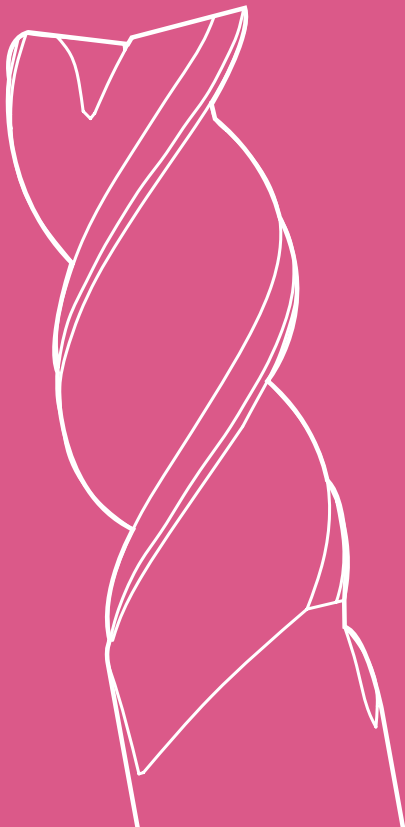


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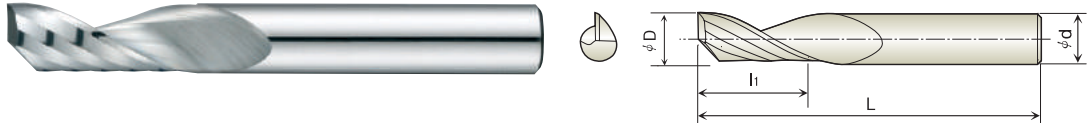
SERIES



초경, 1날 알루미늄, 수지가공용 스퀘어(플랫) 엔드밀

1 FLUTES SQUARE (FLAT) END MILLS FOR ALUMINIUM, RESIN, ABS.

- ◆ ABS, 아크릴, 알루미늄 등 비철비금속 피삭재 가공 탁월
- ◆ 칩배출 우수하여 피삭재 절단, 측면가공에 적합
- ◆ 다양한 피삭재 크기에 적용하도록 날장길이, 온길이 다양화
- ◆ Outstanding performance for ABS, Acryl, Aluminium, Non-Ferrous Metal.
- ◆ Suitable for Cut-off and Side Cutting due to well chip flow.
- ◆ Available to choose the variety of cutting length and overall length.



unit (mm)

신규 모델번호 Model No.	구 모델번호 Model No.	인선 직경 Outside Diameter D	날 장 Length of cut l ₁	생크 경 Shank Diameter d	전 장 Overall Length L
● 1ALE 005 010 440		0.5	1	4	40
● 1ALE 006 012 440		0.6	1.2	4	40
● 1ALE 007 014 440		0.7	1.4	4	40
● 1ALE 008 016 440		0.8	1.6	4	40
● 1ALE 009 018 440		0.9	1.8	4	40
● 1ALE 010 030 645		1	3	6	45
● 1ALE 010 040 645		1	4	6	45
● 1ALE 010 050 645		1	5	6	45
● 1ALE 010 060 650		1	6	6	50
● 1ALE 015 040 645		1.5	4	6	45
● 1ALE 015 060 650		1.5	6	6	50
● 1ALE 015 080 650		1.5	8	6	50
● 1ALE 015 100 650		1.5	10	6	50
● 1ALE 020 060 650		2	6	6	50
● 1ALE 020 080 650		2	8	6	50
● 1ALE 020 100 650		2	10	6	50
● 1ALE 020 120 650		2	12	6	50
● 1ALE 030 080 650		3	8	6	50
● 1ALE 030 100 650		3	10	6	50
● 1ALE 030 120 650		3	12	6	50
● 1ALE 030 160 650		3	16	6	50
● 1ALE 040 120 650		4	12	6	50
● 1ALE 040 160 650		4	16	6	50
● 1ALE 040 210 660		4	21	6	60
● 1ALE 050 160 660		5	16	6	60
● 1ALE 050 210 660		5	21	6	60
● 1ALE 050 260 660		5	26	6	60
● 1ALE 060 160 660		6	16	6	60
● 1ALE 060 210 660		6	21	6	60
● 1ALE 060 260 665		6	26	6	65
● 1ALE 060 320 670		6	32	6	70
● 1ALE 080 210 870		8	21	8	70

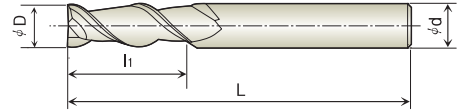
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초경, 2날 45° 헬릭스 알루미늄용 스퀘어(플랫) 엔드밀

2 FLUTES 45° HELIX SQUARE(FLAT) END MILLS FOR ALUMINIUM

- ◆ 알루미늄 및 알루미늄 합금, 비철계열 피삭재 적용 탁월
- ◆ "경면 실현으로 면조도 및 내마모성 향상.
- ◆ 다양한 날장길이, 온길이 선택으로 맞춤 가공 가능.
- ◆ Outstanding performance for Aluminium, Aluminium Alloy and Non Ferrous metal.
- ◆ Improvement of surface roughness and wear resistance due to having "Mirror face".
- ◆ Available to choose the variety of cutting length and overall length

MG	2
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unit (mm)

신규 모델번호 Model No.	구 모델번호 Model No.	인선직경 Outside Diameter D	날 장 Length of cut L ₁	생크경 Shank Diameter d	전 장 Overall Length L
● 2ALE 010 030 650		1	3	6	50
● 2ALE 010 060 660		1	6	6	60
● 2ALE 012 040 650		1.2	4	6	50
● 2ALE 015 060 650		1.5	6	6	50
● 2ALE 015 080 650		1.5	8	6	60
● 2ALE 020 060 650		2	6	6	50
● 2ALE 020 100 650		2	10	6	60
● 2ALE 025 120 660		2.5	12	6	60
● 2ALE 030 120 660		3	12	6	60
● 2ALE 030 150 665		3	15	6	65
● 2ALE 040 140 660		4	14	6	60
● 2ALE 040 160 665		4	16	6	65
● 2ALE 050 170 660		5	17	6	60
● 2ALE 050 220 660		5	22	6	60
● 2ALE 060 170 660		6	17	6	60
● 2ALE 060 220 660		6	22	6	60
● 2ALE 070 230 865		7	23	8	65
● 2ALE 080 230 870		8	23	8	70
● 2ALE 080 310 880		8	31	8	80
● 2ALE 100 280 A75		10	28	10	75
● 2ALE 100 360 A90		10	36	10	90
● 2ALE 120 330 C80		12	33	12	80
● 2ALE 120 410 CA0		12	41	12	100
● 2ALE 120 450 CA0		12	45	12	100
● 2ALE 140 380 E90		14	38	14	90
● 2ALE 160 450 GA0		16	45	16	100
● 2ALE 160 530 GB0		16	53	16	110
● 2ALE 180 490 IA0		18	49	18	100
● 2ALE 200 500 KA0		20	50	20	100
● 2ALE 200 500 KB0		20	55	20	110
● 2ALE 250 500 PC0		25	50	25	120

▶ 인선직경 14부터 주문생산

사이즈	인선직경공차(mm)
D Size	D Tolerance
1~25	0~-0.010

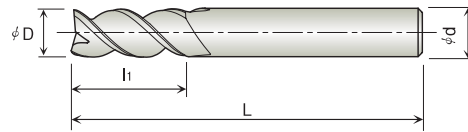
● : NEW

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초경, 3날 45° 헬릭스 알루미늄용 스퀘어(플랫) 엔드밀

3 FLUTES 45° HELIX SQUARE (FLAT) END MILLS FOR ALUMINIUM

- ◆ 알루미늄 및 알루미늄 합금, 비철계열 피삭재 적용 탁월
- ◆ "경면 실현"으로 면조도 및 내마모성 향상.
- ◆ 다양한 날장길이, 온길이 선택으로 맞춤 가공 가능.
- ◆ 균형잡힌 3날로 뛰어난 강성과 가공성능 발휘.
- ◆ Outstanding performance for Aluminium, Aluminium Alloy and Non Ferrous metal.
- ◆ Improvement of surface roughness and wear resistance due to having "Mirror face".
- ◆ Available to choose the variety of cutting length and overall length.
- ◆ Outstanding performance for well Rigidity and performance with well balanced 3 flutes



MG

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		unit (mm)			
신규 모델 번호	구 모델 번호	인선직경	날 장	생크경	전 장
Model No.	Model No.	Outside Diameter	Length of cut	Shank Diameter	Overall Length
		D	l ₁	d	L
● 3ALE 010 020 640		1	2	6	40
● 3ALE 010 025 640		1	2.5	6	40
● 3ALE 010 030 650		1	3	6	50
● 3ALE 010 040 660		1	4	6	60
● 3ALE 010 060 660		1	6	6	60
● 3ALE 012 040 650		1.2	4	6	50
● 3ALE 015 030 640		1.5	3	6	40
● 3ALE 015 050 650		1.5	5	6	50
● 3ALE 015 060 660		1.5	6	6	60
● 3ALE 015 080 660		1.5	8	6	60
● 3ALE 015 100 660		1.5	10	6	60
● 3ALE 020 030 640		2	3	6	40
● 3ALE 020 060 650		2	6	6	50
● 3ALE 020 080 660		2	8	6	60
● 3ALE 020 100 660		2	10	6	60
● 3ALE 020 120 660		2	12	6	60
● 3ALE 025 080 640		2.5	8	6	40
● 3ALE 025 100 660		2.5	10	6	60
● 3ALE 025 120 660		2.5	12	6	60
● 3ALE 030 040 645		3	4	6	45
● 3ALE 030 080 645		3	8	6	45
● 3ALE 030 110 660		3	11	6	60
● 3ALE 030 150 665		3	15	6	65
● 3ALE 030 200 670		3	20	6	70
● 3ALE 030 250 675		3	25	6	75
● 3ALE 030 300 680		3	30	6	80
● 3ALE 035 120 660		3.5	12	6	60
● 3ALE 040 050 645		4	5	6	45
● 3ALE 040 080 645		4	8	6	45
● 3ALE 040 110 645		4	11	6	45
● 3ALE 040 130 660		4	13	6	60
● 3ALE 040 160 665		4	16	6	65

▶ 인선직경 14부터 주문생산

● : NEW

초경, 3날 45° 헬릭스 알루미늄용 스퀘어(플랫) 엔드밀

3 FLUTES 45° HELIX SQUARE(FLAT) END MILLS FOR ALUMINIUM

unit (mm)

신규 모델번호 Model No.	구 모델번호 Model No.	인선직경 Outside Diameter D	날 장 Length of cut l ₁	생크경 Shank Diameter d	전 장 Overall Length L
● 3ALE 040 200 670		4	20	6	70
● 3ALE 040 260 675		4	26	6	75
● 3ALE 040 300 680		4	30	6	80
● 3ALE 045 150 660		4.5	15	6	60
● 3ALE 050 060 645		5	6	6	45
● 3ALE 050 170 660		5	17	6	60
● 3ALE 050 220 660		5	22	6	60
● 3ALE 050 250 670		5	25	6	70
● 3ALE 050 300 675		5	30	6	75
● 3ALE 050 350 680		5	35	6	80
● 3ALE 050 400 685		5	40	6	85
● 3ALE 050 450 690		5	45	6	90
● 3ALE 055 170 660		5.5	17	6	60
● 3ALE 060 070 650		6	7	6	50
● 3ALE 060 130 650		6	13	6	50
● 3ALE 060 170 660		6	17	6	60
● 3ALE 060 220 660		6	22	6	60
● 3ALE 060 250 670		6	25	6	70
● 3ALE 060 300 675		6	30	6	75
● 3ALE 060 350 680		6	35	6	80
● 3ALE 060 420 690		6	42	6	90
● 3ALE 060 500 6A0		6	50	6	100
● 3ALE 070 220 865		7	22	8	65
● 3ALE 080 090 860		8	9	8	60
● 3ALE 080 190 860		8	19	8	60
● 3ALE 080 220 870		8	22	8	70
● 3ALE 080 280 880		8	28	8	80
● 3ALE 080 300 880		8	30	8	80
● 3ALE 080 350 885		8	35	8	85
● 3ALE 080 400 890		8	40	8	90
● 3ALE 080 450 895		8	45	8	95
● 3ALE 080 500 8A0		8	50	8	100
● 3ALE 080 550 8B0		8	55	8	110
● 3ALE 080 660 8B0		8	66	8	110
● 3ALE 090 270 A70		9	27	10	70
● 3ALE 100 110 A65		10	11	10	65
● 3ALE 100 220 A65		10	22	10	65
● 3ALE 100 270 A75		10	27	10	75
● 3ALE 100 320 A90		10	32	10	90
● 3ALE 100 350 A90		10	35	10	90
● 3ALE 100 400 A90		10	40	10	90
● 3ALE 100 450 AA0		10	45	10	100
● 3ALE 100 500 AA0		10	50	10	100
● 3ALE 100 550 AB0		10	55	10	110
● 3ALE 100 600 AB0		10	60	10	110
● 3ALE 100 650 AC0		10	65	10	120

MG 3
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초경, 3날 45° 헬릭스 알루미늄용 스퀘어(플랫) 엔드밀

3 FLUTES 45° HELIX SQUARE(FLAT) END MILLS FOR ALUMINIUM

unit (mm)

신규 모델 번호 Model No.	구 모델 번호 Model No.	인선직경 Outside Diameter D	날 장 Length of cut l ₁	생크경 Shank Diameter d	전 장 Overall Length L
● 3ALE 120 130 C70		12	13	12	70
● 3ALE 120 260 C70		12	26	12	70
● 3ALE 120 320 C80		12	32	12	80
● 3ALE 120 400 CA0		12	40	12	100
● 3ALE 120 450 CA0		12	45	12	100
● 3ALE 120 500 CA0		12	50	12	100
● 3ALE 120 550 CB0		12	55	12	110
● 3ALE 120 600 CB0		12	60	12	110
● 3ALE 120 650 CC0		12	65	12	120
● 3ALE 120 700 CC0		12	70	12	120
● 3ALE 120 750 CE0		12	75	12	140
● 3ALE 120 800 CE0		12	80	12	140
● 3ALE 140 370 E90		14	37	14	90
● 3ALE 140 370 G90		14	37	16	90
● 3ALE 160 180 G90		16	18	16	90
● 3ALE 160 320 G90		16	32	16	90
● 3ALE 160 420 GA0		16	42	16	100
● 3ALE 160 520 GB0		16	52	16	110
● 3ALE 160 550 GB0		16	55	16	110
● 3ALE 160 650 GD0		16	65	16	130
● 3ALE 160 750 GF0		16	75	16	150
● 3ALE 160 850 GG0		16	85	16	160
● 3ALE 160 950 GI0		16	95	16	180
● 3ALE 160 1050 GK0		16	105	16	200
● 3ALE 160 1150 GK0		16	115	16	200
● 3ALE 180 450 IA0		18	45	18	100
● 3ALE 200 230 K90		20	23	20	90
● 3ALE 200 380 K90		20	38	20	90
● 3ALE 200 480 KA0		20	48	20	100
● 3ALE 200 550 KB0		20	55	20	110
● 3ALE 200 650 KD0		20	65	20	130
● 3ALE 200 750 KF0		20	75	20	150
● 3ALE 200 850 KG0		20	85	20	160
● 3ALE 200 950 KI0		20	95	20	180
● 3ALE 200 1050 KK0		20	105	20	200
● 3ALE 200 1150 KK0		20	115	20	200
● 3ALE 200 1250 KM0		20	125	20	220
● 3ALE 250 500 PC0		25	50	25	120

▶ 인선직경 14부터 주문생산

생크경, 전장 표시법	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

사이즈	인선직경공차(mm)
D Size	D Tolerance
1~25	0~-0.010

MG

3

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0~-0.01

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● : NEW