

DENTAL

SERIES 97

CAD/CAM Milling Bur



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2

4

3

1 Cobalt-Chrome Disk

2 Zirconia

3 Abutment

4 Titanium Disk

Helion

WORKING
FOR YOUR
SUCCESS
SINCE 1952

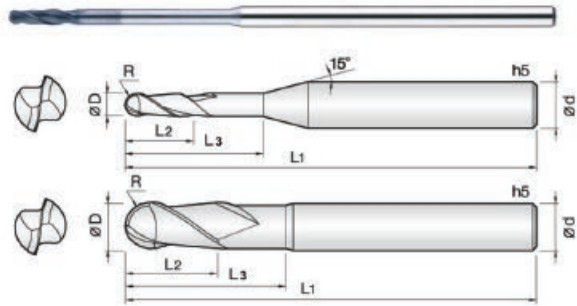


Outstanding Abrasion Resistance & Surface Finishes!

DENTAL SERIES 97

97.8822

2 Flutes Diamond Coated Ball End Mills for Zirconia



- 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.

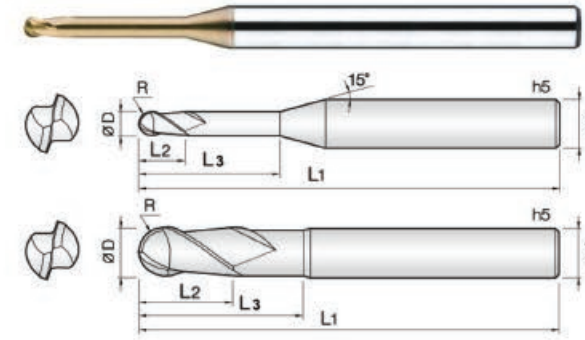


D Size	D Tolerance
∅0.2 - 5	+0 - -0.01mm

ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.8822.0500	0.5	1.5	5	45	3	97.8822.1002	1	6	16	50	4
97.8822.0501	0.5	1.5	5	50	3	97.8822.1003	1	6	16	55	4
97.8822.0502	0.5	1.5	5	45	4	97.8822.1004	1	6	16	50	6
97.8822.0503	0.5	1.5	5	50	4	97.8822.1005	1	6	16	55	6
97.8822.0504	0.5	1.5	5	45	6	97.8822.1006	1	6	18	50	3
97.8822.0505	0.5	1.5	5	50	6	97.8822.1007	1	6	18	55	3
97.8822.0506	0.5	1.5	12	45	3	97.8822.1008	1	6	18	50	4
97.8822.0507	0.5	1.5	12	50	3	97.8822.1009	1	6	18	55	4
97.8822.0508	0.5	1.5	12	45	4	97.8822.1010	1	6	18	50	6
97.8822.0509	0.5	1.5	12	50	4	97.8822.1011	1	6	18	55	6
97.8822.0510	0.5	1.5	12	45	6	97.8822.2000	2	8	16	50	3
97.8822.0511	0.5	1.5	12	50	6	97.8822.2001	2	8	16	55	3
97.8822.0600	0.6	2	5	45	3	97.8822.2002	2	8	16	50	4
97.8822.0601	0.6	2	5	50	3	97.8822.2003	2	8	16	55	4
97.8822.0602	0.6	2	5	45	4	97.8822.2004	2	8	16	50	6
97.8822.0603	0.6	2	5	50	4	97.8822.2005	2	8	16	55	6
97.8822.0604	0.6	2	5	45	6	97.8822.2006	2	8	20	50	3
97.8822.0605	0.6	2	5	50	6	97.8822.2007	2	8	20	55	3
97.8822.0606	0.6	2	12	45	3	97.8822.2008	2	8	20	50	4
97.8822.0607	0.6	2	12	50	3	97.8822.2009	2	8	20	55	4
97.8822.0608	0.6	2	12	45	4	97.8822.2010	2	8	20	50	6
97.8822.0609	0.6	2	12	50	4	97.8822.2011	2	8	20	55	6
97.8822.0610	0.6	2	12	45	6	97.8822.3000	3	10	20	55	3
97.8822.0611	0.6	2	12	50	6	97.8822.3001	3	10	20	55	4
97.8822.1000	1	6	16	50	3	97.8822.3002	3	10	20	55	6
97.8822.1001	1	6	16	55	3						

97.7823

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.

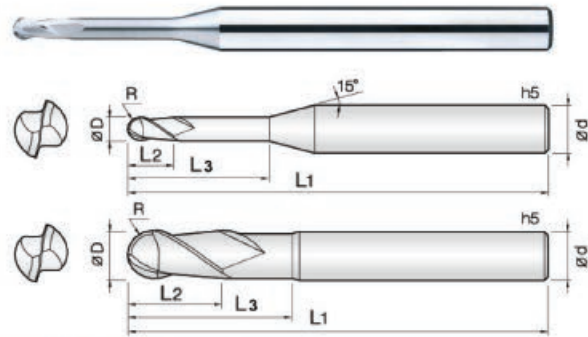


D Size	D Tolerance
∅0.6 - 3	+0 - -0.01mm

ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.7823.0600	0.6	0.8	5	45	6	97.7823.1501	1.5	2.5	12	45	6
97.7823.0601	0.6	0.8	5	50	6	97.7823.1502	1.5	2.5	12	50	6
97.7823.0602	0.6	0.8	12	45	6	97.7823.1503	1.5	2.5	14	45	6
97.7823.0603	0.6	0.8	12	50	6	97.7823.1504	1.5	2.5	14	50	6
97.7823.0800	0.8	1	8	45	6	97.7823.2000	2	3	5	45	6
97.7823.0801	0.8	1	8	50	6	97.7823.2001	2	3	8	45	6
97.7823.0802	0.8	1	12	45	6	97.7823.2002	2	3	12	45	6
97.7823.0803	0.8	1	12	50	6	97.7823.2003	2	3	12	50	6
97.7823.1000	1	2	4	45	6	97.7823.2004	2	3	14	45	6
97.7823.1001	1	2	6	45	6	97.7823.2005	2	3	14	50	6
97.7823.1002	1	2	8	45	6	97.7823.2006	2	3	16	45	6
97.7823.1003	1	2	8	50	6	97.7823.2007	2	3	16	50	6
97.7823.1004	1	2	10	45	6	97.7822.3000	3	4	8	45	6
97.7823.1005	1	2	10	50	6	97.7822.3001	3	4	10	45	6
97.7823.1006	1	2	12	45	6	97.7822.3002	3	4	12	45	6
97.7823.1007	1	2	12	50	6	97.7822.3003	3	4	16	45	6
97.7823.1500	1.5	2.5	10	45	6	97.7822.3004	3	4	16	50	6

97.9824

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.



D Size	D Tolerance
∅0.6 - 2	+0 - -0.01mm

ORDER NUMBER NON COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER NON COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.9824.0600	0.6	2	5	50	4	97.9824.1004	1	6	16	55	4
97.9824.0602	0.6	2	5	50	6	97.9824.1006	1	6	16	55	6
97.9824.0604	0.6	2	10	50	4	97.9824.2000	2	8	16	55	4
97.9824.0606	0.6	2	10	50	6	97.9824.2002	2	8	16	55	6
97.9824.1000	1	6	14	55	4	97.9824.2004	2	8	20	55	4
97.9824.1002	1	6	14	55	6	97.9824.2006	2	8	20	55	6

ORDER NUMBER COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.9824.0601	0.6	2	5	50	4	97.9824.1005	1	6	16	55	4
97.9824.0603	0.6	2	5	50	6	97.9824.1007	1	6	16	55	6
97.9824.0605	0.6	2	10	50	4	97.9824.2001	2	8	16	55	4
97.9824.0607	0.6	2	10	50	6	97.9824.2003	2	8	16	55	6
97.9824.1001	1	6	14	55	4	97.9824.2005	2	8	20	55	4
97.9824.1003	1	6	14	55	6	97.9824.2007	2	8	20	55	6

97.8000

Electro Deposited Diamond End Mill



- Endmill with solid ceramic material for grinding and cutting machining
- Optimized for form surface machining and minimized brittle fracture by intermittent cutting.



D Size	D Tolerance
∅0.6 - 2.5	±0.05mm

ORDER NUMBER	D Diameter	L2 Length of cut	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L1 Overall Length	d Shank Dia
97.8000.0600	0.6	6	40	3	97.8000.2000	2	12	40	3
97.8000.0601	0.6	6	40	6	97.8000.2001	2	12	40	6
97.8000.1000	1	10	40	3	97.8000.2500	2.5	15	40	3
97.8000.1001	1	10	40	6	97.8000.2501	2.5	15	40	6

Diamond Coated Ball End Mills for Zirconia



- 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.

D Size	D Tolerance
∅0.6 - 3	+0 - -0.01mm



97.88 RO - ROLAND Compatible Machine DWX 50, DWX 4

ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.88RO.0600	0.6	2	6	50	4	97.88RO.1001	1	6	20	50	4
97.88RO.0601	0.6	2	14	50	4	97.88RO.2000	2	8	20	50	4
97.88RO.1000	1	6	16	50	4	97.88RO.2001	3	10	20	50	4



97.88 VH - VHF Compatible Machine (Coated) 5X, Brux Zir, EzMill, Jensen, Master-Mill, 5Axes
Compatible Machine (Non Coated) 4X

ORDER NUMBER COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.88VH.0600	0.6	2	7	35	3	97.88VH.1000	1	5	17	35	3
97.88VH.0602	0.6	2	11	35	3	97.88VH.2000	2	8	17	35	3

ORDER NUMBER NON COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER NON COATED	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.88VH.0601	0.6	2	7	35	3	97.88VH.1001	1	5	17	35	3
97.88VH.0603	0.6	2	11	35	3	97.88VH.2001	2	8	17	35	3



97.88 WI - WIELAND Compatible Machine Wieland mini

ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.88WI.0700	0.7	2	7	38	3	97.88WI.1001	1	5	18	40	3
97.88WI.0701	0.7	2	7	40	3	97.88WI.2000	2	15	20	38	3
97.88WI.1000	1	5	16	38	3	97.88WI.2001	2	15	20	40	3



97.88 AR - ARUM

ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L2 Length of cut	L3 Effective Length	L1 Overall Length	d Shank Dia
97.88AR.0600	0.6	2	13	63	6	97.88AR.2000	2	8	20	63	6
97.88AR.1000	1	6	16	63	6						

Diamond Coated Ball End Mills for Zirconia

D Size	D Tolerance
∅0.6 - 2.5	+0 - -0.01mm

- **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.



97.88 IM - IMES-CORE Compatible Machine 250i

ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia
97.88IM.0600	0.6	2	7	48	3	97.88IM.2000	2	8	20	48	3
97.88IM.1000	1	2	16	48	3	97.88IM.2500	2.5	9	20	48	3

Compatible Machine 450i DMG

ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia
97.88IM.0601	0.6	2	7	53	6	97.88IM.2001	2	8	20	53	6
97.88IM.1001	1	2	16	53	6	97.88IM.2501	2.5	9	20	53	6



97.88 ZI - ZIRKONZAHN Compatible Machine M5

ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia
97.88ZI.0600	0.6	3	12	57	3	97.88ZI.2000	2	10	18	57	3
97.88ZI.1000	1	8	16	57	3						



97.88 AM - AMANN GIRRBACH

ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia	ORDER NUMBER	D Diameter	L ₂ Length of cut	L ₃ Effective Length	L ₁ Overall Length	d Shank Dia
97.88AM.0600	0.6	2	7	47	3	97.88AM.2500	2.5	9	18	47	3
97.88AM.1000	1	6	18	47	3						



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