



1



2



3



2



4

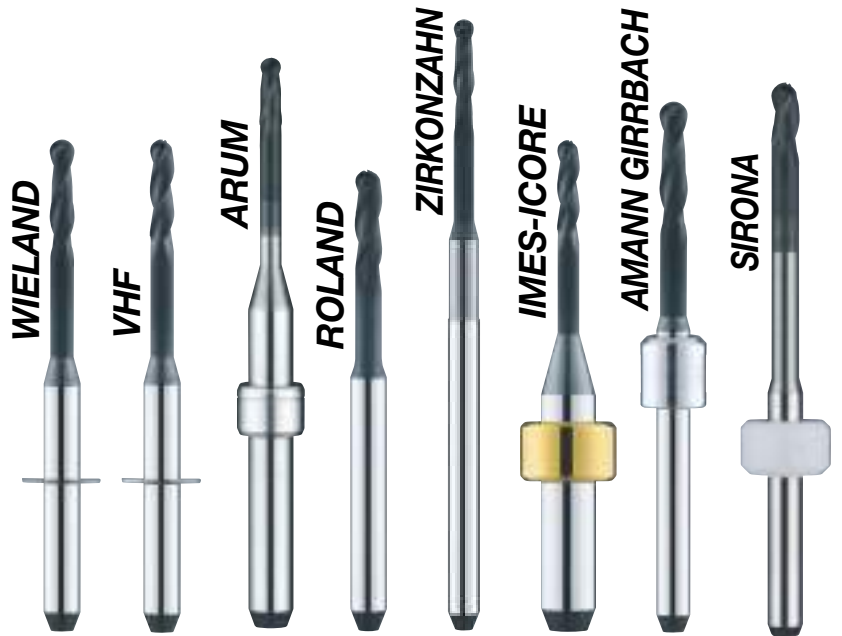
DENTAL 정밀가공에 최적화된 -

# DENTAL SERIES

지르코니아 가공용 다이아몬드 코팅 볼 엔드밀

장비 제조사별 CAD/CAM Milling Bur

- 1 Cobalt-Chrome Disk
- 2 Zirconia 가공물
- 3 Abutment 가공물
- 4 Titanium Disk



티타늄 / 코발트-크롬 / 에버먼트 가공용 엔드밀  
Rib Ball End Mills for Titanium & Cobalt-Chrom & Abutment

지르코니아 가공용 다이아몬드 코팅 엔드밀  
Diamond Coated Ball End Mills for Zirconia

지르코니아 가공용 다이아몬드 코팅 엔드밀  
Diamond Coated Ball End Mills for Zirconia

PMMA / PEEK / WAX 가공용 엔드밀  
Rib Ball End Mills for PMMA & PEEK & WAX

전착 다이아몬드 엔드밀  
Electro Deposited Diamond End Mill



Outstanding Abrasion Resistance & Surface Finishes!  
**탁월한 내마모성 및 경면조도!**

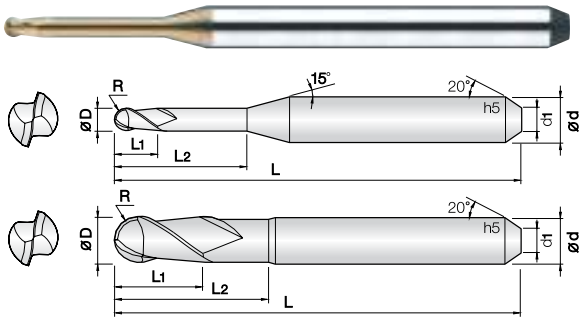
DENTAL 정밀가공에 최적화된 -

# DENTAL SERIES

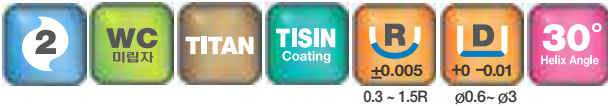
## 2HRBD

2 Flutes High Speed Rib Ball End Mills for Titanium & Cobalt-Chrome

2날 티타늄 / 코발트-크롬 가공용 리브볼 엔드밀

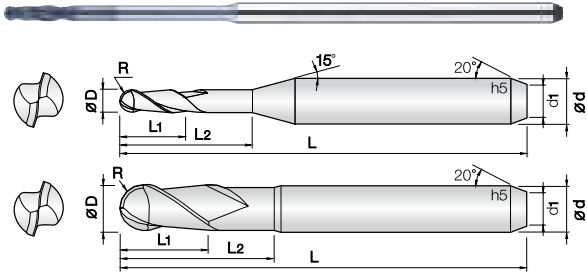


- 티타늄, 코발트-크롬 계열의 디스크 및 어버트먼트 정밀가공
- 실리콘계 코팅(Si) 처리하여 내마모성이 우수합니다.
- 고정밀 공차 적용으로 초정밀 가공에 적합합니다.
- 날부인선의 조도가 뛰어나 피삭재의 면조도가 우수합니다.
- Endmills for titanium and cobalt-chrom disk & abutment
- Good wear resistance by Si-based PVD coating.
- High precise edge tolerance.
- Very nice work surface finish.



단위 : mm

| Order Number          | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 샙크소경<br>Shank<br>Dia<br>d1 | 샙크<br>Shank<br>Dia<br>d | Order Number          | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 샙크소경<br>Shank<br>Dia<br>d1 | 샙크<br>Shank<br>Dia<br>d |
|-----------------------|-------------------------|------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------|-----------------------|-------------------------|------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------|
| 2HRBD 006 050 645     | 0.3R X 0.6              | 0.8                          | 5                                | 45                           | 3.5                        | 6                       | 2HRBD 020 140 645     | 1R X 2                  | 3                            | 14                               | 45                           | 3.5                        | 6                       |
| 2HRBD 006 050 650     | 0.3R X 0.6              | 0.8                          | 5                                | 50                           | 3.5                        | 6                       | 2HRBD 020 140 650     | 1R X 2                  | 3                            | 14                               | 50                           | 3.5                        | 6                       |
| 2HRBD 006 120 645     | 0.3R X 0.6              | 0.8                          | 12                               | 45                           | 3.5                        | 6                       | 2HRBD 020 160 645     | 1R X 2                  | 3                            | 16                               | 45                           | 3.5                        | 6                       |
| 2HRBD 006 120 650     | 0.3R X 0.6              | 0.8                          | 12                               | 50                           | 3.5                        | 6                       | 2HRBD 020 160 650     | 1R X 2                  | 3                            | 16                               | 50                           | 3.5                        | 6                       |
| 2HRBD 008 080 645     | 0.4R X 0.8              | 1                            | 8                                | 45                           | 3.5                        | 6                       | NEW 2HRBD 025 120 645 | 1.25R X 2.5             | 2.5                          | 12                               | 45                           | 3.5                        | 6                       |
| 2HRBD 008 080 650     | 0.4R X 0.8              | 1                            | 8                                | 50                           | 3.5                        | 6                       | NEW 2HRBD 025 120 650 | 1.25R X 2.5             | 2.5                          | 12                               | 50                           | 3.5                        | 6                       |
| 2HRBD 008 120 645     | 0.4R X 0.8              | 1                            | 12                               | 45                           | 3.5                        | 6                       | 2HRBD 030 080 645     | 1.5R X 3                | 4                            | 8                                | 45                           | 3.5                        | 6                       |
| 2HRBD 008 120 650     | 0.4R X 0.8              | 1                            | 12                               | 50                           | 3.5                        | 6                       | 2HRBD 030 100 645     | 1.5R X 3                | 4                            | 10                               | 45                           | 3.5                        | 6                       |
| 2HRBD 010 040 645     | 0.5R X 1                | 2                            | 4                                | 45                           | 3.5                        | 6                       | 2HRBD 030 120 645     | 1.5R X 3                | 4                            | 12                               | 45                           | 3.5                        | 6                       |
| 2HRBD 010 060 645     | 0.5R X 1                | 2                            | 6                                | 45                           | 3.5                        | 6                       | 2HRBD 030 120 650     | 1.5R X 3                | 4                            | 12                               | 50                           | 3.5                        | 6                       |
| 2HRBD 010 080 645     | 0.5R X 1                | 2                            | 8                                | 45                           | 3.5                        | 6                       | 2HRBD 030 160 645     | 1.5R X 3                | 4                            | 16                               | 45                           | 3.5                        | 6                       |
| 2HRBD 010 080 650     | 0.5R X 1                | 2                            | 8                                | 50                           | 3.5                        | 6                       | 2HRBD 030 160 650     | 1.5R X 3                | 4                            | 16                               | 50                           | 3.5                        | 6                       |
| 2HRBD 010 100 645     | 0.5R X 1                | 2                            | 10                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 010 100 650     | 0.5R X 1                | 2                            | 10                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 010 120 645     | 0.5R X 1                | 2                            | 12                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 010 120 650     | 0.5R X 1                | 2                            | 12                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 015 100 645     | 0.75R X 1.5             | 2.5                          | 10                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| NEW 2HRBD 015 100 650 | 0.75R X 1.5             | 2.5                          | 10                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 015 120 645     | 0.75R X 1.5             | 2.5                          | 12                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 015 120 650     | 0.75R X 1.5             | 2.5                          | 12                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 015 140 645     | 0.75R X 1.5             | 2.5                          | 14                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 015 140 650     | 0.75R X 1.5             | 2.5                          | 14                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 020 050 645     | 1R X 2                  | 3                            | 5                                | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 020 080 645     | 1R X 2                  | 3                            | 8                                | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 020 120 645     | 1R X 2                  | 3                            | 12                               | 45                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |
| 2HRBD 020 120 650     | 1R X 2                  | 3                            | 12                               | 50                           | 3.5                        | 6                       |                       |                         |                              |                                  |                              |                            |                         |



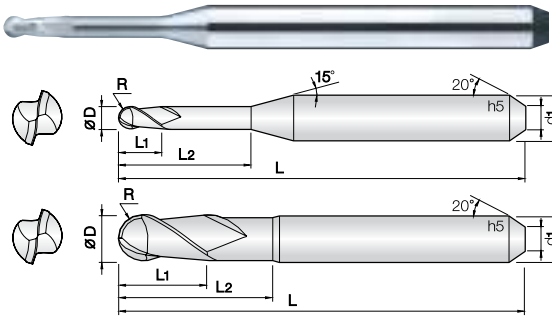
- 지르코니아(ZrO<sub>2</sub>), 울티메이트(Ultimate) 등 비철,비금속 계열의 다양한 피삭재 전용 엔드밀
- NANO 다이아몬드 코팅(CVD)을 적용하여 가공물 표면 조도가 우수하며 공구의 내마모성이 탁월합니다.
- 공구의 규격을 다양화하여, 단일치아 뿐만 아니라 브릿지 보철 가공시 폭넓은 가공이 가능합니다.
- **Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.**
- Excellent wear resistance and surface finishes by applying qualified CVD diamond coating.
- Wide range products prepared for various work shape and excellent performance.



0.25 - 1.5R    Ø0.5 - Ø3

단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 샙크 소경<br>Shank<br>Dia<br>d1 | 샙크<br>Shank<br>Dia<br>d |
|-------------------|-------------------------|------------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------|
| 2DBED 005 050 345 | 0.25R X 0.5             | 1.5                          | 5                                | 45                           | 1.2                         | 3                       |
| 2DBED 005 050 350 | 0.25R X 0.5             | 1.5                          | 5                                | 50                           | 1.2                         | 3                       |
| 2DBED 005 050 445 | 0.25R X 0.5             | 1.5                          | 5                                | 45                           | 1.5                         | 4                       |
| 2DBED 005 050 450 | 0.25R X 0.5             | 1.5                          | 5                                | 50                           | 1.5                         | 4                       |
| 2DBED 005 050 645 | 0.25R X 0.5             | 1.5                          | 5                                | 45                           | 3.5                         | 6                       |
| 2DBED 005 050 650 | 0.25R X 0.5             | 1.5                          | 5                                | 50                           | 3.5                         | 6                       |
| 2DBED 005 120 345 | 0.25R X 0.5             | 1.5                          | 12                               | 45                           | 1.2                         | 3                       |
| 2DBED 005 120 350 | 0.25R X 0.5             | 1.5                          | 12                               | 50                           | 1.2                         | 3                       |
| 2DBED 005 120 445 | 0.25R X 0.5             | 1.5                          | 12                               | 45                           | 1.5                         | 4                       |
| 2DBED 005 120 450 | 0.25R X 0.5             | 1.5                          | 12                               | 50                           | 1.5                         | 4                       |
| 2DBED 005 120 645 | 0.25R X 0.5             | 1.5                          | 12                               | 45                           | 3.5                         | 6                       |
| 2DBED 005 120 650 | 0.25R X 0.5             | 1.5                          | 12                               | 50                           | 3.5                         | 6                       |
| 2DBED 006 050 345 | 0.3R X 0.6              | 2                            | 5                                | 45                           | 1.2                         | 3                       |
| 2DBED 006 050 350 | 0.3R X 0.6              | 2                            | 5                                | 50                           | 1.2                         | 3                       |
| 2DBED 006 050 445 | 0.3R X 0.6              | 2                            | 5                                | 45                           | 1.5                         | 4                       |
| 2DBED 006 050 450 | 0.3R X 0.6              | 2                            | 5                                | 50                           | 1.5                         | 4                       |
| 2DBED 006 050 645 | 0.3R X 0.6              | 2                            | 5                                | 45                           | 3.5                         | 6                       |
| 2DBED 006 050 650 | 0.3R X 0.6              | 2                            | 5                                | 50                           | 3.5                         | 6                       |
| 2DBED 006 120 345 | 0.3R X 0.6              | 2                            | 12                               | 45                           | 1.2                         | 3                       |
| 2DBED 006 120 350 | 0.3R X 0.6              | 2                            | 12                               | 50                           | 1.2                         | 3                       |
| 2DBED 006 120 445 | 0.3R X 0.6              | 2                            | 12                               | 45                           | 1.5                         | 4                       |
| 2DBED 006 120 450 | 0.3R X 0.6              | 2                            | 12                               | 50                           | 1.5                         | 4                       |
| 2DBED 006 120 645 | 0.3R X 0.6              | 2                            | 12                               | 45                           | 3.5                         | 6                       |
| 2DBED 006 120 650 | 0.3R X 0.6              | 2                            | 12                               | 50                           | 3.5                         | 6                       |
| 2DBED 010 160 350 | 0.5R X 1                | 6                            | 16                               | 50                           | 1.2                         | 3                       |
| 2DBED 010 160 355 | 0.5R X 1                | 6                            | 16                               | 55                           | 1.2                         | 3                       |
| 2DBED 010 160 450 | 0.5R X 1                | 6                            | 16                               | 50                           | 1.5                         | 4                       |
| 2DBED 010 160 455 | 0.5R X 1                | 6                            | 16                               | 55                           | 1.5                         | 4                       |
| 2DBED 010 160 650 | 0.5R X 1                | 6                            | 16                               | 50                           | 3.5                         | 6                       |
| 2DBED 010 160 655 | 0.5R X 1                | 6                            | 16                               | 55                           | 3.5                         | 6                       |
| 2DBED 010 180 350 | 0.5R X 1                | 6                            | 18                               | 50                           | 1.2                         | 3                       |
| 2DBED 010 180 355 | 0.5R X 1                | 6                            | 18                               | 55                           | 1.2                         | 3                       |
| 2DBED 010 180 450 | 0.5R X 1                | 6                            | 18                               | 50                           | 1.5                         | 4                       |
| 2DBED 010 180 455 | 0.5R X 1                | 6                            | 18                               | 55                           | 1.5                         | 4                       |
| 2DBED 010 180 650 | 0.5R X 1                | 6                            | 18                               | 50                           | 3.5                         | 6                       |
| 2DBED 010 180 655 | 0.5R X 1                | 6                            | 18                               | 55                           | 3.5                         | 6                       |
| 2DBED 020 160 350 | 1R X 2                  | 8                            | 16                               | 50                           | 1.2                         | 3                       |
| 2DBED 020 160 355 | 1R X 2                  | 8                            | 16                               | 55                           | 1.2                         | 3                       |
| 2DBED 020 160 450 | 1R X 2                  | 8                            | 16                               | 50                           | 1.5                         | 4                       |
| 2DBED 020 160 455 | 1R X 2                  | 8                            | 16                               | 55                           | 1.5                         | 4                       |
| 2DBED 020 160 650 | 1R X 2                  | 8                            | 16                               | 50                           | 3.5                         | 6                       |
| 2DBED 020 160 655 | 1R X 2                  | 8                            | 16                               | 55                           | 3.5                         | 6                       |
| 2DBED 020 200 350 | 1R X 2                  | 8                            | 20                               | 50                           | 1.2                         | 3                       |
| 2DBED 020 200 355 | 1R X 2                  | 8                            | 20                               | 55                           | 1.2                         | 3                       |
| 2DBED 020 200 450 | 1R X 2                  | 8                            | 20                               | 50                           | 1.5                         | 4                       |
| 2DBED 020 200 455 | 1R X 2                  | 8                            | 20                               | 55                           | 1.5                         | 4                       |
| 2DBED 020 200 650 | 1R X 2                  | 8                            | 20                               | 50                           | 3.5                         | 6                       |
| 2DBED 020 200 655 | 1R X 2                  | 8                            | 20                               | 55                           | 3.5                         | 6                       |
| 2DBED 030 200 355 | 1.5R X 3                | 10                           | 20                               | 55                           | 1.2                         | 3                       |
| 2DBED 030 200 455 | 1.5R X 3                | 10                           | 20                               | 55                           | 1.5                         | 4                       |
| 2DBED 030 200 655 | 1.5R X 3                | 10                           | 20                               | 55                           | 3.5                         | 6                       |



- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- 균일한 런아웃 공차관리로 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 PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.**
- Minimize chattering by even run-out and tolerance control.
- 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.



단위 : mm

| Order Number          |                    | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-----------------------|--------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 비코팅 Non coated        | 코팅 Coated          |                         |                           |                               |                           |                          |                      |
| NEW 2MRBD 003 140 450 | 2MRBDD 003 140 450 | 0.15R X 0.3             | 1                         | 14 (2.5°)                     | 50                        | 1.5                      | 4                    |
| 2MRBD 006 050 450     | 2MRBDD 006 050 450 | 0.3R X 0.6              | 2                         | 5                             | 50                        | 1.5                      | 4                    |
| 2MRBD 006 050 650     | 2MRBDD 006 050 650 | 0.3R X 0.6              | 2                         | 5                             | 50                        | 3.5                      | 6                    |
| 2MRBD 006 100 450     | 2MRBDD 006 100 450 | 0.3R X 0.6              | 2                         | 10                            | 50                        | 1.5                      | 4                    |
| 2MRBD 006 100 650     | 2MRBDD 006 100 650 | 0.3R X 0.6              | 2                         | 10                            | 50                        | 3.5                      | 6                    |
| 2MRBD 010 140 455     | 2MRBDD 010 140 455 | 0.5R X 1                | 6                         | 14                            | 55                        | 1.5                      | 4                    |
| 2MRBD 010 140 655     | 2MRBDD 010 140 655 | 0.5R X 1                | 6                         | 14                            | 55                        | 3.5                      | 6                    |
| 2MRBD 010 160 455     | 2MRBDD 010 160 455 | 0.5R X 1                | 6                         | 16                            | 55                        | 1.5                      | 4                    |
| 2MRBD 010 160 655     | 2MRBDD 010 160 655 | 0.5R X 1                | 6                         | 16                            | 55                        | 3.5                      | 6                    |
| 2MRBD 020 160 455     | 2MRBDD 020 160 455 | 1R X 2                  | 8                         | 16                            | 55                        | 1.5                      | 4                    |
| 2MRBD 020 160 655     | 2MRBDD 020 160 655 | 1R X 2                  | 8                         | 16                            | 55                        | 3.5                      | 6                    |
| NEW 2MRBD 020 180 450 | 2MRBDD 020 180 450 | 1R X 2                  | 8                         | 18                            | 50                        | 1.5                      | 4                    |
| NEW 2MRBD 020 180 650 | 2MRBDD 020 180 650 | 1R X 2                  | 8                         | 18                            | 50                        | 3.5                      | 6                    |
| 2MRBD 020 200 455     | 2MRBDD 020 200 455 | 1R X 2                  | 8                         | 20                            | 55                        | 1.5                      | 4                    |
| 2MRBD 020 200 655     | 2MRBDD 020 200 655 | 1R X 2                  | 8                         | 20                            | 55                        | 3.5                      | 6                    |



Carbide Electro Deposited Diamond End Mill

## 초경 전착 다이아몬드 엔드밀



- 지르코니아(ZrO<sub>2</sub>), E-MAX, 울티메이트(Ultimate) 등 비철 비금속 가공 엔드밀
- 완전 소결된 지르코니아, 세라믹, 글라스 등의 가공에 적합합니다.
- 다이아몬드 입자를 니켈 도금하여 내마모 성능이 탁월합니다.
- 초경 모제를 사용하여 공구 휨이 적어 정밀가공에 적합합니다.

### • Endmills for Zirconia, E-MAX, Ultimate, Non-ferrous and non-metallic materials.

- Milling process is suitable for completely sintered zirconia, ceramic and glass.
- Wear resistance is excellent by applying diamond particles with nickel plating.
- Precision processing is available with less bending on the tool with carbide material.

단위 : mm

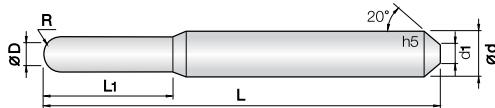
| Order Number        | 날경<br>Diameter<br>R×D | 날장<br>Length of cut<br>L1 | 전장<br>Overall Length<br>L | 생크소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|---------------------|-----------------------|---------------------------|---------------------------|-------------------------|----------------------|
| EDD 006 060 340     | 0.3R X 0.6            | 6                         | 40                        | 1.6                     | 3                    |
| EDD 006 060 350     | 0.3R X 0.6            | 6                         | 50                        | 1.6                     | 3                    |
| EDD 006 060 440     | 0.3R X 0.6            | 6                         | 40                        | 2                       | 4                    |
| EDD 006 060 450     | 0.3R X 0.6            | 6                         | 50                        | 2                       | 4                    |
| EDD 006 060 640     | 0.3R X 0.6            | 6                         | 40                        | 4.2                     | 6                    |
| EDD 006 060 650     | 0.3R X 0.6            | 6                         | 50                        | 4.2                     | 6                    |
| EDD 010 100 340     | 0.5R X 1              | 10                        | 40                        | 1.6                     | 3                    |
| EDD 010 100 350     | 0.5R X 1              | 10                        | 50                        | 1.6                     | 3                    |
| EDD 010 100 440     | 0.5R X 1              | 10                        | 40                        | 2                       | 4                    |
| EDD 010 100 450     | 0.5R X 1              | 10                        | 50                        | 2                       | 4                    |
| EDD 010 100 640     | 0.5R X 1              | 10                        | 40                        | 4.2                     | 6                    |
| EDD 010 100 650     | 0.5R X 1              | 10                        | 50                        | 4.2                     | 6                    |
| EDD 015 080 450     | 0.75R X 1.5           | 8                         | 50                        | 2                       | 4                    |
| NEW EDD 015 120 450 | 0.75R X 1.5           | 12                        | 50                        | 2                       | 4                    |

| Order Number        | 날경<br>Diameter<br>R×D | 날장<br>Length of cut<br>L1 | 전장<br>Overall Length<br>L | 생크소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|---------------------|-----------------------|---------------------------|---------------------------|-------------------------|----------------------|
| NEW EDD 015 120 650 | 0.75R X 1.5           | 12                        | 50                        | 4.2                     | 6                    |
| NEW EDD 015 150 650 | 0.75R X 1.5           | 15                        | 50                        | 4.2                     | 6                    |
| EDD 020 120 340     | 1R X 2                | 12                        | 40                        | 1.6                     | 3                    |
| EDD 020 120 350     | 1R X 2                | 12                        | 50                        | 1.6                     | 3                    |
| EDD 020 120 440     | 1R X 2                | 12                        | 40                        | 2                       | 4                    |
| EDD 020 120 450     | 1R X 2                | 12                        | 50                        | 2                       | 4                    |
| EDD 020 120 640     | 1R X 2                | 12                        | 40                        | 4.2                     | 6                    |
| EDD 020 120 650     | 1R X 2                | 12                        | 50                        | 4.2                     | 6                    |
| EDD 025 150 340     | 1.25R X 2.5           | 15                        | 40                        | 1.6                     | 3                    |
| EDD 025 150 350     | 1.25R X 2.5           | 15                        | 50                        | 1.6                     | 3                    |
| EDD 025 150 440     | 1.25R X 2.5           | 15                        | 40                        | 2                       | 4                    |
| EDD 025 150 450     | 1.25R X 2.5           | 15                        | 50                        | 2                       | 4                    |
| EDD 025 150 640     | 1.25R X 2.5           | 15                        | 40                        | 4.2                     | 6                    |
| EDD 025 150 650     | 1.25R X 2.5           | 15                        | 50                        | 4.2                     | 6                    |



Steel Electro Deposited Diamond End Mill

## 스틸 전착 다이아몬드 엔드밀



### • 지르코니아(ZrO<sub>2</sub>), E-MAX, 울티메이트(Ultimate) 등 비철 비금속 가공 엔드밀

- 완전 소결된 지르코니아, 세라믹, 글라스 등의 가공에 적합합니다.
- 다이아몬드 입자를 니켈 도금하여 내마모 성능이 탁월합니다.
- 다이아몬드 입자와 모제의 밀착력이 좋아, 피삭재 가공력이 뛰어납니다.

### • Endmills for Zirconia, E-MAX, Ultimate, Non-ferrous and non-metallic materials.

- Milling process is suitable for completely sintered zirconia, ceramic and glass.
- Wear resistance is excellent by applying diamond particles with nickel plating.
- High adhesion of diamond particles and carbide material, milling process is excellent on a workpiece.

단위 : mm

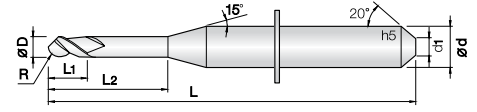
| Order Number     | 날경<br>Diameter<br>R×D | 날장<br>Length of cut<br>L1 | 전장<br>Overall Length<br>L | 생크소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-----------------------|---------------------------|---------------------------|-------------------------|----------------------|
| EDDH 006 060 340 | 0.3R X 0.6            | 6                         | 40                        | 1.6                     | 3                    |
| EDDH 006 060 350 | 0.3R X 0.6            | 6                         | 50                        | 1.6                     | 3                    |
| EDDH 006 060 440 | 0.3R X 0.6            | 6                         | 40                        | 2                       | 4                    |
| EDDH 006 060 450 | 0.3R X 0.6            | 6                         | 50                        | 2                       | 4                    |
| EDDH 006 060 640 | 0.3R X 0.6            | 6                         | 40                        | 4.2                     | 6                    |
| EDDH 006 060 650 | 0.3R X 0.6            | 6                         | 50                        | 4.2                     | 6                    |
| EDDH 010 100 340 | 0.5R X 1              | 10                        | 40                        | 1.6                     | 3                    |
| EDDH 010 100 350 | 0.5R X 1              | 10                        | 50                        | 1.6                     | 3                    |
| EDDH 010 100 440 | 0.5R X 1              | 10                        | 40                        | 2                       | 4                    |
| EDDH 010 100 450 | 0.5R X 1              | 10                        | 50                        | 2                       | 4                    |
| EDDH 010 100 640 | 0.5R X 1              | 10                        | 40                        | 4.2                     | 6                    |
| EDDH 010 100 650 | 0.5R X 1              | 10                        | 50                        | 4.2                     | 6                    |
| EDDH 015 080 450 | 0.75R X 1.5           | 8                         | 50                        | 2                       | 4                    |
| EDDH 015 120 450 | 0.75R X 1.5           | 12                        | 50                        | 2                       | 4                    |

| Order Number     | 날경<br>Diameter<br>R×D | 날장<br>Length of cut<br>L1 | 전장<br>Overall Length<br>L | 생크소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-----------------------|---------------------------|---------------------------|-------------------------|----------------------|
| EDDH 015 120 650 | 0.75R X 1.5           | 12                        | 50                        | 4.2                     | 6                    |
| EDDH 015 150 650 | 0.75R X 1.5           | 15                        | 50                        | 4.2                     | 6                    |
| EDDH 020 120 340 | 1R X 2                | 12                        | 40                        | 1.6                     | 3                    |
| EDDH 020 120 350 | 1R X 2                | 12                        | 50                        | 1.6                     | 3                    |
| EDDH 020 120 440 | 1R X 2                | 12                        | 40                        | 2                       | 4                    |
| EDDH 020 120 450 | 1R X 2                | 12                        | 50                        | 2                       | 4                    |
| EDDH 020 120 640 | 1R X 2                | 12                        | 40                        | 4.2                     | 6                    |
| EDDH 020 120 650 | 1R X 2                | 12                        | 50                        | 4.2                     | 6                    |
| EDDH 025 150 340 | 1.25R X 2.5           | 15                        | 40                        | 1.6                     | 3                    |
| EDDH 025 150 350 | 1.25R X 2.5           | 15                        | 50                        | 1.6                     | 3                    |
| EDDH 025 150 440 | 1.25R X 2.5           | 15                        | 40                        | 2                       | 4                    |
| EDDH 025 150 450 | 1.25R X 2.5           | 15                        | 50                        | 2                       | 4                    |
| EDDH 025 150 640 | 1.25R X 2.5           | 15                        | 40                        | 4.2                     | 6                    |
| EDDH 025 150 650 | 1.25R X 2.5           | 15                        | 50                        | 4.2                     | 6                    |



**1VHF** 1날 PMMA/PEEK/WAX 가공용 리브 볼 엔드밀  
1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환 장비(Compatible Machine)  
4Axes, Wieland, Brux Zir, EzMill, Jensen



1 WC 미립자 PMMA PEEK WAX R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1R Ø0.6 - Ø2

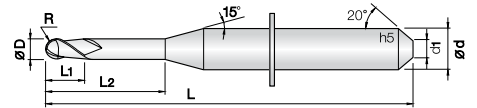
- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 1VHF 006 070 S03 | 0.3R X 0.6              | 2                         | 7                             | 35                        | 1.6                      | 3                    |
| 1VHF 006 110 S03 | 0.3R X 0.6              | 2                         | 11                            | 35                        | 1.6                      | 3                    |
| 1VHF 010 160 S03 | 0.5R X 1                | 5                         | 16                            | 35                        | 1.6                      | 3                    |
| 1VHF 020 170 S03 | 1R X 2                  | 8                         | 17                            | 35                        | 1.6                      | 3                    |

**2&3VHF** 2&3날 지르코니아 가공용 리브 볼 엔드밀  
2&3 Flutes Rib Ball End Mills for Zirconia

호환 장비(Compatible Machine)  
4Axes, Wieland, Brux Zir, EzMill, Jensen



2 3 WC 미립자 ZrO2 R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1R Ø0.6 - Ø2

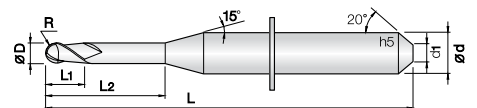
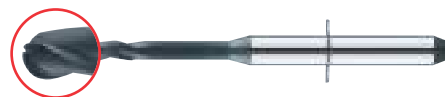
- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D      | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|------------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2VHF 006 070 S03 | 0.3R X 0.6                   | 2                         | 7                             | 35                        | 1.6                      | 3                    |
| 2VHF 006 110 S03 | 0.3R X 0.6                   | 2                         | 11                            | 35                        | 1.6                      | 3                    |
| 2VHF 010 160 S03 | 3VHF 010 160 S03<br>0.5R X 1 | 5                         | 16                            | 35                        | 1.6                      | 3                    |
| 2VHF 020 170 S03 | 3VHF 020 170 S03<br>1R X 2   | 8                         | 17                            | 35                        | 1.6                      | 3                    |

**2&3VHFD** 2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환 장비(Compatible Machine)  
5Axes, Wieland, Brux Zir, EzMill, Jensen



2 3 WC 미립자 ZrO2 NANO DIA. Coating R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1R Ø0.6 - Ø2

- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

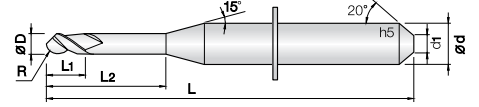
단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D       | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|-------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2VHFD 006 070 S03 | 0.3R X 0.6                    | 2                         | 7                             | 40                        | 1.6                      | 3                    |
| 2VHFD 006 110 S03 | 0.3R X 0.6                    | 2                         | 11                            | 40                        | 1.6                      | 3                    |
| 2VHFD 010 170 S03 | 3VHFD 010 170 S03<br>0.5R X 1 | 5                         | 17                            | 40                        | 1.6                      | 3                    |
| 2VHFD 020 170 S03 | 3VHFD 020 170 S03<br>1R X 2   | 8                         | 17                            | 40                        | 1.6                      | 3                    |



**1날 PMMA/PEEK/WAX 가공용 리브볼 엔드밀**  
1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환장비(Compatible Machine)  
Wieland mini, Select



1 WC 미립자 PMMA PEEK WAX UR ±0.01 DI +0-0.01 30° Helix Angle

- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

0.3 - 1.25R Ø0.6 - Ø2.5

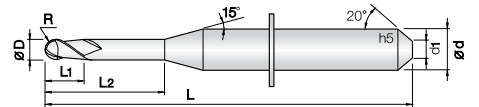
단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 생크소경<br>Shank<br>Dia<br>d1 | 생크<br>Shank<br>Dia<br>d |
|------------------|-------------------------|------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------|
| 1WIE 006 070 335 | 0.3R X 0.6              | 2                            | 7                                | 35                           | 1.6                        | 3                       |
| 1WIE 006 070 340 | 0.3R X 0.6              | 2                            | 7                                | 40                           | 1.6                        | 3                       |
| 1WIE 007 070 335 | 0.35R X 0.7             | 2                            | 7                                | 35                           | 1.6                        | 3                       |
| 1WIE 007 070 340 | 0.35R X 0.7             | 2                            | 7                                | 40                           | 1.6                        | 3                       |
| 1WIE 010 160 335 | 0.5R X 1                | 5                            | 16                               | 35                           | 1.6                        | 3                       |
| 1WIE 010 170 340 | 0.5R X 1                | 5                            | 17                               | 40                           | 1.6                        | 3                       |
| 1WIE 020 170 335 | 1R X 2                  | 8                            | 17                               | 35                           | 1.6                        | 3                       |
| 1WIE 020 170 340 | 1R X 2                  | 8                            | 17                               | 40                           | 1.6                        | 3                       |
| 1WIE 025 200 335 | 1.25R X 2.5             | 10                           | 20                               | 35                           | 1.6                        | 3                       |
| 1WIE 025 200 340 | 1.25R X 2.5             | 10                           | 20                               | 40                           | 1.6                        | 3                       |



**2&3날 지르코니아 가공용 리브볼 엔드밀**  
2&3 Flutes Rib Ball End Mills for Zirconia

호환장비(Compatible Machine)  
Wieland mini



2 3 WC 미립자 ZrO2 UR ±0.01 DI +0-0.01 30° Helix Angle

- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

0.3 - 1.25R Ø0.6 - Ø2.5

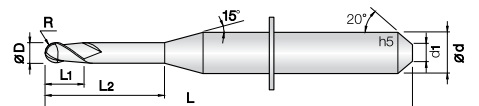
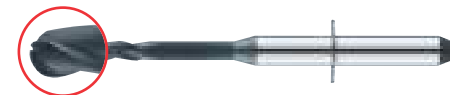
단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 생크소경<br>Shank<br>Dia<br>d1 | 생크<br>Shank<br>Dia<br>d |
|------------------|-------------------------|------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------|
| 2WIE 006 070 335 | 0.3R X 0.6              | 2                            | 7                                | 35                           | 1.6                        | 3                       |
| 2WIE 007 070 335 | 0.35R X 0.7             | 2                            | 7                                | 35                           | 1.6                        | 3                       |
| 2WIE 010 160 335 | 3WIE 010 160 335        | 0.5R X 1                     | 5                                | 16                           | 1.6                        | 3                       |
| 2WIE 020 170 335 | 3WIE 020 170 335        | 1R X 2                       | 8                                | 17                           | 1.6                        | 3                       |
| 2WIE 025 200 335 | 3WIE 025 200 335        | 1.25R X 2.5                  | 10                               | 20                           | 1.6                        | 3                       |



**2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀**  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
Wieland Select



2 3 WC 미립자 ZrO2 NANO DIA. Coating UR ±0.01 DI +0-0.01 30° Helix Angle

- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

0.3 - 1.25R Ø0.6 - Ø2.5

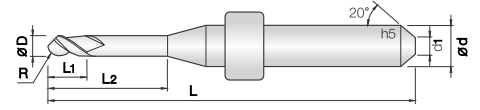
단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length<br>of cut<br>L1 | 유효장<br>Effective<br>Length<br>L2 | 전장<br>Overall<br>Length<br>L | 생크소경<br>Shank<br>Dia<br>d1 | 생크<br>Shank<br>Dia<br>d |
|-------------------|-------------------------|------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------|
| 2WIED 006 070 340 | 0.3R X 0.6              | 2                            | 7                                | 40                           | 1.6                        | 3                       |
| 2WIED 007 070 340 | 0.35R X 0.7             | 2                            | 7                                | 40                           | 1.6                        | 3                       |
| 2WIED 010 170 340 | 3WIED 010 170 340       | 0.5R X 1                     | 5                                | 17                           | 1.6                        | 3                       |
| 2WIED 020 170 340 | 3WIED 020 170 340       | 1R X 2                       | 8                                | 17                           | 1.6                        | 3                       |
| 2WIED 025 200 340 | 3WIED 025 200 340       | 1.25R X 2.5                  | 10                               | 20                           | 1.6                        | 3                       |



**1IME** 1날 PMMA/PEEK/WAX 가공용 리브 볼 엔드밀  
1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환장비(Compatible Machine)  
250i, 450i, 540i, DMG



1 WC 미립자 PMMA PEEK WAX R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1.25R Ø0.6 - Ø2.5

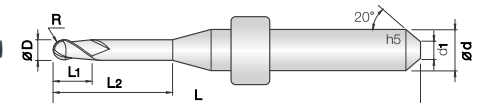
- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

단위: mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 1IME 006 070 S03  | 0.3R X 0.6              | 2                         | 7                             | 48                        | 1.6                      | 3                    |
| 1IME 006 070 S06  | 0.3R X 0.6              | 2                         | 7                             | 53                        | 4.2                      | 6                    |
| 1IME 0065 120 S03 | 0.325R X 0.65           | 2                         | 12                            | 48                        | 1.6                      | 3                    |
| 1IME 0065 120 S06 | 0.325R X 0.65           | 2                         | 12                            | 53                        | 4.2                      | 6                    |
| 1IME 010 160 S03  | 0.5R X 1                | 2                         | 16                            | 48                        | 1.6                      | 3                    |
| 1IME 010 160 S06  | 0.5R X 1                | 2                         | 16                            | 53                        | 4.2                      | 6                    |
| 1IME 020 200 S03  | 1R X 2                  | 8                         | 20                            | 48                        | 1.6                      | 3                    |
| 1IME 020 200 S06  | 1R X 2                  | 8                         | 20                            | 53                        | 4.2                      | 6                    |
| 1IME 025 200 S03  | 1.25R X 2.5             | 9                         | 20                            | 48                        | 1.6                      | 3                    |
| 1IME 025 200 S06  | 1.25R X 2.5             | 9                         | 20                            | 53                        | 4.2                      | 6                    |

**2&3IME** 2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
250i



2 3 WC 미립자 ZrO2 NANO DIA. Coating R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1.25R Ø0.6 - Ø2.5

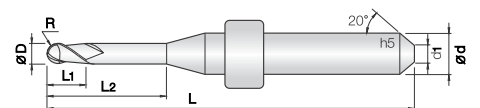
- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

단위: mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2IME 006 070 S03  | 0.3R X 0.6              | 2                         | 7                             | 48                        | 1.6                      | 3                    |
| 2IME 0065 120 S03 | 0.325R X 0.65           | 2                         | 12                            | 48                        | 1.6                      | 3                    |
| 2IME 010 160 S03  | 3IME 010 160 S03        | 0.5R X 1                  | 2                             | 16                        | 1.6                      | 3                    |
| 2IME 020 200 S03  | 3IME 020 200 S03        | 1R X 2                    | 8                             | 20                        | 1.6                      | 3                    |
| 2IME 025 200 S03  | 3IME 025 200 S03        | 1.25R X 2.5               | 9                             | 20                        | 1.6                      | 3                    |

**2&3IME** 2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
450i, 540i, DMG



2 3 WC 미립자 ZrO2 NANO DIA. Coating R ±0.01 D +0 -0.01 30° Helix Angle  
0.3 - 1.25R Ø0.6 - Ø2.5

- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

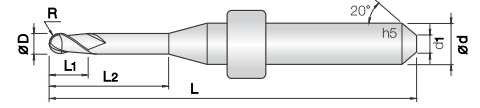
단위: mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2IME 006 070 S06  | 0.3R X 0.6              | 2                         | 7                             | 53                        | 4.2                      | 6                    |
| 2IME 0065 120 S06 | 0.325R X 0.65           | 2                         | 12                            | 53                        | 4.2                      | 6                    |
| 2IME 010 160 S06  | 3IME 010 160 S06        | 0.5R X 1                  | 2                             | 53                        | 4.2                      | 6                    |
| 2IME 020 200 S06  | 3IME 020 200 S06        | 1R X 2                    | 8                             | 53                        | 4.2                      | 6                    |
| 2IME 025 200 S06  | 3IME 025 200 S06        | 1.25R X 2.5               | 9                             | 53                        | 4.2                      | 6                    |

**2SIR**

**2날 PMMA/PEEK/WAX 가공용 리브볼 엔드밀**  
2 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환장비(Compatible Machine)  
Inlab MC X5



2 WC 미립자 PMMA PEEK WAX UR ±0.01 DI +0 -0.01 30° Helix Angle

- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

0.25 - 1.25R Ø0.5 - Ø2.5

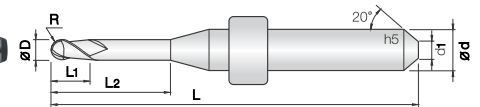
단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2SIR 005 060 342 | 0.25R X 0.5             | 0.8                       | 6                             | 42                        | 2                        | 3                    |
| 2SIR 010 170 343 | 0.5R X 1                | 2.7                       | 17                            | 43                        | 2                        | 3                    |
| 2SIR 025 250 344 | 1.25R X 2.5             | 5                         | 25                            | 44                        | 2                        | 3                    |

**2&3SIRD**

**2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀**  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
Inlab MC X5



2 3 WC 미립자 ZrO2 NANO DIA. Coating UR ±0.01 DI +0 -0.01 30° Helix Angle

- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

0.25 - 1.25R Ø0.5 - Ø2.5

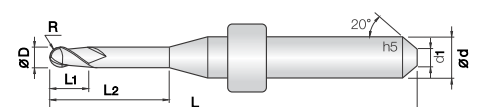
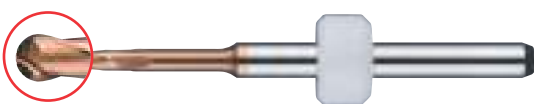
단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2SIRD 005 050 342 | 0.25R X 0.5             | 1                         | 5                             | 42                        | 2                        | 3                    |
| 2SIRD 010 180 343 | 0.5R X 1                | 3                         | 18                            | 43                        | 2                        | 3                    |
| 2SIRD 025 250 344 | 1.25R X 2.5             | 5                         | 25                            | 44                        | 2                        | 3                    |

**2SIRT**

**2날 티타늄 / 코발트-크롬 가공용 리브볼 엔드밀**  
2 Flutes Rib Ball End Mills for Titanium & Cobalt-Chrome

호환장비(Compatible Machine)  
Inlab MC X5



2 WC 미립자 TITAN TISIN Coating UR ±0.01 DI +0 -0.01 30° Helix Angle

- 티타늄, 코발트-크롬 계열의 디스크 및 어버트먼트 정밀가공
- Endmills for titanium and cobalt-chrom disk & abutment

0.5 - 1.5R Ø1 - Ø3

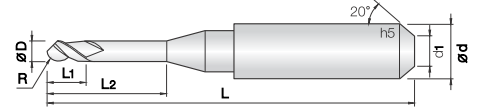
단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2SIRT 010 080 338 | 0.5R X 1                | 3.3                       | 8                             | 38                        | 2                        | 3                    |
| 2SIRT 020 120 349 | 1R X 2                  | 4.5                       | 12                            | 39                        | 2                        | 3                    |

1ARU

1&2날 PMMA/PEEK/WAX 가공용 리브 볼엔드밀  
1&2 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환장비(Compatible Machine)  
5X100, 5X150



- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

단위 : mm

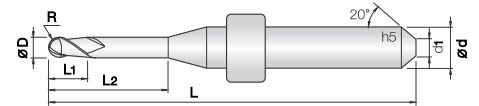
| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 1ARU 006 130 063 | 0.3R X 0.6              | 2                         | 13                            | 63                        | 4.2                      | 6                    |
| 1ARU 010 160 063 | 0.5R X 1                | 6                         | 16                            | 63                        | 4.2                      | 6                    |
| 1ARU 020 200 063 | 1R X 2                  | 8                         | 20                            | 63                        | 4.2                      | 6                    |

2ARU

2날 PMMA/PEEK/WAX 가공용 리브 볼엔드밀  
2 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

New

호환장비(Compatible Machine)  
5X300



- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

단위 : mm

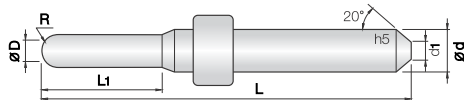
| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ARU 010 100 444 | 0.5R X 1                | 2                         | 10                            | 44                        | 3                        | 4                    |
| 2ARU 015 140 447 | 0.75R X 1.5             | 3                         | 14                            | 47                        | 3                        | 4                    |
| 2ARU 020 180 450 | 1R X 2                  | 6                         | 18                            | 50                        | 3                        | 4                    |

EARU

전착 다이아몬드 엔드밀  
Electro Deposited Diamond End Mill

New

호환장비(Compatible Machine)  
5X300



- 지르코니아(ZrO<sub>2</sub>), E-MAX, 얼티메이트(Ultimate) 등 비철 비금속 가공 엔드밀
- 완전 소결된 지르코니아 세라믹, 글라스 등의 가공에 적합합니다.
- 다이아몬드 입자를 니켈 도금하여 내마모 성능이 탁월합니다.
- 초경 모재를 사용하여 공구 힘이 적어 정밀가공에 적합합니다.
- Endmills for Zirconia, E-MAX, Ultimate, Non-ferrous and non-metallic materials.
- Milling process is suitable for completely sintered zirconia, ceramic and glass.
- Wear resistance is excellent by applying diamond particles with nickel plating.
- Precision processing is available with less bending on the tool with carbide material.

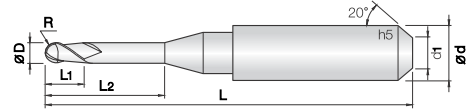
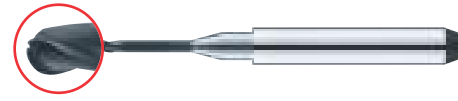
단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 전장<br>Overall Length<br>L | 생크 소경<br>Shank Dia<br>d1 | 생크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|---------------------------|--------------------------|----------------------|
| EARU 010 100 445 | 0.5R X 1                | 10                        | 44.5                      | 3                        | 4                    |
| EARU 015 100 445 | 0.75R X 1.5             | 10                        | 44.5                      | 3                        | 4                    |
| EARU 020 130 445 | 1R X 2                  | 13                        | 44.5                      | 3                        | 4                    |
| EARU 025 130 445 | 1.25R X 2.5             | 13                        | 44.5                      | 3                        | 4                    |

**2&3ARUD**

**2&3날 지르코니아 가공용 다이아몬드 코팅 볼 엔드밀**  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
5X100, 5X150

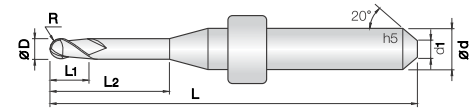
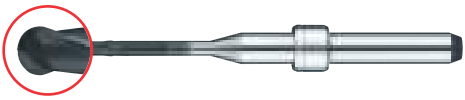


0.3 - 1R    ø0.6 - ø2

- 지르코니아(ZrO2), 얼티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |   |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|---|
| 2ARUD 006 130 063 | 0.3R X 0.6              | 2                         | 13                            | 63                        | 4.2                      | 6                    |   |
| 2ARUD 010 160 063 | 3ARUD 010 160 063       | 0.5R X 1                  | 6                             | 16                        | 63                       | 4.2                  | 6 |
| 2ARUD 020 200 063 | 3ARUD 020 200 063       | 1R X 2                    | 8                             | 20                        | 63                       | 4.2                  | 6 |



호환장비(Compatible Machine)  
5X100, 5X150

단위 : mm

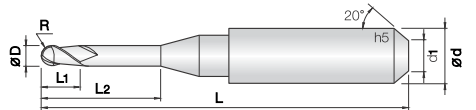
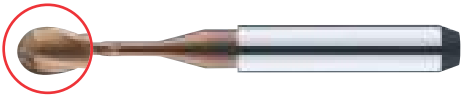
**New**

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |   |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|---|
| 2ARUD 006 100 445 | 0.3R X 0.6              | 1.6                       | 10                            | 45                        | 3                        | 4                    |   |
| 2ARUD 010 160 450 | 3ARUD 010 160 450       | 0.5R X 1                  | 2                             | 16                        | 50                       | 3                    | 4 |
| 2ARUD 020 180 450 | 3ARUD 020 180 450       | 1R X 2                    | 6                             | 18                        | 50                       | 3                    | 4 |

**2ARUT**

**2날 티타늄 / 코발트-크롬 가공용 리브 볼 엔드밀**  
2 Flutes Rib Ball End Mills for Titanium & Cobalt-Chrome

호환장비(Compatible Machine)  
5X100, 5X150

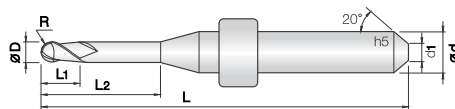


0.5 - 1.5R    ø1 - ø3

- 티타늄, 코발트-크롬 계열의 디스크 및 어버트먼트 정밀가공
- Endmills for titanium and cobalt-chrom disk & abutment

단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ARUT 010 080 S06 | 0.5R X 1                | 2                         | 8                             | 50                        | 4.2                      | 6                    |
| 2ARUT 015 100 S06 | 0.75R X 1.5             | 3                         | 10                            | 50                        | 4.2                      | 6                    |
| 2ARUT 020 120 S06 | 1R X 2                  | 6                         | 12                            | 50                        | 4.2                      | 6                    |
| 2ARUT 030 120 S06 | 1.5R X 3                | 8                         | 12                            | 50                        | 4.2                      | 6                    |



호환장비(Compatible Machine)  
5X300

단위 : mm

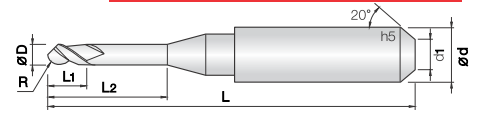
**New**

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ARUT 015 100 443 | 0.75R X 1.5             | 4                         | 10                            | 43                        | 3                        | 4                    |
| 2ARUT 020 120 444 | 1R X 2                  | 6                         | 12                            | 44                        | 3                        | 4                    |



## 1날 PMMA/PEEK/WAX 가공용 리브 볼 엔드밀 1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환장비(Compatible Machine)  
M1, M5



- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

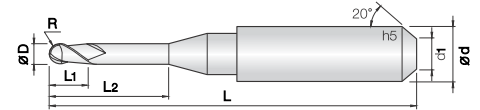
단위: mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 1ZIR 005 050 S03 | 0.25R X 0.5             | 3                         | 5                             | 57                        |                          | 3                    |
| 1ZIR 005 050 S06 | 0.25R X 0.5             | 3                         | 5                             | 50                        |                          | 6                    |
| 1ZIR 010 160 S03 | 0.5R X 1                | 8                         | 16                            | 57                        |                          | 3                    |
| 1ZIR 010 120 S06 | 0.5R X 1                | 6                         | 12                            | 50                        |                          | 6                    |
| 1ZIR 020 180 S03 | 1R X 2                  | 10                        | 18                            | 57                        |                          | 3                    |
| 1ZIR 020 180 S06 | 1R X 2                  | 10                        | 18                            | 50                        |                          | 6                    |



## 2&3날 지르코니아 가공용 리브 볼 엔드밀 2&3 Flutes Rib Ball End Mills for Zirconia

호환장비(Compatible Machine)  
M1, M5



- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

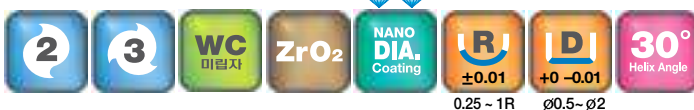
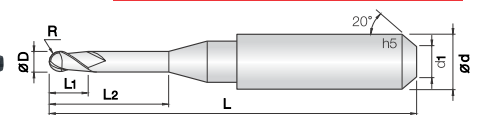
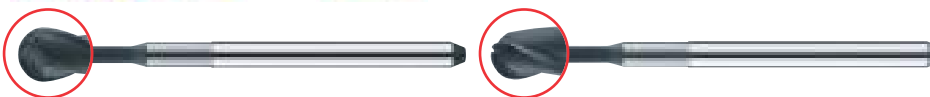
단위: mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ZIR 005 050 S03 | 0.25R X 0.5             | 3                         | 5                             | 57                        |                          | 3                    |
| 2ZIR 005 050 S06 | 0.25R X 0.5             | 3                         | 5                             | 50                        |                          | 6                    |
| 2ZIR 010 160 S03 | 3ZIR 010 160 S03        | 0.5R X 1                  | 8                             | 16                        | 57                       | 3                    |
| 2ZIR 010 120 S06 | 3ZIR 010 120 S06        | 0.5R X 1                  | 6                             | 12                        | 50                       | 6                    |
| 2ZIR 020 180 S03 | 3ZIR 020 180 S03        | 1R X 2                    | 10                            | 18                        | 57                       | 3                    |
| 2ZIR 020 180 S06 | 3ZIR 020 180 S06        | 1R X 2                    | 10                            | 18                        | 50                       | 6                    |



## 2&3날 지르코니아 가공용 다이아몬드 코팅볼 엔드밀 2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환장비(Compatible Machine)  
M1, M5



- 지르코니아(ZrO2), 울티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

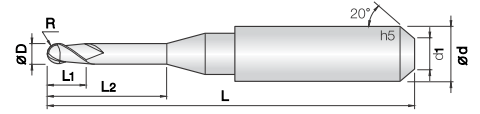
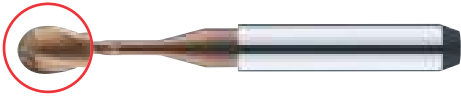
단위: mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ZIRD 005 050 S03 | 0.25R X 0.5             | 3                         | 5                             | 57                        |                          | 3                    |
| 2ZIRD 005 050 S06 | 0.25R X 0.5             | 3                         | 5                             | 50                        |                          | 6                    |
| 2ZIR D010 160 S03 | 3ZIR D010 160 S03       | 0.5R X 1                  | 8                             | 16                        | 57                       | 3                    |
| 2ZIR D010 120 S06 | 3ZIR D010 120 S06       | 0.5R X 1                  | 6                             | 12                        | 50                       | 6                    |
| 2ZIR D020 180 S03 | 3ZIR D020 180 S03       | 1R X 2                    | 10                            | 18                        | 57                       | 3                    |
| 2ZIR D020 180 S06 | 3ZIR D020 180 S06       | 1R X 2                    | 10                            | 18                        | 50                       | 6                    |



**2날 티타늄 / 코발트-크롬 가공용 리브 볼 엔드밀**  
2 Flutes Rib Ball End Mills for Titanium & Cobalt-Chrome

호환 장비(Compatible Machine)  
M1



2 WC 미립자 TITAN TISIN Coating UR ±0.01 DI +0 -0.01 30° Helix Angle  
 1 - 1.5R     $\phi 2 - \phi 3$

- 티타늄, 코발트-크롬 계열의 디스크 및 어버트먼트 정밀가공
- Endmills for titanium and cobalt-chrom disk & abutment

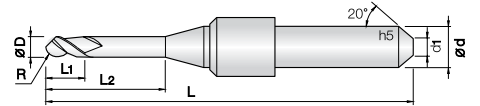
단위 : mm

| Order Number      | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2ZIRT 020 180 S06 | 1R X 2                  | 3                         | 18                            | 50                        |                          | 6                    |
| 2ZIRT 030 180 S06 | 1.5R X 3                | 4                         | 18                            | 50                        |                          | 6                    |



**1날 PMMA / PEEK / WAX 가공용 리브 볼 엔드밀**  
1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

호환 장비(Compatible Machine)  
Cera Mill



1 WC 미립자 PMMA PEEK WAX UR ±0.01 DI +0 -0.01 30° Helix Angle  
 0.3 - 1.25R     $\phi 0.6 - \phi 2.5$

- 플라스틱(PMMA), PEEK, WAX, ABS 등 비철 비금속 가공
- Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

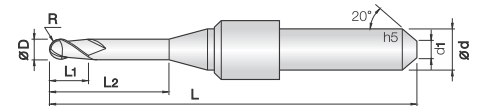
단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|------------------|-------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 1AMA 006 070 S03 | 0.3R X 0.6              | 2                         | 7                             | 47                        | 1.6                      | 3                    |
| 1AMA 010 170 S03 | 0.5R X 1                | 6                         | 17                            | 47                        | 1.6                      | 3                    |
| 1AMA 025 170 S03 | 1.25R X 2.5             | 9                         | 17                            | 47                        | 1.6                      | 3                    |



**2&3날 지르코니아 가공용 다이아몬드코팅 볼 엔드밀**  
2&3 Flutes Diamond Coated Ball End Mills for Zirconia

호환 장비 (Compatible Machine)  
Cera Mill



2 3 WC 미립자 ZrO<sub>2</sub> NANO DIA. Coating UR ±0.01 DI +0 -0.01 30° Helix Angle  
 0.3 - 1.25R     $\phi 0.6 - \phi 2.5$

- 지르코니아(ZrO<sub>2</sub>), 얼티메이트(ULTIMAT) 등 비철 비금속 가공
- Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.

단위 : mm

| Order Number     | 날경<br>Diameter<br>R x D         | 날장<br>Length of cut<br>L1 | 유효장<br>Effective Length<br>L2 | 전장<br>Overall Length<br>L | 샙크 소경<br>Shank Dia<br>d1 | 샙크<br>Shank Dia<br>d |
|------------------|---------------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|----------------------|
| 2AMA 003 140 S03 | 0.15R X 0.3                     | 1.2                       | 14 (2.5)                      | 47                        | 1.6                      | 3                    |
| 2AMA 006 070 S03 | 0.3R X 0.6                      | 2                         | 7                             | 47                        | 1.6                      | 3                    |
| 2AMA 006 120 S03 | 0.3R X 0.6                      | 2                         | 12                            | 47                        | 1.6                      | 3                    |
| 2AMA 010 170 S03 | 3AMA 010 170 S03<br>0.5R X 1    | 6                         | 17                            | 47                        | 1.6                      | 3                    |
| 2AMA 025 170 S03 | 3AMA 025 170 S03<br>1.25R X 2.5 | 9                         | 17                            | 47                        | 1.6                      | 3                    |

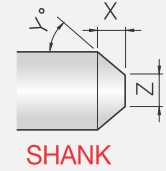
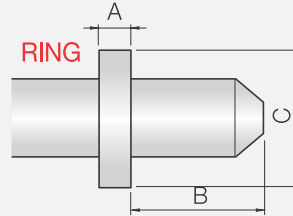
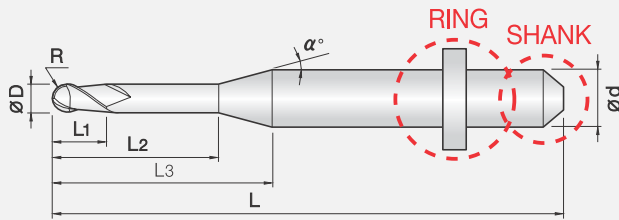
# 덴탈 신규 품목을 위한 설문

회사명

E-mail

장비 회사

장비 이름



## Tool size

|   |    |
|---|----|
| D   | mm |
| R   | mm |
| L   | mm |
| d1  | mm |
| L2  | mm |
| $\alpha$ or L3 (자사 기본 $\alpha = 15^\circ$ ) | mm |
| L   | mm |
| d   | ea |

## 생크 규격

|   |    |
|---|----|
| X | mm |
| Y | °  |
| Z | mm |

## 피삭재

|                 |                          |
|-----------------|--------------------------|
| Cobalt-chrome   | <input type="checkbox"/> |
| Titanium        | <input type="checkbox"/> |
| PMMA/PEEK       | <input type="checkbox"/> |
| WAX             | <input type="checkbox"/> |
| Zirconium oxide | <input type="checkbox"/> |
| Glass ceramic   | <input type="checkbox"/> |

## 링 소재

|                |                          |
|----------------|--------------------------|
| brass          | <input type="checkbox"/> |
| synthetic      | <input type="checkbox"/> |
| steel          | <input type="checkbox"/> |
| retaining ring | <input type="checkbox"/> |

## 링 규격

|   |    |
|---|----|
| A | mm |
| B | mm |
| C | mm |

## 날

|               |    |
|---------------|----|
| Ball nose     | mm |
| Corner radius | °  |
| Flat          | mm |
| 날 수           | 개  |

## 코팅

|                           |                          |
|---------------------------|--------------------------|
| Electro deposited diamond | <input type="checkbox"/> |
| Diamond                   | <input type="checkbox"/> |
| Al-Tin                    | <input type="checkbox"/> |
| Ti-Sin                    | <input type="checkbox"/> |
| Non-coating               | <input type="checkbox"/> |

• 위와 같은 Bur를 카탈로그에 추가하고 싶은 이유를 가능한 자세히 설명해 주십시오. (ex. 시장 상황, 예상 매출액 등)

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