

High Precision Milling Tools for Digital Dentistry



Compatible with Leading Machines

Amann Girrbach®	imes-icore®	Lava®	ROLAND®	VHF®	Wieland®	yenadent®	ARUM®
Dental mill®	X-T CERA®	redon®	SIRONA®	BX4®	MAXXDIGM®	Zirkonzahn®	ivoclar®

.... and many more

High Precision Milling Tools for Digital Dentistry

The digital revolution is changing the world and has not spared the World of Dentistry !

The introduction of a whole range of digital devices for imaging and diagnostics, establishment of processing software - CAD/CAM and prosthetic software for implant surgery, along with new aesthetic materials and powerful machining and prototyping tools - milling machines and 3D printers, is radically transforming dental procedures and outcomes.

Instant and accurate design and rapid manufacturing, right first time, of dental restorations such as crowns, bridges and implants with perfect fit and aesthetics is done from digital files through CAM milling. Further development and use of advanced materials for restorations calls for high performance milling tools with enhanced durability, precision, reliability and efficiency.

INDSPHINX, with its AXIS brand of tools is one of the worlds leading manufacturer of high precision tools for micro machining applications across varied industries. INDSPHINX's decades long legacy of crafting micro tooling solutions is established with its unrelenting focus on core values of Quality, Precision, Consistency and Customer Focus.

AXIS mICRO Tools are manufactured in an end to end world class infrastructure with high end grinders, best in class inspection systems along with top of the order PVD and CVD coating systems and one of its kind superfinishing technology. The tools are designed by experts with domain expertise and experience and manufactured in well established and proven processes for delivering superior outcomes. INDSPHINX's extensive and ceaseless research and deep understanding of the contemporary milling needs in digitized dental applications puts it on a vantage point to deliver NextGen tools.

Chrome Cobalt / Titanium



+



- Ultrafine carbide substrate with excellent wear resistance properties
- Bespoke Geometry for machining Ti & CoCr, obtaining low cutting forces and temperatures
- Top of the line PVD coating for reduced wear propagation and extended tool life
- Engineered surface preparation - Pre and Post coating - for enhanced coating productivity, reduced coefficient of friction and high chip flow rate

Zirconium



- Optimised geometry for machining ceramics
- High hardness Nano crystalline Diamond coating for enhanced resistance to wear and longer tool life
- Engineered surface for superior coating adhesion to the substrate
- Highly precise ball profile achieved with calibrated grinding

PMMA / PEEK / WAX



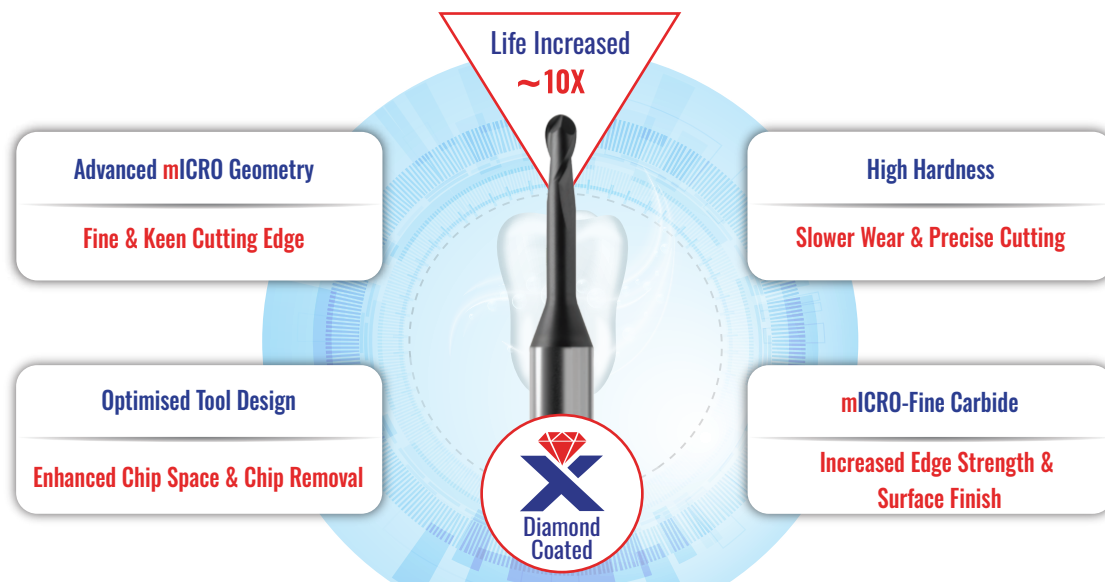
- Tailored geometry and cutting edge composition to ensure low temperature during machining
- Sharp and Keen cutting edge for reduced burr and flag formation
- High gloss and super finished flutes for ease of chip evacuation

NexGen CVD Diamond Coatings

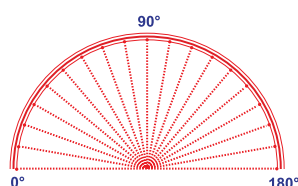
Machining modern day materials used in dental applications requires High Performance Tools. To limit abrasive wear, extend tool life, improve machined surface quality, drive costs down and gain operational efficiencies the tungsten carbide Tools are coated with harder materials.

The unique physical properties of Diamond - high hardness, extreme abrasion resistance, high thermal conductivity, low coefficient of friction, high elastic wear, and low affinity with non ferrous materials makes it a excellent choice as a coating substrate.

INDSPHINX's association with the pioneer and the world leader in CVD Diamond Coating provides it an Edge to manage and mature the process - preparation, deposition and cooling - of CVD Diamond Coating and offer world class tools.



Accurate & Consistent Ball Profile



Ball Line Form
Standard : ± 0.005
On Request : ± 0.0015



Ball Radius Tolerance
Standard :
R 0.10-R 1.50 : $\pm 0.002\text{mm}$
R 2.00-8.00 : $\pm 0.005\text{mm}$
On Request : $\pm 0.0015\text{mm}$

Distinguished Value Proposition

Proven Design and Geometry

Lower Cutting forces
Superior Cutting

High Value Add Coatings

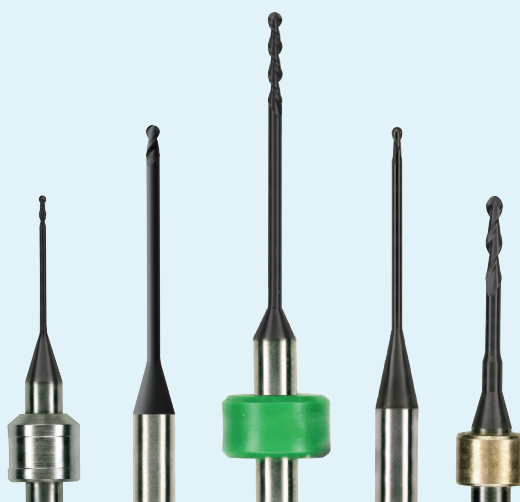
High end PVD and CVD Coatings
Soecialized Pre and Post Coating processes

High Precision and Longer Tool Life

Precise & Consistent Tool Profiles
Best in Class Raw Materials

Complete and Compatible

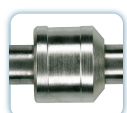
Complete and Comprehensive offering for
Contemporary Digital Dentistry,
Compatible with all makes of Machine



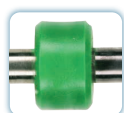
Accessories



Circlips

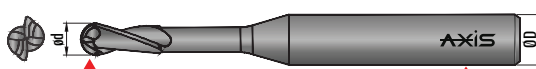


Metal Rings



Plastic Rings

Diameters



Diameters
 $\varnothing 0.30 - 3.00 \text{ mm}$

Shanks
 $\varnothing 3.00, 4.00, 6.00 \text{ mm}$

Specials on Request



AXIS
Tools for mICRO mACHINING



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QUALITY • PRECISION • CONSISTENCY

