○
A6G 0250 075 0400 300 R010			30	75	2.39	0.1	4	○
A6G 0250 050 0400 R020			-	50	-	0.2	4	○
A6G 0250 050 0400 100 R020			10	50	2.39	0.2	4	○
A6G 0250 060 0400 R020			-	60	-	0.2	4	○
A6G 0250 060 0400 200 R020			20	60	2.39	0.2	4	○
A6G 0250 075 0400 R020	3	2.5	-	75	-	0.2	4	○
A6G 0250 075 0400 300 R020			30	75	2.39	0.2	4	○
A6G 0250 050 0400 R030			-	50	-	0.3	4	○
A6G 0250 050 0400 100 R030			10	50	2.39	0.3	4	○
A6G 0250 060 0400 R030			-	60	-	0.3	4	○
A6G 0250 060 0400 200 R030			20	60	2.39	0.3	4	○
A6G 0250 075 0400 R030			-	75	-	0.3	4	○
A6G 0250 075 0400 300 R030			30	75	2.39	0.3	4	○
A6G 0250 050 0400 R050			-	50	-	0.5	4	○
A6G 0250 050 0400 100 R050			10	50	2.39	0.5	4	○
A6G 0250 060 0400 R050	3	2.5	-	60	-	0.5	4	○
A6G 0250 060 0400 200 R050			20	60	2.39	0.5	4	○
A6G 0250 075 0400 R050			-	75	-	0.5	4	○
A6G 0250 075 0400 300 R050			30	75	2.39	0.5	4	○
A6G 0300 050 0600 R005			-	50	-	0.05	6	○
A6G 0300 050 0600 040 R005			4	50	2.85	0.05	6	○
A6G 0300 050 0600 060 R005			6	50	2.85	0.05	6	○
A6G 0300 050 0600 080 R005			8	50	2.85	0.05	6	○
A6G 0300 050 0600 120 R005			12	50	2.85	0.05	6	○
A6G 0300 060 0600 R005			-	60	-	0.05	6	●

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6G



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0300 060 0600 160 R005	3	2.5	16	60	2.85	0.05	6	▲
A6G 0300 060 0600 200 R005			20	60	2.85	0.05	6	●
A6G 0300 050 0600 R010			-	50	-	0.1	6	○
A6G 0300 050 0600 040 R010			4	50	2.85	0.1	6	○
A6G 0300 050 0600 060 R010			6	50	2.85	0.1	6	○
A6G 0300 050 0600 080 R010			8	50	2.85	0.1	6	○
A6G 0300 050 0600 100 R010			10	50	2.85	0.1	6	○
A6G 0300 050 0600 120 R010			12	50	2.85	0.1	6	○
A6G 0300 060 0600 R010			-	60	-	0.1	6	○
A6G 0300 060 0600 160 R010			16	60	2.85	0.1	6	○
A6G 0300 060 0600 200 R010			20	60	2.85	0.1	6	○
A6G 0300 075 0600 R010			-	75	-	0.1	6	○
A6G 0300 075 0600 250 R010			25	75	2.85	0.1	6	○
A6G 0300 075 0600 300 R010			30	75	2.85	0.1	6	○
A6G 0300 050 0600 R020			-	50	-	0.2	6	●
A6G 0300 050 0600 040 R020			4	50	2.85	0.2	6	▲
A6G 0300 050 0600 060 R020			6	50	2.85	0.2	6	▲
A6G 0300 050 0600 080 R020			8	50	2.85	0.2	6	●
A6G 0300 050 0600 100 R020			10	50	2.85	0.2	6	●
A6G 0300 050 0600 120 R020			12	50	2.85	0.2	6	●
A6G 0300 060 0600 R020			-	60	-	0.2	6	●
A6G 0300 060 0600 160 R020			16	60	2.85	0.2	6	●
A6G 0300 060 0600 180 R020			18	60	2.85	0.2	6	●
A6G 0300 060 0600 200 R020			20	60	2.85	0.2	6	●
A6G 0300 075 0600 R020			-	75	-	0.2	6	○
A6G 0300 075 0600 250 R020			25	75	2.85	0.2	6	○
A6G 0300 075 0600 300 R020			30	75	2.85	0.2	6	○
A6G 0300 050 0600 R030			-	50	-	0.3	6	○
A6G 0300 050 0600 040 R030			4	50	2.85	0.3	6	○
A6G 0300 050 0600 060 R030			6	50	2.85	0.3	6	○
A6G 0300 050 0600 080 R030			8	50	2.85	0.3	6	○
A6G 0300 050 0600 120 R030			12	50	2.85	0.3	6	●
A6G 0300 060 0600 R030			-	60	-	0.3	6	●
A6G 0300 060 0600 160 R030			16	60	2.85	0.3	6	●
A6G 0300 060 0600 200 R030			20	60	2.85	0.3	6	▲
A6G 0300 075 0600 R030			-	75	-	0.3	6	●
A6G 0300 075 0600 250 R030			25	75	2.85	0.3	6	●
A6G 0300 075 0600 300 R030			30	75	2.85	0.3	6	▲
A6G 0300 050 0600 R050			-	50	-	0.5	6	●
A6G 0300 050 0600 040 R050			4	50	2.85	0.5	6	▲
A6G 0300 050 0600 060 R050			6	50	2.85	0.5	6	▲
A6G 0300 050 0600 080 R050			8	50	2.85	0.5	6	●
A6G 0300 050 0600 120 R050			12	50	2.85	0.5	6	●

Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0300 060 0600 R050	3	2.5	-	60	-	0.5	6	●
A6G 0300 060 0600 160 R050			16	60	2.85	0.5	6	●
A6G 0300 060 0600 200 R050			20	60	2.85	0.5	6	●
A6G 0300 075 0600 R050			-	75	-	0.5	6	●
A6G 0300 075 0600 250 R050			25	75	2.85	0.5	6	●
A6G 0300 075 0600 300 R050			30	75	2.85	0.5	6	●
A6G 0300 050 0600 R100			-	50	-	1	6	●
A6G 0300 050 0600 080 R100			8	50	2.85	1	6	▲
A6G 0300 050 0600 120 R100			12	50	2.85	1	6	●
A6G 0300 060 0600 R100			-	60	-	1	6	●
A6G 0300 060 0600 160 R100			16	60	2.85	1	6	●
A6G 0300 060 0600 200 R100			20	60	2.85	1	6	●
A6G 0300 075 0600 R100			-	75	-	1	6	●
A6G 0300 075 0600 250 R100			25	75	2.85	1	6	▲
A6G 0300 075 0600 300 R100			30	75	2.85	1	6	●
A6G 0400 050 0600 R010		4	-	50	-	0.1	6	○
A6G 0400 050 0600 080 R010			8	50	3.8	0.1	6	○
A6G 0400 050 0600 120 R010			12	50	3.8	0.1	6	●
A6G 0400 060 0600 R010			-	60	-	0.1	6	○
A6G 0400 060 0600 160 R010			16	60	3.8	0.1	6	●
A6G 0400 075 0600 R010			-	75	-	0.1	6	○
A6G 0400 075 0600 240 R010			24	75	3.8	0.1	6	○
A6G 0400 075 0600 320 R010			32	75	3.8	0.1	6	○
A6G 0400 050 0600 R020			-	50	3.8	0.2	6	●
A6G 0400 050 0600 080 R020			8	50	3.8	0.2	6	●
A6G 0400 050 0600 120 R020			12	50	3.8	0.2	6	●
A6G 0400 060 0600 R020			-	60	-	0.2	6	●
A6G 0400 060 0600 160 R020			16	60	3.8	0.2	6	●
A6G 0400 075 0600 R020			-	75	-	0.2	6	●
A6G 0400 075 0600 240 R020			24	75	3.8	0.2	6	●
A6G 0400 075 0600 320 R020			32	75	3.8	0.2	6	●
A6G 0400 050 0600 R030			-	50	3.8	0.3	6	○
A6G 0400 050 0600 080 R030			8	50	3.8	0.3	6	○
A6G 0400 050 0600 120 R030			12	50	3.8	0.3	6	○
A6G 0400 060 0600 R030			-	60	-	0.3	6	●
A6G 0400 060 0600 160 R030			16	60	3.8	0.3	6	●
A6G 0400 075 0600 R030			-	75	-	0.3	6	○
A6G 0400 075 0600 240 R030			24	75	3.8	0.3	6	○
A6G 0400 075 0600 320 R030			32	75	3.8	0.3	6	●
A6G 0400 050 0600 R050			-	50	-	0.5	6	●
A6G 0400 050 0600 080 R050			8	50	3.8	0.5	6	●
A6G 0400 050 0600 120 R050			12	50	3.8	0.5	6	●
A6G 0400 060 0600 R050			-	60	-	0.5	6	●

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6G



Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0400 060 0600 160 R050	4	3.2	16	60	3.8	0.5	6	●
A6G 0400 075 0600 R050			-	75	-	0.5	6	●
A6G 0400 075 0600 240 R050			24	75	3.8	0.5	6	▲
A6G 0400 075 0600 320 R050			32	75	3.8	0.5	6	●
A6G 0400 050 0600 R100			-	50	-	1	6	●
A6G 0400 050 0600 080 R100			8	50	3.8	1	6	▲
A6G 0400 050 0600 120 R100			12	50	3.8	1	6	●
A6G 0400 060 0600 R100			-	60	-	1	6	○
A6G 0400 060 0600 160 R100			16	60	3.8	1	6	○
A6G 0400 075 0600 R100			-	75	-	1	6	●
A6G 0400 075 0600 240 R100			24	75	3.8	1	6	●
A6G 0400 075 0600 320 R100			32	75	3.8	1	6	▲
A6G 0500 060 0600 R010	5	4	-	60	-	0.1	6	○
A6G 0500 060 0600 150 R010			15	60	4.75	0.1	6	○
A6G 0500 075 0600 R010			-	75	-	0.1	6	○
A6G 0500 075 0600 200 R010			20	75	4.75	0.1	6	○
A6G 0500 100 0600 R010			-	100	-	0.1	6	●
A6G 0500 100 0600 400 R010			40	100	4.75	0.1	6	●
A6G 0500 060 0600 R020			-	60	-	0.2	6	○
A6G 0500 060 0600 150 R020			15	60	4.75	0.2	6	○
A6G 0500 075 0600 R020			-	75	-	0.2	6	○
A6G 0500 075 0600 200 R020			20	75	4.75	0.2	6	○
A6G 0500 100 0600 R020			-	100	-	0.2	6	○
A6G 0500 100 0600 400 R020			40	100	4.75	0.2	6	○
A6G 0500 060 0600 R030			-	60	-	0.3	6	○
A6G 0500 060 0600 150 R030			15	60	4.75	0.3	6	○
A6G 0500 075 0600 R030			-	75	-	0.3	6	○
A6G 0500 075 0600 200 R030			20	75	4.75	0.3	6	○
A6G 0500 100 0600 R030			-	100	-	0.3	6	○
A6G 0500 100 0600 400 R030			40	100	4.75	0.3	6	○
A6G 0500 060 0600 R050			-	60	-	0.5	6	●
A6G 0500 060 0600 150 R050			15	60	4.75	0.5	6	●
A6G 0500 075 0600 R050			-	75	-	0.5	6	○
A6G 0500 075 0600 200 R050			20	75	4.75	0.5	6	○
A6G 0500 100 0600 R050			-	100	-	0.5	6	○
A6G 0500 100 0600 400 R050			40	100	4.75	0.5	6	●
A6G 0500 060 0600 R100			-	60	-	1	6	○
A6G 0500 060 0600 150 R100			15	60	4.75	1	6	○
A6G 0500 075 0600 R100			-	75	-	1	6	●
A6G 0500 075 0600 200 R100			20	75	4.75	1	6	●
A6G 0500 100 0600 R100			-	100	-	1	6	●
A6G 0500 100 0600 400 R100			40	100	4.75	1	6	●

Order Number	Dimension (mm)							Stock
	D	l1	l2	L	d1	R	d2(h5)	
A6G 0600 060 0600 R010	6	5	-	60	-	0.1	6	○
A6G 0600 060 0600 120 R010			12	60	5.7	0.1	6	○
A6G 0600 075 0600 R010			-	75	-	0.1	6	○
A6G 0600 075 0600 180 R010			18	75	5.7	0.1	6	○
A6G 0600 075 0600 240 R010			24	75	5.7	0.1	6	○
A6G 0600 100 0600 R010			-	100	-	0.1	6	○
A6G 0600 100 0600 480 R010			48	100	5.7	0.1	6	○
A6G 0600 060 0600 R020			-	60	-	0.2	6	○
A6G 0600 060 0600 120 R020			12	60	5.7	0.2	6	○
A6G 0600 075 0600 R020			-	75	-	0.2	6	●
A6G 0600 075 0600 180 R020			18	75	5.7	0.2	6	●
A6G 0600 075 0600 240 R020			24	75	5.7	0.2	6	▲
A6G 0600 100 0600 R020			-	100	-	0.2	6	○
A6G 0600 100 0600 480 R020			48	100	5.7	0.2	6	○
A6G 0600 060 0600 R030			-	60	-	0.3	6	○
A6G 0600 060 0600 120 R030			12	60	5.7	0.3	6	○
A6G 0600 075 0600 R030			-	75	-	0.3	6	●
A6G 0600 075 0600 180 R030			18	75	5.7	0.3	6	▲
A6G 0600 075 0600 240 R030			24	75	5.7	0.3	6	●
A6G 0600 100 0600 R030			-	100	-	0.3	6	○
A6G 0600 100 0600 480 R030			48	100	5.7	0.3	6	○
A6G 0600 060 0600 R050			-	60	-	0.5	6	●
A6G 0600 060 0600 120 R050			12	60	5.7	0.5	6	●
A6G 0600 075 0600 R050			-	75	-	0.5	6	●
A6G 0600 075 0600 180 R050			18	75	5.7	0.5	6	●
A6G 0600 075 0600 240 R050			24	75	5.7	0.5	6	●
A6G 0600 100 0600 R050			-	100	-	0.5	6	●
A6G 0600 100 0600 480 R050			48	100	5.7	0.5	6	●
A6G 0600 060 0600 R100			-	60	-	1	6	○
A6G 0600 060 0600 120 R100			12	60	5.7	1	6	○
A6G 0600 075 0600 R100			-	75	-	1	6	▲
A6G 0600 075 0600 180 R100			18	75	5.7	1	6	▲
A6G 0600 075 0600 240 R100			24	75	5.7	1	6	●
A6G 0600 100 0600 R100			-	100	-	1	6	●
A6G 0600 100 0600 480 R100			48	100	5.7	1	6	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

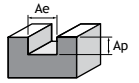
Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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DM70X Miniature Torus Endmills with Long Neck, 4 Flutes – A6G



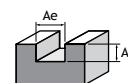
Slotting		H1			H2		
Working Material		Hardened Steel			Hardened Steel		
Properties		45 ≤ HRC < 52			52 ≤ HRC < 68		
D	Effective Length	Ap	Vc	Vf	Ap	Vc	Vf
1	-	0.050	79	2300	0.040	66	2088
	2	0.050	79	2024	0.040	66	1800
	3	0.040	72	1932	0.040	63	1728
	4	0.040	66	1748	0.030	57	1584
	5	0.030	60	1596	0.020	50	1408
	6	0.020	50	1512	0.010	44	1288
	8	0.020	47	1216	0.008	41	1056
	10	0.010	41	952	0.006	35	800
	12	0.010	35	900	0.006	28	730
1.2	-	0.030	63	1800	0.030	53	1512
	5	0.030	63	1368	0.030	53	1176
	10	0.020	41	960	0.010	35	840
1.5	-	0.050	72	2160	0.040	63	1944
	3	0.050	72	1840	0.040	63	1656
	4	0.040	66	1760	0.040	57	1512
	6	0.040	60	1600	0.030	50	1368
	8	0.030	50	1368	0.025	44	1176
	10	0.030	46	1100	0.023	39	1050
	12	0.020	41	952	0.020	35	816
	15	0.020	35	672	0.007	28	528
2	-	0.070	63	2232	0.050	53	1800
	4	0.070	63	1944	0.050	53	1560
	6	0.060	57	1800	0.050	47	1500
	8	0.050	50	1600	0.040	44	1344
	10	0.050	46	1450	0.035	39	1250
	12	0.040	41	1344	0.030	35	1120
	16	0.030	35	1040	0.020	30	883
	20	0.020	25	736	0.010	22	680
2.5	-	0.070	47	2000	0.050	35	1768
	10	0.070	41	1568	0.050	35	1400
	20	0.050	28	1000	0.020	24	990
	30	0.030	17	600	0.010	14	600
3	-	0.120	47	2016	0.070	41	1800
	4	0.120	47	1904	0.070	41	1680
	6	0.100	41	1848	0.070	35	1640
	8	0.100	35	1792	0.070	30	1600
	10	0.090	35	1728	0.065	30	1509
	12	0.080	35	1680	0.060	30	1472
	16	0.070	31	1560	0.050	27	1360
	18	0.070	28	1500	0.045	24	1300
	20	0.070	25	1440	0.040	22	1248
	25	0.060	24	1312	0.020	20	1120
	30	0.030	20	1176	0.020	17	988

cont'd ►



H

DM70X Miniature Torus Endmills with Long Neck, 4 Flutes – A6G



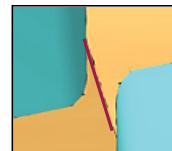
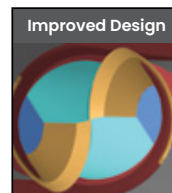
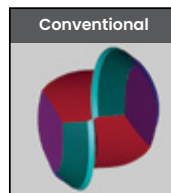
Slotting		H1			H2		
Working Material		Hardened Steel			Hardened Steel		
Properties		45 ≤ HRC < 52			52 ≤ HRC < 68		
D	Effective Length	Ap	Vc	Vf	Ap	Vc	Vf
4	-	0.200	31	2360	0.080	27	2176
	8	0.150	31	1945	0.080	27	1792
	12	0.150	31	1738	0.080	27	1600
	16	0.100	25	1530	0.060	22	1400
	24	0.100	20	1115	0.050	17	980
	32	0.100	17	700	0.020	14	588
5	-	0.120	25	2324	0.080	22	2068
	15	0.120	25	1792	0.080	22	1584
	20	0.070	20	1620	0.070	17	1440
	40	0.050	13	890	0.020	11	798
6	-	0.200	20	2128	0.080	17	1920
	12	0.200	20	1768	0.080	17	1566
	18	0.180	17	1586	0.080	14	1386
	24	0.100	16	1404	0.070	13	1212
	48	0.050	8	700	0.030	6	496

A6Q



Optimized Chisel Angle Design

- Smoother cutting action for superior surface finishing.
- Improved wear resistance on the cutting face for longer tool life.
- Stable cutting behavior for high precision and machining consistency in semi-finishing and finishing operations.



A6Q

Straight Shank

A6R

Straight Shank
with Recess



Z2



A6Q (Straight Shank)



A6R (with Recess)



Order Number	Dimension (mm)							Stock
	D	l1	R	l2	L	d1	d2(h5)	
A6Q 0100 050 04	1	1	0.5		50		4	●
A6Q 0100 050 06					50		6	●
A6Q 0150 050 04	1.5	1.5	0.75		50		4	●
A6Q 0150 050 06					50		6	●
A6Q 0200 050 04	2	2	1		50		4	●
A6Q 0200 050 06					50		6	●
A6Q 0250 050 04	2.5	2.5	1.25		50		4	●
A6Q 0250 050 06					50		6	●
A6Q 0300 050 04	3	3	1.5		50		4	●
A6Q 0300 050 06					50		6	●
A6Q 0400 050 04	4	4	2		50		4	●
A6Q 0400 060 06					60		6	●
A6Q 0500 060 06	5	5	2.5		60		6	●
A6Q 0600 060					60		6	●
A6Q 0600 075	6	6	3		75		6	●
A6Q 0600 100					100		6	●
A6Q 0800 075	8	8	4		75		8	●
A6Q 0800 100					100		8	●
A6Q 1000 075					75		10	●
A6Q 1000 100	10	10	5		100		10	●
A6Q 1000 125					125		10	●
A6Q 1000 150					150		10	●
A6Q 1200 075					75		12	●
A6Q 1200 100	12	12	6		100		12	●
A6Q 1200 150					150		12	○

Order Number	Dimension (mm)							Stock
	D	l1	R	l2	L	d1	d2(h5)	
A6R 0100 050 04	1	1	0.5	3	50	0.95	4	●
A6R 0100 050 06				5	50	0.95	6	●
A6R 0150 050 04 03				3	50	1.45	4	●
A6R 0150 050 04	1.5	1.5	0.75	4.5	50	1.45	4	●
A6R 0150 050 06				7.5	50	1.45	6	●
A6R 0200 050 04 04				4	50	1.94	4	●
A6R 0200 050 04	2	2	1	6	50	1.94	4	●
A6R 0200 050 06				10	50	1.94	6	●
A6R 0250 050 04	2.5	2.5	1.25	7.5	50	2.4	4	▲
A6R 0250 050 06				12.5	50	2.4	6	○
A6R 0300 050 04 06				6	50	2.85	4	▲
A6R 0300 050 04	3	3	1.5	9	50	2.85	4	●
A6R 0300 050 06				15	50	2.85	6	●
A6R 0400 050 04 08				8	50	3.8	4	▲
A6R 0400 050 04	4	4	2	12	50	3.8	4	●
A6R 0400 060 06				20	60	3.8	6	●
A6R 0500 060 06	5	5	2.5	20	60	4.8	6	●
A6R 0600 060 12				12	60	5.8	6	▲
A6R 0600 060 18				18	60	5.8	6	▲
A6R 0600 060	6	6	3	24	60	5.8	6	●
A6R 0600 075 12				12	75	5.8	6	○
A6R 0600 075				24	75	5.8	6	●
A6R 0600 100				24	100	5.8	6	●
A6R 0800 060 16				16	60	7.8	8	▲
A6R 0800 075	8	8	4	24	75	7.8	8	●
A6R 0800 100				24	100	7.8	8	●
A6R 1000 075 24				24	75	9.8	10	▲
A6R 1000 075	10	10	5	30	75	9.8	10	●
A6R 1000 100 24				24	100	9.8	10	▲
A6R 1000 100				30	100	9.8	10	●
A6R 1000 125				30	125	9.8	10	▲
A6R 1000 150				30	150	9.8	10	▲
A6R 1200 075 30				30	75	11.7	12	▲
A6R 1200 075	12	12	6	36	75	11.7	12	●
A6R 1200 100				36	100	11.7	12	▲
A6R 1200 150				36	150	11.7	12	○

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance
D ≤ 2.5	±0.005
3 < D ≤ 6	±0.010
D > 6	±0.015

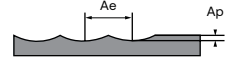
Diameter (mm)	Tolerance
<1	+0 ~ -0.005
1 ≤ D ≤ 2.5	+0 ~ -0.010
2.5 ≤ D ≤ 6	+0 ~ -0.015
6 < D ≤ 10	-0.005 ~ -0.020
>10	-0.010 ~ -0.025

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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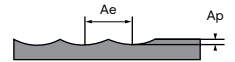


DM70X Ballnose Cutters, 2 Flutes – A6Q, A6R



Roughing	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 < HRC ≤ 65		65 < HRC ≤ 70	
Ap (mm)	0.08 x D		0.05 x D		0.05 x D	
Ae (mm)	0.24 x D		0.15 x D		0.15 x D	
D	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	240	0.014	180	0.012	120	0.012
1.5		0.019		0.018		0.017
2		0.025		0.023		0.023
2.5		0.032		0.029		0.030
3		0.039		0.036		0.037
4		0.054		0.049		0.052
5		0.068		0.061		0.064
6		0.084		0.075		0.074
8		0.116		0.099		0.100
10		0.136		0.124		0.124
12		0.146		0.132		0.134

DM70X Ballnose Cutters, 2 Flutes – A6Q, A6R

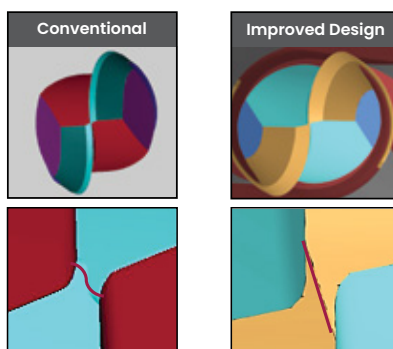


Finishing	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 < HRC ≤ 65		65 < HRC ≤ 70	
Ap (mm)	0.05 - 0.10		0.05 - 0.10		0.05 - 0.10	
Ae (mm)	0.02 x D		0.02 x D		0.02 x D	
D	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	250	0.038	200	0.024	150	0.024
2		0.038		0.043		0.043
3		0.052		0.056		0.057
4		0.076		0.072		0.072
5		0.089		0.086		0.085
6		0.097		0.099		0.095
8		0.111		0.104		0.104
10		0.119		0.114		0.114
12		0.123		0.119		0.119

A6S

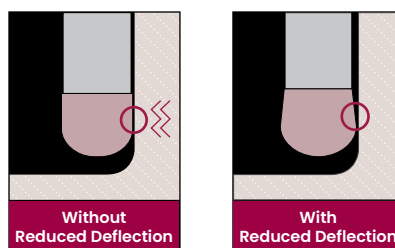
Optimized Chisel Angle Design

- Smoother cutting action for superior surface finishing.
- Improved wear resistance on the cutting face for longer tool life.
- Stable cutting behavior for high precision and machining consistency in semi-finishing and finishing operations.



Back Taper Optimization (<Ø 4mm)

- Prevents unwanted contact between micro tools ($\leq \varnothing 4$ mm) and the workpiece in deep or narrow cavities, reducing vibration and ensuring better surface finishing by maintaining a safe clearance gap.
- Reduces tool deflection for tight tolerance and dimensional accuracy.
- Minimizes vibration for superior surface finishing.



A6S

Miniature
Long Neck
2 Flute



A6S



Order Number	Dimension (mm)							Stock
	D	l1	R	l2	L	d1	d2(h5)	
A6S 0010 050 0400	0.1	0.07	0.05	-	50	-	4	○
A6S 0010 050 0400 0020				0.2	50	0.085	4	○
A6S 0010 050 0400 0030				0.3	50	0.085	4	○
A6S 0010 050 0400 0050				0.5	50	0.085	4	○
A6S 0015 050 0400	0.15	0.1	0.75	-	50	-	4	○
A6S 0015 050 0400 0030				0.3	50	0.13	4	○
A6S 0015 050 0400 0050				0.5	50	0.13	4	○
A6S 0015 050 0400 0100				1	50	0.13	4	○
A6S 0020 050 0400	0.2	0.15	0.1	-	50	-	4	○
A6S 0020 050 0400 0030				0.3	50	0.18	4	●
A6S 0020 050 0400 0050				0.5	50	0.18	4	●
A6S 0020 050 0400 0075				0.75	50	0.18	4	○
A6S 0020 050 0400 0100				1	50	0.18	4	●
A6S 0020 050 0400 0125				1.25	50	0.18	4	○
A6S 0020 050 0400 0150				1.5	50	0.18	4	○
A6S 0020 050 0400 0175				1.75	50	0.18	4	○
A6S 0020 050 0400 0200				2	50	0.18	4	○
A6S 0020 050 0400 0250				2.5	50	0.18	4	○
A6S 0020 050 0400 0300				3	50	0.18	4	○
A6S 0020 050 0600				-	50	-	4	○
A6S 0020 050 0600 0100				1	50	0.18	4	○
A6S 0030 050 0400				-	50	-	4	○
A6S 0030 050 0400 0050				0.5	50	0.28	4	●
A6S 0030 050 0400 0060				0.6	50	0.28	4	●
A6S 0030 050 0400 0075				0.75	50	0.28	4	▲
A6S 0030 050 0400 0100	0.3	0.2	0.15	1	50	0.28	4	●
A6S 0030 050 0400 0125				1.25	50	0.28	4	▲
A6S 0030 050 0400 0150				1.5	50	0.28	4	▲
A6S 0030 050 0400 0175				1.75	50	0.28	4	▲
A6S 0030 050 0400 0200				2	50	0.28	4	●
A6S 0030 050 0400 0225				2.25	50	0.28	4	▲
A6S 0030 050 0400 0250				2.5	50	0.28	4	●
A6S 0030 050 0400 0300				3	50	0.28	4	●
A6S 0030 050 0400 0350				3.5	50	0.28	4	▲
A6S 0030 050 0400 0400				4	50	0.28	4	▲
A6S 0030 050 0600				-	50	-	4	○
A6S 0030 050 0600 0150				1.5	50	0.28	4	○
A6S 0040 050 0400				-	50	-	4	●
A6S 0040 050 0400 0050	0.4	0.3	0.2	0.5	50	0.37	4	●
A6S 0040 050 0400 0080				0.8	50	0.37	4	▲
A6S 0040 050 0400 0100				1	50	0.37	4	●
A6S 0040 050 0400 0150				1.5	50	0.37	4	▲
A6S 0040 050 0400 0200				2	50	0.37	4	●
A6S 0040 050 0400 0250				2.5	50	0.37	4	●
A6S 0040 050 0400 0300				3	50	0.37	4	●
A6S 0040 050 0400 0350				3.5	50	0.37	4	●
A6S 0040 050 0400 0400	0.4	0.3	0.2	4	50	0.37	4	●
A6S 0040 050 0400 0450				4.5	50	0.37	4	▲
A6S 0040 050 0400 0500				5	50	0.37	4	▲
A6S 0040 050 0400 0600				6	50	0.37	4	▲
A6S 0040 050 0600				-	50	-	6	○
A6S 0040 050 0600 0100				1	50	0.37	6	○
A6S 0040 050 0600 0200				2	50	0.37	6	○
A6S 0050 050 0400				-	50	-	4	●
A6S 0050 050 0400 0100				1	50	0.46	4	●
A6S 0050 050 0400 0150				1.5	50	0.46	4	●
A6S 0050 050 0400 0200				2	50	0.46	4	●
A6S 0050 050 0400 0250				2.5	50	0.46	4	●
A6S 0050 050 0400 0300				3	50	0.46	4	●
A6S 0050 050 0400 0350				3.5	50	0.46	4	▲
A6S 0050 050 0400 0400				4	50	0.46	4	●
A6S 0050 050 0400 0450	0.5	0.35	0.25	4.5	50	0.46	4	▲
A6S 0050 050 0400 0500				5	50	0.46	4	●
A6S 0050 050 0400 0550				5.5	50	0.46	4	▲
A6S 0050 050 0400 0600				6	50	0.46	4	●
A6S 0050 050 0400 0800				8	50	0.46	4	▲
A6S 0050 050 0400 1000				10	50	0.46	4	●
A6S 0060 050 0400				-	50	-	4	●
A6S 0060 050 0400 0100				1	50	0.56	4	●
A6S 0060 050 0400 0150				1.5	50	0.56	4	●
A6S 0060 050 0400 0200				2	50	0.56	4	▲
A6S 0060 050 0400 0250				2.5	50	0.56	4	▲
A6S 0060 050 0400 0300				3	50	0.56	4	●
A6S 0060 050 0400 0350				3.5	50	0.56	4	▲
A6S 0060 050 0400 0400				4	50	0.56	4	●
A6S 0060 050 0400 0450				4.5	50	0.56	4	▲
A6S 0060 050 0400 0500	0.6	0.45	0.3	5	50	0.56	4	▲
A6S 0060 050 0400 0550				5.5	50	0.56	4	▲
A6S 0060 050 0400 0600				6	50	0.56	4	●
A6S 0060 050 0400 0700				7	50	0.56	4	▲
A6S 0060 050 0400 0800				8	50	0.56	4	●
A6S 0060 050 0400 0900				9	50	0.56	4	▲
A6S 0060 050 0400 1000				10	50	0.56	4	▲
A6S 0060 050 0400 1200				12	50	0.56	4	●
A6S 0060 050 0600				-	50	-	6	○
A6S 0060 050 0600 0200				2	50	0.56	6	○
A6S 0060 050 0600 0300				3	50	0.56	6	○
A6S 0060 050 0600 0400				4	50	0.56	6	○

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6S



Order Number	Dimension (mm)							Stock
	D	l1	R	l2	L	d1	d2(h5)	
A6S 0070 050 0400	0.7	0.5	0.35	-	50	-	4	▲
A6S 0070 050 0400 0200				2	50	0.66	4	▲
A6S 0070 050 0400 0400				4	50	0.66	4	▲
A6S 0070 050 0400 0600				6	50	0.66	4	●
A6S 0070 050 0400 0800				8	50	0.66	4	▲
A6S 0080 050 0400	0.8	0.6	0.4	-	50	-	4	●
A6S 0080 050 0400 0200				2	50	0.76	4	●
A6S 0080 050 0400 0300				3	50	0.76	4	●
A6S 0080 050 0400 0400				4	50	0.76	4	●
A6S 0080 050 0400 0500				5	50	0.76	4	●
A6S 0080 050 0400 0600				6	50	0.76	4	●
A6S 0080 050 0400 0700				7	50	0.76	4	▲
A6S 0080 050 0400 0800				8	50	0.76	4	●
A6S 0080 050 0400 1000				10	50	0.76	4	●
A6S 0080 050 0400 1200				12	50	0.76	4	●
A6S 0080 050 0600				-	50	-	6	○
A6S 0080 050 0600 0200				2	50	0.76	6	○
A6S 0090 050 0400	0.9	0.65	0.45	-	50	-	4	○
A6S 0090 050 0400 0200				2	50	0.86	4	○
A6S 0090 050 0400 0400				4	50	0.86	4	○
A6S 0090 050 0400 0600				6	50	0.86	4	○
A6S 0090 050 0400 0800				8	50	0.86	4	○
A6S 0100 050 0400	1	0.75	0.5	-	50	-	4	●
A6S 0100 050 0400 0200				2	50	0.95	4	●
A6S 0100 050 0400 0250				2.5	50	0.95	4	●
A6S 0100 050 0400 0300				3	50	0.95	4	●
A6S 0100 050 0400 0400				4	50	0.95	4	●
A6S 0100 050 0400 0500				5	50	0.95	4	●
A6S 0100 050 0400 0600				6	50	0.95	4	●
A6S 0100 050 0400 0700				7	50	0.95	4	▲
A6S 0100 050 0400 0800				8	50	0.95	4	●
A6S 0100 050 0400 0900				9	50	0.95	4	▲
A6S 0100 050 0400 1000				10	50	0.95	4	●
A6S 0100 050 0400 1200				12	50	0.95	4	●
A6S 0100 050 0400 1300				13	50	0.95	4	▲
A6S 0100 050 0400 1400				14	50	0.95	4	●
A6S 0100 050 0400 1600				16	50	0.95	4	●
A6S 0100 050 0400 1800				18	60	0.95	4	▲
A6S 0100 050 0600				-	50	0.95	6	●
A6S 0100 050 0600 0300				3	50	0.95	6	●
A6S 0100 050 0600 0400				4	50	0.95	6	●
A6S 0100 050 0600 0500				5	50	0.95	6	●
A6S 0100 050 0600 0600				6	50	0.95	6	●
A6S 0100 050 0600 0700				7	50	0.95	6	▲
A6S 0100 050 0600 0800	1.2	0.9	0.6	8	50	0.95	6	▲
A6S 0100 050 0600 1000				10	50	0.95	6	▲
A6S 0100 060 0400				-	60	-	4	○
A6S 0100 060 0400 2000				20	60	0.95	4	○
A6S 0100 060 0600				-	60	-	6	●
A6S 0100 060 0600 2200				22	60	0.95	6	●
A6S 0120 050 0400				0	50	-	4	○
A6S 0120 050 0400 0240				2.4	50	1.15	4	○
A6S 0120 050 0400 0400				4	50	1.15	4	○
A6S 0120 050 0400 0600				6	50	1.15	4	○
A6S 0120 050 0400 0800				8	50	1.15	4	○
A6S 0120 050 0400 1000				10	50	1.15	4	○
A6S 0120 050 0400 1200				12	50	1.15	4	○
A6S 0120 050 0400 1400				14	50	1.15	4	○
A6S 0120 050 0400 1600				16	50	1.15	4	○
A6S 0140 050 0400	1.4	1	0.7	-	50	-	4	○
A6S 0140 050 0400 0800				8	50	1.35	4	○
A6S 0140 050 0400 1200				12	50	1.35	4	○
A6S 0140 050 0400 1600				16	50	1.35	4	○
A6S 0150 050 0400	1.5	1.1	0.75	-	50	-	4	●
A6S 0150 050 0400 0300				3	50	1.45	4	●
A6S 0150 050 0400 0400				4	50	1.45	4	●
A6S 0150 050 0400 0600				6	50	1.45	4	●
A6S 0150 050 0400 0800				8	50	1.45	4	●
A6S 0150 050 0400 1000				10	50	1.45	4	●
A6S 0150 050 0400 1200				12	50	1.45	4	●
A6S 0150 050 0400 1400				14	50	1.45	4	▲
A6S 0150 050 0400 1600				16	50	1.45	4	●
A6S 0150 060 0400				-	60	-	4	●
A6S 0150 060 0400 2000				20	60	1.45	4	●
A6S 0150 060 0400 2200				22	60	1.45	4	▲
A6S 0150 075 0400	1.6	1.2	0.8	-	75	-	4	○
A6S 0150 075 0400 3000				30	75	1.45	4	●
A6S 0150 050 0600				-	50	-	6	●
A6S 0150 050 0600 0600				6	50	1.45	6	▲
A6S 0150 050 0600 0800				8	50	1.45	6	▲
A6S 0160 050 0400				-	50	-	4	○
A6S 0160 050 0400 0800				8	50	1.55	4	○
A6S 0160 050 0400 1200				12	50	1.55	4	○
A6S 0160 050 0400 1600				16	50	1.55	4	○
A6S 0160 060 0400				-	60	-	4	○
A6S 0160 060 0400 2000				20	60	1.55	4	○
A6S 0200 050 0400	2	1.5	1	-	50	-	4	●
A6S 0200 050 0400 0300				3	50	1.94	4	●

cont'd ►

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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A6S



Order Number	Dimension (mm)							Stock
	D	I1	R	I2	L	d1	d2(h5)	
A6S 0200 050 0400 0400	2	1.50	1	4	50	1.94	4	●
A6S 0200 050 0400 0600				6	50	1.94	4	●
A6S 0200 050 0400 0800				8	50	1.94	4	●
A6S 0200 050 0400 1000				10	50	1.94	4	●
A6S 0200 050 0400 1200				12	50	1.94	4	●
A6S 0200 050 0400 1300				13	50	1.94	4	▲
A6S 0200 050 0400 1400				14	50	1.94	4	●
A6S 0200 050 0400 1600				16	50	1.94	4	●
A6S 0200 060 0400				-	60	-	4	●
A6S 0200 060 0400 1800				18	60	1.94	4	●
A6S 0200 060 0400 2000				20	60	1.94	4	●
A6S 0200 060 0400 2200				22	60	1.94	4	▲
A6S 0200 075 0400				-	75	-	4	●
A6S 0200 075 0400 2500				25	75	1.94	4	●
A6S 0200 075 0400 3000				30	75	1.94	4	●
A6S 0200 075 0400 3500				35	75	1.94	4	●
A6S 0200 075 0400 4000				40	75	1.94	4	●
A6S 0200 050 0600				-	50	-	6	●
A6S 0200 050 0600 0400				4	50	1.94	6	●
A6S 0200 050 0600 0600				6	50	1.94	6	●
A6S 0200 050 0600 0800				8	50	1.94	6	●
A6S 0200 050 0600 1000				10	50	1.94	6	●
A6S 0200 060 0600				-	60	-	6	○
A6S 0200 060 0600 1600				16	60	1.94	6	○
A6S 0200 075 0600				-	75	-	6	○
A6S 0200 075 0600 2500				25	75	1.94	6	○
A6S 0250 050 0400	2.5	2.30	1.25	-	50	-	4	●
A6S 0250 050 0400 0600				6	50	2.4	4	▲
A6S 0250 050 0400 0800				8	50	2.4	4	●
A6S 0250 050 0400 1000				10	50	2.4	4	●
A6S 0250 050 0400 1500				15	50	2.4	4	●
A6S 0250 060 0400				-	60	-	4	○
A6S 0250 060 0400 2000				20	60	2.4	4	●
A6S 0250 075 0400				-	75	-	4	○
A6S 0250 075 0400 2500				25	75	2.4	4	○
A6S 0250 075 0400 3000				30	75	2.4	4	○
A6S 0250 075 0400 3500				35	75	2.4	4	○
A6S 0300 060 0600	3	2.50	1.5	-	60	-	6	●
A6S 0300 060 0600 0600				6	60	2.85	6	●
A6S 0300 060 0600 0800				8	60	2.85	6	●
A6S 0300 060 0600 1000				10	60	2.85	6	●
A6S 0300 060 0600 1200				12	60	2.85	6	●
A6S 0300 060 0600 1400				14	60	2.85	6	▲
A6S 0300 060 0600 1600				16	60	2.85	6	●
A6S 0300 060 0600 2000				-	60	-	6	●

Order Number	Dimension (mm)							Stock
	D	I1	R	I2	L	d1	d2(h5)	
A6S 0300 060 0600 2000	3	2.5	1.5	20	60	2.85	6	●
A6S 0300 075 0600				-	75	-	6	●
A6S 0300 075 0600 2500				25	75	2.85	6	●
A6S 0300 075 0600 3000				30	75	2.85	6	●
A6S 0300 075 0600 3500				35	75	2.85	6	●
A6S 0300 100 0600	3.5	2.8	1.75	-	100	-	6	▲
A6S 0300 100 0600 4000				40	100	2.85	6	●
A6S 0350 060 0600				-	60	-	6	○
A6S 0350 060 0600 1500				15	60	3.35	6	○
A6S 0350 060 0600 2000				20	60	3.35	6	○
A6S 0350 075 0600				-	75	-	6	○
A6S 0350 075 0600 2500				25	75	3.35	6	○
A6S 0350 075 0600 3000				30	75	3.35	6	○
A6S 0350 075 0600 3500				35	75	3.35	6	○
A6S 0350 100 0600				-	100	-	6	●
A6S 0350 100 0600 4000				40	100	3.35	6	●
A6S 0350 100 0600 4500				45	100	3.35	6	▲
A6S 0400 060 0400	4	3	2	-	60	-	4	●
A6S 0400 060 0400 0800				8	60	3.8	4	●
A6S 0400 060 0600				-	60	-	6	●
A6S 0400 060 0600 0800				8	60	3.8	6	●
A6S 0400 060 0600 1000				10	60	3.8	6	●
A6S 0400 060 0600 1200				12	60	3.8	6	●
A6S 0400 060 0600 1400				14	60	3.8	6	●
A6S 0400 060 0600 1600				16	60	3.8	6	●
A6S 0400 060 0600 2000				20	60	3.8	6	●
A6S 0400 075 0600				-	75	-	6	●
A6S 0400 075 0600 2500	5	3.5	2.5	25	75	3.8	6	●
A6S 0400 075 0600 3000				30	75	3.8	6	●
A6S 0400 075 0600 3500				35	75	3.8	6	▲
A6S 0400 100 0600				-	100	-	6	●
A6S 0400 100 0600 4000				40	100	3.8	6	●
A6S 0400 100 0600 4500				45	100	3.8	6	▲
A6S 0400 100 0600 5000				50	100	3.8	6	●
A6S 0500 060 0600				-	60	-	6	●
A6S 0500 060 0600 1000				10	60	4.8	6	▲
A6S 0500 060 0600 1500				15	60	4.8	6	▲
A6S 0500 060 0600 2000				20	60	4.8	6	●
A6S 0500 075 0600				-	75	-	6	●
A6S 0500 075 0600 2500				25	75	4.8	6	●
A6S 0500 075 0600 3000				30	75	4.8	6	▲
A6S 0500 100 0600				-	100	-	6	○
A6S 0500 100 0600 4000				40	100	4.8	6	○

cont'd ►

	Germany	France	Italy	China
● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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Z2

A6S



Order Number	Dimension (mm)							Stock
	D	l1	R	l2	L	d1	d2(h5)	
A6S 0600 060 0600	6	6	3	-	60	-	6	●
A6S 0600 060 0600 1000				10	60	5.7	6	▲
A6S 0600 060 0600 1500				15	60	5.7	6	●
A6S 0600 060 0600 2000				20	60	5.7	6	●
A6S 0600 075 0600				-	75	-	6	●
A6S 0600 075 0600 2500				25	75	5.7	6	●
A6S 0600 075 0600 3000				30	75	5.7	6	●
A6S 0600 075 0600 3500				35	75	5.7	6	▲
A6S 0600 100 0600				-	100	-	6	○
A6S 0600 100 0600 4000				40	100	5.7	6	○
A6S 0600 100 0600 5000				50	100	5.7	6	○
A6S 0600 120 0600				-	120	-	6	○
A6S 0600 120 0600 6000				60	120	5.7	6	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

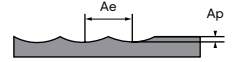
Diameter (mm)	Radius Tolerance	Diameter (mm)	Tolerance
D ≤ 2.5	±0.005	<1	+0 ~ -0.005
3 < D ≤ 6	±0.010	1 ≤ D ≤ 2.5	+0 ~ -0.010
D > 6	±0.015	2.5 ≤ D ≤ 6	+0 ~ -0.015

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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DM70X Miniature Ballnose Cutters with Long Neck, 2 Flutes – A6S

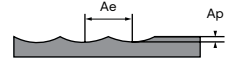


Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
0.1	-	0.003	0.005	13	213	0.002	0.005	13	80
	0.2	0.003	0.005	13	160	0.002	0.005	13	70
	0.3	0.003	0.005	13	133	0.002	0.005	13	63
	0.5	0.002	0.005	13	80	0.001	0.005	13	48
0.15	-	0.003	0.008	19	227	0.002	0.008	19	130
	0.3	0.003	0.008	19	180	0.002	0.008	19	100
	0.5	0.003	0.008	19	149	0.002	0.008	19	80
	1	0.002	0.008	19	70	0.001	0.008	19	30
0.2	-	0.010	0.010	25	383	0.003	0.010	25	219
	0.3	0.010	0.010	25	350	0.003	0.010	25	200
	0.5	0.008	0.010	25	328	0.003	0.010	25	187
	0.75	0.005	0.010	25	300	0.002	0.010	25	172
	1	0.003	0.010	25	272	0.001	0.010	25	156
	1.25	0.003	0.010	25	244	0.001	0.010	25	140
	1.5	0.003	0.010	25	217	0.001	0.010	25	124
	1.75	0.002	0.010	25	189	0.001	0.010	25	109
	2	0.002	0.010	25	161	0.001	0.010	25	93
	2.5	0.001	0.010	25	106	0.001	0.010	25	61
	3	0.001	0.010	25	50	0.001	0.010	25	30
0.3	-	0.010	0.015	38	391	0.003	0.015	38	314
	0.5	0.010	0.015	38	350	0.003	0.015	38	280
	0.6	0.007	0.015	38	342	0.003	0.015	38	273
	0.75	0.007	0.015	38	329	0.003	0.015	38	263
	1	0.007	0.015	38	309	0.003	0.015	38	246
	1.25	0.005	0.015	38	288	0.002	0.015	38	229
	1.5	0.005	0.015	38	267	0.002	0.015	38	211
	1.75	0.003	0.015	38	246	0.002	0.015	38	194
	2	0.003	0.015	38	226	0.002	0.015	38	177
	2.25	0.002	0.015	38	205	0.001	0.015	38	160
	2.5	0.002	0.015	38	184	0.001	0.015	38	143
	3	0.001	0.015	38	143	0.001	0.015	38	109
	3.5	0.001	0.015	38	101	0.001	0.015	38	74
	4	0.001	0.015	38	60	0.001	0.015	38	40
0.4	-	0.030	0.020	50	868	0.009	0.020	50	630
	0.5	0.030	0.020	50	800	0.009	0.020	50	580
	0.8	0.020	0.020	50	759	0.008	0.020	50	550
	1	0.020	0.020	50	732	0.008	0.020	50	530
	1.5	0.010	0.020	50	664	0.005	0.020	50	480
	2	0.010	0.020	50	595	0.005	0.020	50	430
	2.5	0.007	0.020	50	527	0.003	0.020	50	380
	3	0.007	0.020	50	459	0.003	0.020	50	330
	3.5	0.005	0.020	50	391	0.002	0.020	50	280
	4	0.005	0.020	38	323	0.002	0.020	38	230
	4.5	0.003	0.020	38	255	0.001	0.020	38	180
	5	0.002	0.020	38	186	0.001	0.020	38	130
	6	0.001	0.020	38	50	0.001	0.020	38	30

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DM70X Miniature Ballnose Cutters with Long Neck, 2 Flutes – A6S

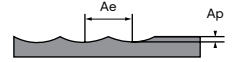


Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
0.5	-	0.030	0.025	63	1107	0.010	0.025	63	720
	1	0.030	0.025	63	1000	0.010	0.025	63	650
	1.5	0.020	0.025	63	947	0.007	0.025	63	615
	2	0.020	0.025	63	893	0.007	0.025	63	580
	2.5	0.010	0.025	63	840	0.005	0.025	63	545
	3	0.010	0.025	63	787	0.005	0.025	63	510
	3.5	0.007	0.025	63	733	0.003	0.025	63	475
	4	0.007	0.025	63	680	0.003	0.025	63	440
	4.5	0.005	0.025	63	627	0.002	0.025	63	405
	5	0.005	0.025	52	573	0.002	0.025	52	370
	5.5	0.003	0.025	47	520	0.001	0.025	47	335
	6	0.002	0.025	47	467	0.001	0.025	47	300
	8	0.002	0.025	47	253	0.001	0.025	47	160
	10	0.001	0.025	31	40	0.001	0.025	31	20
0.6	-	0.050	0.030	75	1520	0.020	0.030	57	781
	1	0.050	0.030	75	1400	0.020	0.030	57	720
	1.5	0.050	0.030	75	1340	0.020	0.030	57	690
	2	0.050	0.030	75	1280	0.020	0.030	57	659
	2.5	0.030	0.030	75	1220	0.020	0.030	57	629
	3	0.030	0.030	75	1160	0.020	0.030	57	598
	3.5	0.020	0.030	75	1100	0.010	0.030	57	568
	4	0.020	0.030	75	1040	0.010	0.030	57	537
	4.5	0.020	0.030	66	980	0.008	0.030	57	507
	5	0.010	0.030	57	920	0.007	0.030	57	476
	5.5	0.010	0.030	57	860	0.005	0.030	57	446
	6	0.007	0.030	57	800	0.004	0.030	57	415
	7	0.005	0.030	47	680	0.003	0.030	38	355
	8	0.003	0.030	47	560	0.002	0.030	38	294
	9	0.003	0.030	47	440	0.001	0.030	38	233
0.7	-	0.070	0.035	88	1960	0.030	0.035	66	1250
	2	0.070	0.035	88	1600	0.030	0.035	66	1000
	4	0.040	0.035	88	1240	0.015	0.035	66	750
	6	0.010	0.035	66	880	0.006	0.035	55	500
	8	0.006	0.035	55	520	0.004	0.035	44	250
0.8	-	0.100	0.040	101	2336	0.050	0.040	75	1400
	2	0.100	0.040	101	2000	0.050	0.040	75	1200
	3	0.100	0.040	101	1832	0.050	0.040	75	1100
	4	0.050	0.040	101	1664	0.030	0.040	75	1000
	5	0.050	0.040	101	1496	0.020	0.040	75	900
	6	0.030	0.040	75	1328	0.010	0.040	63	800
	7	0.020	0.040	75	1160	0.007	0.040	63	700
	8	0.010	0.040	75	992	0.005	0.040	63	600
	10	0.005	0.040	63	656	0.002	0.040	50	400
	12	0.003	0.040	63	320	0.002	0.040	50	200

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DM70X Miniature Ballnose Cutters with Long Neck, 2 Flutes – A6S

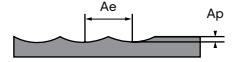


Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
0.9	-	0.100	0.045	113	2600	0.060	0.045	85	1400
	2	0.100	0.045	113	2200	0.060	0.045	85	1300
	4	0.050	0.045	113	1800	0.030	0.045	71	1200
	6	0.035	0.045	85	1400	0.015	0.045	57	1100
	8	0.025	0.045	85	1000	0.008	0.045	57	1000
1	-	0.100	0.050	126	2745	0.080	0.050	79	1537
	2	0.100	0.050	126	2500	0.080	0.050	79	1400
	2.5	0.100	0.050	126	2439	0.080	0.050	79	1366
	3	0.100	0.050	126	2378	0.080	0.050	79	1332
	4	0.100	0.050	126	2255	0.050	0.050	79	1264
	5	0.050	0.050	94	2133	0.030	0.050	63	1195
	6	0.050	0.050	94	2010	0.020	0.050	63	1127
	7	0.040	0.050	94	1888	0.020	0.050	63	1059
	8	0.040	0.050	94	1765	0.020	0.050	63	991
	9	0.030	0.050	79	1643	0.010	0.050	57	922
	10	0.030	0.050	79	1520	0.010	0.050	57	854
	12	0.010	0.050	63	1275	0.005	0.050	50	718
	13	0.008	0.050	63	1153	0.003	0.050	50	649
	14	0.005	0.050	63	1030	0.002	0.050	50	581
	16	0.005	0.050	57	785	0.002	0.050	44	445
	18	0.003	0.050	57	540	0.002	0.050	44	308
	20	0.003	0.050	50	295	0.002	0.050	38	172
	-	0.003	0.050	47	173	0.002	0.050	35	103
	22	0.002	0.050	44	50	0.001	0.050	31	35
1.2	-	0.100	0.060	113	2879	0.050	0.060	94	1859
	2.4	0.100	0.060	113	2500	0.050	0.060	94	1600
	4	0.100	0.060	113	2247	0.050	0.060	94	1427
	6	0.070	0.060	113	1931	0.030	0.060	75	1211
	8	0.050	0.060	113	1615	0.020	0.060	75	995
	10	0.030	0.060	75	1299	0.010	0.060	68	779
	12	0.020	0.060	75	982	0.007	0.060	68	562
	14	0.020	0.060	68	666	0.005	0.060	60	346
1.4	16	0.010	0.060	60	350	0.003	0.060	53	130
	-	0.120	0.070	132	3540	0.030	0.070	88	1550
	8	0.120	0.070	132	2500	0.030	0.070	88	1000
	12	0.070	0.070	88	1752	0.015	0.070	79	725
1.5	16	0.020	0.070	75	1003	0.008	0.070	70	450
	-	0.150	0.075	141	3324	0.100	0.075	118	2218
	3	0.150	0.075	141	3000	0.100	0.075	118	2000
	4	0.150	0.075	141	2892	0.100	0.075	118	1927
	6	0.150	0.075	141	2676	0.100	0.075	118	1782
	8	0.100	0.075	118	2459	0.050	0.075	94	1637
	10	0.100	0.075	118	2243	0.050	0.075	94	1492
	12	0.050	0.075	94	2027	0.020	0.075	85	1347
	14	0.050	0.075	94	1810	0.020	0.075	85	1201
	16	0.030	0.075	85	1594	0.010	0.075	75	1056
	-	0.020	0.075	80	1378	0.009	0.075	71	911
	20	0.010	0.075	75	1161	0.007	0.075	66	766
	22	0.010	0.075	66	945	0.007	0.075	57	621
	-	0.008	0.075	57	513	0.005	0.075	48	330
	30	0.005	0.075	47	80	0.003	0.075	38	40

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DM70X Miniature Ballnose Cutters with Long Neck, 2 Flutes – A6S

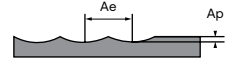


Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
1.6	-	0.100	0.080	126	3850	0.050	0.080	90	2467
	8	0.100	0.080	126	2500	0.050	0.080	90	1600
	12	0.070	0.080	101	1800	0.030	0.080	70	1167
	16	0.030	0.080	80	720	0.015	0.080	60	733
	-	0.020	0.080	75	610	0.013	0.080	55	517
	20	0.010	0.080	70	500	0.010	0.080	50	300
2	-	0.200	0.100	157	3235	0.150	0.100	126	2158
	3	0.200	0.100	157	3000	0.150	0.100	126	2000
	4	0.200	0.100	157	2922	0.150	0.100	126	1947
	6	0.200	0.100	157	2765	0.150	0.100	126	1842
	8	0.200	0.100	126	2608	0.100	0.100	101	1736
	10	0.100	0.100	113	2451	0.100	0.100	88	1631
	12	0.100	0.100	101	2295	0.050	0.100	75	1526
	13	0.080	0.100	101	2216	0.040	0.100	75	1473
	14	0.070	0.100	101	2138	0.030	0.100	75	1420
	16	0.070	0.100	101	1981	0.030	0.100	75	1315
	18	0.050	0.100	88	1824	0.020	0.100	63	1209
	20	0.050	0.100	88	1668	0.020	0.100	63	1104
	22	0.030	0.100	88	1511	0.020	0.100	63	999
	-	0.030	0.100	82	1393	0.015	0.100	58	920
	25	0.030	0.100	75	1276	0.010	0.100	53	841
	30	0.020	0.100	75	884	0.008	0.100	53	577
	35	0.010	0.100	63	492	0.005	0.100	43	314
	40	0.005	0.100	63	100	0.002	0.100	43	50
2.5	-	0.300	0.125	157	3286	0.150	0.125	141	2348
	6	0.300	0.125	157	2800	0.150	0.125	141	2000
	8	0.250	0.125	157	2638	0.120	0.125	141	1884
	10	0.200	0.125	157	2476	0.100	0.125	141	1768
	15	0.100	0.125	141	2071	0.050	0.125	110	1479
	-	0.085	0.125	134	1868	0.040	0.125	95	1334
	20	0.070	0.125	126	1666	0.030	0.125	79	1189
	-	0.060	0.125	118	1463	0.025	0.125	71	1044
	25	0.050	0.125	110	1260	0.020	0.125	63	899
	30	0.030	0.125	94	855	0.010	0.125	55	610
	35	0.020	0.125	79	450	0.007	0.125	49	320
3	-	0.200	0.150	189	3450	0.200	0.150	132	2307
	6	0.200	0.150	189	3000	0.200	0.150	132	2000
	8	0.200	0.150	189	2850	0.200	0.150	132	1898
	10	0.200	0.150	189	2700	0.100	0.150	132	1795
	12	0.200	0.150	189	2550	0.100	0.150	132	1693
	14	0.100	0.150	170	2400	0.100	0.150	113	1591
	16	0.100	0.150	170	2250	0.100	0.150	113	1488
	20	0.100	0.150	170	1950	0.100	0.150	113	1284
	-	0.100	0.150	161	1762	0.075	0.150	104	1156
	25	0.100	0.150	151	1575	0.050	0.150	94	1028
	30	0.070	0.150	132	1200	0.030	0.150	81	772
	35	0.050	0.150	113	825	0.020	0.150	68	516
	-	0.040	0.150	104	638	0.015	0.150	64	387.9
	40	0.030	0.150	94	450	0.010	0.150	60	260

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DM70X Miniature Ballnose Cutters with Long Neck, 2 Flutes – A6S



Profiling		H							
Working Material		Hardened Steel							
Properties		45 ≤ HRC < 52				52 ≤ HRC < 68			
D	Effective Length	Ap	Ae	Vc	Vf	Ap	Ae	Vc	Vf
3.5	-	0.250	0.175	220	3800	0.130	0.175	154	2090
	15	0.250	0.175	220	3000	0.130	0.175	154	1500
	20	0.180	0.175	198	2617	0.100	0.175	132	1303
	-	0.150	0.175	187	2425	0.080	0.175	121	1205
	25	0.120	0.175	176	2233	0.060	0.175	110	1107
	30	0.100	0.175	154	1850	0.050	0.175	99	910
	35	0.080	0.175	143	1467	0.030	0.175	82	713
	-	0.075	0.175	132	1275	0.025	0.175	80	615
	40	0.070	0.175	121	1083	0.020	0.175	77	517
	45	0.060	0.175	110	700	0.015	0.175	66	320
4	-	0.300	0.200	251	3467	0.200	0.200	151	2301
	8	0.300	0.200	251	3000	0.200	0.200	151	2000
	10	0.300	0.200	251	2883	0.200	0.200	151	1925
	12	0.300	0.200	251	2767	0.200	0.200	151	1850
	14	0.300	0.200	251	2650	0.200	0.200	151	1774
	16	0.200	0.200	201	2533	0.100	0.200	126	1699
	20	0.200	0.200	201	2300	0.100	0.200	126	1549
	-	0.200	0.200	201	2154	0.100	0.200	126	1455
	25	0.200	0.200	201	2008	0.100	0.200	126	1360
	30	0.100	0.200	176	1717	0.050	0.200	103	1172
	35	0.100	0.200	176	1425	0.050	0.200	103	984
	-	0.085	0.200	164	1279	0.040	0.200	94	890
	40	0.070	0.200	151	1133	0.030	0.200	85	796
	45	0.070	0.200	151	842	0.030	0.200	85	608
	50	0.050	0.200	126	550	0.020	0.200	69	420
5	-	0.300	0.250	283	3600	0.200	0.250	145	2450
	10	0.300	0.250	283	3000	0.200	0.250	145	2000
	15	0.300	0.250	283	2700	0.200	0.250	145	1775
	20	0.300	0.250	236	2400	0.150	0.250	126	1550
	-	0.250	0.250	236	2250	0.125	0.250	120	1438
	25	0.200	0.250	236	2100	0.100	0.250	113	1325
	30	0.200	0.250	189	1800	0.100	0.250	101	1100
	-	0.150	0.250	173	1500	0.075	0.250	94	875
	40	0.100	0.250	157	1200	0.050	0.250	86	650
6	-	0.300	0.300	302	3480	0.200	0.300	132	2340
	10	0.300	0.300	302	3000	0.200	0.300	132	2000
	15	0.300	0.300	302	2760	0.200	0.300	132	1830
	20	0.300	0.300	302	2520	0.200	0.300	132	1660
	-	0.300	0.300	302	2400	0.175	0.300	132	1575
	25	0.300	0.300	302	2280	0.150	0.300	132	1490
	30	0.200	0.300	264	2040	0.150	0.300	123	1320
	35	0.200	0.300	245	1800	0.120	0.300	109	1150
	-	0.200	0.300	236	1680	0.110	0.300	104	1065
	40	0.200	0.300	226	1560	0.100	0.300	98	980
	50	0.100	0.300	155	1080	0.050	0.300	75	640
	-	0.085	0.300	134	840	0.040	0.300	61	470
	60	0.070	0.300	113	600	0.030	0.300	47	300

K76



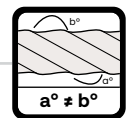
Multi-Flute (MF)

- Large number of cutting edges up to 7 flutes.
- Higher feed rate (up to 75% more compared with a 4-Flute design).
- Greater core strength and minimized tool deflection.
- Higher quality of surface finishing.

Differential Helix (DH)

Reduces the cutting force:

- Allows high speed machining, increasing productivity.
- Improves surface finishing.

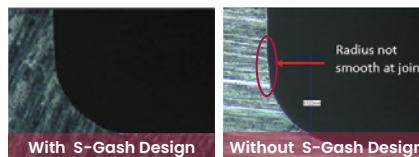


High Helix Angle

- Higher stability to reduce vibration and chattering.
- Sharper radius rake angle to reduce spindle load.
- Increases tool life and productivity performance.

S-Gash Radius Design

- Perfect joining between corner radius and outer diameter to achieve higher accuracy radius contour.
- More reliable corner radius with lower risk of chipping.
- Stronger corner radius design to increase tool life.
- Quieter machining benefiting machinists well-being.



K76

DH Square
with Recess



K77

DH Square

K76/K77

DM70 Multiflute Endmill / with Recess, 6 – 7 Flutes



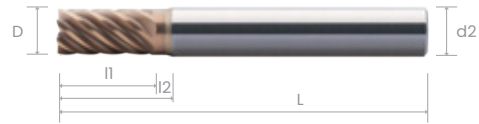
Z6 - Z7



K77 (Straight Shank)



K76 (with Recess)



Order Number	Dimension (mm)						Stock
	D	I1	I2	L	d2(h5)	Z	
K77 0300 057 06	3	8		57	6	6	●
K77 0400 057 06	4	11		57	6	6	●
K77 0500 057 06	5	12		57	6	6	●
K77 0600 057	6	15		57	6	7	●
K77 0800 064	8	20		64	8	7	●
K77 1000 072	10	22		72	10	7	●
K77 1200 083	12	25		83	12	7	●
K77 1600 092	16	30		92	16	7	●
K77 2000 104	20	38		104	20	7	●

Order Number	Dimension (mm)						Stock
	D	I1	I2	L	d2(h5)	Z	
K76 0300 057 06	3	8	20	57	6	6	●
K76 0400 057 06	4	11	20	57	6	6	●
K76 0500 057 06	5	12	20	57	6	6	●
K76 0600 057	6	15	20	57	6	7	●
K76 0800 064	8	20	26	64	8	7	●
K76 1000 072	10	22	30	72	10	7	●
K76 1200 083	12	25	36	83	12	7	●
K76 1600 092	16	30	42	92	16	7	●
K76 2000 104	20	38	52	104	20	7	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Diameter (mm)	Tolerance
D ≤ 2.5	+0 ~ -0.015
2.5 ≤ D ≤ 5	+0 ~ -0.020
6 ≤ D ≤ 10	+0 ~ -0.025
10 < D ≤ 12	-0.005 ~ -0.030
D > 12	-0.010 ~ -0.035

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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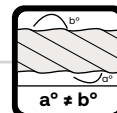
K73



Differential Helix (DH)

Reduces the cutting force:

- Allows high speed machining, increasing productivity.
- Improves surface finishing.

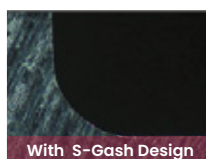


High Helix Angle

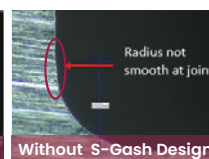
- Higher stability to reduce vibration and chattering.
- Sharper radius rake angle to reduce spindle load.
- Increases tool life and productivity performance.

S-Gash Radius Design

- Perfect joining between corner radius and outer diameter to achieve higher accuracy radius contour.
- More reliable corner radius with lower risk of chipping.
- Stronger corner radius design to increase tool life.
- Quieter machining benefiting machinists well-being.



With S-Gash Design



Without S-Gash Design

Radius not smooth at joint

K73

DH Torus
with Recess

K73

DM70 Multiflute Torus Endmill with Recess, 6 – 7 Flutes

HPMT



Z6 - Z7



Order Number	Dimension (mm)							Stock
	D	L1	L2	L	d2(h6)	R	Z	
K73 0300 057 0600 020	3	8	20	57	6	0.2	6	●
K73 0400 057 0600 020	4	11	20	57	6	0.2	6	●
K73 0500 057 0600 030	5	12	20	57	6	0.3	6	●
K73 0600 057 0600 050	6	15	20	57	6	0.5	7	●
K73 0600 057 0600 100			20	57	6	1	7	●
K73 0800 064 0800 050	8	20	26	64	8	0.5	7	●
K73 0800 064 0800 080			26	64	8	0.8	7	●
K73 1000 072 1000 050	10	22	30	72	10	0.5	7	●
K73 1000 072 1000 080			30	72	10	0.8	7	●
K73 1000 072 1000 100			30	72	10	1	7	●
K73 1200 083 1200 050	12	25	36	83	12	0.5	7	●
K73 1200 083 1200 100			36	83	12	1	7	●
K73 1200 083 1200 150			36	83	12	1.5	7	●
K73 1600 092 1600 200	16	30	42	92	16	2	7	●
K73 1600 092 1600 300			42	92	16	3	7	●
K73 2000 104 2000 300	20	38	52	104	20	3	7	●

● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

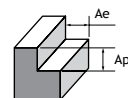
Diameter (mm)	Tolerance
D ≤ 2.5	+0 ~ -0.015
2.5 ≤ D ≤ 5	+0 ~ -0.020
6 ≤ D ≤ 10	+0 ~ -0.025
10 < D ≤ 12	-0.005 ~ -0.030
D > 12	-0.010 ~ -0.035

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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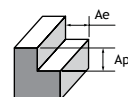


DM70 Torus DH Multiflute / with Recess Endmill, 6 Flutes – K73, K76, K77



Side Milling	H			
Working Material	Hardened Steel			
Properties	45 ≤ HRC < 52		52 ≤ HRC < 68	
Ap (mm)	1.00 × D		1.00 × D	
Ae (mm)	0.05 × D		0.05 × D	
D	Vc	Fz	Vc	Fz
3	150	0.011	110	0.01
4		0.016		0.015
5		0.021		0.019

DM70 Torus DH Multiflute / with Recess Endmill, 7 Flutes – K73, K76, K77



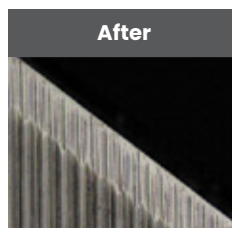
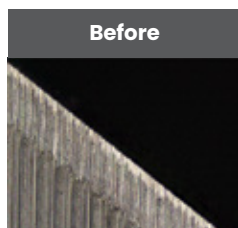
Side Milling	H			
Working Material	Hardened Steel			
Properties	45 ≤ HRC < 52		52 ≤ HRC < 68	
Ap (mm)	1.00 × D		1.00 × D	
Ae (mm)	0.05 × D		0.05 × D	
D	Vc	Fz	Vc	Fz
6	150	0.027	110	0.025
8		0.038		0.035
10		0.050		0.046
12		0.066		0.059
16		0.085		0.075
20		0.099		0.09

M17



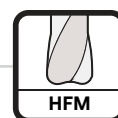
Supreme Edge Technology

- Uniform cutting edges ensure consistent machining.
- Smooth edge surface enhances coating adhesion and chip flow for superior surface finishing.
- Reduced friction and abrasion resistance contribute to longer tool life.



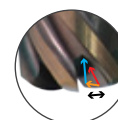
High Feed Profile

- Enables high-feed machining with thin-chip formation for higher MRR and improved chip evacuation.



Axial Cutting Force Design

- Directs most cutting forces along the spindle axis, minimizing tool deflection.
- Enhances stability during high-feed machining, even in long overhang setups.



Proven Tough PVD Silicon Based Coating

- Prolong the tool life.
- Increases hardness and higher abrasive wear resistance.
- Smoother chip evacuation.



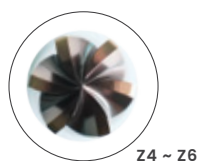
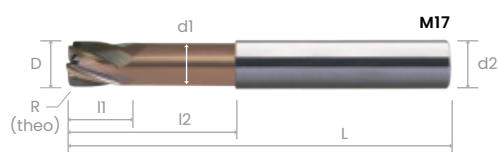
M17

High Feed
Endmill
with Recess

M17

DM70X High Feed Endmill with Recess, 4 – 6 Flutes

HPMT



Order Number	Length	D	l1	l2	d1	L	d2 h6	R (theo)	Z	Availability
M17 0100 050 04	Standard	1	1	3	0.9	50	4	0.134	4	○
M17 0150 050 04		1.5	1.5	4.5	1.35	50	4	0.164	4	○
M17 0200 050 04		2	2	6	1.8	50	4	0.194	4	○
M17 0250 050 04		2.5	2.5	7.5	2.25	50	4	0.299	4	○
M17 0300 050 04		3	3	9	2.7	50	4	0.328	5	○
M17 0400 050 04		4	4	12	3.6	50	4	0.387	5	●
M17 0600 060 06		6	5	24	5.4	60	6	0.671	6	●
M17 0800 064 08		8	7	28	7.2	64	8	0.849	6	●
M17 1000 070 10		10	8	30	9	70	10	0.968	6	●
M17 1200 075 12		12	10	30	11	75	12	1.088	6	●
M17 1600 090 16		16	14	44	15	90	16	1.337	6	●
M17 0600 075 06	Long	6	5	36	5.4	75	6	0.671	6	○
M17 0800 080 08		8	7	40	7.2	80	8	0.849	6	○
M17 1000 100 10		10	8	60	9	100	10	0.968	6	●
M17 1200 100 12		12	10	55	11	100	12	1.088	6	●
M17 1600 125 16		16	14	77	15	125	16	1.337	6	○
M17 0100 050 04 16	Extra-Long	1	1	16	0.9	50	4	0.134	6	●
M17 0600 082 06		6	5	46	5.4	82	6	0.671	6	○
M17 0800 100 08		8	7	56	7.2	100	8	0.849	6	○
M17 1000 125 10		10	8	85	9	125	10	0.968	6	●
M17 1200 125 12		12	10	80	11	125	12	1.088	6	●
M17 1600 150 16		16	14	100	15	150	16	1.337		○

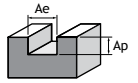
● Ex Stock	ab Lager	De Stock	Da Magazzino	有库存
○ Make to Order (4 weeks)	Auftragsfertigung (4 Wochen)	Fabrication sur commande (4 semaines)	Produzione su ordinazione (4 settimane)	定制生产 (4周)
▲ 2 Weeks	2 Wochen	2 semaines	2 settimane	2周

Material Group | Materialgruppe | Groupe Matière | Gruppo Materiali | 材质主类

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02
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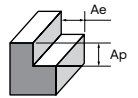


DM70X High Feed Endmill with Recess, Standard Length, 6 Flutes – M17



Slotting	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.03 x D		0.02 x D		0.01 x D	
Ae (mm)	1.00 x D		1.00 x D		1.00 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
1	90	0.022	80	0.020	70	0.017
1.5		0.033		0.029		0.026
2		0.042		0.037		0.033
2.5		0.051		0.045		0.040
3		0.066		0.059		0.052
4		0.077		0.069		0.061
6		0.088		0.079		0.070
8		0.105		0.094		0.084
10		0.116		0.104		0.092
12		0.127		0.114		0.101
16		0.140		0.126		0.112

DM70X High Feed Endmill with Recess, Standard Length, 6 Flutes – M17

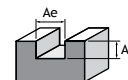


Side Milling	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.03 x D		0.02 x D		0.01 x D	
Ae (mm)	0.40 x D		0.40 x D		0.40 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
1	90	0.028	80	0.025	70	0.022
1.5		0.042		0.037		0.033
2		0.053		0.047		0.042
2.5		0.064		0.057		0.051
3		0.083		0.074		0.066
4		0.097		0.087		0.077
6		0.110		0.099		0.088
8		0.132		0.118		0.105
10		0.145		0.130		0.116
12		0.160		0.143		0.127
16		0.176		0.158		0.140



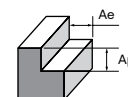
H

DM70X High Feed Endmill with Recess, Long Length, 6 Flutes – M17



Slotting	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.02 x D		0.02 x D		0.01 x D	
Ae (mm)	1.00 x D		1.00 x D		1.00 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
6	70	0.066	60	0.059	50	0.052
8		0.078		0.070		0.063
10		0.087		0.078		0.069
12		0.095		0.085		0.075
14		0.102		0.092		0.081
16		0.105		0.094		0.084

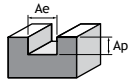
DM70X High Feed Endmill with Recess, Long Length, 6 Flutes – M17



Side Milling	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.02 x D		0.02 x D		0.01 x D	
Ae (mm)	0.40 x D		0.40 x D		0.40 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
6	70	0.088	60	0.079	50	0.070
8		0.105		0.094		0.084
10		0.116		0.104		0.092
12		0.127		0.114		0.101
14		0.138		0.125		0.110
16		0.140		0.126		0.112

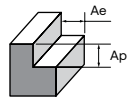


DM70X High Feed Endmill with Recess, Extra-Long Length, 6 Flutes - M17



Slotting	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.01 x D		0.01 x D		0.01 x D	
Ae (mm)	1.00 x D		1.00 x D		1.00 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
6	50	0.041	40	0.039	30	0.036
8		0.049		0.046		0.044
10		0.054		0.051		0.048
12		0.059		0.056		0.053
14		0.063		0.060		0.057
16		0.065		0.061		0.058

DM70X High Feed Endmill with Recess, Extra-Long Length, 6 Flutes - M17



Side Milling	H					
Working Material	Hardened Steel					
Properties	50 ≤ HRC ≤ 55		55 ≤ HRC ≤ 65		65 ≤ HRC < 70	
Ap (mm)	0.01 x D		0.01 x D		0.01 x D	
Ae (mm)	0.40 x D		0.40 x D		0.40 x D	
D	Vc	Fz	Vc	Fz	Vc	Fz
6	50	0.055	40	0.052	30	0.049
8		0.066		0.062		0.059
10		0.072		0.068		0.064
12		0.079		0.075		0.071
14		0.084		0.080		0.076
16		0.087		0.082		0.078

