

- 아크릴, ABS, 목업, 알루미늄등비철,비금속피삭재가공
- 짧은날장채택으로떨림을최소화하였습니다
- 고속, 고이송작업시짧은날장을채택하여공구의강성이우수합니다.
- 인선부강성을보강하여날부치핑을최소화하였습니다.
- 미립자초경합금을채택하여내마모성이좋습니다.

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.



| D Size | D Tolerance |
|----------|------------------|
| Ø0.2 ~ 5 | +0 ~ -0.01mm |
| Ø6 | -0.01 ~ -0.025mm |

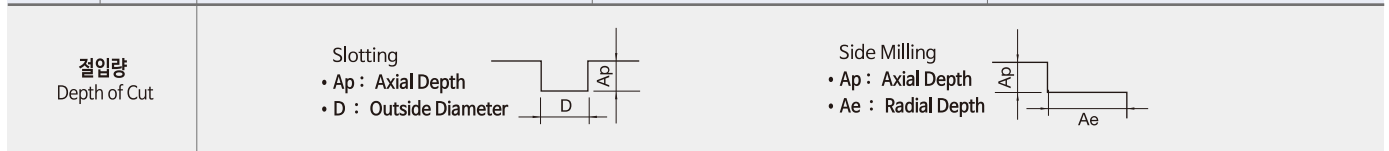
단위: mm

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

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

FOR A.B.S

| 피삭재 Material | | ABS / MC Nylon | | | | Acrylic / Polyacetal | | | | Polycarbonate | | | |
|---------------------------|----------------------------|----------------|-------|-------------------|--------------------|----------------------|------|-------------------|--------------------|---------------|-------|-------------------|--------------------|
| 외경 Outside Diameter | 유효장 Effective Length | RPM | FEED | Ap Axial Depth | Ae Radial Depth | RPM | FEED | Ap Axial Depth | Ae Radial Depth | RPM | FEED | Ap Axial Depth | Ae Radial Depth |
| ∅ 0.5 | 2 | 6,000 | 300 | 0.20 | 0.005 | 15,000 | 300 | 0.20 | 0.005 | 9,000 | 300 | 0.20 | 0.005 |
| " | 4 | 6,000 | 300 | 0.20 | 0.003 | 15,000 | 300 | 0.20 | 0.003 | 9,000 | 300 | 0.20 | 0.003 |
| " | 6 | 6,000 | 300 | 0.20 | 0.001 | 15,000 | 300 | 0.20 | 0.001 | 9,000 | 300 | 0.20 | 0.001 |
| ∅ 0.6 | 4 | 6,000 | 340 | 0.20 | 0.005 | 14,400 | 300 | 0.20 | 0.005 | 8,800 | 540 | 0.20 | 0.005 |
| " | 6 | 6,000 | 340 | 0.20 | 0.003 | 14,400 | 300 | 0.20 | 0.003 | 8,800 | 540 | 0.20 | 0.003 |
| ∅ 0.7 | 4 | 6,000 | 380 | 0.20 | 0.01 | 13,800 | 300 | 0.20 | 0.01 | 8,600 | 780 | 0.20 | 0.01 |
| " | 6 | 6,000 | 380 | 0.20 | 0.008 | 13,800 | 300 | 0.20 | 0.008 | 8,600 | 780 | 0.20 | 0.008 |
| ∅ 0.8 | 6 | 6,000 | 420 | 0.20 | 0.008 | 13,200 | 300 | 0.20 | 0.008 | 8,400 | 1,000 | 0.20 | 0.008 |
| " | 8 | 6,000 | 420 | 0.20 | 0.005 | 12,900 | 280 | 0.20 | 0.005 | 8,200 | 960 | 0.20 | 0.005 |
| ∅ 0.9 | 6 | 6,000 | 460 | 0.20 | 0.08 | 12,600 | 300 | 0.20 | 0.08 | 8,200 | 1,300 | 0.20 | 0.08 |
| " | 10 | 6,000 | 460 | 0.20 | 0.03 | 11,800 | 260 | 0.20 | 0.03 | 7,800 | 1,000 | 0.20 | 0.03 |
| ∅ 1 | 6 | 6,000 | 500 | 0.30 | 0.05 | 12,000 | 300 | 0.30 | 0.05 | 8,000 | 1,500 | 0.30 | 0.05 |
| " | 8 | 6,000 | 500 | 0.30 | 0.05 | 11,500 | 270 | 0.30 | 0.05 | 7,700 | 1,400 | 0.30 | 0.05 |
| " | 10 | 6,000 | 500 | 0.30 | 0.03 | 11,000 | 240 | 0.30 | 0.03 | 7,500 | 1,200 | 0.30 | 0.03 |
| " | 12 | 6,000 | 500 | 0.30 | 0.03 | 10,400 | 220 | 0.30 | 0.03 | 7,200 | 1,100 | 0.30 | 0.03 |
| " | 16 | 6,000 | 500 | 0.30 | 0.02 | 9,300 | 160 | 0.30 | 0.02 | 6,700 | 830 | 0.30 | 0.02 |
| " | 20 | 6,000 | 500 | 0.30 | 0.01 | 8,000 | 90 | 0.30 | 0.01 | 6,000 | 500 | 0.30 | 0.01 |
| ∅ 1.2 | 6 | 6,000 | 610 | 0.40 | 0.05 | 11,700 | 330 | 0.40 | 0.05 | 8,000 | 1,500 | 0.40 | 0.05 |
| " | 8 | 6,000 | 610 | 0.40 | 0.05 | 11,200 | 300 | 0.40 | 0.05 | 7,700 | 1,400 | 0.40 | 0.05 |
| " | 10 | 6,000 | 600 | 0.40 | 0.03 | 10,700 | 280 | 0.40 | 0.03 | 7,500 | 1,300 | 0.40 | 0.03 |
| " | 12 | 6,000 | 600 | 0.40 | 0.03 | 10,200 | 250 | 0.40 | 0.03 | 7,200 | 1,200 | 0.40 | 0.03 |
| ∅ 1.4 | 6 | 6,000 | 720 | 0.40 | 0.05 | 11,340 | 360 | 0.40 | 0.05 | 8,000 | 1,600 | 0.40 | 0.05 |
| " | 10 | 6,000 | 700 | 0.40 | 0.03 | 10,700 | 310 | 0.40 | 0.03 | 7,700 | 1,400 | 0.40 | 0.03 |
| " | 16 | 6,000 | 680 | 0.40 | 0.01 | 9,800 | 230 | 0.40 | 0.01 | 7,200 | 1,000 | 0.40 | 0.01 |
| ∅ 1.5 | 6 | 6,100 | 780 | 0.50 | 0.05 | 11,200 | 380 | 0.50 | 0.05 | 8,000 | 1,600 | 0.50 | 0.05 |
| " | 10 | 6,000 | 760 | 0.50 | 0.05 | 10,200 | 330 | 0.50 | 0.05 | 7,500 | 1,400 | 0.50 | 0.05 |
| " | 14 | 6,000 | 730 | 0.50 | 0.03 | 9,600 | 270 | 0.50 | 0.03 | 7,000 | 1,100 | 0.50 | 0.03 |
| " | 16 | 6,000 | 730 | 0.50 | 0.03 | 8,800 | 250 | 0.50 | 0.03 | 6,700 | 1,000 | 0.50 | 0.03 |
| " | 20 | 5,900 | 700 | 0.50 | 0.02 | 7,600 | 180 | 0.50 | 0.02 | 6,100 | 750 | 0.50 | 0.02 |
| ∅ 1.6 | 6 | 6,100 | 830 | 0.80 | 0.05 | 11,000 | 390 | 0.80 | 0.05 | 8,000 | 1,600 | 0.80 | 0.05 |
| ∅ 2 | 8 | 6,100 | 1,000 | 1.00 | 0.10 | 10,100 | 440 | 1.00 | 0.10 | 7,900 | 1,700 | 1.00 | 0.10 |
| " | 10 | 6,000 | 980 | 1.00 | 0.10 | 9,800 | 420 | 1.00 | 0.10 | 7,700 | 1,600 | 1.00 | 0.10 |
| " | 12 | 6,000 | 970 | 1.00 | 0.08 | 9,500 | 400 | 1.00 | 0.08 | 7,500 | 1,600 | 1.00 | 0.08 |
| " | 14 | 5,900 | 950 | 1.00 | 0.08 | 9,100 | 380 | 1.00 | 0.08 | 7,300 | 1,500 | 1.00 | 0.08 |
| " | 16 | 5,900 | 930 | 1.00 | 0.05 | 8,800 | 360 | 1.00 | 0.05 | 7,100 | 1,400 | 1.00 | 0.05 |
| " | 18 | 5,800 | 920 | 1.00 | 0.05 | 8,500 | 340 | 1.00 | 0.05 | 6,900 | 1,300 | 1.00 | 0.05 |
| " | 20 | 5,700 | 890 | 1.00 | 0.03 | 8,000 | 300 | 1.00 | 0.03 | 6,500 | 1,200 | 1.00 | 0.03 |
| " | 25 | 5,600 | 850 | 1.00 | 0.03 | 7,200 | 250 | 1.00 | 0.03 | 6,000 | 1,100 | 1.00 | 0.03 |
| " | 30 | 5,400 | 800 | 1.00 | 0.02 | 6,200 | 190 | 1.00 | 0.02 | 5,400 | 850 | 1.00 | 0.02 |
| ∅ 2.5 | 12 | 6,000 | 1,300 | 1.20 | 0.20 | 8,600 | 480 | 1.20 | 0.20 | 7,400 | 1,600 | 1.20 | 0.20 |
| " | 20 | 5,700 | 1,100 | 1.00 | 0.10 | 6,800 | 350 | 1.00 | 0.10 | 6,200 | 1,300 | 1.00 | 0.10 |
| ∅ 3 | 8 | 6,200 | 1,600 | 1.50 | 0.30 | 8,700 | 610 | 1.50 | 0.30 | 8,000 | 1,900 | 1.50 | 0.30 |
| " | 12 | 6,000 | 1,500 | 1.50 | 0.25 | 8,000 | 560 | 1.50 | 0.25 | 7,500 | 1,800 | 1.50 | 0.25 |
| " | 16 | 5,800 | 1,400 | 1.50 | 0.20 | 7,300 | 510 | 1.50 | 0.20 | 7,000 | 1,700 | 1.50 | 0.20 |
| " | 20 | 5,600 | 1,300 | 1.50 | 0.20 | 6,400 | 440 | 1.50 | 0.20 | 6,300 | 1,800 | 1.50 | 0.20 |
| " | 25 | 5,400 | 1,200 | 1.50 | 0.15 | 5,500 | 370 | 1.50 | 0.15 | 5,600 | 1,400 | 1.50 | 0.15 |
| " | 30 | 5,200 | 1,100 | 1.50 | 0.10 | 4,500 | 290 | 1.50 | 0.10 | 4,800 | 1,200 | 1.50 | 0.10 |
| " | 40 | 4,800 | 960 | 1.50 | 0.10 | 2,700 | 160 | 1.50 | 0.10 | 3,500 | 840 | 1.50 | 0.10 |
| ∅ 4 | 12 | 5,000 | 1,400 | 2.00 | 0.35 | 7,000 | 520 | 2.00 | 0.35 | 5,800 | 1,500 | 2.00 | 0.35 |
| " | 16 | 4,900 | 1,400 | 2.00 | 0.30 | 6,500 | 480 | 2.00 | 0.30 | 5,500 | 1,400 | 2.00 | 0.30 |
| " | 18 | 4,800 | 1,400 | 2.00 | 0.30 | 6,300 | 470 | 2.00 | 0.30 | 5,400 | 1,400 | 2.00 | 0.30 |
| " | 20 | 4,800 | 1,400 | 2.00 | 0.30 | 6,000 | 440 | 2.00 | 0.30 | 5,100 | 1,300 | 2.00 | 0.30 |
| " | 25 | 4,700 | 1,300 | 2.00 | 0.25 | 5,600 | 410 | 2.00 | 0.25 | 4,900 | 1,300 | 2.00 | 0.25 |
| " | 30 | 4,500 | 1,300 | 2.00 | 0.20 | 4,700 | 340 | 2.00 | 0.20 | 4,400 | 1,100 | 2.00 | 0.20 |
| " | 35 | 4,300 | 1,300 | 2.00 | 0.20 | 4,200 | 300 | 2.00 | 0.20 | 4,100 | 1,100 | 2.00 | 0.20 |
| " | 40 | 4,200 | 1,300 | 2.00 | 0.10 | 3,600 | 250 | 2.00 | 0.10 | 3,600 | 960 | 2.00 | 0.10 |
| " | 50 | 3,900 | 1,200 | 2.00 | 0.10 | 2,400 | 160 | 2.00 | 0.10 | 2,900 | 780 | 2.00 | 0.10 |
| ∅ 5 | 16 | 3,400 | 1,200 | 2.50 | 0.50 | 5,800 | 470 | 2.50 | 0.50 | 4,000 | 1,200 | 2.50 | 0.50 |
| " | 35 | 3,200 | 1,100 | 2.50 | 0.30 | 3,900 | 260 | 2.50 | 0.30 | 2,900 | 910 | 2.50 | 0.30 |
| ∅ 6 | 35 | 2,400 | 960 | 3.00 | 0.40 | 2,600 | 240 | 3.00 | 0.40 | 1,900 | 760 | 3.00 | 0.40 |
| " | 50 | 2,200 | 890 | 3.00 | 0.30 | 1,900 | 170 | 3.00 | 0.30 | 1,700 | 670 | 3.00 | 0.30 |
| " | 60 | 2,000 | 800 | 3.00 | 0.20 | 1,000 | 90 | 3.00 | 0.20 | 1,500 | 600 | 3.00 | 0.20 |



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