

Capabilities:

Costa Mesa, California & Tucson, Arizona

Quality Certification and Process Control

- ISO 9001:2000 (Tucson)
- ISO 13485:2003 (Medical devices – Quality Management Systems) (Tucson)
- Demand Flow Technology system
- MIL-STD-1246 cleaning standard (NIF Certified)

Services

- Concept design and prototyping
- Pre-production manufacturing
- Design for Manufacture and Assembly
- Custom tooling design
- Prototype manufacturing facilities

Facility

- Class 10 clean room
- Configurable manufacturing
- Laminar flow work stations
- ESD production stations
- Precision cleaning

Production Equipment and Processes

- Single point diamond turning
- Multi-axis active alignment stations
- Reticle projection systems
- Fully integrated metrology

Metrology

- ZYGO advance metrology systems
- ZYGO 633 nm, 1057 nm and 1550 nm GPI™, NewView™, and ZMI™ systems
- Aspheric null and metering mirror systems
- Vertical tower system test benches
- Multi-axis MTF, large aperture, and multi-spectral
- Starrett® CMM

Middlefield, Connecticut

Quality Certification

- ISO 9001:2000

CNC Glass Machining

- Glass machining to 1 meter diameter
- Lightweighting

Rotary Polishing

- (up to 1.2 m diameter)
- Flats to 12 nm ($\lambda/50$) PV
- Low Power Spectral Density signatures
- Surface roughness to < 0.2 nm RMS
- Angular tolerances to 0.1 arc second
- 20/10 at meter class optics

Double-Sided (up to 0.5 m diameter)

- Flats to 63 nm ($\lambda/10$) PV
- Surface roughness to < 1.0 nm RMS
- Wedge tolerances to 2 arc second
- 20/10 at meter class optics

MRF Polishing (up to 1 m diameter)

- 50 mm to 500 mm wheels

Cleaning

- Class 10,000 and 100,000 cleanroom

Materials

- Precision optical glass, fused silica, sapphire, Cleartran®, ceramics, silicon, ALON™ phosphate

Coating

- Sizes from 1 mm to 760 mm
- Wavelengths from 200 nm to 2000 nm
- SPECTRA V™ high-efficiency anti-reflective coatings at 633, 1053, and 1550 nm
- Polarizing and non-polarizing beamsplitters and prisms
- Custom coating design and manufacturing
- Low-stress metal and dielectric coatings
- Aluminum, silver, and enhanced reflectors
- High laser damage threshold coatings
- Polarization Beam Combiners



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