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DENTAL SERIES

CAD/CAM Milling Bur

Rib Ball End Mills for Titanium & Cobalt-Chrom & Abutment



Diamond Coated Ball End Mills for Zirconia



Diamond Coated Ball End Mills for Zirconia



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



Electro Deposited Diamond End Mill



WIELAND TYPE



VHF TYPE



ARUM TYPE



ROLAND TYPE



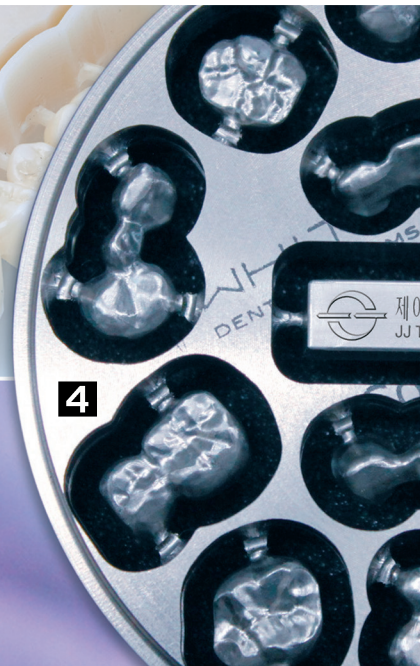
ZIRKONZAHN TYPE



IMES-ICORE TYPE



AMANN GIRRBACH TYPE



1 Cobalt-Chrome Disk

2 Zirconia

3 Abutment

4 Titanium Disk

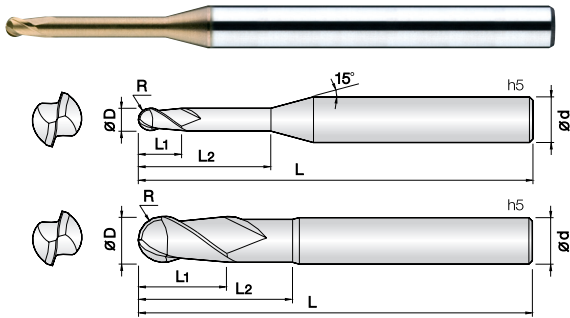
Outstanding Abrasion Resistance & Surface Finishes !



DENTAL DENTAL SERIES

2HRBD

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



- 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.



: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2HRBD 006 050 645	0.3R X 0.6	0.8	5	45	6	2HRBD 020 140 650	1R X 2	3	14	50	6
2HRBD 006 050 650	0.3R X 0.6	0.8	5	50	6	2HRBD 020 160 645	1R X 2	3	16	45	6
2HRBD 006 120 645	0.3R X 0.6	0.8	12	45	6	2HRBD 020 160 650	1R X 2	3	16	50	6
2HRBD 006 120 650	0.3R X 0.6	0.8	12	50	6	2HRBD 030 080 645	1.5R X 3	4	8	45	6
2HRBD 008 080 645	0.4R X 0.8	1	8	45	6	2HRBD 030 100 645	1.5R X 3	4	10	45	6
2HRBD 008 080 650	0.4R X 0.8	1	8	50	6	2HRBD 030 120 645	1.5R X 3	4	12	45	6
2HRBD 008 120 645	0.4R X 0.8	1	12	45	6	2HRBD 030 120 650	1.5R X 3	4	12	50	6
2HRBD 008 120 650	0.4R X 0.8	1	12	50	6	2HRBD 030 160 645	1.5R X 3	4	16	45	6
2HRBD 010 040 645	0.5R X 1	2	4	45	6	2HRBD 030 160 650	1.5R X 3	4	16	50	6
2HRBD 010 060 645	0.5R X 1	2	6	45	6						
2HRBD 010 080 645	0.5R X 1	2	8	45	6						
2HRBD 010 080 650	0.5R X 1	2	8	50	6						
2HRBD 010 100 645	0.5R X 1	2	10	45	6						
2HRBD 010 100 650	0.5R X 1	2	10	50	6						
2HRBD 010 120 645	0.5R X 1	2	12	45	6						
2HRBD 010 120 650	0.5R X 1	2	12	50	6						
2HRBD 015 100 645	0.75R X 1.5	2.5	10	45	6						
2HRBD 015 120 645	0.75R X 1.5	2.5	12	45	6						
2HRBD 015 120 650	0.75R X 1.5	2.5	12	50	6						
2HRBD 015 140 645	0.75R X 1.5	2.5	14	45	6						
2HRBD 015 140 650	0.75R X 1.5	2.5	14	50	6						
2HRBD 020 050 645	1R X 2	3	5	45	6						
2HRBD 020 080 645	1R X 2	3	8	45	6						
2HRBD 020 120 645	1R X 2	3	12	45	6						
2HRBD 020 120 650	1R X 2	3	12	50	6						
2HRBD 020 140 645	1R X 2	3	14	45	6						



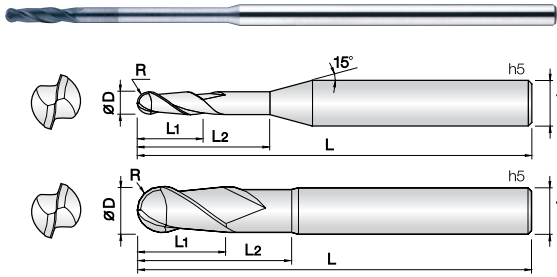
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• **Endmills for Zirconia, Ultimate, Non-ferrous and non-metallic materials.**

- Excellent wear resistance and surface finishes by applying qualified CVD diamond coating.
- Wide range products prepared for various work shape and excellent performance.

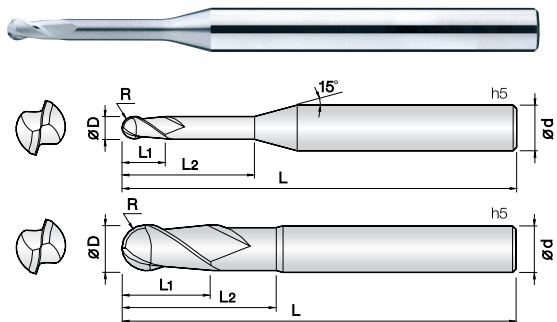
: mm

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



2MRBD

2 Flutes Rib Ball End Mills for PMMA & PEEK & WAX



- 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.

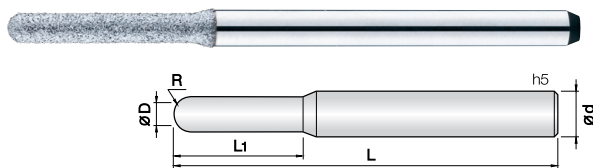


: mm

Order Number		Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d		
Non coated	Coated						Non coated	Coated
2MRBD 006 050 450	2MRBDD 006 050 450	0.3R X 0.6	2	5	50	4		
2MRBD 006 050 650	2MRBDD 006 050 650	0.3R X 0.6	2	5	50	6		
2MRBD 006 100 450	2MRBDD 006 100 450	0.3R X 0.6	2	10	50	4		
2MRBD 006 100 650	2MRBDD 006 100 650	0.3R X 0.6	2	10	50	6		
2MRBD 010 140 455	2MRBDD 010 140 455	0.5R X 1	6	14	55	4		
2MRBD 010 140 655	2MRBDD 010 140 655	0.5R X 1	6	14	55	6		
2MRBD 010 160 455	2MRBDD 010 160 455	0.5R X 1	6	16	55	4		
2MRBD 010 160 655	2MRBDD 010 160 655	0.5R X 1	6	16	55	6		
2MRBD 020 160 455	2MRBDD 020 160 455	1R X 2	8	16	55	4		
2MRBD 020 160 655	2MRBDD 020 160 655	1R X 2	8	16	55	6		
2MRBD 020 200 455	2MRBDD 020 200 455	1R X 2	8	20	55	4		
2MRBD 020 200 655	2MRBDD 020 200 655	1R X 2	8	20	55	6		

EDD

Electro Deposited Diamond End Mill



- Endmills for Zirconia, E-MAX, Ultimate, Non-ferrous and non-metallic materials.
- Minimized brittle fracture by intermittent cutting.



mm

Order Number	Diameter R x D	Length of cut L1	Overall Length L	Shank Dia d	Order Number	Diameter R x D	Length of cut L1	Overall Length L	Shank Dia d
EDD 006 060 340	0.3R X 0.6	6	40	3	EDD 020 120 340	1R X 2	12	40	3
EDD 006 060 348	0.3R X 0.6	6	48	3	EDD 020 120 348	1R X 2	12	48	3
EDD 006 060 440	0.3R X 0.6	6	40	4	EDD 020 120 440	1R X 2	12	40	4
EDD 006 060 450	0.3R X 0.6	6	50	4	EDD 020 120 450	1R X 2	12	50	4
EDD 006 060 640	0.3R X 0.6	6	40	6	EDD 020 120 640	1R X 2	12	40	6
EDD 006 060 650	0.3R X 0.6	6	50	6	EDD 020 120 650	1R X 2	12	50	6
EDD 010 100 340	0.5R X 1	10	40	3	EDD 025 150 340	1.25R X 2.5	15	40	3
EDD 010 100 348	0.5R X 1	10	48	3	EDD 025 150 348	1.25R X 2.5	15	48	3
EDD 010 100 440	0.5R X 1	10	40	4	EDD 025 150 440	1.25R X 2.5	15	40	4
EDD 010 100 450	0.5R X 1	10	50	4	EDD 025 150 450	1.25R X 2.5	15	50	4
EDD 010 100 640	0.5R X 1	10	40	6	EDD 025 150 640	1.25R X 2.5	15	40	6
EDD 010 100 650	0.5R X 1	10	50	6	EDD 025 150 650	1.25R X 2.5	15	50	6
EDD 015 080 450	0.75R X 1.5	8	50	4					



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CAD/CAM Milling Bur

VHF TYPE

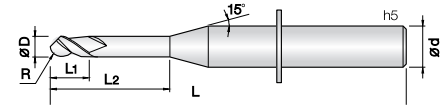
CAD/CAM Milling Bur of each machine manufacturer

1VHF PMMA/PEEK/WAX

1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX



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



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

0.3 - 1R $\phi 0.6 - \phi 2$

• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

: mm

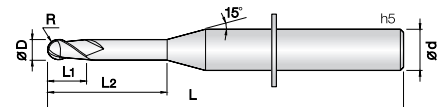
Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
1VHF 006 070 S03	0.3R X 0.6	2	7	35	3
1VHF 006 110 S03	0.3R X 0.6	2	11	35	3
1VHF 010 160 S03	0.5R X 1	5	16	35	3
1VHF 020 170 S03	1R X 2	8	17	35	3

2&3VHF

2&3 Flutes Rib Ball End Mills for Zirconia



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



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

0.3 - 1R $\phi 0.6 - \phi 2$

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

mm

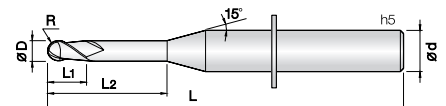
Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2VHF 006 070 S03	0.3R X 0.6	2	7	35	3
2VHF 006 110 S03	0.3R X 0.6	2	11	35	3
2VHF 010 160 S03	0.5R X 1	5	16	35	3
2VHF 020 170 S03	1R X 2	8	17	35	3

2&3VHFD

2&3 Flutes Diamond Coated Ball End Mills for Zirconia



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



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

0.3 - 1R $\phi 0.6 - \phi 2$

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

mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2VHFD 006 070 S03	0.3R X 0.6	2	7	40	3
2VHFD 006 110 S03	0.3R X 0.6	2	11	40	3
2VHFD 010 170 S03	0.5R X 1	5	17	40	3
2VHFD 020 170 S03	1R X 2	8	17	40	3



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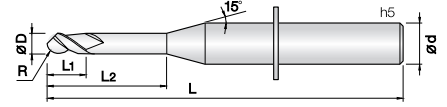
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1WIE PMMA/PEEK/WAX
1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

(Compatible Machine)
Wieland mini, Select



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

0.3 - 1.25R ϕ0.6 - ϕ2.5

• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

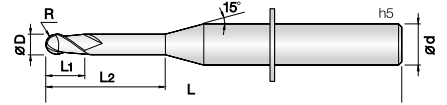
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
1WIE 006 070 335	0.3R X 0.6	2	7	35	3
1WIE 006 070 340	0.3R X 0.6	2	7	40	3
1WIE 007 070 335	0.35R X 0.7	2	7	35	3
1WIE 007 070 340	0.35R X 0.7	2	7	40	3
1WIE 010 160 335	0.5R X 1	5	16	35	3
1WIE 010 170 340	0.5R X 1	5	17	40	3
1WIE 020 170 335	1R X 2	8	17	35	3
1WIE 020 170 340	1R X 2	8	17	40	3
1WIE 025 200 335	1.25R X 2.5	10	20	35	3
1WIE 025 200 340	1.25R X 2.5	10	20	40	3

2&3WIE

2&3 Flutes Rib Ball End Mills for Zirconia

(Compatible Machine)
Wieland mini



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

0.3 - 1.25R ϕ0.6 - ϕ2.5

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

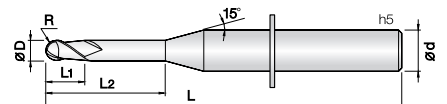
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2WIE 006 070 335	0.3R X 0.6	2	7	35	3
2WIE 007 070 335	0.35R X 0.7	2	7	35	3
2WIE 010 160 335	3WIE 010 160 335	0.5R X 1	5	16	3
2WIE 020 170 335	3WIE 020 170 335	1R X 2	8	17	3
2WIE 025 200 335	3WIE 025 200 335	1.25R X 2.5	10	20	3

2&3WIED

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)
Wieland Select



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

0.3 - 1.25R ϕ0.6 - ϕ2.5

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

: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2WIED 006 070 340	0.3R X 0.6	2	7	40	3
2WIED 007 070 340	0.35R X 0.7	2	7	40	3
2WIED 010 170 340	3WIED 010 170 340	0.5R X 1	5	17	3
2WIED 020 170 340	3WIED 020 170 340	1R X 2	8	17	3
2WIED 025 200 340	3WIED 025 200 340	1.25R X 2.5	10	20	3



CAD/CAM Milling Bur

CAD/CAM Milling Bur of each machine manufacturer

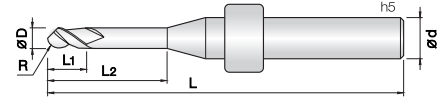
IMES-ICORE TYPE

1IME PMMA/PEEK/WAX

1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

(Compatible Machine)

250i, 450i, 540i, DMG



• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

mm

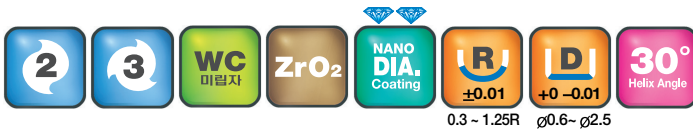
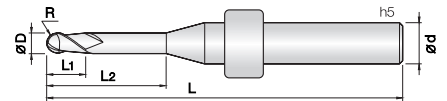
Order Number	Diameter R×D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
1IME 006 070 S03	0.3R X 0.6	2	7	48	3
1IME 006 070 S06	0.3R X 0.6	2	7	53	6
1IME 0065 120 S03	0.325R X 0.65	2	12	48	3
1IME 0065 120 S06	0.325R X 0.65	2	12	53	6
1IME 010 160 S03	0.5R X 1	2	16	48	3
1IME 010 160 S06	0.5R X 1	2	16	53	6
1IME 020 200 S03	1R X 2	8	20	48	3
1IME 020 200 S06	1R X 2	8	20	53	6
1IME 025 200 S03	1.25R X 2.5	9	20	48	3
1IME 025 200 S06	1.25R X 2.5	9	20	53	6

2&3IME

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)

250i



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

mm

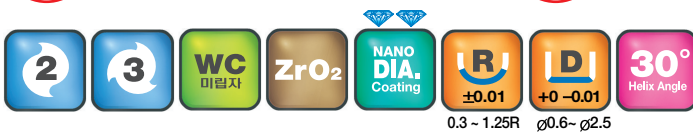
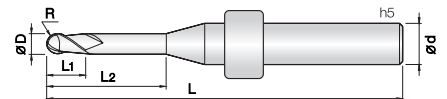
Order Number	Diameter R×D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	
2IME 006 070 S03	0.3R X 0.6	2	7	48	3	
2IME 0065 120 S03	0.325R X 0.65	2	12	48	3	
2IME 010 160 S03	3IME 010 160 S03	0.5R X 1	2	16	48	3
2IME 020 200 S03	3IME 020 200 S03	1R X 2	8	20	48	3
2IME 025 200 S03	3IME 025 200 S03	1.25R X 2.5	9	20	48	3

2&3IME

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)

450i, 540i, DMG



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

단위: mm

Order Number	날경 Diameter R×D	날장 Length of cut L1	유효장 Effective Length L2	전장 Overall Length L	샤프트 Shank Dia d	비고
2IME 006 070 S06	0.3R X 0.6	2	7	53	6	
2IME 0065 120 S06	0.325R X 0.65	2	12	53	6	
2IME 010 160 S06	3IME 010 160 S06	0.5R X 1	2	53	6	
2IME 020 200 S06	3IME 020 200 S06	1R X 2	8	53	6	
2IME 025 200 S06	3IME 025 200 S06	1.25R X 2.5	9	53	6	



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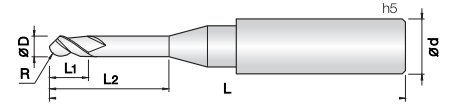


www.smarttoolsuk.com

1ARU

1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

(Compatible Machine)



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

0.3 ~ 1R Ø0.6 ~ Ø2

• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

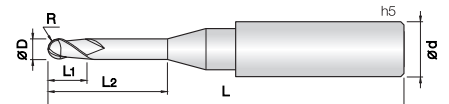
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
1ARU 006 130 050	0.3R X 0.6	2	13	50	6
1ARU 006 130 063	0.3R X 0.6	2	13	63	6
1ARU 010 160 053	0.5R X 1	6	16	53	6
1ARU 010 160 063	0.5R X 1	6	16	63	6
1ARU 020 200 055	1R X 2	8	20	55	6
1ARU 020 200 063	1R X 2	8	20	63	6

2&3ARU

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)



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

0.3 ~ 1R Ø0.6 ~ Ø2

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

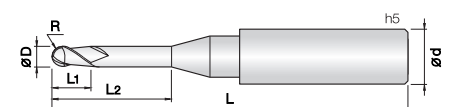
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	
2ARU 006 130 050	0.3R X 0.6	2	13	50	6	
2ARU 006 130 063	0.3R X 0.6	2	13	63	6	
2ARU 010 160 053	3ARU 010 160 053	0.5R X 1	6	16	53	6
2ARU 010 160 063	3ARU 010 160 063	0.5R X 1	6	16	63	6
2ARU 020 200 055	3ARU 020 200 055	1R X 2	8	20	55	6
2ARU 020 200 063	3ARU 020 200 063	1R X 2	8	20	63	6

2ARUT

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

(Compatible Machine)



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

0.5 ~ 1.5R Ø1 ~ Ø3

• Endmills for titanium and cobalt-chrom disk & abutment

: mm

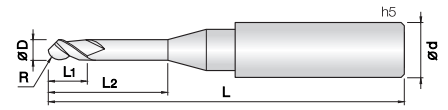
Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2ARUT 010 080 S06	0.5R X 1	2	8	50	6
2ARUT 015 100 S06	0.75R X 1.5	3	10	50	6
2ARUT 020 120 S06	1R X 2	6	12	50	6
2ARUT 030 120 S06	1.5R X 3	8	12	50	6



1ZIR

1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

(Compatible Machine)
M1, M5



• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

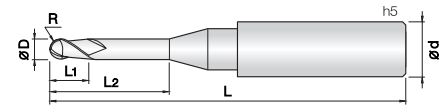
mm

Order Number	Diameter R×D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia 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&3ZIR

2&3 Flutes Rib Ball End Mills for Zirconia

(Compatible Machine)
M1, M5



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

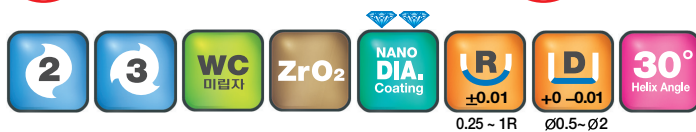
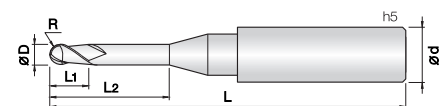
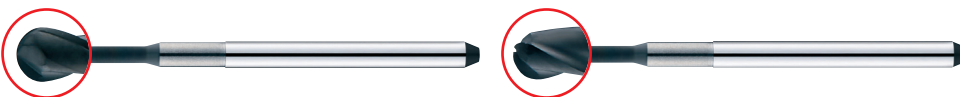
mm

Order Number	Diameter R×D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia 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&3ZIRD

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)
M1, M5



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

mm

Order Number	Diameter R×D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia 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	
2ZIRD D010 160 S03	3ZIRD D010 160 S03	0.5R X 1	8	16	57	3
2ZIRD D010 120 S06	3ZIRD D010 120 S06	0.5R X 1	6	12	50	6
2ZIRD D020 180 S03	3ZIRD D020 180 S03	1R X 2	10	18	57	3
2ZIRD D020 180 S06	3ZIRD D020 180 S06	1R X 2	10	18	50	6

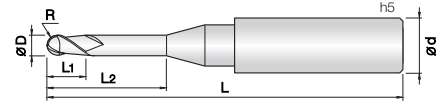


2ZIRT

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

(Compatible Machine)

M1



2
WC 미립자
TITAN
TISIN Coating
UR ±0.01 1 - 1.5R
DI +0 -0.01 Ø2-Ø3
30° Helix Angle

• Endmills for titanium and cobalt-chrom disk & abutment

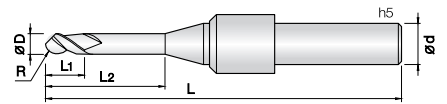
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2ZIRT 020 180 S06	1R X 2	3	18	50	6
2ZIRT 030 180 S06	1.5R X 3	4	18	50	6

1AMA

1 Flutes Rib Ball End Mills for PMMA & PEEK & WAX

(Compatible Machine)



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

• Endmills for PMMA, PEEK, WAX, A.B.S, non-ferrous and non-metallic materials.

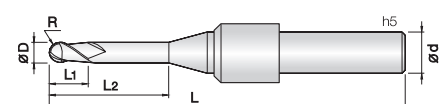
: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
1AMA 006 070 S03	0.3R X 0.6	2	7	47	3
1AMA 010 170 S03	0.5R X 1	6	17	47	3
1AMA 025 170 S03	1.25R X 2.5	9	17	47	3

2&3AMA

2&3 Flutes Diamond Coated Ball End Mills for Zirconia

(Compatible Machine)



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

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

: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2AMA 006 070 S03	0.3R X 0.6	2	7	47	3
2AMA 010 170 S03	3AMA 010 170 S03 0.5R X 1	6	17	47	3
2AMA 025 170 S03	3AMA 025 170 S03 1.25R X 2.5	9	17	47	3



ACUCERA

We guarantee high quality and stable cutting environment by providing ACUCERA block which is used as only pure material from Japan to offer stable zirconia cutting.



NP+ White / Shade A1, A2, A3



ZirPremium-NP+ is a high transmission Block for Full-Crown. It is produced under optimized chemical composition based on 'Nano-Particle'. Through lots of clinic test, brightness of this block is almost similar to natural color. Additionally, Shade material which was developed by our company shows high transmission and natural color.

(Maximum strength) : 120Mpa, (Plastic temperature) : 1530°C
(T) : 10T, 12T, 14T, 16T, 18T, 20T, 22T, 25T (Stock)

UT+ White / Shade A1, A2, A3



ZirPremium-UP+ is a new concept Zirconia Block which High Transmission is optimized. It can apply to Anterior region which use glass ceramic and Esthetic prosthesis(for INLAY, ONLAY). By Zirconia's toughness, it can use stably. High transmission Zirconia block -UT+ will help to reduce working hours. Shade block shows high transmission and natural color.

(Maximum strength) : 800-900Mpa, (Plastic temperature) : 1500°C
(T) : 10T, 12T, 14T, 16T, 18T, 20T, 22T, 25T (Stock)

HT White / Shade A2



ZirPremium-HT is a high purity Block which has few or no impurities for Full-Crown. It shows natural transmission and high strength by using high purity raw material. The natural color of HT raises degree of completion of prosthetic appliance. Additionally, it can use stably in long case or full arch case without node by high strength. Uniform particle arrangement shows superb machinability and absorptiveness of shade liquid.

(Maximum strength) : 1300Mpa, (Plastic temperature) : 1600°C, For Zirkozahn 95ø
(T) : 10T, 12T, 14T, 16T, 18T, 20T, 22T, 25T (Stock)