

- 아크릴, ABS, 목업, 알루미늄 등 비철, 비금속 피삭재 가공
- 짧은 날장 채택으로 떨림을 최소화 하였습니다.
- 고속, 고이송 작업시 짧은 날장을 채택하여 공구의 강성이 우수합니다.
- 인선부 강성을 보강하여 날부치핑을 최소화 하였습니다.
- 미립자 초경합금을 채택하여 내마모성이 좋습니다.

Endmills for Acryl, A.B.S, Aluminum, non-ferrous and non-metallic materials

- Minimize chattering by short flute design.
- Excellent tool rigidity by short flute design at high speed, feed machining.
- Reinforced edge design for preventing edge chipping.
- Excellent wear resistance by applying fine WC grade.



Condition	D Size	D Tolerance	Condition	D Size	D Tolerance
øD ≠ ød	ø0.2 ~ 6	+0 ~ -0.01mm	øD = ød	ø6	-0.005 ~ -0.015mm

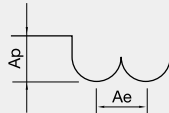
단위 : mm

Order Number	날경 Diameter R × D	날장 Length of cut L1	유효장 Effective Length L2	전장 Overall Length L	샤프크 Shank Dia d	비고
2MRB 002 005 S04	0.1R X 0.2	0.3	0.5	40	4	
2MRB 002 010 S04	0.1R X 0.2	0.3	1	40	4	
2MRB 002 015 S04	0.1R X 0.2	0.3	1.5	40	4	
2MRB 002 020 S04	0.1R X 0.2	0.3	2	40	4	
2MRB 003 010 S04	0.15R X 0.3	0.45	1	40	4	
2MRB 003 020 S04	0.15R X 0.3	0.45	2	40	4	
2MRB 003 030 S04	0.15R X 0.3	0.45	3	40	4	
2MRB 003 050 S04	0.15R X 0.3	0.45	5	40	4	
2MRB 004 020 S04	0.2R X 0.4	0.6	2	40	4	
2MRB 004 030 S04	0.2R X 0.4	0.6	3	40	4	
2MRB 004 040 S04	0.2R X 0.4	0.6	4	40	4	
2MRB 004 050 S04	0.2R X 0.4	0.6	5	40	4	
2MRB 004 060 S04	0.2R X 0.4	0.6	6	40	4	
2MRB 005 020 S04	0.25R X 0.5	1	2	45	4	
2MRB 005 040 S04	0.25R X 0.5	1	4	45	4	
2MRB 005 060 S04	0.25R X 0.5	1	6	45	4	
2MRB 005 080 S04	0.25R X 0.5	1	8	45	4	
2MRB 005 100 S04	0.25R X 0.5	1	10	45	4	
2MRB 006 020 S04	0.3R X 0.6	1.2	2	45	4	
2MRB 006 040 S04	0.3R X 0.6	1.2	4	45	4	
2MRB 006 060 S04	0.3R X 0.6	1.2	6	45	4	
2MRB 006 080 S04	0.3R X 0.6	1.2	8	45	4	
2MRB 006 100 S04	0.3R X 0.6	1.2	10	45	4	
2MRB 007 040 S04	0.35R X 0.7	1.4	4	45	4	
2MRB 007 060 S04	0.35R X 0.7	1.4	6	45	4	
2MRB 007 080 S04	0.35R X 0.7	1.4	8	45	4	
2MRB 007 100 S04	0.35R X 0.7	1.4	10	45	4	
2MRB 008 040 S04	0.4R X 0.8	1.6	4	45	4	
2MRB 008 060 S04	0.4R X 0.8	1.6	6	45	4	
2MRB 008 080 S04	0.4R X 0.8	1.6	8	45	4	
2MRB 008 100 S04	0.4R X 0.8	1.6	10	45	4	
2MRB 008 120 S04	0.4R X 0.8	1.6	12	45	4	
2MRB 009 060 S04	0.45R X 0.9	1.8	6	45	4	
2MRB 009 100 S04	0.45R X 0.9	1.8	10	45	4	
2MRB 009 120 S04	0.45R X 0.9	1.8	12	45	4	
2MRB 010 060 S04	0.5R X 1	2	6	50	4	
2MRB 010 080 S04	0.5R X 1	2	8	50	4	
2MRB 010 100 S04	0.5R X 1	2	10	50	4	
2MRB 010 120 S04	0.5R X 1	2	12	50	4	
2MRB 010 160 S04	0.5R X 1	2	16	50	4	
2MRB 010 200 S04	0.5R X 1	2	20	60	4	
2MRB 010 250 S04	0.5R X 1	2	25	60	4	
2MRB 012 060 S04	0.6R X 1.2	2.4	6	50	4	
2MRB 012 080 S04	0.6R X 1.2	2.4	8	50	4	
2MRB 012 100 S04	0.6R X 1.2	2.4	10	50	4	
2MRB 012 120 S04	0.6R X 1.2	2.4	12	50	4	
2MRB 012 160 S04	0.6R X 1.2	2.4	16	50	4	
2MRB 014 060 S04	0.7R X 1.4	2.8	6	50	4	
2MRB 014 100 S04	0.7R X 1.4	2.8	10	50	4	
2MRB 014 160 S04	0.7R X 1.4	2.8	16	50	4	

Order Number	날경 Diameter R × D	날장 Length of cut L1	유효장 Effective Length L2	전장 Overall Length L	샤프크 Shank Dia d	비고
2MRB 015 060 S04	0.75R X 1.5	3	6	50	4	
2MRB 015 100 S04	0.75R X 1.5	3	10	50	4	
2MRB 015 140 S04	0.75R X 1.5	3	14	50	4	
2MRB 015 160 S04	0.75R X 1.5	3	16	50	4	
2MRB 015 200 S04	0.75R X 1.5	3	20	60	4	
2MRB 015 250 S04	0.75R X 1.5	3	25	60	4	
2MRB 015 300 S04	0.75R X 1.5	3	30	70	4	
2MRB 016 060 S04	0.8R X 1.6	3.2	6	50	4	
2MRB 020 080 S04	1R X 2	4	8	50	4	
2MRB 020 100 S04	1R X 2	4	10	50	4	
2MRB 020 120 S04	1R X 2	4	12	50	4	
2MRB 020 140 S04	1R X 2	4	14	50	4	
2MRB 020 160 S04	1R X 2	4	16	50	4	
2MRB 020 180 S04	1R X 2	4	18	50	4	
2MRB 020 200 S04	1R X 2	4	20	60	4	
2MRB 020 250 S04	1R X 2	4	25	60	4	
2MRB 020 300 S04	1R X 2	4	30	70	4	
2MRB 020 350 S04	1R X 2	4	35	80	4	
2MRB 020 400 S04	1R X 2	4	40	80	4	
2MRB 025 120 S04	1.25R X 2.5	5	12	60	4	
2MRB 025 200 S04	1.25R X 2.5	5	20	60	4	
2MRB 030 080 S06	1.5R X 3	6	8	70	6	
2MRB 030 120 S06	1.5R X 3	6	12	70	6	
2MRB 030 160 S06	1.5R X 3	6	16	70	6	
2MRB 030 200 S06	1.5R X 3	6	20	70	6	
2MRB 030 250 S06	1.5R X 3	6	25	70	6	
2MRB 030 300 S06	1.5R X 3	6	30	80	6	
2MRB 030 400 S06	1.5R X 3	6	40	90	6	
2MRB 030 450 S06	1.5R X 3	6	45	90	6	
2MRB 040 120 S06	2R X 4	8	12	70	6	
2MRB 040 160 S06	2R X 4	8	16	70	6	
2MRB 040 200 S06	2R X 4	8	20	70	6	
2MRB 040 250 S06	2R X 4	8	25	70	6	
2MRB 040 300 S06	2R X 4	8	30	70	6	
2MRB 040 350 S06	2R X 4	8	35	80	6	
2MRB 040 400 S06	2R X 4	8	40	80	6	
2MRB 040 500 S06	2R X 4	8	50	100	6	
2MRB 050 160 S06	2.5R X 5	10	16	80	6	
2MRB 050 250 S06	2.5R X 5	10	25	80	6	
2MRB 050 350 S06	2.5R X 5	10	35	80	6	
2MRB 060 250 S06	3R X 6	12	25	80	6	
2MRB 060 350 S06	3R X 6	12	35	80	6	
2MRB 060 500 S06	3R X 6	12	50	120	6	
2MRB 060 600 S06	3R X 6	12	60	120	6	

파삭재 Material		알루미늄합금 Aluminum Alloys AL7075				플라스틱 Plastic			
반경 Corner Radius	유효장 Effective Length	RPM	FEED	Ap Axial Depth	Ap Radial Depth	RPM	FEED	Ap Axial Depth	Ap Radial Depth
R 0.1	1	35,000	420	0.003	0.03	35,000	1,000	0.05	0.03
R 0.15	2	35,000	490	0.004	0.04	35,000	1,050	0.06	0.04
R 0.2	3	35,000	560	0.005	0.06	35,000	1,100	0.07	0.06
R 0.25	4	35,000	700	0.006	0.07	28,000	1,200	0.08	0.07
"	10	27,300	504	0.004	0.05	21,840	864	0.06	0.04
R 0.3	4	35,000	910	0.007	0.09	24,000	1,200	0.1	0.09
"	10	27,300	655	0.005	0.07	18,720	864	0.07	0.05
R 0.4	4	26,000	940	0.008	0.12	18,000	900	0.13	0.12
"	10	19,500	658	0.006	0.1	13,500	576	0.11	0.1
R 0.5	6	21,000	970	0.008	0.15	14,000	700	0.17	0.15
"	16	14,700	631	0.006	0.1	9,800	455	0.1	0.09
R 0.6	6	18,000	1,010	0.009	0.18	12,000	600	0.2	0.18
"	16	12,780	616	0.007	0.11	8,520	366	0.13	0.12
R 0.7	6	15,000	1,020	0.01	0.21	10,000	500	0.23	0.21
"	16	10,800	622	0.008	0.16	7,200	305	0.17	0.15
R 0.75	6	14,000	1,010	0.012	0.24	9,500	480	0.25	0.24
"	16	10,220	636	0.01	0.19	6,935	302	0.19	0.17
"	25	8,483	477	0.008	0.14	5,756	227	0.13	0.11
R 1	8	11,000	1,100	0.18	0.35	7,000	350	0.4	0.35
"	20	8,140	704	0.16	0.3	5,180	224	0.35	0.33
"	30	6,919	528	0.14	0.25	4,403	168	0.3	0.28
R 1.5	8	6,900	760	0.2	0.5	4,800	240	0.5	0.5
"	20	5,313	486	0.18	0.45	4,080	151	0.45	0.45
"	30	4,516	365	0.16	0.4	3,142	113	0.4	0.4
R 2	16	5,200	690	0.25	0.65	3,600	180	0.6	0.65
"	25	4,056	449	0.22	0.6	3,060	113	0.56	0.61
"	35	3,488	336	0.2	0.55	2,356	85	0.54	0.57
R 2.5	16	4,200	590	0.3	0.8	2,900	150	0.8	0.85
"	25	3,234	401	0.27	0.75	2,233	102	0.76	0.81
"	35	2,652	309	0.24	0.7	1,831	79	0.72	0.75
R 3	25	3,500	550	0.35	0.9	2,400	120	1	1.2
"	35	2,940	468	0.33	0.8	2,016	102	0.95	1.1
"	50	2,323	355	0.3	0.7	1,593	78	0.9	1
R 4	-	3,300	520	0.4	1.2	2,065	130	1.3	1.6
R 5	-	2,850	500	0.5	1.5	1,615	125	1.6	2
R 6	-	2,650	470	0.6	1.8	1,350	125	2	2.4
R 7	-	2,500	450	0.8	2.4	1,000	120	2.5	3.2

절입량
Depth of Cut



Ap : Axial Depth 축방향의절입깊이(mm)
 Ae : Radial Depth 반경방향의절입깊이(mm)
 D : Outside Diameter 외경 (mm)
 n : Speed 회전속도 (min⁻¹)
 Vf : Feed 이송속도 (mm/min)

- 상기 절삭조건은 2날 기준이며, 3날 가공시 회전수와 Feed를 10% UP 시켜주십시오.
- 상기 절삭조건은 참고 수치이므로 실 가공시 가공 형상, 가공 목적, 적용 기계에 따라 조건변경 요망 합니다.
- 적용 기계의 회전속도가 부족한 경우에는 회전 속도와 이송속도를 같은 비율로 줄여서 적용 합니다.
- The parameters on the table is based on 2 flutes. For using 3 flutes, increase RPM and feed by 10% in stable milling condition.
- Use this table for your reference. Adjust the parameters depending on your machining geometry, machining purpose and CNC.
- If the table over the maximum RPM and feed of your machine, adjust RPM and feed in the same proportion.