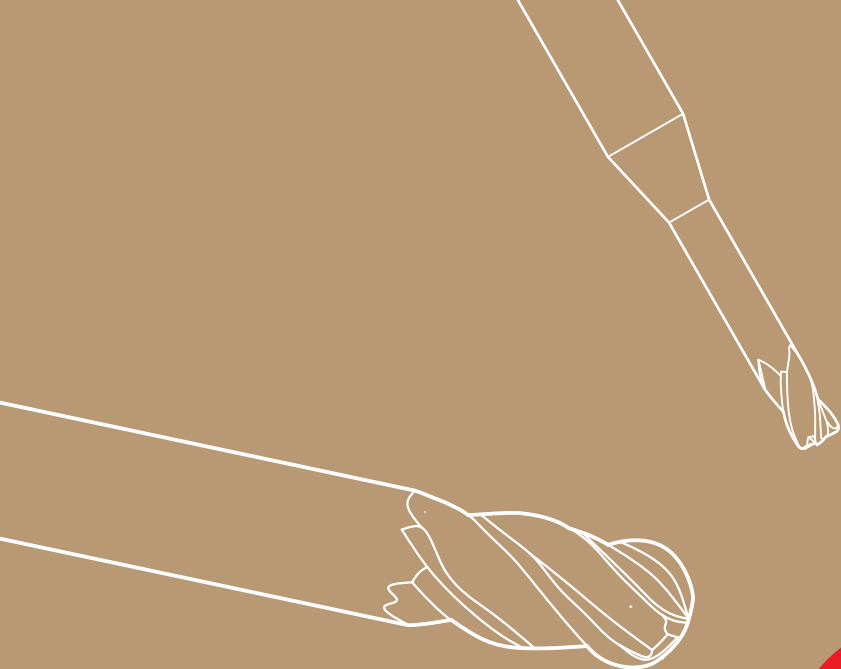




**NEW**

**MULTI  
PURPOSE  
SERIES**

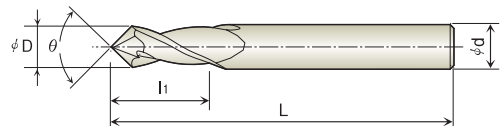


## 2날 센터링 엔드밀

### 2 FLUTES CENTERING END MILLS

- ◆ 아크릴,알루미늄 비철비금속 피삭재 가공 적합
- ◆ 센터링 작업 및 모서리 면취,측면절삭 가능한 다기능 엔드밀
- ◆ 피삭재 면조도가 뛰어남
- ◆ Recommend for Acryl, Aluminium, Non-Ferrous metal and Non-Metallic materials.
- ◆ Multi-purpose Endmill for Centering, Corner Chamfering, Side Cutting
- ◆ Excellent the surface roughness.

MG	2
Point 60°	Point 90°
30°	DATA p.225
h6	



unit (mm)

신규 모델번호	구 모델번호	인선직경	각도	날장	생크경	전장
Model No.	Model No.	Outside Diameter	Angle	Length of cut	Shank Diameter	Overall Length
		D	θ	l <sub>1</sub>	d	L
● 2CEN 003 60° 006 345		0.3	60°	0.6	3	45
● 2CEN 003 90° 006 345		0.3	90°	0.6	3	45
● 2CEN 005 60° 010 350		0.5	60°	1	3	50
● 2CEN 005 90° 010 350		0.5	90°	1	3	50
● 2CEN 008 60° 016 350		0.8	60°	1.6	3	50
● 2CEN 008 90° 016 350		0.8	90°	1.6	3	50
● 2CEN 010 60° 020 350		1	60°	2	3	50
● 2CEN 010 90° 020 350		1	90°	2	3	50
● 2CEN 020 60° 040 350		2	60°	4	3	50
● 2CEN 020 90° 040 350		2	90°	4	3	50
● 2CEN 030 60° 060 350		3	60°	6	3	50
● 2CEN 030 90° 060 350		3	90°	6	3	50
● 2CEN 030 60° 060 650		3	60°	6	6	50
● 2CEN 030 90° 060 650		3	90°	6	6	50
● 2CEN 030 90° 060 6A0		3	90°	6	6	100
● 2CEN 040 60° 080 650		4	60°	8	6	50
● 2CEN 040 90° 080 650		4	90°	8	6	50
● 2CEN 040 90° 080 6A0		4	90°	8	6	100
● 2CEN 050 60° 100 650		5	60°	10	6	50
● 2CEN 050 90° 100 650		5	90°	10	6	50
● 2CEN 060 60° 120 660		6	60°	12	6	60
● 2CEN 060 90° 120 660		6	90°	12	6	60
● 2CEN 060 90° 120 6A0		6	90°	12	6	100
● 2CEN 080 60° 160 860		8	60°	16	8	60
● 2CEN 080 90° 160 860		8	90°	16	8	60
● 2CEN 080 90° 160 8A0		8	90°	16	8	100
● 2CEN 100 60° 180 A70		10	60°	18	10	70
● 2CEN 100 90° 180 A70		10	90°	18	10	70
● 2CEN 100 90° 200 AA0		10	90°	20	10	100
● 2CEN 120 60° 200 C80		12	60°	20	12	80

MULTI PURPOSE

## 2날 센터링 엔드밀

### 2 FLUTES CENTERING END MILLS

MG

2

Point  
60°

Point  
90°

30°

DATA  
p.225

h6

MULTI PURPOSE

unit (mm)						
신규 모델번호	구 모델번호	인선 직경	각 도	날 장	생크 경	전 장
Model No.	Model No.	Outside Diameter D	Angle $\theta$	Length of cut $l_1$	Shank Diameter d	Overall Length L
● 2CEN 120 90° 200 C80		12	90°	20	12	80
● 2CEN 120 90° 200 CA0		12	90°	20	12	100
● 2CEN 140 60° 260 E80		14	60°	26	14	80
● 2CEN 140 90° 260 E80		14	90°	26	14	80
● 2CEN 160 60° 320 GA0		16	60°	32	16	100
● 2CEN 160 90° 320 GA0		16	90°	32	16	100

생크 경, 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

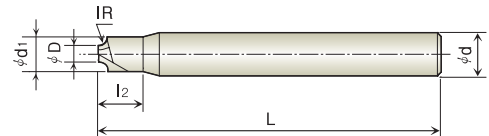
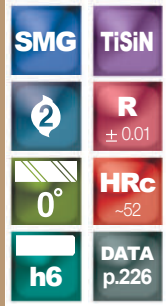
사 이 즈	인선직경공차(mm)
D Size	D Tolerance
1~5	0~-0.010
6~12	0~-0.025
14~16	0~-0.030

● : NEW

## 2날 이너 래디우스 커터(코너 라운딩 커터)

### 2 FLUTES INNER RADIUS CUTTER(CORNER ROUNDING CUTTER)

- ◆ 프리하튼강, 고경도강, 주철 등 다양한 용도로 사용
- ◆ Si 함유 코팅으로 내마모성 극대화.
- ◆ 고정밀 공차 적용으로 초정밀 가공에 적합.
- ◆ 피삭재 면조도가 뛰어남.
- ◆ Recommend the multi-purpose such as hardened steels, prehardened steels and cast iron.
- ◆ Optimized wear-resistant with TiSiN coating.
- ◆ Suitable for high precision machining with high precision tolerance.
- ◆ Excellent the surface roughness.



unit (mm)

신규 모델번호 Model No.	구 모델번호 Model No.	선단경 Point Diameter D	코너반경 Inner Radius IR	외경 Outside Diameter d1	유효장 Effective Length l <sub>2</sub>	샤프크경 Shank Diameter d	전장 Overall Length L
● 2IRC 009 IR05 020 445		0.9	IR0.5	2	3	4	45
● 2IRC 049 IR05 060 660		4.9	IR0.5	6	-	6	60
● 2IRC 005 IR055 017 445		0.5	IR0.55	1.7	3	4	45
● 2IRC 005 IR06 018 445		0.5	IR0.6	1.8	3	4	45
● 2IRC 005 IR065 019 445		0.5	IR0.65	1.9	3	4	45
● 2IRC 005 IR07 020 445		0.5	IR0.7	2	3	4	45
● 2IRC 009 IR075 025 445		0.9	IR0.75	2.5	4	4	45
● 2IRC 009 IR08 026 445		0.9	IR0.8	2.6	4	4	45
● 2IRC 009 IR085 027 445		0.9	IR0.85	2.7	4	4	45
● 2IRC 009 IR09 028 445		0.9	IR0.9	2.8	4	4	45
● 2IRC 009 IR095 029 445		0.9	IR0.95	2.9	4	4	45
● 2IRC 009 IR10 030 650		0.9	IR1.0	3	5	6	50
● 2IRC 039 IR10 060 650		3.9	IR1.0	6	-	6	50
● 2IRC 059 IR10 080 860		5.9	IR1.0	8	-	8	60
● 2IRC 009 IR125 035 650		0.9	IR1.25	3.5	5	6	50
● 2IRC 034 IR125 060 650		3.4	IR1.25	6	-	6	50
● 2IRC 014 IR15 045 650		1.4	IR1.5	4.5	8	6	50
● 2IRC 049 IR15 080 860		4.9	IR1.5	8	-	8	60
● 2IRC 014 IR20 055 650		1.4	IR2.0	5.5	10	6	50
● 2IRC 039 IR20 080 860		3.9	IR2.0	8	-	8	60
● 2IRC 019 IR25 070 860		1.9	IR2.5	7	13	8	60
● 2IRC 019 IR30 080 860		1.9	IR3.0	8	-	8	60
● 2IRC 019 IR35 090 A70		1.9	IR3.5	9	13	10	70
● 2IRC 019 IR40 100 A70		1.9	IR4.0	10	-	10	70
● 2IRC 019 IR45 110 C80		1.9	IR4.5	11	13	12	80
● 2IRC 019 IR50 120 C80		1.9	IR5.0	12	-	12	80
● 2IRC 039 IR60 160 G85		3.9	IR6.0	16	-	16	85
● 2IRC 059 IR70 200 K85		5.9	IR7.0	20	-	20	85
● 2IRC 039 IR80 200 K85		3.9	IR8.0	20	-	20	85

▶ 주문생산 품목입니다.

사이즈 D Size	인선직경공차(mm) D Tolerance	코너R반경(mm) R Size	R공차(mm) R Tolerance
0.5~0.9	0~-0.010	R0.1~R2.5	±0.010
1.4~5.9	0~-0.020	R3~R8	±0.020

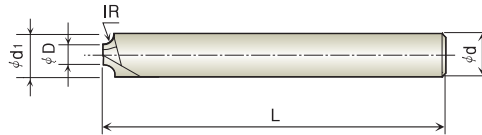
● : NEW

MULTI PURPOSE

## 4날 이너 레디우스 커터(코너라운드링 커터)

### 4 FLUTES INNER RADIUS CUTTER(CORNER ROUNDING CUTTER)

- ◆ 프리하든강, 고경도강, 주철 등 다양한 용도로 사용
- ◆ Si 함유 코팅으로 내마모성 극대화.
- ◆ 고정밀 공차적용으로 초정밀 가공에 적합.
- ◆ 피삭재 면조도가 뛰어나.
- ◆ Recommend the multi-purpose such as hardened steels, prehardened steels and cast iron.
- ◆ Optimized wear-resistant with TiSiN coating.
- ◆ Suitable for high precision machining with high precision tolerance.
- ◆ Excellent the surface roughness.



SMG	TiSiN
4	R ± 0.01
0°	HRc ~52
h6	DATA p.226

MULTI PURPOSE

신규 모델 번호		구 모델 번호					unit (mm)
Model No.	Model No.	Point Diameter D	Inner Radius IR	Outside Diameter d <sub>1</sub>	Shank Diameter d	Overall Length L	
● 4IRC 029 IR05 040 450		2.9	IR0.5	4	4	50	
● 4IRC 024 IR075 040 450		2.4	IR0.75	4	4	50	
● 4IRC 019 IR10 040 450		1.9	IR1.0	4	4	50	
● 4IRC 049 IR05 060 650		4.9	IR0.5	6	6	50	
● 4IRC 049 IR075 060 650		4.9	IR0.75	6	6	50	
● 4IRC 039 IR10 060 650		3.9	IR1.0	6	6	50	
● 4IRC 059 IR10 080 860		5.9	IR1.0	8	8	60	
● 4IRC 049 IR15 080 860		4.9	IR1.5	8	8	60	
● 4IRC 039 IR20 080 860		3.9	IR2.0	8	8	60	
● 4IRC 059 IR20 100 A70		5.9	IR2.0	10	10	70	
● 4IRC 049 IR25 100 A70		4.9	IR2.5	10	10	70	
● 4IRC 039 IR30 100 A70		3.9	IR3.0	10	10	70	
● 4IRC 059 IR30 120 C80		5.9	IR3.0	12	12	80	
● 4IRC 039 IR40 120 C80		3.9	IR4.0	12	12	80	
● 4IRC 059 IR50 160 G80		5.9	IR5.0	16	16	80	
● 4IRC 039 IR60 160 G80		3.9	IR6.0	16	16	80	

▶ 주문생산 품목입니다.

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

사 이 즈	인선직경공차(mm)	코너R반경(mm)	R공차(mm)
D Size	D Tolerance	R Size	R Tolerance
1.4~5.9	0~-0.020	R0.1~R2.5	±0.010
		R3~R8	±0.020

● : NEW