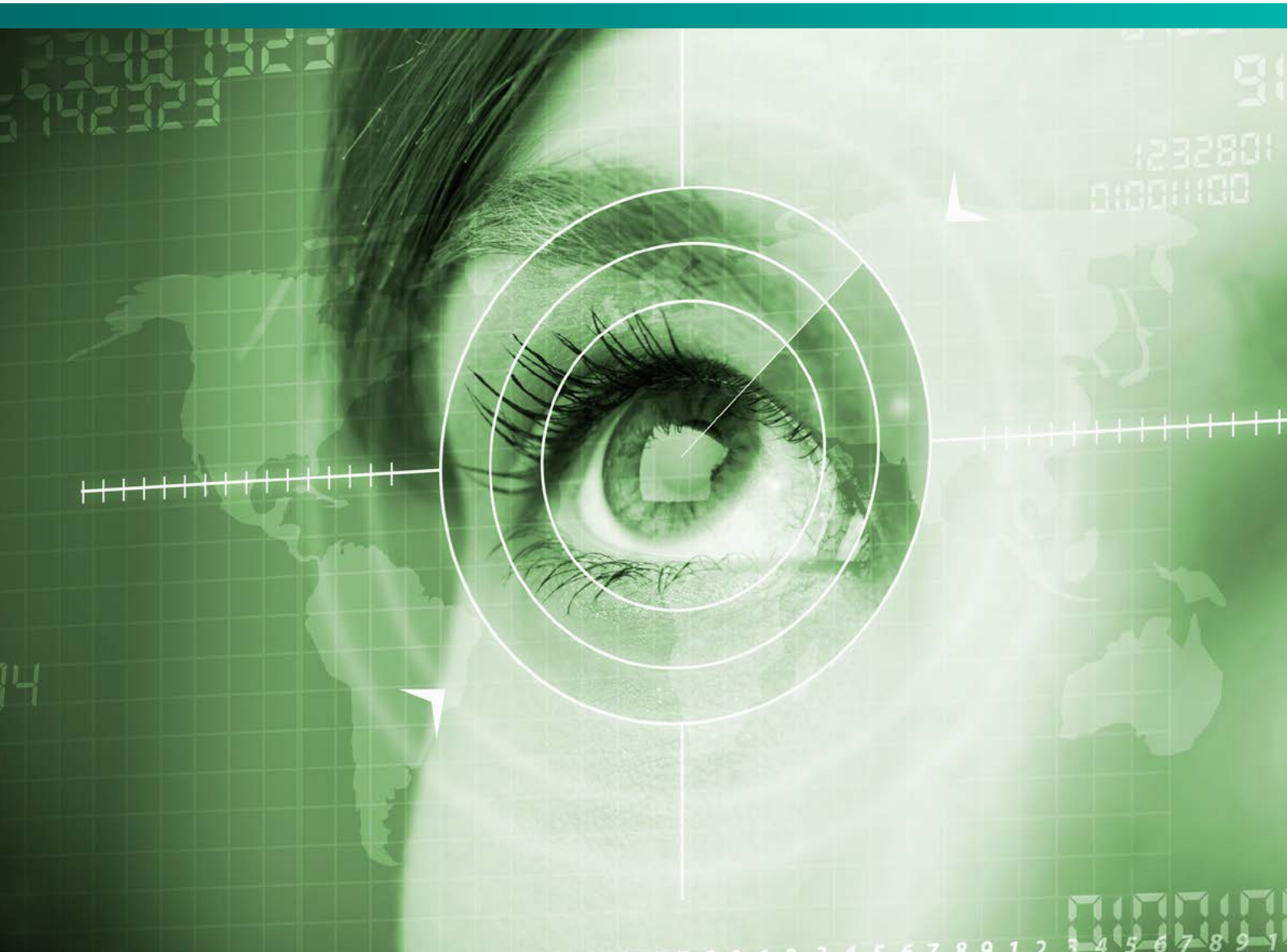


Diamond tools for Contact Lenses and IOL's



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Technodiamant Precision Tooling has developed a complete range of tools to meet the requirements of today's contact lens and IOL manufacturers. For optimum cutting efficiency the correct tool geometry and diamond material must be used for any given material. Available with either natural or synthetic single crystal diamond, a range of radius size and rake angle is offered. Tools can either be solid shank or insert style. Technodiamant orientates the diamond to maximise the wear-resistant characteristics.

POSSIBILITIES

- Diffractive tools
- Milling tools
- Half-radius tools
- Custom shanks
- ... and many more!

OPTIONS

- Natural or synthetic single crystal diamond
- Various geometries
- Solid shank/insert system

FEATURES

- Edge waviness certificate of conformance
- Chip free at 500x Nomarski
- Guaranteed quality
- Optimum tool life
- Flawless diamond

Non-controlled waviness tools

These tools are being used for bulk removal of material prior to finishing for two axis applications. The tools mostly have a cylindrical clearance and are made to the same high quality standards as all Technodiamant tools. This means that they can also be used for single axis finishing applications.



Controlled waviness tools

For the direct lathing and finishing of contact lenses and IOL's, Technodiamant has developed a range of tools with controlled waviness. These tools mostly have a conical clearance and are available with natural or synthetic single crystal diamond and with the traditional solid shank or the insert system.



Milling tools

Compared to conventional tungsten carbide or steel milling cutters, Single Crystal Milling Tools for IOL's offer the following

- Much longer tool life
(10,000 - 15,000 IOL Lenses)
- Dramatic reduction of machine
(at least 150 times less) downtime
in replacing conventional cutters
- Higher accuracy
- Superior surface finish, less polishing

Technodiamant IOL diamond milling tools can be used on PMMA and foldable materials, fixed with wax, vacuum or ice.



Insert system

Technodiamant has refined the insert to the point that it is now in widespread use by contact lens and IOL manufacturers around the world. The insert can then be fitted to a tool holder of our existing design to suit in its intended application. Tool holders are made by Technodiamant in standard and customised offsets.



Fast Tool Servo

With the high production demands for toric designs and the need to remain cost competitive new technologies are being employed using high speed tool actuators. Technodiamant has met this challenge with light weight Titanium tool holders required to keep the tool mass to the absolute minimum.





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