

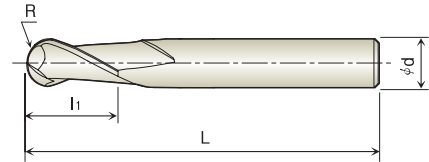
The image features a solid blue background. On the right side, there are three detailed, 3D-rendered drill bits of varying sizes, showing their fluted design and sharp cutting edges. On the left side, there are three white line-art outlines of similar drill bits, mirroring the shapes of the 3D models. The text 'MICRO GRAIN SERIES' is centered in the middle of the image in a white, bold, sans-serif font.

**MICRO
GRAIN**
SERIES

초경, 2날 볼 엔드밀

2 FLUTES BALL END MILLS

- ◆ 일반강, ABS, 수지, 비철 소재 가공에 적합
- ◆ 뛰어난 가공면 조도
- ◆ Suitable for Mild steel, ABS, Resin and non-ferrous materials.
- ◆ Excellent workpiece finish.



unit (mm)

신규 모델 번호 Model No.	구 모델 번호 Model No.	볼반경 Radius of Ball Nose R	날 장 Length of cut l ₁	샙크경 Shank Diameter d	전 장 Overall Length L
● 2MGB 010 020 650	MGB2015	R0.5	2	6	50
2MGB 015 040 650		R0.75	4	6	50
● 2MGB 020 050 660		R1.0	5	6	60
● 2MGB 025 060 660		R1.25	6	6	60
● 2MGB 030 080 660		R1.5	8	6	60
● 2MGB 035 080 660		R1.75	8	6	60
● 2MGB 040 080 670		R2.0	8	6	70
● 2MGB 045 080 670		R2.25	8	6	70
● 2MGB 050 100 680		R2.5	10	6	80
● 2MGB 055 100 690		R2.75	10	6	90
● 2MGB 060 120 690		R3.0	12	6	90
● 2MGB 080 140 8A0		R4.0	14	8	100
● 2MGB 100 180 AA0		R5.0	18	10	100
● 2MGB 120 220 CB0		R6.0	22	12	110

MICRO GRAIN

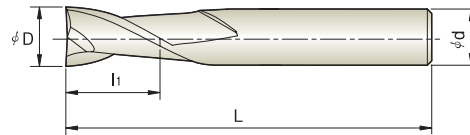
샙크경, 전장 표시법	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

사이즈	인선직경공차(mm)
D Size	D Tolerance
All	0~-0.020

초경, 2날 스퀘어(플랫) 엔드밀

2 FLUTES SQUARE (FLAT) END MILLS

- ◆ 일반강, ABS, 수지, 비철 소재 가공에 적합
- ◆ 뛰어난 가공면 조도
- ◆ Suitable for Mild steel, ABS, Resin and non-ferrous materials.
- ◆ Excellent workpiece finish.



MG	2
0~-0.02	DATA p.223
30°	
h6	

MICRO GRAIN

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
2MGE 010 030 645	MGE2010	1	3	6	45
2MGE 012 040 645	MGE2012	1.2	4	6	45
2MGE 015 040 645	MGE2015	1.5	4	6	45
2MGE 020 060 645	MGE2020	2	6	6	45
2MGE 025 080 650	MGE2025	2.5	8	6	50
2MGE 030 100 650	MGE2030	3	10	6	50
2MGE 035 100 650	MGE2035	3.5	10	6	50
● 2MGE 040 120 650		4	12	6	50
● 2MGE 045 120 650		4.5	12	6	50
● 2MGE 050 150 650		5	15	6	50
● 2MGE 055 150 650		5.5	15	6	50
● 2MGE 060 150 650		6	15	6	50
● 2MGE 065 180 865		6.5	18	8	65
2MGE 070 200 865	MGE2070	7	20	8	65
● 2MGE 075 200 865		7.5	20	8	65
2MGE 080 200 865	MGE2080	8	20	8	65
● 2MGE 085 230 A70		8.5	23	10	70
● 2MGE 090 230 A70		9	23	10	70
● 2MGE 095 230 A70		9.5	23	10	70
2MGE 100 250 A70	MGE2100	10	25	10	70
● 2MGE 105 280 C80		10.5	28	12	80
● 2MGE 110 280 C80		11	28	12	80
● 2MGE 115 280 C80		11.5	28	12	80
2MGE 120 300 C80	MGE2120	12	30	12	80
● 2MGE 130 350 E90		13	35	14	90
● 2MGE 140 350 E90		14	35	14	90
● 2MGE 160 400 G90		16	40	16	90
● 2MGE 180 450 IA0		18	45	18	100
● 2MGE 200 450 KA0		20	45	20	100

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																				
All	0~-0.020																				

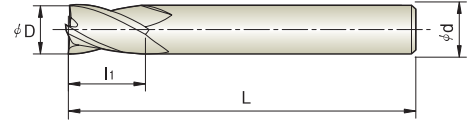
● : NEW

초경, 4날 스퀘어 엔드밀

4 FLUTES SQUARE END MILLS

- ◆ 일반강, ABS, 수지, 비철 소재 가공에 적합
- ◆ 뛰어난 가공면 조도
- ◆ Suitable for Mild steel, ABS, Resin and non-ferrous materials.
- ◆ Excellent workpiece finish.

MG	4
U 0~-0.02	30°
DATA p.224	h6



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
● 4MGE 010 030 645		1	3	6	45
● 4MGE 015 040 645		2	4	6	45
● 4MGE 020 060 645		2	6	6	45
● 4MGE 025 080 650		3	8	6	50
● 4MGE 030 100 650		3	10	6	50
● 4MGE 035 100 650		4	10	6	50
● 4MGE 040 120 650		4	12	6	50
● 4MGE 045 120 650		5	12	6	50
● 4MGE 050 150 650		5	15	6	50
● 4MGE 055 150 650		6	15	6	50
● 4MGE 060 150 650		6	15	6	50
● 4MGE 065 180 865		7	18	8	65
● 4MGE 070 200 865		7	20	8	65
● 4MGE 075 200 865		8	20	8	65
● 4MGE 080 200 865		8	20	8	65
● 4MGE 085 230 A70		9	23	10	70
● 4MGE 090 230 A70		9	23	10	70
● 4MGE 095 230 A70		10	23	10	70
● 4MGE 100 250 A70		10	25	10	70
● 4MGE 105 280 C80		11	28	12	80
● 4MGE 110 280 C80		11	28	12	80
● 4MGE 115 280 C80		12	28	12	80
● 4MGE 120 300 C80		12	30	12	80
● 4MGE 130 350 E90		13	35	14	90
● 4MGE 140 350 E90		14	35	14	90
● 4MGE 160 400 G90		16	40	16	90
● 4MGE 180 450 IA0		18	45	18	100
● 4MGE 200 450 KA0		20	45	20	100

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
All	0~-0.020

● : NEW

MICRO GRAIN