



Carbide Dent

DENTAL SOLID CARBIDE ENDMILLS

Carbide Dent produces high performance Dental Milling Tools designed specially for dental milling systems.



2023

OUR COATINGS:



REAL DIAMOND COATING-

A CVD multi-layer diamond coating that offer outstanding performance which are ideal for machining highly abrasive materials such as Zirconium oxide (Zirconia).

The lifespan of a diamond tool is several times higher than that of tools that are not coated with real diamond.

The difference is significant.



DIAMOND LIKE CARBON (DLC)-

A PVD single-layer coating that offers high thermal stability, in addition to its high hardness and coating adhesion.



TITANIUM SILICON NITRIDE (TiSiN)-

A PVD multi-layer coating characterized with low adhesion tendency. this coating allows working under high temperature of up to 1100°C thus making it Ideal for machining metals such as Titanium and Cobalt Chrome.

	Process	Color	Hardness (HV 0,05)	Recommended Application
Real Diamond coating	CVD	Gray-Black	10,000	Zirconia
Diamond like Carbon (DLC)	PVD	Black	> 6,000	Zirconia
Titanium Silicon Nitride (TiSiN)	PVD	Copper	4,000	Titanium/ CoCr

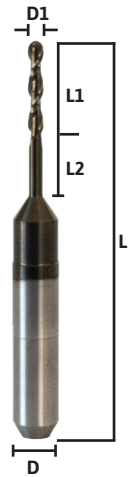
COMPATIBLE WITH:

AMANN GIRRBACH®

Amann Girrbach Ceramill Mikro 4X,
5X, Micro ic, Motion2 5X



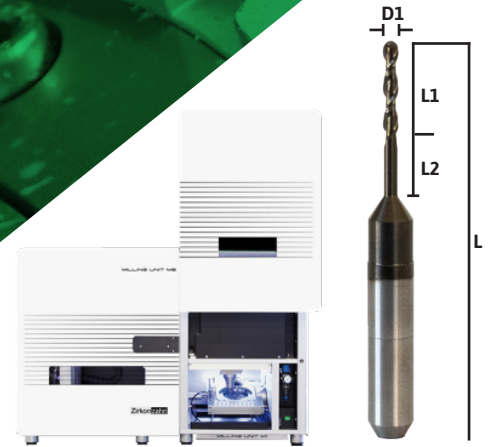
Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
AG069	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.6	13	2.5	3	47	Ball Nose	CVD Diamond	Zirconia
AG19	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	1	17	3	3	47	Ball Nose	CVD Diamond	Zirconia
AG259	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	2.5	17	5	3	47	Ball Nose	CVD Diamond	Zirconia
AG037	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.3	13	3.8	3	47	Ball Nose	DLC	Zirconia
AG067	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.6	13	2.5	3	47	Ball Nose	DLC	Zirconia
AG17	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	1	17	3	3	47	Ball Nose	DLC	Zirconia
AG257	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	2.5	17	5	3	47	Ball Nose	DLC	Zirconia
AG15	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	1	17	3	3	47	Ball Nose	TiSiN	PMMA/WAX
AG255	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	2.5	17	5	3	47	Ball Nose	TiSiN	PMMA/WAX
AG13	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	4	1	8	4	3	43	Ball Nose	TiSiN	Titanium/ CoCr
AG263	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	4	2	8	5	3	43	Ball Nose	TiSiN	Titanium/ CoCr



COMPATIBLE WITH:
ZIRKONZAHN®

Zirkonzahn M1, M2, M4, M5, M6

Item Name	Compatible to item	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
ZZ6037	0.3C	M1, M2, M4, M5, M6	2	0.3	-	3	6	50	Ball Nose	DLC	Zirconia
ZZ6057	0.5S	M1, M2, M4, M5, M6	2	0.5	-	3.5	6	50	Ball Nose	DLC	Zirconia
ZZ6067	0.6A	M1, M2, M4, M5, M6	2	0.6	7	3.5	6	50	Flat	DLC	Zirconia
ZZ617	1L	M1, M2, M4, M5, M6	2	1	12	6	6	50	Ball Nose	DLC	Zirconia
ZZ6157	1.5A	M1, M2, M4, M5, M6	2	1.5	17.4	5	6	50	Flat	DLC	Zirconia
ZZ627	2L	M1, M2, M4, M5, M6	2	2	17.9	10	6	50	Ball Nose	DLC	Zirconia
ZZ619	1L	M1, M2, M4, M5, M6	2	1	12	6	6	50	Ball Nose	CVD Diamond	Zirconia
ZZ629	2L	M1, M2, M4, M5, M6	2	2	17.9	10	6	50	Ball Nose	CVD Diamond	Zirconia
ZZ625C	2T	M1, M2, M4, M5, M6	4	2	12	4	6	50	Corner Radius	TiSiN	Titanium/ CoCr
ZZ635C	3T	M1, M2, M4, M5, M6	4	3	18	6	6	50	Corner Radius	TiSiN	Titanium/ CoCr
ZZ6155C	1.5T	M1, M2, M4, M5, M6	4	1.5	-	2	6	50	Corner Radius	TiSiN	Titanium/ CoCr
ZZ625B	2R	M1, M2, M4, M5, M6	2	2	11.8	5.5	6	50	Ball Nose	TiSiN	Titanium/ CoCr
ZZ615B	1R	M1, M2, M4, M5, M6	2	1	10.1	2.2	6	50	Ball Nose	TiSiN	Titanium/ CoCr
ZZ6055F	0.5S	M1, M2, M4, M5, M6	2	0.5	2.7	1.5	6	50	Flat	TiSiN	Titanium/ CoCr
ZZ6155FS	1.5S	M1, M2, M4, M5, M6	2	1.5	9.5	9.5	6	50	Flat	TiSiN	Titanium/ CoCr
ZZ6155FL	1.5SXL	M1, M2, M4, M5, M6	2	1.5	15	6	6	50	Flat	TiSiN	Titanium/ CoCr
ZZ6125F	1.2S	M1, M2, M4, M5, M6	2	1.2	10.1	5	6	50	Flat	TiSiN	Titanium/ CoCr
ZZ635B	3R	M1, M2, M4, M5, M6	2	3	6	18	6	50	Ball Nose	TiSiN	Titanium/ CoCr
ZZ6055B	0.5R	M1, M2, M4, M5, M6	2	0.5	-	2.5	6	50	Ball Nose	TiSiN	Titanium/ CoCr



COMPATIBLE WITH:
ZIRKONZAHN®

Zirkonzahn M1, M2, M4, M5, M6

Item Name	compatible to item	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
ZZ327	2L	M1, M3, M5	2	2	16	10	3	57	Ball Nose	DLC	Zirconia
ZZ317	1L	M1, M3, M5	2	1	14	7	3	57	Ball Nose	DLC	Zirconia
ZZ3057	0.5S	M1, M3, M5	2	0.5	9.8	3.5	3	57	Ball Nose	DLC	Zirconia
ZZ3157	1.5A	M1, M3, M5	2	1.5	7	3.3	3	57	Ball Nose	DLC	Zirconia
ZZ3067	0.6A	M1, M3, M5	2	0.6	17.4	6.7	3	57	Ball Nose	DLC	Zirconia
ZZ3037	0.3C	M1, M3, M5	2	0.3	-	3	3	57	Ball Nose	DLC	Zirconia
ZZ329	2L	M1, M3, M5	2	2	16	10	3	57	Ball Nose	CVD Diamond	Zirconia
ZZ319	1L	M1, M3, M5	2	1	14	7	3	57	Ball Nose	CVD Diamond	Zirconia
ZZ616TH	2G	M1, M2, M4, M5, M6	-	1.6	-	1.7	6	50	-	TiSiN	Titanium/ CoCr
ZZ610	1L-P	M1, M2, M4, M5, M6	2	1	20	6	6	50	Ball Nose	Uncoated	PMMA/ Wax
ZZ620	2L-P	M1, M2, M4, M5, M6	1	2	17	8	6	50	Ball Nose	Uncoated	PMMA/ Wax
ZZ610R	1L	M1, M2, M4, M5, M6	2	1	12	6	6	50	Ball Nose	Uncoated	PMMA/ Wax
ZZ620R	2L	M1, M2, M4, M5, M6	2	2	17.9	10	6	50	Ball Nose	Uncoated	PMMA/ Wax

COMPATIBLE WITH:
VHF/SCHÜTZ®

vhf K4, K5, S1, S2

Schütz Tizian Cut 5 smart pro plus, Tizian Cut 5 dry, Tizian Cut compact, Tizian Cut 5 smart, Tizian Cut eco plus

Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
VH4019	vhf- K5, S1, S2 schutz- Tizian Cut 5 Smart Pro Plus, Tizian Cut 5 dry, Tizian Cut 5 smart	2	1	16	2.3	3	40	Ball Nose	CVD Diamond	Zirconia
VH4029	vhf- K5, S1, S2 schutz- Tizian Cut 5 Smart Pro Plus, Tizian Cut 5 dry, Tizian Cut 5 smart	2	2	16	4.5	3	40	Ball Nose	CVD Diamond	Zirconia
VH4010	vhf- K5, S1, S2 schutz- Tizian Cut 5 Smart Pro Plus, Tizian Cut 5 dry, Tizian Cut 5 smart	2	1	16	2.3	3	40	Ball Nose	Uncoated	PMMA/ Wax
VH4020	vhf- K5, S1, S2 schutz- Tizian Cut 5 Smart Pro Plus, Tizian Cut 5 dry, Tizian Cut 5 smart	2	2	16	4.5	3	40	Ball Nose	Uncoated	PMMA/ Wax



COMPATIBLE WITH:
WIELAND®

Wieland Zenotec Select Hybrid

Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
WI4019	Zenotec Select Hybrid	2	1	14.4	5	3	40	Ball Nose	CVD Diamond	Zirconia
WI40259	Zenotec Select Hybrid	2	2.5	19	8	3	40	Ball Nose	CVD Diamond	Zirconia
WI3510	Zenotec Mini	2	1	14.4	5	3	35	Ball Nose	Uncoated	PMMA/ Wax
WI35250	Zenotec Mini	2	2.5	20	8	3	35	Ball Nose	Uncoated	PMMA/ Wax



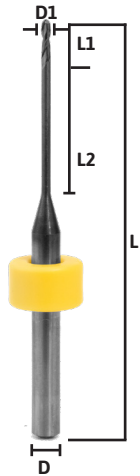


COMPATIBLE WITH:

ROLAND®

**Roland DWX-52DCi, DWX-52d,
DWX-42W, DWX-4**

Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
R2	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	2	20.5	7	4	50	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
R1	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1	20.5	2.8	4	50	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
R15	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1	16	2.5	4	50	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
R06	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	0.6	10.1	2.4	4	50	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
R03	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	0.3	4.2	1.5	4	50	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
R27	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	2	20.5	8	4	50	Ball Nose	DLC	Zirconia
R17	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1	20.5	2.8	4	50	Ball Nose	DLC	Zirconia
R29	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	2	20	5.9	4	50	Ball Nose	CVD Diamond	Zirconia
R159	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1	15.4	3.1	4	50	Ball Nose	CVD Diamond	Zirconia
R239	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	3	2	20	5.9	4	50	Ball Nose	CVD Diamond	Zirconia
R139	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	3	1	15.4	3.1	4	50	Ball Nose	CVD Diamond	Zirconia
R19	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1	20	2.5	4	50	Ball Nose	CVD Diamond	Zirconia
R069	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	0.6	10.1	2.4	4	50	Ball Nose	CVD Diamond	Zirconia



COMPATIBLE WITH:

SIRONA®

Sirona MC X5

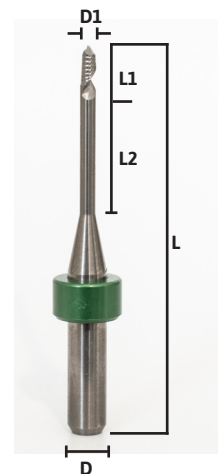
Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
S059	MC X5	2	0.5	5	1.3	3	42	Ball Nose	CVD Diamond	Zirconia
S19	MC X5	2	1	17	3.7	3	43	Ball Nose	CVD Diamond	Zirconia
S259	MC X5	4	2.5	23.1	4.8	3	44	Ball Nose	CVD Diamond-	Zirconia
S05	MC X5	2	0.5	5	1.3	3	42	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
S1	MC X5	2	1	17	3.9	3	43	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
S25	MC X5	2	2.5	24	7.4	3	44	Ball Nose	Uncoated	Zirconia/ PMMA/WAX
S057	MC X5	2	0.5	5	1.3	3	42	Ball Nose	DLC	Zirconia
S17	MC X5	2	1	17	3.7	3	43	Ball Nose	DLC	Zirconia
S257	MC X5	4	2.5	23.1	4.8	3	44	Ball Nose	DLC	Zirconia



COMPATIBLE WITH:
IMES ICORE®

CORiTEC 350i, 650i

Item Name	compatible to item	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
II13	T4/T9	CORiTEC 350i, 650i	2	1	10	4.5	6	45	Ball Nose	TiSiN	Titanium/ CoCr
II153	T3/T8	CORiTEC 350i, 650i	2	1.5	13	5.2	6	48	Ball Nose	TiSiN	Titanium/ CoCr
II23	T2/T7	CORiTEC 350i, 650i	2	2	12	7.1	6	45	Ball Nose	TiSiN	Titanium/ CoCr
II33	T1/T6	CORiTEC 350i, 650i	2	3	16	9.5	6	45	Ball Nose	TiSiN	Titanium/ CoCr
II259	T13/T40/T50	CORiTEC 350i, 650i	2	2.5	18.3	6	6	53	Ball Nose	CVD Diamond	Zirconia
II19	T14/T41/T51	CORiTEC 350i, 650i	2	1	14	4	6	53	Ball Nose	CVD Diamond	Zirconia
II25	T11	CORiTEC 350i, 650i	1	2.5	20	7.7	6	53	Ball Nose	Uncoated	PMMA/ Wax
II1	T12	CORiTEC 350i, 650i	1	1	14	3.3	6	53	Ball Nose	Uncoated	PMMA/ Wax
II153FS	T63	CORiTEC 350i, 650i	2	1.5	7.4	4.4	6	45	Flat	TiSiN	Titanium/ CoCr
II153FL	T64	CORiTEC 350i, 650i	2	1.5	14.5	4	6	48	Flat	TiSiN	Titanium/ CoCr
II23F	T67	CORiTEC 350i, 650i	4	2	-	8	6	45	Flat	TiSiN	Titanium/ CoCr
II153F4	T68	CORiTEC 350i, 650i	4	1.5	15.8	4.7	6	46	Flat	TiSiN	Titanium/ CoCr
II153D	T81	CORiTEC 350i, 650i	-	1.5	18	14.9	6	50	Drill	TiSiN	Titanium/ CoCr
II33L	T26	CORiTEC 350i, 650i	2	3	21	9.5	6	50	Ball Nose	TiSiN	Titanium/ CoCr
II23L	T27	CORiTEC 350i, 650i	2	2	18	7	6	50	Ball Nose	TiSiN	Titanium/ CoCr



COMPATIBLE WITH:
IVOCLAR PROGRAMILL®

Item Name	compatible to item	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
IP1		PM 3, PM 5, PM 7	1	1	9.7	2	6	52	Ball Nose	Uncoated	PMMA/ Wax
IP25		PM 3, PM 5, PM 7	1	2.5	25.1	5.1	6	60	Ball Nose	Uncoated	PMMA/ Wax

THANK YOU!

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