

난삭재(SUS) 가공의 최강자!

The greatest Endmills for SUS, Ti/Ni Base alloy, Inconel and Hard to cut materials.
SUS계열, Ti/Ni계 합금, 인코넬 등 난삭재 전용 엔드밀

S-PRO Advantages

1. 채터링 방지를 위한 부등분할 형상설계 Geometry design(Unequal Index) to protect chattering
2. 독특한 플루우트 형상적용으로 탁월한 칩배출 Excellent Chip flow with unique flute design
3. 탁월한 강성과 면조도 Excellent rigidity and surface roughness
4. 부드럽고 매끈한 절삭실현 Smooth cutting with special relief

S-PRO SERIES

BALL TYPE **4SUB**
RADIUS TYPE **4SUR**
FLAT TYPE **4SUE**





NEW

S-PRO

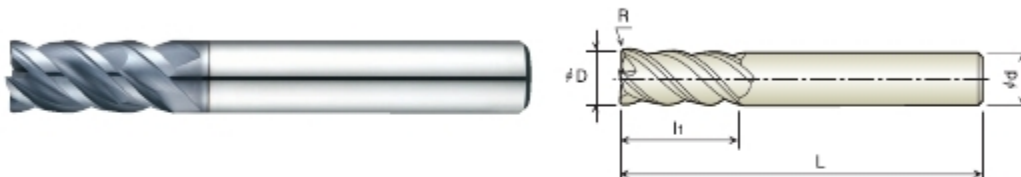
SERIES



4날 SUS용 코너 래디우스 엔드밀

4 FLUTES CORNER RADIUS END MILLS FOR STAINLESS STEELS, TITANIUM

- ◆ 채터링 방지 위한 형상 설계
- ◆ 독특한 플루이트 형상 적용으로 칩배출 증대
- ◆ 날부 칩방출을 위한 코너R 적용
- ◆ 합금강, SUS계열, 티타늄, 인코넬 등 난삭재 가공 탁월 함
- ◆ Geometry design (Unequal Index) to protect the chattering.
- ◆ Unique flute design to improve chip flow.
- ◆ Excellent Surface roughness by 4 flutes, smooth chip flow with big chip pocket.
- ◆ Outstanding performance for Alloy steels, SUS, Titanium, Inconel and hard to cut materials.



unit (mm)

신규 모델번호 Model No.	구 모델번호 Model No.	인선직경 Outside Diameter D	코너반경 Corner Radius CR	날장 Length of cut L ₁	샤프크경 Shank Diameter d	전장 Overall Length L
● 4SUR 010 R01 025 650		1	R0.1	2.5	6	50
● 4SUR 010 R02 025 650		1	R0.2	2.5	6	50
● 4SUR 012 R01 030 650		1.2	R0.1	3	6	50
● 4SUR 015 R01 040 650		1.5	R0.1	4	6	50
● 4SUR 015 R02 040 650		1.5	R0.2	4	6	50
● 4SUR 020 R01 060 650		2	R0.1	6	6	50
● 4SUR 020 R02 060 650		2	R0.2	6	6	50
● 4SUR 025 R02 070 650		2.5	R0.2	7	6	50
● 4SUR 030 R02 080 655		3	R0.2	8	6	55
● 4SUR 030 R03 080 655		3	R0.3	8	6	55
● 4SUR 030 R05 080 655		3	R0.5	8	6	55
● 4SUR 040 R02 100 655		4	R0.2	10	6	55
● 4SUR 040 R03 100 655		4	R0.3	10	6	55
● 4SUR 040 R05 100 655		4	R0.5	10	6	55
● 4SUR 050 R02 150 660		5	R0.2	15	6	60
● 4SUR 050 R03 150 660		5	R0.3	15	6	60
● 4SUR 050 R05 150 660		5	R0.5	15	6	60
● 4SUR 060 R02 150 660		6	R0.2	15	6	60
4SUR 060 R03 130 660	SAE4060R03	6	R0.3	13	6	60
● 4SUR 060 R03 150 660		6	R0.3	15	6	60
● 4SUR 060 R05 150 660		6	R0.5	15	6	60
4SUR 070 R03 160 865	SAE4070R03	7	R0.3	16	8	65
● 4SUR 080 R03 200 870		8	R0.3	20	8	70
● 4SUR 080 R05 200 870		8	R0.5	20	8	70
● 4SUR 080 R10 200 870		8	R1.0	20	8	70
4SUR 090 R03 190 A70	SAE4090R03	9	R0.3	19	10	70
4SUR 100 R03 220 A70	SAE4100R03	10	R0.3	22	10	70
● 4SUR 100 R03 250 A75		10	R0.3	25	10	75
● 4SUR 100 R05 250 A75		10	R0.5	25	10	75
● 4SUR 100 R10 250 A75		10	R1.0	25	10	75
● 4SUR 100 R15 250 A75		10	R1.5	25	10	75
● 4SUR 100 R20 250 A75		10	R2.0	25	10	75

SMG	TiAlN
	CR ± 0.02
43°	HRC ~45
h6	DATA p.206

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4날 SUS용 코너 래디우스 엔드밀

4 FLUTES CORNER RADIUS END MILLS FOR STAINLESS STEELS, TITANIUM



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unit (mm)

신규 모델번호	구 모델번호	인선직경	코너반경	날 장	샙크경	전 장
Model No.	Model No.	Outside Diameter	Corner Radius	Length of cut	Shank Diameter	Overall Length
		D	CR	l ₁	d	L
● 4SUR 100 R30 250 A75		10	R3.0	25	10	75
4SUR 120 R03 260 C80	SAE4120R03	12	R0.3	26	12	80
● 4SUR 120 R05 300 C80		12	R0.5	30	12	80
● 4SUR 120 R10 300 C80		12	R1.0	30	12	80
● 4SUR 120 R15 300 C80		12	R1.5	30	12	80
● 4SUR 120 R20 300 C80		12	R2.0	30	12	80
● 4SUR 120 R30 300 C80		12	R3.0	30	12	80
● 4SUR 120 R40 300 C80		12	R4.0	30	12	80
4SUR 140 R03 260 E90	SAE4140R03	14	R0.3	26	14	90
4SUR 160 R03 320 GA0	SAE4160R03	16	R0.3	32	16	100
4SUR 180 R03 320 IA0	SAE4180R03	18	R0.3	32	18	100
4SUR 200 R03 380 KA0	SAE4200R03	20	R0.3	38	20	100

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)	코너R반경(mm)	R공차(mm)
D Size	D Tolerance	R Size	R Tolerance
1~5	0~0.010	R0.1~R0.5	±0.005
6~12	0~0.015	R1~R1.5	±0.010
14~20	0~0.025	R2~R3	±0.015