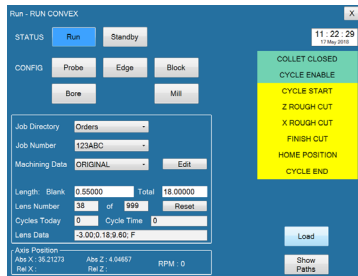
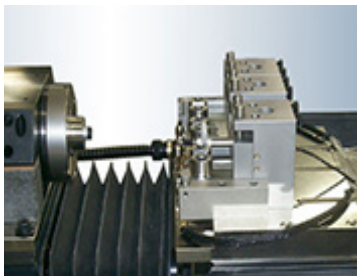
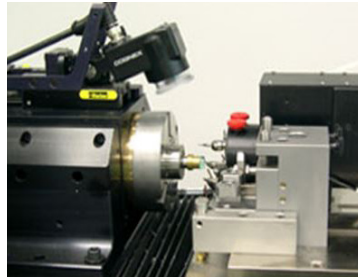
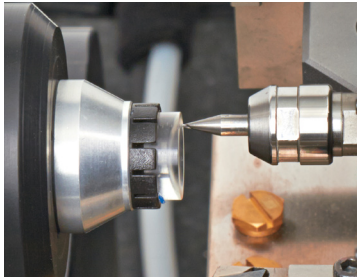


Low cost two-axis, computer controlled contouring lathe designed for high speed lathing of spherical, multi-curve, aspheric, and edge design contact lenses and intraocular lenses. It is the world's most competitively priced ultra-precision lathe precisely designed for contact lenses or intraocular lenses (IOLs). The machine control software is extremely flexible, accommodating all applications.



- ▶ **High speed lathing of spherical, multi-curve, aspherical, and non-rotationally symmetric contact lenses and intraocular lenses**
- ▶ **Form accuracy of less than 0.15 µm and surface finish of 8-10 nm Ra**
- ▶ **Built on a natural granite base, and utilizes a passive mount vibration isolation system**
- ▶ **User defined edge configurations including asymmetric edge can be specified, incorporated into the lens design and directly machined**
- ▶ **Air slides provide stiff 200 mm (X-axis) and 100 mm (Z-axis) of travel with linear motor technology**
- ▶ **< 10 nm resolution linear laser scales for positioning feedback**
- ▶ **Ergonomic intuitive controls accessed from high-quality color touch screen**
- ▶ **Comes standard with separate dual tool holders, front surface probe, and can hold up to 6 diamond tools**
- ▶ **Task light and vacuum chip extraction**

System / Control	Description
Configuration	Two-axis contouring machine, "T" configuration
Control System	On-board computer, PMAC servo control of linear motors, nanometer position feedback, with ergonomic menu type interface on a flat panel high quality touch screen, MS Windows operating system
Base	Natural granite supported on a welded steel frame
Vibration Isolation	Passive mount vibration isolation system
Machine Capability	Spherical, Aspherical Non-rotationally symmetric with FTS 5000 attachment
Machine Slides	X and Z axis
Type	Preloaded hydrostatic air bearing design
Travel	X axis: 200 mm (8 in.) Y axis 100 mm (4 in.)
Speed	0.001 - 1500 mm/min (60 in./min)
Drive System	Linear AC synchronous motor
Workholding Spindle	HS 75 High Speed Heavy Duty Spindle
Type	Air bearing
Speed Range	100 - 10000 RPM without optional chiller 100 - 15000 RPM with optional chiller
Stiffness	Axial: 105 N/µm Radial: 35 N/µm
Load Capacity	Air actuated collet mechanism
Acc / Dec Time	< 5 sec
Machine Requirements	
Power	208 - 230 VAC, 1 phase 50/60 Hz, 3.0 kVA
Air	10 SCFM @ 90 PSIG 5 l/s @ 6 bar