



Carbide Dent

TUNGSTEN CARBIDE MILLING BURS

Carbide Dent manufactures high-performance milling burs specifically designed for dental milling systems.



2024

OUR COATINGS:



UNCOATED

All our milling burs are produced from premium Tungsten Carbide. A specialized grinding process is used to achieve a highly polished finish on the milling bur flutes, resulting in improved chip flow during milling.

Uncoated milling burs are ideal for machining PMMA, wax, PEEK.



REAL DIAMOND COATING

The CVD multi-layer diamond coating provides outstanding performance, making it particularly suitable for machining highly abrasive materials such as zirconium oxide (zirconia). Diamond-coated tools last several times longer than their non-coated counterparts, resulting in a significant difference in durability.

Characteristics:

Color: Black

Hardness (HV 0,05): 10,000



TITANIUM SILICON NITRIDE (TiSiN)

A PVD multi-layer coating known for its low adhesion properties. This coating enables operation at high temperatures of up to 1100°C, making it ideal for machining metals such as Titanium and Cobalt Chrome.

Characteristics:

Color: Copper

Hardness (HV 0,05): 4,000

*Additional types of coatings are available according to specific requirements.

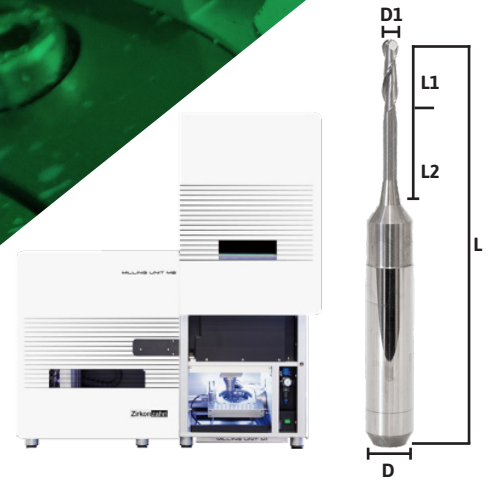
COMPATIBLE WITH:

AMANN GIRRBACH®

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



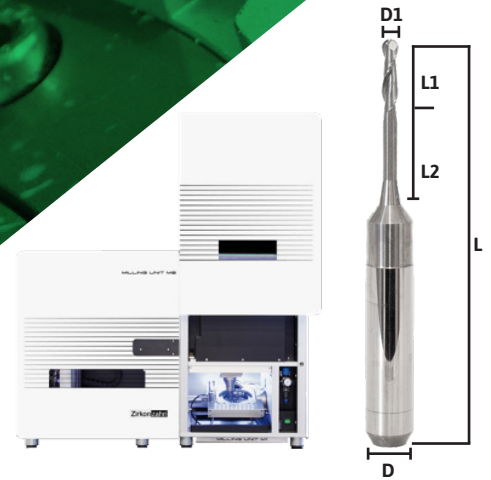
Item Name	Compatible with Machine Models	Number of Flutes	Cut Diameter (D1)	Neck length (L2)	Length of Cut (L1)	Shank Diameter (D)	Overall Length (L)	End Type	Coating	Application
AG069	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.6	13	2.5	3	47	Ball Nose	CVD Diamond	Zirconia
AG19	Matik, Mikro 4X, 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
AG030	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.3	13	3.8	3	47	Ball Nose	Uncoated	Zirconia
AG060	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	0.6	13	2.5	3	47	Ball Nose	Uncoated	Zirconia
AG10	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	1	17	3	3	47	Ball Nose	Uncoated	Zirconia
AG250	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	2.5	17	5	3	47	Ball Nose	Uncoated	Zirconia
AG15	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	1	17	3	3	47	Ball Nose	Silver	PMMA/WAX
AG255	Matik, Mikro 4X, Mikro 5X, Mikro ic, Motion2	2	2.5	17	5	3	47	Ball Nose	Silver	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
ZZ6030	0.3C	M1, M2, M4, M5, M6	2	0.3	-	3	6	50	Ball Nose	Uncoated	Zirconia
ZZ6050	0.5S	M1, M2, M4, M5, M6	2	0.5	-	3.5	6	50	Ball Nose	Uncoated	Zirconia
ZZ6060	0.6A	M1, M2, M4, M5, M6	2	0.6	7	3.5	6	50	Flat	Uncoated	Zirconia
ZZ610Z	1L	M1, M2, M4, M5, M6	2	1	12	6	6	50	Ball Nose	Uncoated	Zirconia
ZZ6150	1.5A	M1, M2, M4, M5, M6	2	1.5	17.4	5	6	50	Flat	Uncoated	Zirconia
ZZ620Z	2L	M1, M2, M4, M5, M6	2	2	17.9	10	6	50	Ball Nose	Uncoated	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®

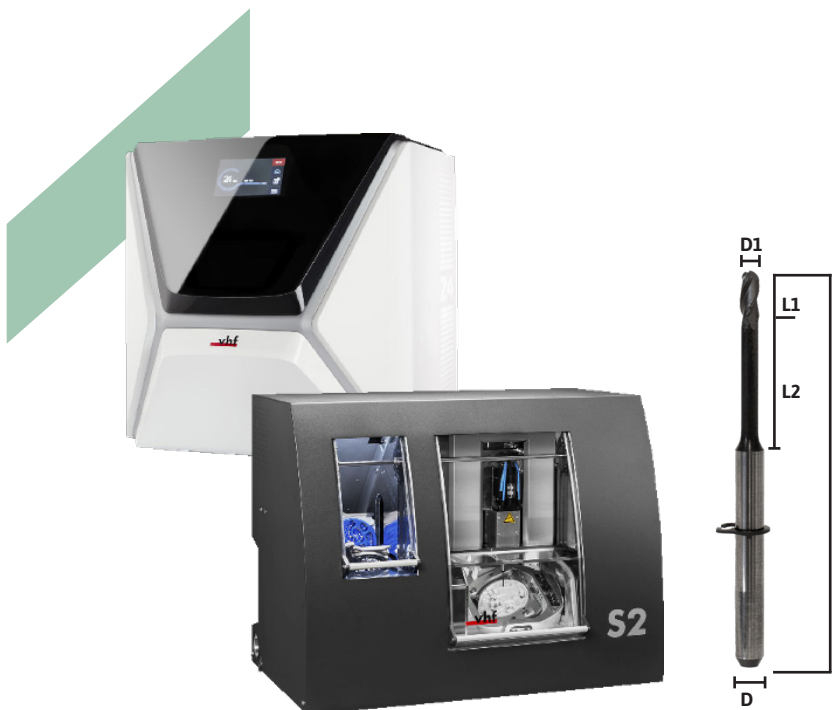
Zirkonzahn M1, M2, M4, M5, M6

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
ZZ320	2L	M1, M3, M5	2	2	16	10	3	57	Ball Nose	Uncoated	Zirconia
ZZ310	1L	M1, M3, M5	2	1	14	7	3	57	Ball Nose	Uncoated	Zirconia
ZZ3050	0.5S	M1, M3, M5	2	0.5	9.8	3.5	3	57	Ball Nose	DLC	Zirconia
ZZ3150	1.5A	M1, M3, M5	2	1.5	7	3.3	3	57	Ball Nose	DLC	Zirconia
ZZ3060	0.6A	M1, M3, M5	2	0.6	17.4	6.7	3	57	Ball Nose	DLC	Zirconia
ZZ3030	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
ZZ310R	1L	M1, M3, M5	2	1	17	6	3	57	Ball Nose	Uncoated	PMMA
ZZ320R	2L	M1, M3, M5	2	2	17	8	3	57	Ball Nose	Uncoated	PMMA

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	3	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
WI4010B	Zenotec Select Hybrid	2	1	14.4	5	3	40	Ball Nose	Uncoated	Zirconia
WI40250B	Zenotec Select Hybrid	2	2.5	19	8	3	40	Ball Nose	Uncoated	Zirconia
WI4010S	Zenotec Select Hybrid	1	1	14.4	5	3	40	Ball Nose	Uncoated	Zirconia
WI40250S	Zenotec Select Hybrid	1	2.5	19	8	3	40	Ball Nose	Uncoated	Zirconia
WI40070B	Zenotec Select Hybrid	2	0.7	8	2	3	40	Ball Nose	Uncoated	Zirconia/PMMA/Wax

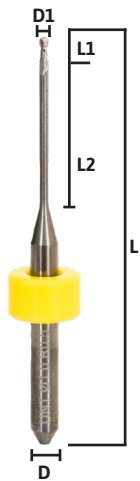


COMPATIBLE WITH:

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
R29	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	2	20	5.9	4	50	Ball Nose	CVD Diamond	Zirconia
R1S9	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	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
R15	DWX-4, DWX-42W, DWX 52d, DWX-52DCi	2	1.5	18.5	4	4	50	Flat	Uncoated	Zirconia/ PMMA/WAX



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	Uncoated	Zirconia
S17	MC X5	2	1	17	3.7	3	43	Ball Nose	Uncoated	Zirconia
S257	MC X5	4	2.5	23.1	4.8	3	44	Ball Nose	Uncoated	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
II153L	T28	CORiTEC 350i, 650i	2	1.5	17	5.2	6	48	Ball Nose	TiSiN	Titanium/ CoCr
II06C	T15	CORiTEC 350i, 650i	2	0.6	-	4.3	6	53	Ball Nose	Uncoated	Zirconia/PMMA/WAX
II06L	T32	CORiTEC 350i, 650i	2	0.6	12	2.5	6	53	Ball Nose	Uncoated	Zirconia/PMMA/WAX
II15F	T17	CORiTEC 350i, 650i	2	1.5	15	6.5	6	53	Flat	Uncoated	Zirconia/PMMA/WAX
II13L	T29	CORiTEC 350i, 650i	2	1	12.2	4.6	6	50	Ball Nose	TiSiN	Titanium/ CoCr
II153FS4	T5	CORiTEC 350i, 650i	4	1.5	12.2	4.1	6	46	Flat	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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