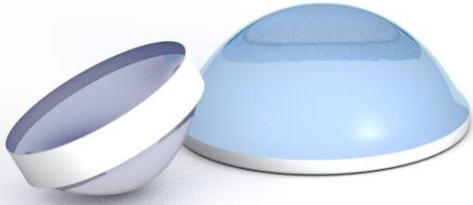


Aspherical Lenses

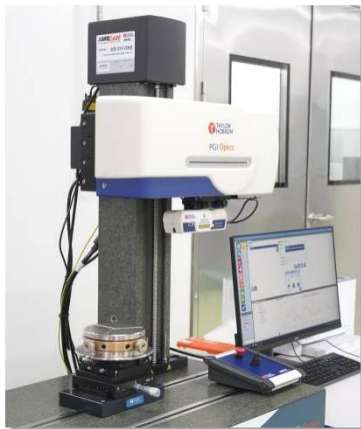


- Material from DUV to IR
- Custom dimension and shapes
- Diameter from 5 to 200 mm
- Clear aperture: Central 90% of diameter
- Irregularity : $\lambda/10@632.8\text{nm}$
- Surface quality: 10-5 S/D
- Centration: $<3'$
- Standard and custom coating options available
- High laser damage threshold

Aspheric lenses have its advantages in a range of applications where eliminated spherical aberration or (and) single element design is required. CASTECH offers CNC precision-polished aspherical and acylindrical lenses, with or without anti-reflection (AR) coatings. Our CNC polished aspheric lenses are iteratively ground and polished by a software supported computer-controlled processing center to provide better controlled surface quality, irregularity and focal length deviation.

Metrology

CASTECH employs rigorous verification procedure to guaranty the high performance of our each aspheric lens. Taylor Hobson Form Talysurf PGI profilometer allows contact measurement in grinding process while Taylor Hobson LumphoScan 260 non-contact 3D optical surface profilometer performs ultra precision optical surfaces form measurement in polishing process.



Taylor Hobson Form Talysurf PGI
Measure range: from 0.1 to 200 mm
Resolution ratio: 0.8nm



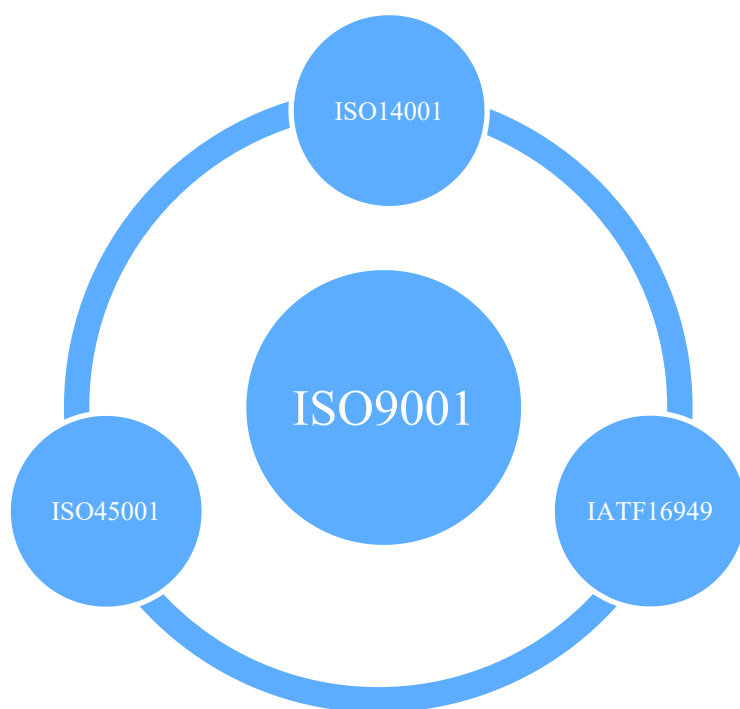
Taylor Hobson LumphoScan 260 for irregularity measurement
Measure range: from 5 to 260 mm
High surface accuracy: $\pm 50\text{nm}$



CASTECH[®]

福晶科技

- CASTECH was founded in 1990 by FIRSM (Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, a world famous institute on material research).
- A public company (2008, Shenzhen, China, Stock Code: 002222)
- Sales Revenue US\$80 Millions
- More than 1000 Employees
- 40,000 M² Facility
- Sales 50% China and 50% International



CASTECH is a pioneer and global leader in nonlinear optical crystals, laser crystals, precision optics and laser components for laser, optical communication, biomedical and LiDAR applications. Based on more than 30 years of worldwide known expertise and unique technologies of crystal growing, precision polishing and high LIDT coating, CASTECH has built a wide selection of high performance precision optics category and solutions including Aspherical/Spherical Lenses, Flats, Prisms, Waveplates, Gratings, polarization components, as well as featured products for most commanding applications like ultrafast lasers, to assist with our customers from prototype to mass production stage.