

Tomorrow's Tools: TODAY.... from CRT

AXIS is world's leading manufacturer of High Precision Tools for **m**ICRO **m**ACHINING.

State-of-the-Art Swiss, German and Japanese CNC Automatic Grinders and High-end Quality control vision and laser instruments enable us craft world class products.

High performance Tungsten Carbide raw materials from Europe and Japan form basis of our products.

Vibrant and Highly trained Team with more than **30** years of experience, is at core of very controlled production processes reflecting our deep entrenched focus on Quality, Precision, Consistency and People.

Our **NexGen** Coating facility with CVD Diamond Coatings, PVD Coatings and High-end Pre Coating and Post Coating processes improves our capabilities to offer front end Coating technology.

Transformation of Digital Dentistry world has allowed innovative materials for Dental restoration offering machining challenges Getting most out of this transformation requires High Precision Milling Tools and this is where AXIS scores as your partner.

AXIS premier position has been achieved with extensive research, deep understandings of Dental Milling Process and close relationships with Dental labs.

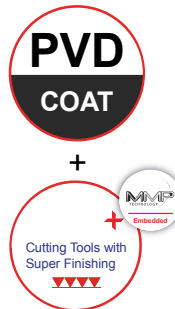
PMMA / PEEK / WAX



On Request

- Optimised geometries
- Reduced cutting forces
- Super finish processes
- Smooth chip evacuation

Chrome Cobalt / Titanium



- Special geometry for hard to machine materials
- High Precision Grindings
- Super finish processes
- NexGen Coatings

Zirconia




- Customised geometries
- Coating focused grinding Tools
- NexGen Diamond Coatings
- Increased Tool life

Diameters
0.30 - 3.00 mm

Shanks
3.00, 4.00, 6.00 mm

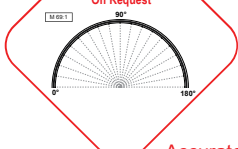
Specials on Request

Accessories
Circlips, Metal Rings,
Plastic Rings

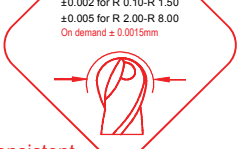


Ultra fine Carbide grades Optimised Coatings Unique Geometries

Ball Line Form
±0.001
On Request



Ball Radius Tol.
±0.002 for R 0.10-R 1.50
±0.005 for R 2.00-R 8.00
On demand ± 0.0015mm




Accurate & Consistent Ball Profile

Cutting Tools with Super Finishing


Always at the front end of technology we have high-end super finish process to maintain cutting geometry of Tools for improved chip evacuation while machining PMMA, Wax and soft materials.


Technical Benefits :

- Reduced flute friction, drastically improves chip evacuation
- Reduced Heat Generation due to smooth cutting
- Controlled and repeatable edge honing




Super Finishing





Standard Tool



MMP Tool

Cutting Edge

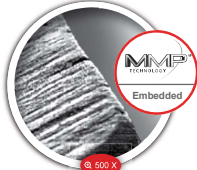
NexGen PVD Coatings


Unique ability of Pre Coating and Post Coating Super finishing process selectively targets roughness which can dramatically impact Tool performance and enhances life.

- Enhanced adhesion of thin Coatings (PVD) due to superior surface preparation
- Improved finish post PVD Coatings as MMP removes droplets and reduces the roughness of the Coating thereby producing a shining surface


NexGen PVD Coatings optimised for hard and difficult to machine materials such as Chrome Cobalt and Titanium

- Very Strong Adhesion
- Droplet free surface
- Extremely low co-efficient of friction





AXIS PVD Coating




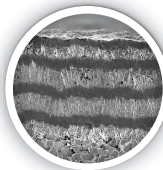
Regular Coating

NexGen CVD Diamond Coatings

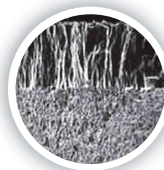
As Zirconia is highly abrasive material, machining it requires Cutting Tools with optimised geometries and Coatings. Our in - house Coating innovations adds the following values:

- High hardness ~ 10,000 HV 0.05
- Increased Tool life 6-10 times
- Extreme wear resistance Coatings
- High dimensional accuracy
- High heat resistance





AXIS Nano-crystalline Coating



Regular Diamond Coating