PARAGON

milling solutions

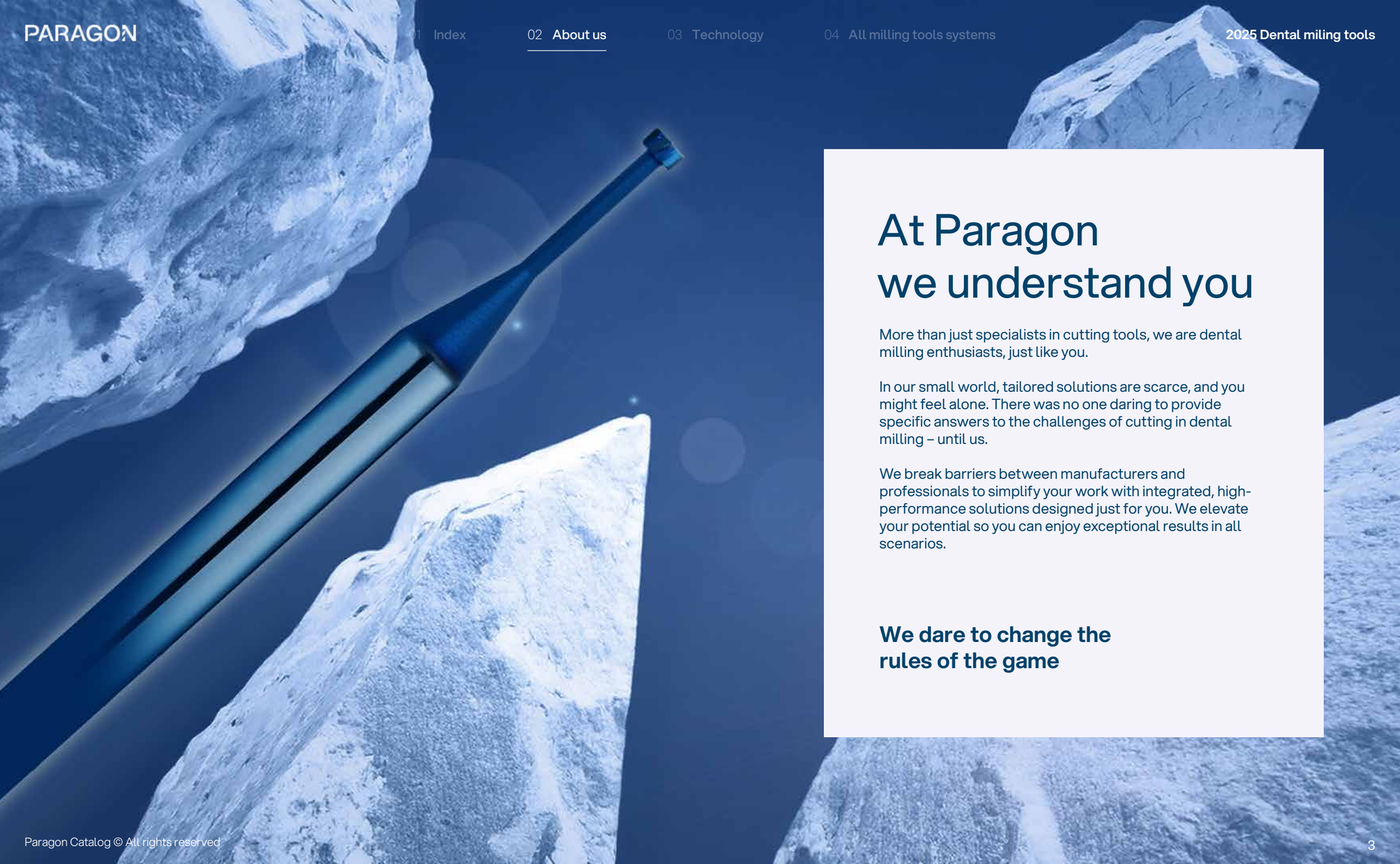
Milling and cutting solutions

2025

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At Paragon we understand you

More than just specialists in cutting tools, we are dental milling enthusiasts, just like you.

In our small world, tailored solutions are scarce, and you might feel alone. There was no one daring to provide specific answers to the challenges of cutting in dental milling – until us.

We break barriers between manufacturers and professionals to simplify your work with integrated, high-performance solutions designed just for you. We elevate your potential so you can enjoy exceptional results in all scenarios.

We dare to change the rules of the game

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Award-winning innovation, made for you

We believe innovation is key to simplifying your life. We're not afraid to take risks, test, and try again.

Patented Technology

INNOVATIVE SME



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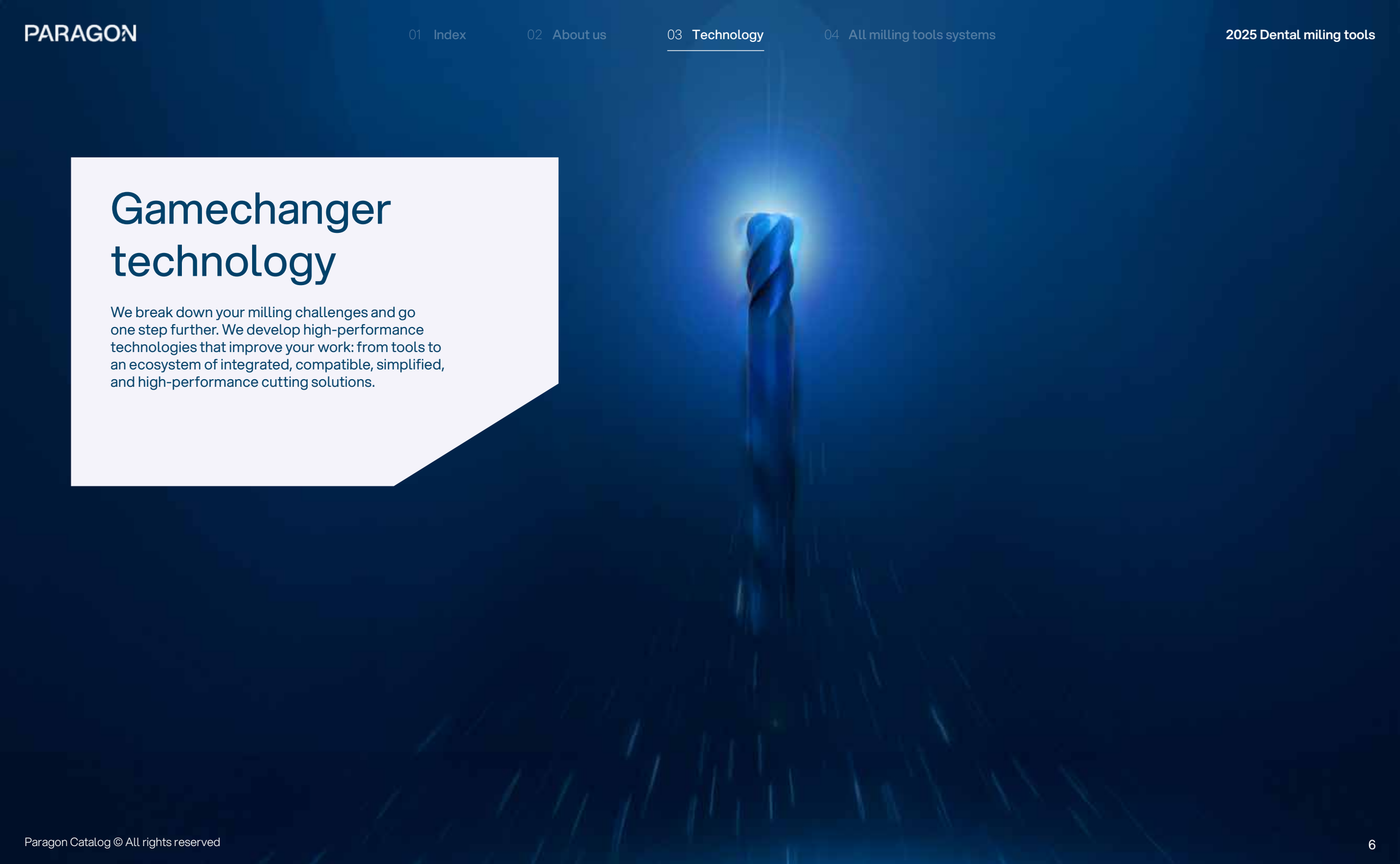


03 TECHNOLOGY

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Gamechanger technology

We break down your milling challenges and go one step further. We develop high-performance technologies that improve your work: from tools to an ecosystem of integrated, compatible, simplified, and high-performance cutting solutions.



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Precision

Paragon Tools dental burs are designed to deliver the most accurate results in milling. Ultra-fine grade WC (0.2 µm), state-of-the-art production technology, and strict dimension checks ensure precise results for longer periods.

BALL END		
Type		Tolerance
Zirconia		R ±5µm
PMMA		R ±5µm
CoCr-Ti	R < 1	R ±0,2µm
	R < R < 2	R ±0,3µm
	2 < R	R ±0,3µm

FLAT		
CoCr-Ti		R ±0,2µm



BALL END

Specifically designed for machining organic shapes, available with different coatings and shapes for optimum performance on various materials.



BULL NOSE

Designed to give the tools a long lifespan, even for high-performance roughing jobs. The TiSi+ coating enables the milling of CoCr and titanium alloys.



VARIOAXIS

The Paragon Tools T-Slots are the most advanced tools specifically designed for milling angled seatings and space for the screw in direct implant prostheses with angled channels.



FLAT

Specially designed to ensure a perfect finish on screw seatings and implant connections. The optimized geometry provides the tools with a significantly longer lifespan.



THREADING

With their reinforced cutting teeth and TiSi+ coating, Paragon threading tools are designed to achieve faster milling, with greater precision and a longer lifespan even on complex materials.

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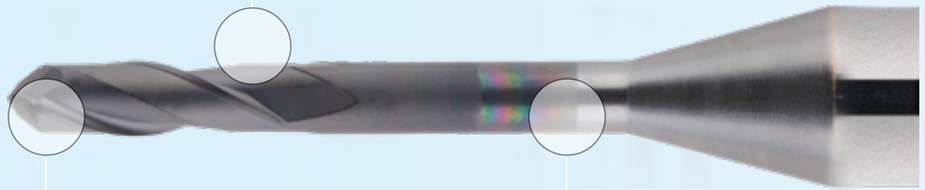
3.2 COATING TECHNOLOGIES

Nano diamond

- Achieve productivity far superior to market standards for highly abrasive materials like zirconia, carbon fiber, fiberglass, or hybrid ceramics.

COATING PROPERTIES	
Composition	C sp 3
Colour	Matte Black
Hardness	10000 HV0,05
Coeficient of friction	0,15
Thickness	15 µm
Max. temp. for use	700ºC

*Majors in mm



- Extreme surface hardness thanks to the diamond multilayer coating up to 15 microns.
- 900% longer lifespan compared to uncoated tools.

Diamond-like-Carbon (DLC)

- Delivers extraordinary results, even with complex and challenging materials like PEEK or certain polymers.

COATING PROPERTIES	
Composition	ta-C
Colour	Glossy Grey
Hardness	5300 HV0.05
Coeficient of friction	0,12
Thickness	1-2 µm
Max. temp. for use	500ºC

*Majors in mm



- Superior performance with faster machining speeds due to reduced friction from DLC.
- Exceptional surface finishing, better chip removal and reduced material heating.

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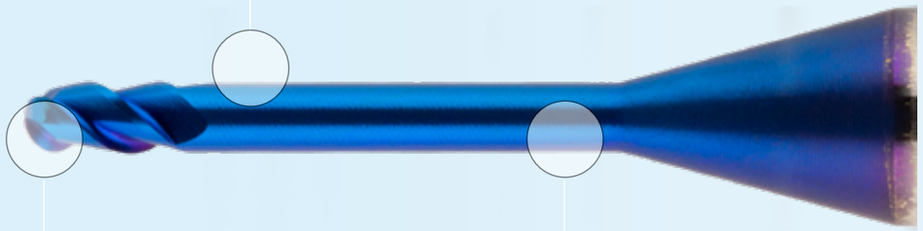
3.2 COATING TECNOLOGIES

TISI+ for CoCr and Titanium

- We simplify the complex with maximum productivity in milling CoCr and titanium.

COATING PROPERTIES	
Composition	TiAlSiN
Colour	Iridescent Blue/Green
Hardness	4000 HV0.05
Coeficient of friction	0,5
Thickness	4 µm
Max. temp. for use	1100ºC

*Majors in mm



- Extreme wear and oxidation resistance due to the development of TiSi+, a high-hardness ceramic nanocomposite formed by a silicon nitride matrix deposited with titanium and aluminum nitride.
- Facilitates the machining of complex titanium and CoCr alloys; designed for high-speed machining with or without liquid cooling.

DED

- Our optimized solution for glass ceramics.



- Longer lifespan due to its optimized grain for lithium disilicate and glass ceramics.
- Exceptional surface results thanks to its layer of synthetic diamond crystals bonded by electrodeposition.

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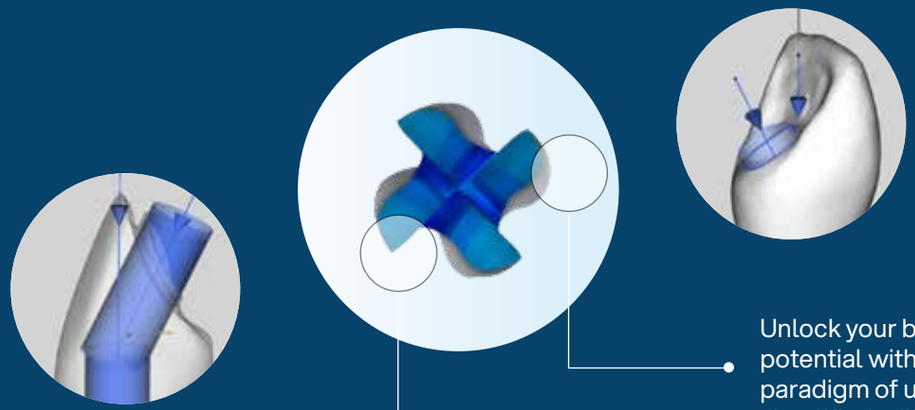
variaxis

Simplify the complex

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3.3 VARIOAXIS

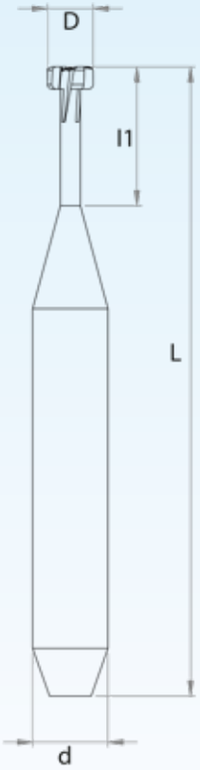
The first standardized solution for angled channels.



Unlock your business potential with the new paradigm of unlimited and simplified milling of angled channels.

With their reinforced cutting teeth and TiSi+ coating, the Varioaxis® tools are designed to achieve faster milling, greater precision, and a longer lifespan even on complex materials.

For open CAD/CAM software, compatible with almost all implant connections and with solutions even when the connection is not in the catalog.



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3.3 VARIOAXIS

+ Simple

Only 3 tools are needed for milling angled screw channels in any implant connection.

+ Practical

Implant-level CAD libraries with nominal dimensions and millable morphologies. Ready to launch to CAM software.

+ Effective

Its cutting edge radius and nanocomposite ceramic TiSi+ coating provide less wear even when milling complex alloys.



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3.3 VARIOAXIS

Varioaxis Toolset, our patented solution

Request a custom 3D simulation of your case with Varioaxis.

Discover what you can achieve with Varioaxis in a simple, cost-free, and commitment-free way. Just tell us your software, system, and description of your angular case, and an expert engineering profile will contact you to show you a 3D simulation of the result you'd achieve with Varioaxis.

Enhanced design for machining screws with both flat and conical seatings.

Recommended for titanium, CoCr, Ti, Zirconia, PMMA, PEEK, Wax.

With CAD and CAM library

- All implant interfaces are designed to be milled with a standard set of tools.
- With milling templates, connections, nominal dimensions, morphologies, and pre-adjusted screw channels ready for milling
- With preset angulations from 0 to 30 degrees in 5-degree increments
- Shoulder height and screw hole adjusted for each angulation to maintain maximum functionality and aesthetics.

With HyperDent library

- Automatic replacement of connections and flexible strategies to select, replace, and align tools automatically, even without a Varioaxis library.
- No overlapping positions with the exocad library, facilitating replacement.

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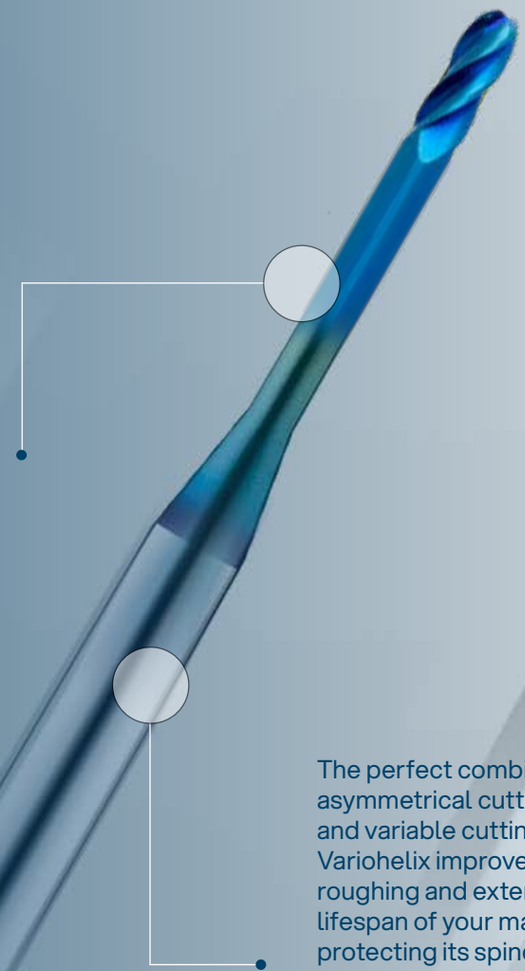
3.4 Variohelix

The toric tool design that reduces vibrations by 30%.

Dealing with **Titanium and CoCr** alloys can be challenging. Number one rule is to avoid chattering and vibration by using rígid set-ups.

Unfortunately, dental mills are far away to have the rigidity required. In addition, dental mills do not perform well when high torque at low sindle speed is required.

For that reason we have developed Variohelix technology, the first tools with variable and assimetrical helix designed for dental mills.



The perfect combination of asymmetrical cutting helix and variable cutting angles. Variohelix improves material roughing and extends the lifespan of your machine by protecting its spindle bearings.

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3.5 Coating challenges

Discover how we tackle challenges from polymers to CoCr alloys.

Compatible with over 15 systems, and counting.

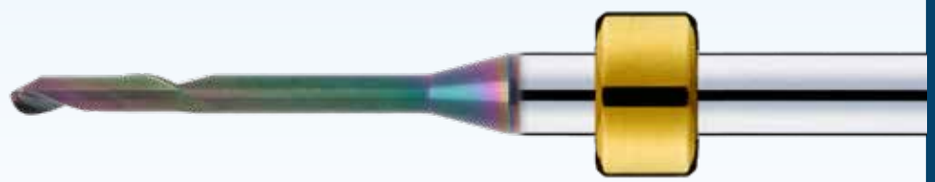
Polymers

The challenge

Avoiding melting, welding, and polymer adhesion to the tool during milling due to their heat sensitivity.

The solution

- High-efficiency frictionless coating for polymers.
- Special low-temperature design minimizes heat generated during milling thanks to its unique cutting edge and deeper grooves that better evacuate heat. No material deformation, no wear, and more durable cutting edges.
- Low-friction DLC coating technology applied to tungsten carbide burs to reduce the friction coefficient.



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3.5 COATING CHALLENGES

Zirconia

The challenge

Ensuring the longevity and aesthetics of dental prostheses with tools capable of making precise cuts resistant to the abrasion of zirconia

The solution

- Nanodiamond coating multiplies durability and wear resistance, saving you from frequent bur replacements.
- Less wear and better chip evacuation thanks to optimized cutting geometries
- Aesthetics guaranteed by the adaptable performance of our tools, with consistent surface quality at different spindle speeds.



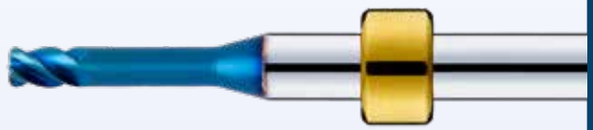
Cobalt Chrome dental alloy milling

The challenge

Avoiding tool wear and vibrations caused by the heat generated at the cutting edge.

The solution

- The TiSi+ coating multiplies the tool's lifespan and ensures superior performance at high temperatures by controlling thermal stability and reducing chemical reactivity.
- Variohelix design reduces vibrations by 30% and increases the spindle's lifespan.
- Precision cutting geometries designed for smooth milling with less physical stress on the tool.



Titanium alloy

The challenge

Combating surface damage during milling and excessive tool wear caused by titanium's challenging machinability and the heat generated during machining.

The solution

- Variohelix design to break harmonics, reduce lateral forces and vibrations, with elevated helix angles that facilitate roughing to ensure finishes and extend tool life.
- Improved stability with fewer vibrations and harmonics to ensure precision throughout the milling process.
- TiSi+ coating with greater stability at high temperatures.



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04 ALL MILLING TOOLS SYSTEMS

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00 INTRODUCTION

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life.



Uses:
PMMA, PEEK, Wax, Nanocomposite.

Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.



Uses:
Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



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00 INTRODUCTION

FLAT MULTIPURPOSE

Versatile tool with reinforced flank and high helix angle for maximum productivity.



Uses:
CoCr, Titanium, Zirconia, PMMA, PEEK.

GLASS CERAMICS

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion.



Uses:
Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



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11 VHF Pag. 66
12 UPCera Pag. 71
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01 BY SYSTEM **VARIOAXIS**

ROLAND & OPEN SYSTEMS

IMES ICORE

YENADENT

VHF

DENTAL MACHINE

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Roland & Open systems



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAN616	6	Varioaxis	TiSi+	Open systems
VAN618	6	Varioaxis	TiSi+	Open systems
VAN620	6	Varioaxis	TiSi+	Open systems
VAN416	4	Varioaxis	TiSi+	Open systems
VAN418	4	Varioaxis	TiSi+	Open systems
VAN420	4	Varioaxis	TiSi+	Open systems
VAN316	3	Varioaxis	TiSi+	Open systems
VAN318	3	Varioaxis	TiSi+	Open systems
VAN320	3	Varioaxis	TiSi+	Open systems



Imes Icore



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAI616	6	Varioaxis	TiSi+	Imes Icore
VAI618	6	Varioaxis	TiSi+	Imes Icore
VAI620	6	Varioaxis	TiSi+	Imes Icore
VAI316	3	Varioaxis	TiSi+	Imes Icore
VAI318	3	Varioaxis	TiSi+	Imes Icore
VAI320	3	Varioaxis	TiSi+	Imes Icore

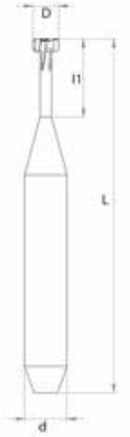
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*Majors in mm

Yenadent



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAY416	4	Varioaxis	TiSi+	Yenadent
VAY418	4	Varioaxis	TiSi+	Yenadent
VAY420	4	Varioaxis	TiSi+	Yenadent



VHF



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAV316	3	Varioaxis	TiSi+	VHF
VAV318	3	Varioaxis	TiSi+	VHF
VAV320	3	Varioaxis	TiSi+	VHF

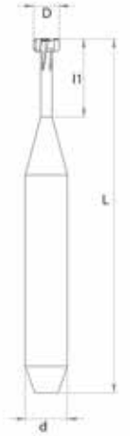
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*Majors in mm

Dental Machine



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAD416	4	Varioaxis	TiSi+	Dental Machine
VAD418	4	Varioaxis	TiSi+	Dental Machine
VAD420	4	Varioaxis	TiSi+	Dental Machine
VAD316	3	Varioaxis	TiSi+	Dental Machine
VAD318	3	Varioaxis	TiSi+	Dental Machine
VAD320	3	Varioaxis	TiSi+	Dental Machine



Redon



REFERENCE	SHANK	GEOMETRY	COATING	SYSTEM
VAR416	4	Varioaxis	TiSi+	Redon
VAR418	4	Varioaxis	TiSi+	Redon
VAR420	4	Varioaxis	TiSi+	Redon

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*Majors in mm

02 BY SYSTEM **AMANN GIRRBACH**

SHANK 03
CERAMILL MATIC, MOTION

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02 AMANN GIRRBACH

CERAMILL MATIC, MOTION

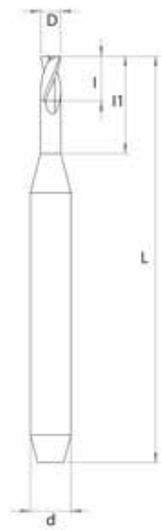
SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C347-2AB0612	DLC	Ball End	3	0,6	12	47
C347-2AB1017	DLC	Ball End	3	1	17	47
C347-2AB2517	DLC	Ball End	3	2,5	17	47

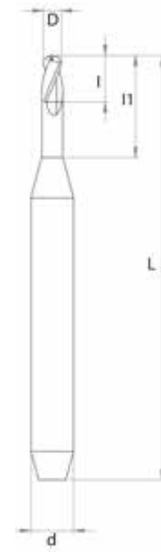


Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
D347-2AB03TA	Nano Diamond	Tapered	3	0,3		47
D347-2AB0612	Nano Diamond	Ball End	3	0,6	12	47
D347-2AB1017	Nano Diamond	Ball End	3	1	17	47
D347-2AB2517	Nano Diamond	Ball End	3	2,5	17	47
C347-2AF0610	DLC	Flat	3	0.6	10	47
C347-3AF1212	DLC	Flat	3	1.2	12	47



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*Majors in mm

03 BY SYSTEM **ARUM**

SHANK 04
5X-400; 5X-300D, 5X-300PRO

SHANK 06
5X-500, 5X-450, 4X-450; 5X-200

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PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



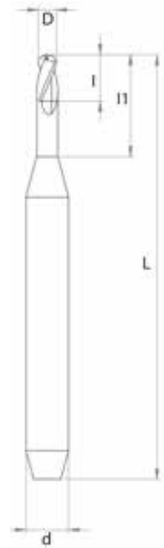
REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C444-2UB1010	DLC	Ball End	4	1	10		44
C447-2UB1514	DLC	Ball End	4	1.5	14		47
C450-2UB2018	DLC	Ball End	4	2	18		45

Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D450-2UB0610	Nano Diamond	Ball End	4	0.6	10		45
D450-2UB1016	Nano Diamond	Ball End	4	1	16		50
D450-2UB2018	Nano Diamond	Ball End	4	2	18		50
D450-2UB2020	Nano Diamond	Ball End	4	2	20		50



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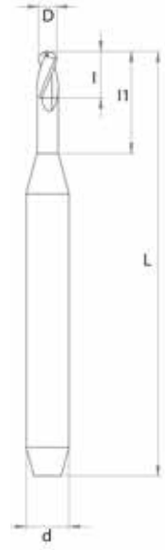
*Majors in mm

Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.
Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D663-2UB0613	Nano Diamond	Ball End	6	0.6	13		45
D663-2UB0502	Nano Diamond	Ball End	6	0.5	2		50
D663-2UB1016	Nano Diamond	Ball End	6	1	16		50
D663-2UB2020	Nano Diamond	Ball End	6	2	20		50



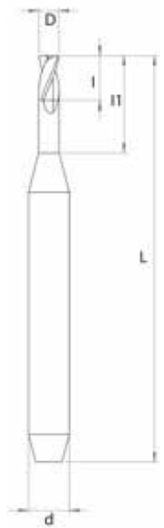
Ti, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life.
Uses: Titanium alloys, CoCr.





REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T650-2UB0603	TiSi+	Ball End	6	0.6	3		50
T650-2UB1010	TiSi+	Ball End	6	1	10		50
T650-2UB1510	TiSi+	Ball End	6	1.5	10		50
T650-2UB2012	TiSi+	Ball End	6	2	12		50
T650-2UB3012	TiSi+	Ball End	6	3	12		50
T650-2UT101505	TiSi+	Bull Nose	6	1.5	5	0.1	50
T650-2UT101514	TiSi+	Bull Nose	6	1.5	14	0.1	50
T650-2UF0603	TiSi+	Flat	6	0.6	3		50
T650-2UF1507	TiSi+	Flat	6	1.5	7		50
T650-2UF2018	TiSi+	Flat	6	2	18		50



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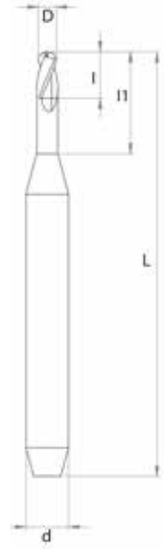
*Majors in mm

Glass ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
G663-0UB0608	DED	Ball End	6	0.6	8	63
G663-0UB1010	DED	Ball End	6	1	10	63
G663-0UB1512	DED	Ball End	6	1.5	12	63
G663-0UB2510	DED	Ball End	6	2.5	10	63



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*Majors in mm

04 BY SYSTEM **DENTAL MACHINE**

SHANK 04
G5, VECTOR, C6

SHANK 03
AXYLAB

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PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C450-1DB0606	DLC	Ball End	4	0,6	6		50
C450-1DB1016	DLC	Ball End	4	1	16		50
C450-1DB2020	DLC	Ball End	4	2	20		50
C450-2DB0605	DLC	Ball End	4	0.6	5		50
C455-2DB1014	DLC	Ball End	4	1	16		55
C455-2DB2020	DLC	Ball End	4	2	20		55



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D445-2DB0606	Nano Diamond	Ball End	4	0,6	6		45
D450-2DB1016	Nano Diamond	Ball End	4	1	16		50
D450-2DB2020	Nano Diamond	Ball End	4	2	20		50

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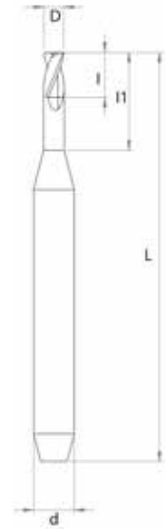
*Majors in mm

Ti, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T450-3DB1008	TiSi+	Ball End	4	1	8		50
T450-3DB2012	TiSi+	Ball End	4	2	12		50
T450-4DT201512	TiSi+	Bull Nose	4	1.5	12	0.2	50
T450-4DT502516	TiSi+	Bull Nose	4	2.5	16	0.5	50
T440-3DF0503	TiSi+	Flat	4	0.5	3		40
T450-3DF1520	TiSi+	Flat	4	1.5	20		50
T440-3DF2006	TiSi+	Flat	4	2	6		40

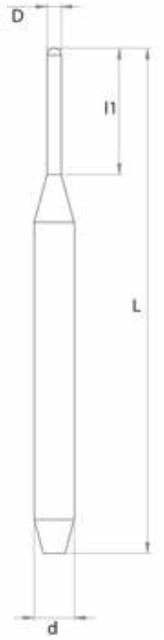


Glass ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G445-0DB05TA	DED	Tapered	4	0.5	Tapered		45
G445-0DB1010	DED	Ball End	4	1	10		45
G445-0DB2515	DED	Ball End	4	2.5	15		45



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*Majors in mm

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials.
Uses: Metric threading on Titanium alloys and other materials.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T445-3DM14	TiSi+	Threading	4	1,05	4,5		45
T445-3DM16	TiSi+	Threading	4	1,2	5		45
T445-3DM20	TiSi+	Threading	4	1,5	6		45

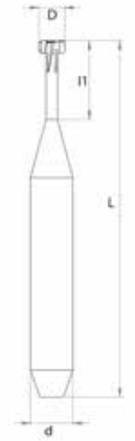


Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAD416	TiSi+	Varioaxis	4	1.65	8		45
VAD418	TiSi+	Varioaxis	4	1.85	8.5		45
VAD420	TiSi+	Varioaxis	4	2.05	9.5		45



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*Majors in mm

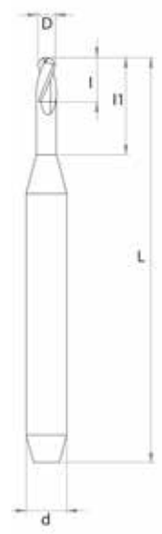
AXYLAB SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C348-1DB0607	DLC	Ball End	3	0,6	4		48
C348-1DB1016	DLC	Ball End	3	1	16		48
C348-1DB2020	DLC	Ball End	3	2	20		48



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.
Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D348-2DB0607	Nano Diamond	Ball End	3	0,6	7		48
D348-2DB1016	Nano Diamond	Ball End	3	1	16		48
D348-2DB2520	Nano Diamond	Ball End	3	2,5	20		48

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*Majors in mm

04 DENTAL MACHINE

AXYLAB SHANK 03

Glass ceramic

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G340-0DB05TA	DED	Tapered	3	0.5	Tapered		40
G340-0DB1010	DED	Ball End	3	1	10		40
G340-0DB2515	DED	Ball End	3	2.5	15		40



Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.

REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAD316	TiSi+	Varioaxis	3	1.65	8		45
VAD318	TiSi+	Varioaxis	3	1.85	8.5		45
VAD320	TiSi+	Varioaxis	3	2.05	9.5		45



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*Majors in mm

05 BY SYSTEM **IMES ICORE**

SHANK 03
ONE, 140I, 150I, 250I

SHANK 06
350I, 350PRO, 350PRO+, 450I, 650I

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PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C348-2IB06TA	DLC	Ball End	3	0.6	tapered		48
C348-1IB1016	DLC	Ball End	3	1	16		48
C348-1IB2520	DLC	Ball End	3	2,5	20		48



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D350-2IB03TA	Nano Diamond	Ball End	3	0.3	tapered		47
C348-2IB06TA	DLC	Ball End	3	0.6	tapered		48
D348-2IB1016	Nano Diamond	Ball End	3	1	16		48
D348-2IB2520	Nano Diamond	Ball End	3	2,5	20		48

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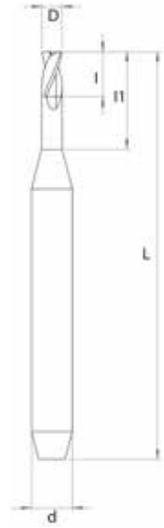
*Majors in mm

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C350-2IF0504	DLC	Flat	3	0.5	4		50
C350-2IF1515	DLC	Flat	3	1.5	15		50



Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G340-0IB05TA	DED	Ball End	3	0,6	tapered		40
G340-0IB1010	DED	Ball End	3	1,0	10		40
G340-0IB2515	DED	Ball End	3	2,5	15		40



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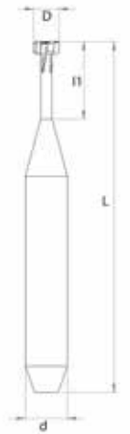
*Majors in mm

Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAI316	TiSi+	Varioaxis	3	1,65	8		45
VAI318	TiSi+	Varioaxis	3	1,85	8,5		45
VAI320	TiSi+	Varioaxis	3	2,05	9,5		45



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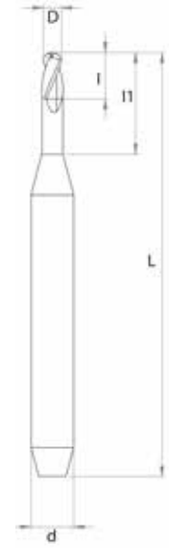
*Majors in mm

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C653-1IB0607	DLC	Ball End	6	0,6	7		53
C653-1IB1016	DLC	Ball End	6	1	16		53
C653-1IB2520	DLC	Ball End	6	2,5	20		53
C653-2IB06TA	DLC	Ball End	6	0.6	tapered		53
C653-2IB1016	DLC	Ball End	6	1	16		53
C653-2IB2515	DLC	Ball End	6	2.5	20		53



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C650-2IB03TA	DLC	Ball End	6	0.3	tapered		50
C653-2IB06TA	DLC	Ball End	6	0.6	tapered		53
D650-2IB0612	Nano Diamond	Ball End	6	0.6	12		53
D653-2IB1016	Nano Diamond	Ball End	6	1	16		53
D653-2IB2020	Nano Diamond	Ball End	6	2	20		53
D653-2IB2520	Nano Diamond	Ball End	6	2,5	20		53

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*Majors in mm

05 IMES ICORE

350I, 350PRO, 350PRO+, 450I, 650I

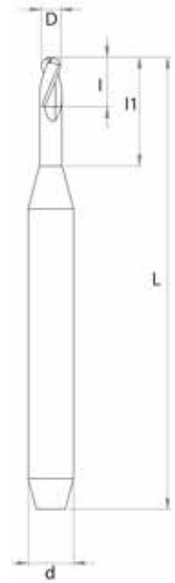
SHANK 06

Ti, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life.
Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T650-2IB0504	TiSi+	Ball End	6	0,5	4		50
T645-2IB06TA	TiSi+	Ball End	6	0,6	tapered		45
T650-3IB1010	TiSi+	Ball End	6	1	10		50
T650-3IB1012	TiSi+	Ball End	6	1	12		50
T650-3IB1512	TiSi+	Ball End	6	1,5	12		50
T650-3IB1516	TiSi+	Ball End	6	1,5	16		50
T650-3IB2012	TiSi+	Ball End	6	2	12		50
T650-3IB2016	TiSi+	Ball End	6	2	16		50
T650-3IB3016	TiSi+	Ball End	6	3	16		50
T650-3IB3020	TiSi+	Ball End	6	3	20		50
T650-2IT201008	TiSi+	Bull Nose	6	1	8	0,2	50
T650-2IT081508	TiSi+	Bull Nose	6	1,5	8	0,08	50
T650-4IT201512	TiSi+	Bull Nose	6	1,5	12	0,2	50
T650-2IT081516	TiSi+	Bull Nose	6	1,5	16	0,08	50
T650-4IT201516	TiSi+	Bull Nose	6	1,5	16	0,2	50
T650-4IT202016	TiSi+	Bull Nose	6	1,5	16	0,2	50
T645-4IT993015	TiSi+	Bull Nose	6	3	15	1	45
T650-2IF0504	TiSi+	Flat	6	0,5	4		50
T650-3IF1508	TiSi+	Flat	6	1,5	8		50



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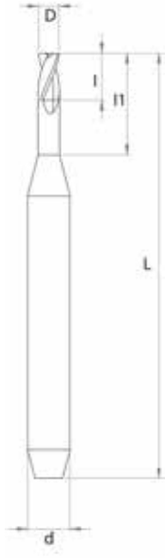
***Majors in mm**

Ti,CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T650-4IF1512	TiSi+	Flat	6	1,5	12		50
T650-3IF1516	TiSi+	Flat	6	1,5	16		50
T650-4IF1516	TiSi+	Flat	6	1,5	16		50
T650-4IF2010	TiSi+	Flat	6	2	10		50

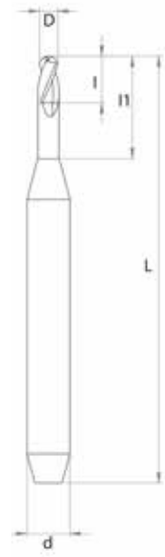


Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G640-0IB0606	DED	Ball End	6	0,6	6		40
G640-0IB1010	DED	Ball End	6	1	10		40
G640-0IB2515	DED	Ball End	6	2,5	15		40



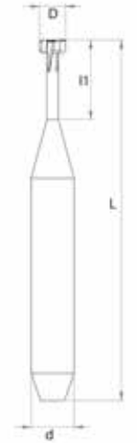
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*Majors in mm

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials.
Uses: Metric threading on Titanium alloys and other materials.

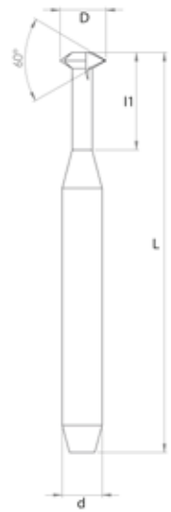
REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T645-3IM14	TiSi+	Threading	6	1,05	4,5		45
T645-3IM16	TiSi+	Threading	6	1,2	5		45
T645-3IM20	TiSi+	Threading	6	1,5	6		45



Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.

REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAI616	TiSi+	Varioaxis	6	1,65	8		40
VAI618	TiSi+	Varioaxis	6	1,85	8,5		40
VAI620	TiSi+	Varioaxis	6	2,05	9,5		40



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*Majors in mm

06 BY SYSTEM **IVOCLAR-WIELAND**

SHANK 03
ZENOTEC SELECT

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06 IVOCLAR-WIELAND

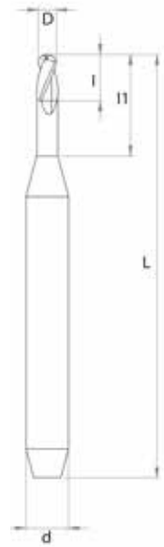
ZENOTEC SELECT SHANK 03

Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D340-2WB0707	Nano Diamond	Ball End	3	0,7	7		40
D340-2WB1017	Nano Diamond	Ball End	3	1	17		40
D340-2WB2520	Nano Diamond	Ball End	3	2	20		40



PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C340-2WB0707	DED	Ball End	3	0,7	7		40
C340-2WB1017	DED	Ball End	3	1	17		40
C340-2WB2520	DED	Ball End	3	2	20		40

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*Majors in mm

07 BY SYSTEM **ROLAND**

SHANK 04
5 AXIS DRY MILLING
DWX-50, DWX-51D, DWX-52D, DWX-52DI, DWX-52DC, DWX-52DCI, DWX-53D; DWX-53DC

SHANK 03
4 AXIS WET MILLING
DWX-4W, DWX-42W, DWX-43W

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DWX-50, DWX-51D, DWX-52D, DWX-52DI, DWX-52DC, DWX-52DCI, DWX-53D; DWX-53DC

SHANK 04 - 5 AXIS DRY MILLING

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



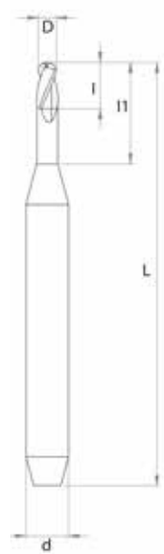
REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C450-1NB0606	DLC	Ball End	4	0.6	6		50
C450-1NB0614	DLC	Ball End	4	0.6	14		50
C450-1NB1016	DLC	Ball End	4	1	16		50
C450-1NB2020	DLC	Ball End	4	2	20		50
C450-2NB0610	DLC	Ball End	4	0.6	10		50
C450-2NB1016	DLC	Ball End	4	1	16		50
C450-2NB2020	DLC	Ball End	4	2	20		50
C450-3NF3020	DLC	Flat	4	3	20		50

Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.
Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T440-2NB0304	TiSi+	Ball End	4	0.3	4		40
D445-2NB0610	Nano Diamond	Ball End	4	0.6	10		45
D450-3NB1012	Nano Diamond	Ball End	4	1	16		50
D450-2NB1016	Nano Diamond	Ball End	4	1	16		50
D450-2NB2020	Nano Diamond	Ball End	4	2	20		50
D450-3NB2020	Nano Diamond	Ball End	4	2	20		50



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*Majors in mm

DWX-50, DWX-51D, DWX-52D, DWX-52DI, DWX-52DC, DWX-52DCI, DWX-53D; DWX-53DC

SHANK 04 - 5 AXIS DRY MILLING

Titanium & CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D445-2NB0608	Nano Diamond	Ball End	4	0.6	8		45
D450-2NB1010	Nano Diamond	Ball End	4	1	10		50
D450-2NB2016	Nano Diamond	Ball End	4	2	12		50

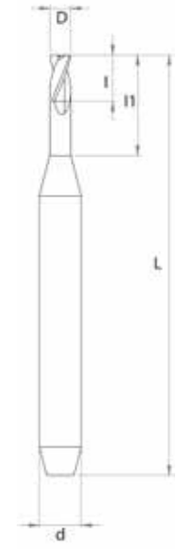


Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T440-3NF0503	TiSi+	Flat	4	0.5	3		40
T445-2NF0610	TiSi+	Flat	4	0.6	10		45
T450-3NF1020	TiSi+	Flat	4	1	20		50
T450-3NF1520	TiSi+	Flat	4	1.5	20		50
T450-3NF2020	TiSi+	Flat	4	2	20		50
T450-3NF4050	TiSi+	Flat	4	4	50		50



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*Majors in mm

DWX-50, DWX-51D, DWX-52D, DWX-52DI, DWX-52DC, DWX-52DCI, DWX-53D; DWX-53DC

SHANK 04 - 5 AXIS DRY MILLING

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials.
Uses: Metric threading on Titanium alloys and other materials.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T445-3NM14	TiSi+	Threading	4	1.05	4,5		45
T445-3NM16	TiSi+	Threading	4	1.2	5		45
T445-3NM20	TiSi+	Threading	4	1.5	6		45

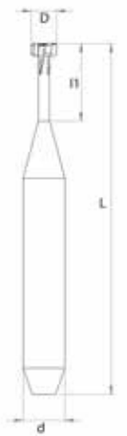


Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAN316	TiSi+	Varioaxis	3	1.65			45
VAN318	TiSi+	Varioaxis	3	1.85			45
VAN320	TiSi+	Varioaxis	3	2.05			45



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*Majors in mm

DWX-4W, DWX-42W, DWX-43W

SHANK 03 - 4 AXIS DRY MILLING

Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G340-0NB05TA	DED	Grinding Ball End	3	0.5	4		40
G340-0NB1010	DED	Grinding Ball End	3	1	10		40
G340-0NB1511	DED	Grinding Ball End	3	1.5	11		40
G340-0NB2515	DED	Grinding Ball End	3	2.5	15		40



*Majors in mm

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08 BY SYSTEM **REDON**

SHANK 04
BEST MILL, HYBRID, ONE, GTR

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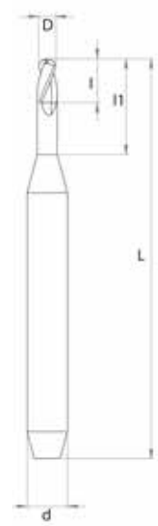
GTR, HYBRID SHANK 04

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C445-2RB2016	DLC	Ball End	4	2,0	16		45
C445-2RB1016	DLC	Ball End	4	1,0	16		45
C445-2RB0610	DLC	Ball End	4	0,6	10		45



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D445-2RB0610	Nano Diamond	Ball End	4	0,6	10		45
D445-2RB1016	Nano Diamond	Ball End	4	1,0	16		45
D445-2RB2016	Nano Diamond	Ball End	4	2,0	16		45

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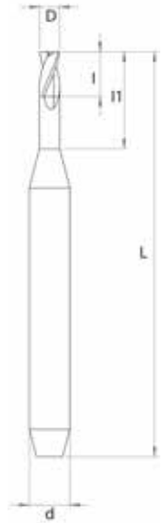
*Majors in mm

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T445-3RF1408	TiSi+	Flat	4	1,4	8		45



Titanium & CoC

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T440-2RB0604	TiSi+	Ball End	4	0,6	6		45
T440-3RB1008	TiSi+	Ball End	4	1,0	8		45
T440-3RB1512	TiSi+	Ball End	4	1,5	12		45
T440-3RB2008	TiSi+	Ball End	4	2,0	8		45
T440-3RB2012	TiSi+	Ball End	4	2,0	12		45
T440-3RB3012	TiSi+	Ball End	4	3,0	12		45
T440-2RT201008	TiSi+	Bull Nose	4	1	8	0.2	45
T440-2RT201506	TiSi+	Bull Nose	4	1,5	6	0.2	45
T440-4RT201512	TiSi+	Bull Nose	4	1,5	12	0.2	45
T440-4RT201516	TiSi+	Bull Nose	4	1,5	16	0.2	45
T440-4RT502512	TiSi+	Bull Nose	4	2,5	12	0.5	45
T440-3RF0503	TiSi+	Flat	4	0,5	3		45
T440-3RF1010	TiSi+	Flat	4	1	10		45
T440-3RF1506	TiSi+	Flat	4	1,5	6		45
T440-3RF1516	TiSi+	Flat	4	1,5	16		45



*Majors in mm

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Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G445-0RB0606	DED	Ball End	4	0,6	6		45
G445-0RB1010	DED	Ball End	4	1	10		45
G445-0RB1508	DED	Ball End	4	1,5	8		45
G445-0RB2515	DED	Ball End	4	2,5	15		45

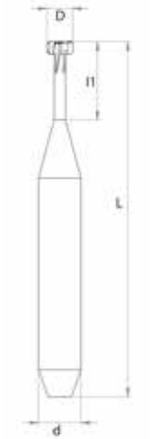


Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAR416	TiSi+	Varioaxis	4	1,65			45
VAR418	TiSi+	Varioaxis	4	1,85			45
VAR420	TiSi+	Varioaxis	4	2,05			45



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***Majors in mm**

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials. Uses: Metric threading on Titanium alloys and other materials.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T445-3RM14	TiSi+	Threading	4	M1.4	4,5		45
T445-3RM16	TiSi+	Threading	4	M1.6-M1.8	5		45
T445-3RM20	TiSi+	Threading	4	M2	6		45

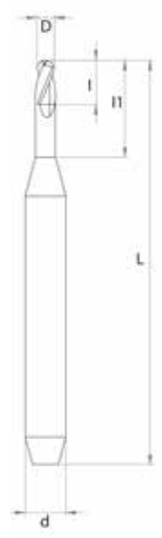


PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C445-2RB2016R	DLC	Ball End	4	2,0	16		45
C445-2RB1016R	DLC	Ball End	4	1,0	16		45
C445-2RB0610R	DLC	Ball End	4	0,6	10		45



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D445-2RB0610R	Nano Diamond	Ball End	4	0,6	10		45
D445-2RB1016R	Nano Diamond	Ball End	4	1,0	16		45
D445-2RB2016R	Nano Diamond	Ball End	4	2,0	16		45

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***Majors in mm**

Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G445-0RB0606R	DED	Ball End	4	0,6	6		45
G445-0RB1010R	DED	Ball End	4	1	10		45
G445-0RB1508R	DED	Ball End	4	1,5	8		45
G445-0RB2515R	DED	Ball End	4	2,5	15		45



Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAR416R	TiSi+	Varioaxis	4	1,65			45
VAR418R	TiSi+	Varioaxis	4	1,85			45
VAR420R	TiSi+	Varioaxis	4	2,05			45



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***Majors in mm**

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials. Uses: Metric threading on Titanium alloys and other materials.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T445-3RM14R	TiSi+	Threading	4	M1.4	4,5		45
T445-3RM16R	TiSi+	Threading	4	M1.6-M1.8	5		45
T445-3RM20R	TiSi+	Threading	4	M2	6		45



09 BY SYSTEM **SIRONA**

SHANK 03
INLAB MC 5X

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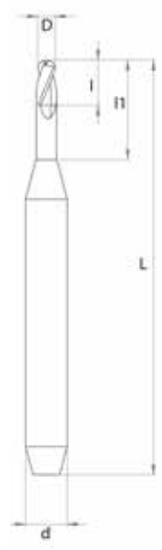
INLAB MC 5X SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C342-2SB0505	DLC	Ball end	3	0,5	5		42
C343-2SB1017	DLC	Ball end	3	1	17		43
C344-2SB2524	DLC	Ball end	3	2,5	24		44



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D342-2SB0505	Nano Diamond	Esférica	3	0,5	5		42
D343-2SB1017	Nano Diamond	Esférica	3	1	17		43
D344-4SB2524	Nano Diamond	Esférica	3	2,5	24		44

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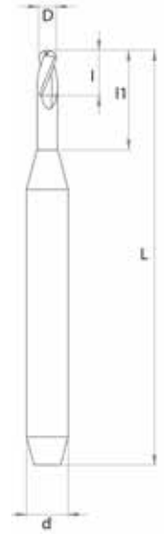
*Majors in mm

Titanium-CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T338-3SB1008	TiSi+	Ball end	3	1	8		38
T339-3SB2012	TiSi+	Ball end	3	2	12		39



10 BY SYSTEM **UP3D - AIDITE**

SHANK 04
5 AXIS DRY MILLING
UP3D: P42, P53, P53DC, P55D
AIDITE: AMD500E, CMM-600

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UP3D: P42, P53, P53DC, P55D. AIDITE: AMD500E, CMM-600

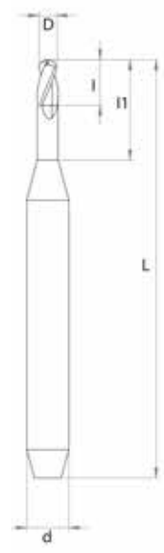
5 AXIS DRY MILLING SHANK 04

PMMA - PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C450-2PB0610	DLC	Ball End	4	0.6	10		50
C450-1PB1016	DLC	Ball End	4	1	16		50
C450-1PB2020	DLC	Ball End	4	2	20		50



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T440-2PB0304	TiSi+	Ball End	4	0.3	4		50
D450-2PB0610	Nano Diamond	Ball End	4	0.6	10		50
D450-2PB1016	Nano Diamond	Ball End	4	1	16		50
D450-2PB1020	Nano Diamond	Ball End	4	1	16		50
D450-2PB2020	Nano Diamond	Ball End	4	2	20		50

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*Majors in mm

10 UP3D - AIDITE

UP3D: P42, P53, P53DC, P55D. AIDITE: AMD500E, CMM-600

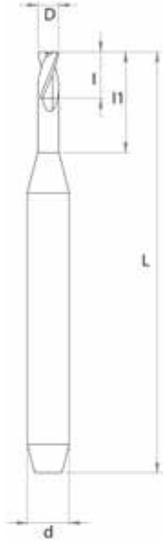
5 AXIS DRY MILLING SHANK 04

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T450-2PF1020	TiSi+	Flat	4	1	20		50
T450-3PF1520	TiSi+	Flat	4	1.5	20		50
D450-4PF1520	Nano Diamond	Flat	4	1.5	20		50



Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G450-0PB0606	DED	Ball End	4	0.6	6		50
G450-0PB1010	DED	Ball End	4	1	10		50
G450-0PB2515	DED	Ball End	4	2.5	15		50



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*Majors in mm

11 BY SYSTEM **VHF**

SHANK 03
4 AXIS
E4, N4, Z4

SHANK 03
5 AXIS
E5, K5, S5, R5

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E4, N4, Z4 4 AXIS SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C335-2VB1016	DLC	Ball End	3	1	16		35
C335-2VB2017	DLC	Ball End	3	2	17		35



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.
Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D340-2VB1017	Nano Diamond	Ball End	3	1	17		35
D335-3VB2017	Nano Diamond	Ball End	3	2	17		35

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***Majors in mm**

11 VHF

E4, N4, Z4

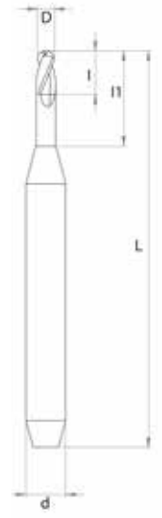
5 AXIS SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C340-2VB0603	DLC	Ball End	3	0,6	3		40
C340-2VB1016	DLC	Ball End	3	1	16		40
C340-2VB2017	DLC	Ball End	3	2	17		40
C340-1VF2516	DLC	Flat	3	2,5	16		40



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D340-2VB0603	Nano Diamond	Ball End	3	0,6	3		40
D340-2VB1017	Nano Diamond	Ball End	3	1	17		40
D340-3VB2017	Nano Diamond	Ball End	3	2	17		40

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*Majors in mm

11 VHF

E4, N4, Z4

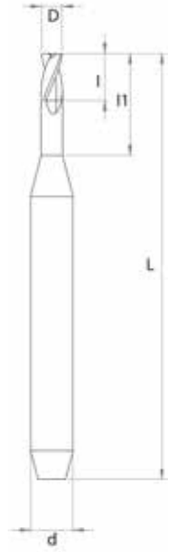
4 AXIS SHANK 03

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T340-3VF0503	TiSi+	Flat	3	0,5	3		40
D340-2VF1216	Nano Diamond	Flat	3	1,2	16		40

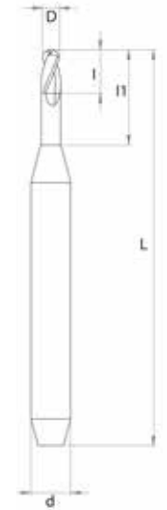


Titanium-CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T335-2VB0601	TiSi+	Ball End	3	0,6	1		35
T335-2VB1008	TiSi+	Ball End	3	1	8		35
T335-4VB2012	TiSi+	Ball End	3	2	12		35
T335-2VT101208	TiSi+	Bull Nose	3	1,2	8	0.1	35



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*Majors in mm

E4, N4, Z4

5 AXIS SHANK 03

Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G335-0VB06TA	DED	Ball End	3	0,6	Tapered		35
G335-0VB1008	DED	Ball End	3	1	8		35
G335-0VB2417	DED	Ball End	3	2,4	17		35



Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAV316	TiSi+	Varioaxis	3	1,65			45
VAV318	TiSi+	Varioaxis	3	1,85			45
VAV320	TiSi+	Varioaxis	3	2,05			45



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***Majors in mm**

12 BY SYSTEM **UPCERA**

SHANK 03
C41, A51

SHANK 04
A52, A52W

COMING SOON

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12 UPCERA

C41, A51

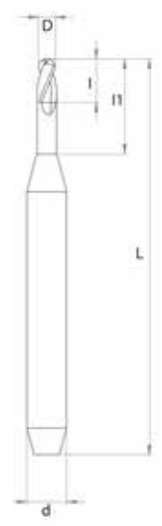
SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C340-2QB0603	DLC	Ball End	3	0,6	3		40
C340-2QB1016	DLC	Ball End	3	1	16		40
C340-2QB2017	DLC	Ball End	3	2	17		40
C340-1QF2516	DLC	Flat	3	2,5	16		40



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D340-2QB0603	Nano Diamond	Ball End	3	0,6	3		40
D340-2QB1017	Nano Diamond	Ball End	3	1	17		40
D340-3QB2017	Nano Diamond	Ball End	3	2	17		40

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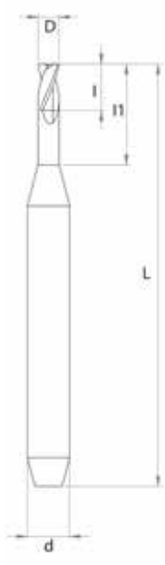
*Majors in mm

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T340-3QF0503	TiSi+	Flat	3	0,5	3		40
D340-2QF1216	Nano Diamond	Flat	3	1,2	16		40

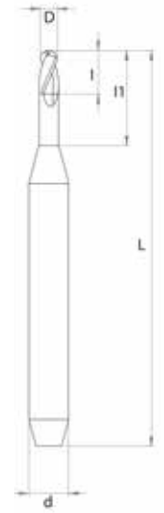


Titanium-CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T335-2QB0601	TiSi+	Ball End	3	0,6	1		35
T335-2QB1008	TiSi+	Ball End	3	1	8		35
T335-4QB2012	TiSi+	Ball End	3	2	12		35
T335-2QT101208	TiSi+	Bull Nose	3	1,2	8	0.1	35



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*Majors in mm

12 UPCERA

C41, A51 SHANK 03

Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
G335-0QB06TA	DED	Ball End	3	0.6	Tapered		35
G335-0QB1010	DED	Ball End	3	1	10		35
G335-0QB2417	DED	Ball End	3	2.4	17		35

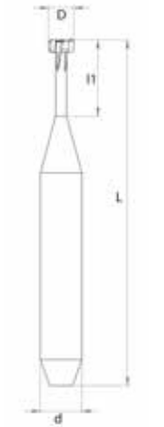


Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAQ316	TiSi+	Varioaxis	3	1,65			45
VAQ318	TiSi+	Varioaxis	3	1,85			45
VAQ320	TiSi+	Varioaxis	3	2,05			45



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*Majors in mm

13 BY SYSTEM **XTCERA**

SHANK 04
5 AXIS DRY MILLING
D5, 500SE, 600SE2, 300, 500PRO, 500PLUS

SHANK 06
5 AXIS DRY MILLING
630, 630SE

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13 XTCERA

D5, 500SE, 600SE2, 300, 500PRO, 500PLUS

5 AXIS - SHANK 04

PMMA - PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
C450-1XB1016	DLC	Ball End	4	1	16		50
C450-1XB2020	DLC	Ball End	4	2	20		50
C450-2XB0610	DLC	Ball End	4	0.6	10		50



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T440-2XB0304	TiSi+	Ball End	4	0.3	4		40
D445-2XB0610	Nano Diamond	Ball End	4	0.6	10		45
D450-2XB1016	Nano Diamond	Ball End	4	1	16		50
D450-2XB2020	Nano Diamond	Ball End	4	2	20		50

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*Majors in mm

13 XTCERA

630, 630SE

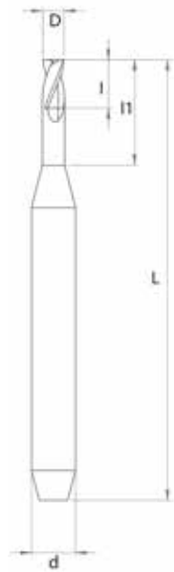
5 AXIS DRY MILLING - SHANK 06

Flat Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T450-3XF1020	TiSi+	Flat	4	1	20		50
T450-3XF1520	TiSi+	Flat	4	1.5	20		50



14 BY SYSTEM **YENADENT**

SHANK 04
D14, D15, D15W,
DC40, D43, D6

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SHANK 04

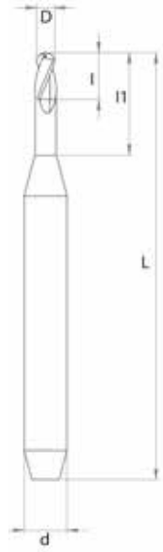
D14, D15, D15W, DC40, D43, D6

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C450-1YB0606	DLC	Ball End	4	0,6	6	45
C450-1YB0614	DLC	Ball End	4	0,6	14	45
C450-1YB1016	DLC	Ball End	4	1	16	45
C450-1YB2020	DLC	Ball End	4	2	20	45



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
D450-2YB0606	Nano Diamond	Ball End	4	0,6	6	50
D450-2YB0610	Nano Diamond	Ball End	4	0,6	10	50
D450-2YB1016	Nano Diamond	Ball End	4	1	16	50
D450-2YB2020	Nano Diamond	Ball End	4	2	20	50

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*Majors in mm

Hybrid Ceramics

Reliable performance with Nano Diamond multilayer coating, ensuring resistance to the abrasion generated by hybrid ceramic milling and delivering precise, smooth surface quality.
Uses: Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
D445-2YB0608	Nano Diamond	Ball End	4	0,6	8		45
D450-2YB1010	Nano Diamond	Ball End	4	1	10		50
D450-2YB2016	Nano Diamond	Ball End	4	2	16		50

Titanium, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life.
Uses: Titanium alloys, CoCr.

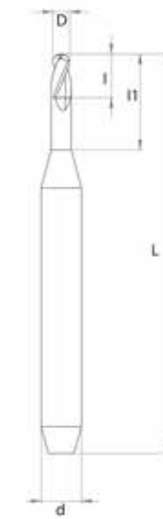






REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T450-2YB0604	TiSi+	Ball End	4	0,6	4		50
T450-3YB1008	TiSi+	Ball End	4	1	8		50
T450-3YB1512	TiSi+	Ball End	4	1.5	12		50
T450-3YB2012	TiSi+	Ball End	4	2	12		50
T450-2YB2016	TiSi+	Ball End	4	2	16		50
T450-2YB3012	TiSi+	Ball End	4	3	12		50
T445-2YT201008	TiSi+	Bull Nose	4	1	8	0.2	45
T450-2YT201512	TiSi+	Bull Nose	4	1,5	12	0.2	50
T450-4YT201516	TiSi+	Bull Nose	4	1,5	16	0.2	50
T440-3YF0503	TiSi+	Flat	4	0,5	3		40
T445-3YF1006	TiSi+	Flat	4	1	5		45
T450-3YF1408	TiSi+	Flat	4	1,4	8		50
T445-2YF1508	TiSi+	Flat	4	1,5	8		45
T450-2YF1810	TiSi+	Flat	4	1,8	10		50





*Majors in mm

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14 YENADENT

D14, D15, D15W, DC40, D43, D6

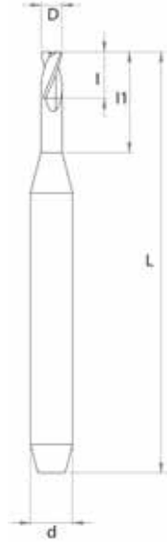
SHANK 04

Falt Multipurpose

Versatile tool with reinforced flank and high helix angle for maximum productivity. Uses: CoCr, Titanium alloys, Zirconia, PEEK, PMMA.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
T450-3YF1416	TiSi+	Flat	4	1,4	16	50
T450-3YF1818	TiSi+	Flat	4	1,8	18	50



Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
G450-0YB05TA	DED	Ball End	4	0.5	Tapered	50
G450-0YB0606	DED	Ball End	4	0,6	6	50
G450-0YB1010	DED	Ball End	4	1	10	50
G450-0YB1508	DED	Ball End	4	1.5	8	50
G440-0YB2015	DED	Ball End	4	2.5	15	50
G450-0YB2515	DED	Ball End	4	2.5	15	50



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*Majors in mm

14 YENADENT

D14, D15, D15W, DC40, D43, D6

SHANK 04

Threading

Reinforced threading tools with TiSi+ coating for faster, more precise milling, even on complex materials.
Uses: Metric threading on Titanium alloys and other materials.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
T445-3YM14	TiSi+	Threading	4	1,05	4,5	45
T445-3YM16	TiSi+	Threading	4	1,2	5	45
T445-3YM20	TiSi+	Threading	4	1,5	6	45

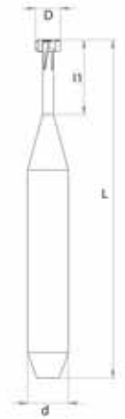


Varioaxis

Patented for angled screw channels. Reinforced geometry with TiSi+ coating ensures fast, precise, and reliable milling across multiple materials.
Uses: Titanium, CoCr, Zirconia, PMMA, PEEK, Wax.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
VAY416	TiSi+	Varioaxis	4	1,65	8		45
VAY418	TiSi+	Varioaxis	4	1,85	8,5		45
VAY420	TiSi+	Varioaxis	4	2,05	9,5		45



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*Majors in mm

15 BY SYSTEM **ZIRKONZAHN**

SHANK 03
M5, M1 SOFT

SHANK 06
M1 WET HEAVY METAL, M2, M4

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15 ZIRKONZAHN

M5, M1 SOFT

SHANK 03

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C357-1ZB1016	DLC	Ball End	3	1	16	57
C357-1ZB2018	DLC	Ball End	3	2	18	57
C357-2ZB03TA	DLC	Tapered	3	0,3	Tapered	57
C357-2ZB0505	DLC	Ball End	3	0,5	5	57
C357-2ZB1016	DLC	Ball End	3	1	16	57
C357-2ZB2018	DLC	Ball End	3	2	18	57
C357-2ZF1517	DLC	Flat	3	1.5	17	57



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C357-2ZB03TA	DLC	Tapered	3	0,3	Tapered	57
D357-2ZB0505	Nano Diamond	Ball End	3	0,5	5	57
D357-2ZB1016	Nano Diamond	Ball End	3	1	16	57
D357-2ZB2018	Nano Diamond	Ball End	3	2	18	57
C357-2ZF1517	DLC	Flat	3	1.5	17	57

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*Majors in mm

15 ZIRKONZAHN

M1 WET HEAVY METAL, M2, M4

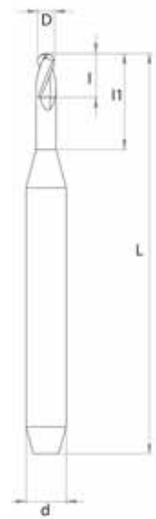
SHANK 06

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C650-1ZB1012	DLC	Ball End	6	1	12	50
C650-1ZB2018	DLC	Ball End	6	2	18	50
C650-2ZB03TA	DLC	Tapered	6	0,3	Tapered	57
C650-2ZB0505	DLC	Ball End	6	0,5	5	50
C650-2ZB1012	DLC	Ball End	6	1	12	50
C650-2ZB2018	DLC	Ball End	6	2	18	50
C650-2ZF0607	DLC	Flat	6	0,6	7	
C650-2ZF1517	DLC	Flat	6	1.5	17	57



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life.
Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C650-2ZB03TA	DLC	Tapered	6	0,3	Tapered	50
D650-2ZB0505	Nano Diamond	Ball End	6	0,5	5	50
D650-2ZB1012	Nano Diamond	Ball End	6	1	12	50
D650-2ZB2018	Nano Diamond	Ball End	6	2	18	50
C650-2ZF0607	DLC	Flat	6	0,6	7	
C650-2ZF1517	DLC	Flat	6	1.5	17	50

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*Majors in mm

CoCr, Titanium

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life.
Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	r	L
T650-2ZB0503	TiSi+	Ball End	6	0.5	3		50
T650-2ZB1012	TiSi+	Ball End	6	1	12		50
T650-2ZB2012	TiSi+	Ball End	6	2	12		50
T650-2ZB3018	TiSi+	Ball End	6	3	18		50
T650-4ZT251512	TiSi+	Bull Nose	6	1.5	12	0.25	50
T650-4ZT502012	TiSi+	Bull Nose	6	2	12	0.50	50
T650-4ZT753018	TiSi+	Bull Nose	6	3	18	0.75	50
T650-2ZF0503	TiSi+	Flat	6	0.5	3		50
T650-2ZF1210	TiSi+	Flat	6	1.2	10		50
T650-2ZF1510	TiSi+	Flat	6	1.5	10		50
T650-2ZF1515	TiSi+	Flat	6	1.5	15		50



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*Majors in mm

16 BY SYSTEM **CAMDENT**

SHANK 06
SDM6T, CDM5G, SDM5T

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SDM6T, CDM5G, SDM5T

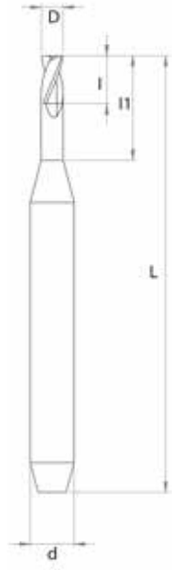
SHANK 06

CoCr, Titanium

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life.
Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
T650-2EB3016	TiSi+	Ball End	6	3	16	50
T650-3EB2012	TiSi+	Ball End	6	2	12	50
T650-3EB1010	TiSi+	Ball End	6	1	10	50
T650-2EB1512	TiSi+	Flat	6	1,5	12	50
T650-4EF2016	TiSi+	Flat	6	2	16	50
T650-4EF2010	TiSi+	Flat	6	2	10	50
T650-3EF1516	TiSi+	Flat	6	1,5	16	50
T650-4EF1512	TiSi+	Flat	6	1,5	12	50
T650-3EF1006	TiSi+	Flat	6	1	6	50
T650-2EF0504	TiSi+	Flat	6	0,5	4	50



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*Majors in mm

17 BY SYSTEM **DEPRAG**

SHANK 04
D52, D52-ADC

SHANK 06
W5MAX, W52

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PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C450-2GB2016	DLC	Ball End	4	2	16	50
C450-2GB1016	DLC	Ball End	4	1	16	50
C450-2GF1520	DLC	Flat	4	1,5	20	50



Zirconia, Sintec

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
D450-2GB2016	Nano Diamond	Ball End	4	2	16	50
D450-2GB1016	Nano Diamond	Ball End	4	1	16	50
D450-2GB0608	Nano Diamond	Ball End	4	0,6	8	50
D450-2GB0303	Nano Diamond	Ball End	4	0,3	3	50
D450-2GF1520	Nano Diamond	Flat	4	1,5	20	50

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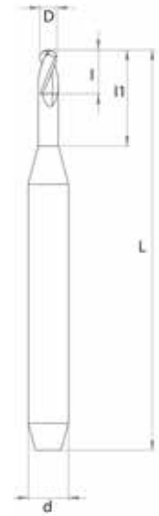
*Majors in mm

Ti, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
T445-2GB3014	TiSi+	Ball End	4	3	14	45
T445-2GB2014	TiSi+	Ball End	4	2	14	45
T445-3GB1512	TiSi+	Ball End	4	1.5	12	45



Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
G445-0GB2516	DED	Ball End	4	2.5	16	45
G445-0GB1010	DED	Ball End	4	1	10	45
G445-0GB0610	DED	Ball End	4	0.6	10	45



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*Majors in mm

D52, D52-ADC

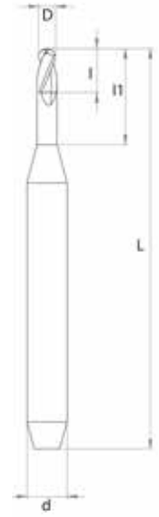
SHANK 06

PMMA, PEEK

Maximum efficiency in polymers with positive cutting angle and low friction coating for higher speed, better finish, and longer tool life. Uses: PMMA, PEEK, Wax, Nanocomposite.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
C650-2GB2016	DLC	Ball End	6	2	16	50
C650-2GB1016	DLC	Ball End	6	1	16	50
C650-2GB0308	DLC	Ball End	6	0,3	8	50
C650-2GF1520	DLC	Flat	6	1,5	20	50



Zirconia

Extreme durability with Nano Diamond multilayer coating, delivering superior surface quality and up to 9× longer tool life. Uses: Zirconia, Pre-sintered CoCr, Hybrid ceramics, Fiber-reinforced composites.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
D650-2GB2016	Nano Diamond	Ball End	6	2	16	50
D650-2GB1016	Nano Diamond	Ball End	6	1	16	50
D650-2GB0608	Nano Diamond	Ball End	6	0,6	8	50
D650-3GF1520	Nano Diamond	Flat	6	1,5	20	50

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*Majors in mm

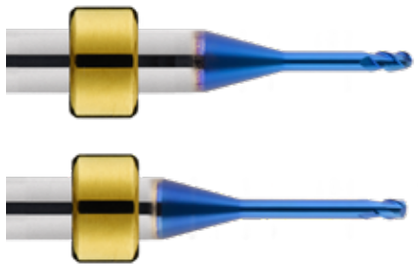
17 DEPRAG

SHANK 06

W5MAX, W52

Ti, CoCr

Optimized tools with TiSi+ coating and high helix angle geometry for maximum strength, reduced vibration, and extended tool life. Uses: Titanium alloys, CoCr.



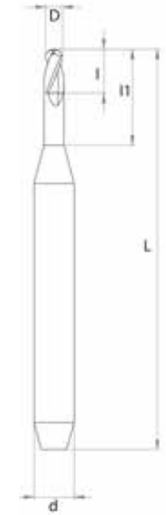
REFERENCE	COATING	GEOMETRY	d	D	l1	L
T650-3GB3012	TiSi+	Ball End	6	3	12.5	50
T650-3GB2012	TiSi+	Ball End	6	2	12.5	50
T650-3GB1008	TiSi+	Ball End	6	1	8	50
T650-3GF2006	TiSi+	Flat	6	2	6	50
T650-2GB1508	TiSi+	Ball End	6	1.5	8	50
T650-4GT202016	TiSi+	Bull Nose	6	2	16	50
T650-2GB0504	TiSi+	Ball End	6	0.5	4	50
T650-2GF1006	TiSi+	Flat	6	1	6	50

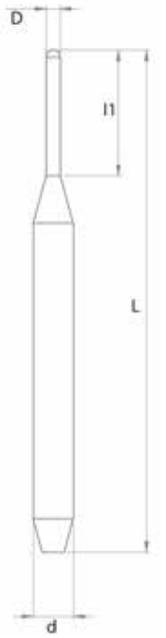
Glass Ceramics

Precision in glass ceramics with DED coating and optimized grain size and maximum adhesion. Uses: Glass Ceramics, Lithium disilicate, Amber Mill, e.max CAD, Empress, Vita Mark II, Vita Suprinity, Lava Ultimate.



REFERENCE	COATING	GEOMETRY	d	D	l1	L
G645-0GB2516	DED	Ball End	6	2.5	16	45
G645-0GB1010	DED	Ball End	6	1	10	45
G645-0GB0610	DED	Ball End	6	0.6	10	45





*Majors in mm

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PARAGON

milling solutions

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