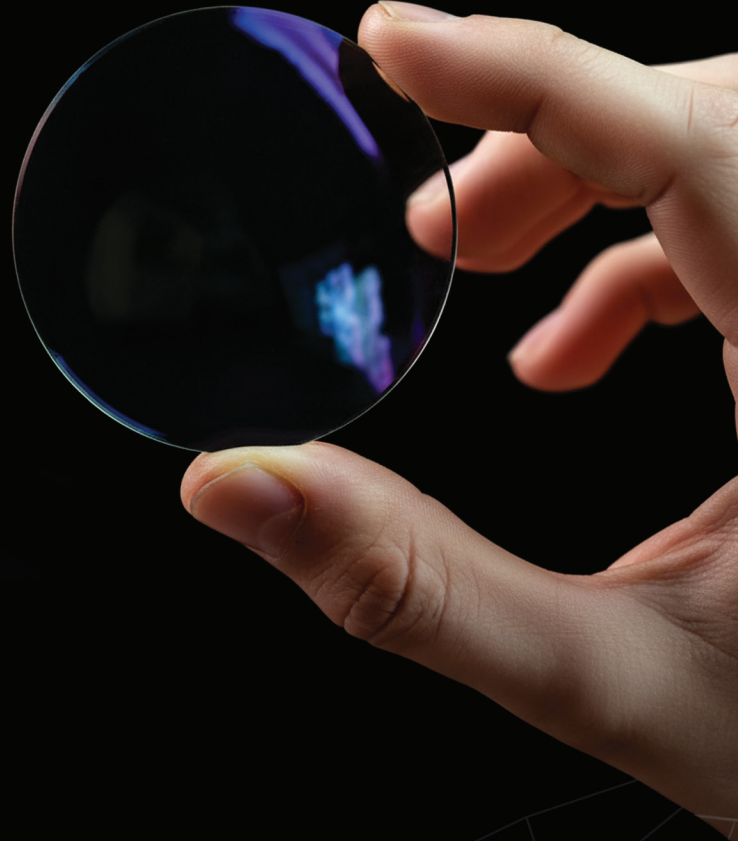
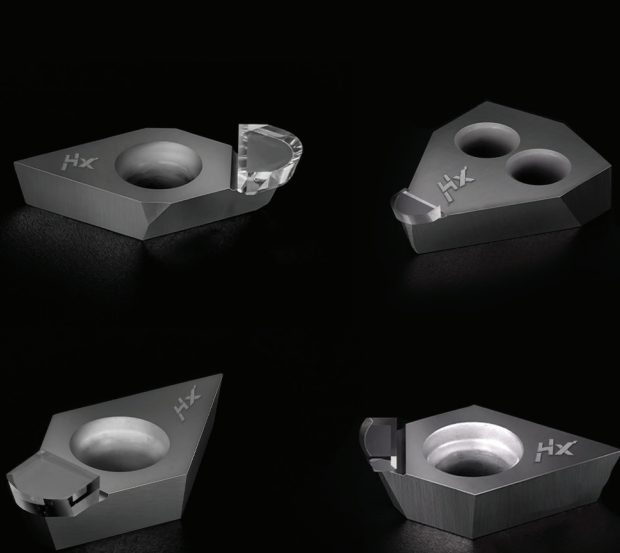


HARDTEN

PRECISION

ENGINEERED FOR EXACTITUDE



Ophthalmic Tooling in Redefining Precision

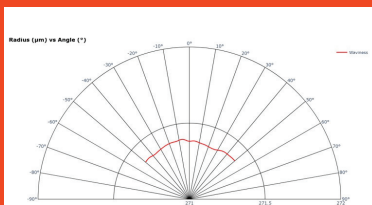


MANUFACTURING

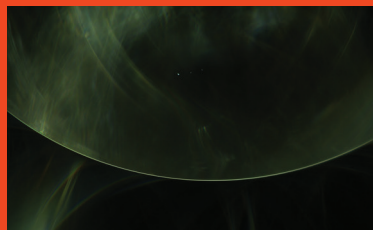
Hardten uses advanced manufacturing and measurement systems to ensure the highest tool quality. Our facilities include ultra-precision machines, high-end surface measurement equipment, and high-resolution inspection systems, ensuring every tool meets strict optical standards.

We also grow our own CVD diamonds in-house, using a dedicated, controlled facility to ensure unmatched purity, consistency, and performance in every tool.

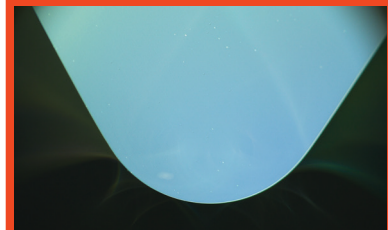
Profile Evaluation



Chipping Free Cutting Edge



Surface Inspection At Various Filters



ENABLING BETTER VISION THROUGH PRECISION

Hardten designs and manufactures high-precision Single Crystal Diamond (SCD) tools for the optical and ophthalmic industry. Our tools deliver exceptional surface quality, high repeatability, and long tool life, helping manufacturers achieve better lens quality, higher productivity, and lower cost per lens.

SPECTACLE TOOLS

We manufacture tools compatible with leading machines such as Satisloh, Schneider, Coburn, OptoTech, Essilor.

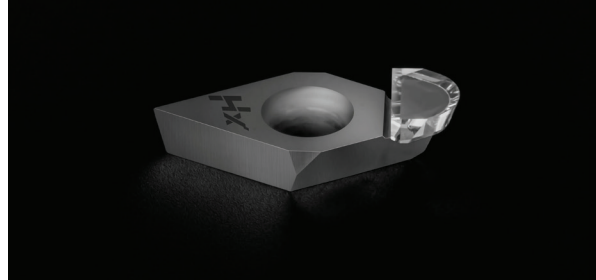
Sat VFT Orbit Twin R2.00m

High-precision tool for smooth cutting, long life, and consistent optical quality.



Cob R3.00m

Designed for smooth machining with minimal surface defects and reliable quality.



Opt R5.00m Offset

Optimized for OptoTech machines, delivering ultra-smooth cutting and stable performance.



Sch R2.00m CL6.80

Ideal for free-form, progressive, and prescription lenses with high surface accuracy.



CONTACT LENS & IOL TOOLS

Straight Shank Tool

High-precision tool for machining hydrophobic, hydrophilic, and PMMA contact lenses and IOLs, delivering surfaces completely free from scratches and burrs.



Insert Tool

Designed for high-accuracy machining of contact lens and IOL molds on ultra-precision machines.



CHOOSE YOUR EDGE WITH HARDTEN

At Hardten Precision, we offer precision-engineered tools made from single-crystal diamonds, designed to meet the stringent requirements of intraocular lens (IOL) and contact lens manufacturing.

RELAPPING SERVICES & TECHNICAL SUPPORT

- Restore Performance. Reduce Cost. Extend Tool Life.
- Hardten offers expert relapping and resharpener services to restore diamond tools to near-original performance.
- Expert precision resharpener with high accuracy and care
- Fast, cost-effective turnaround to reduce downtime
- All brands supported, including Hardten and other manufacturers

WHY HARDTEN

- Nanometer level precision for tight tolerances
- Long tool life with reduced wear
- High consistency and repeatability
- Lower cost per lens through reduced rework and downtime
- Supports sustainable, low-waste manufacturing

Result: Better lens quality, improved wearer comfort, and efficient production.

Mikro Diamond Tools, an associate company of Hardten Precision Technologies, offering sales and service support across EMEA and LATAM.

