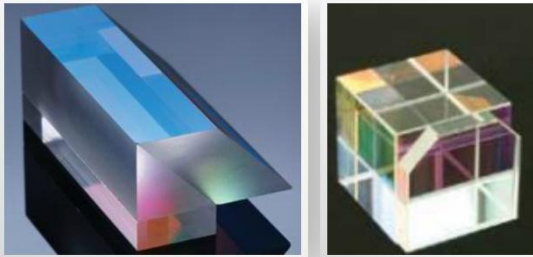


# Optical Assembly



- Component types: Glass-Glass and Glass-Metal
- Bonding methods: Epoxy bonding, Optical Contact, Optical diffusion bonding
- Diameter ranged from 1 to 400 mm
- Transmitted wavefront Distortion : up to  $\lambda/20$  @632.8nm
- Transmitted & reflected beam deviation :  $\pm 1'$  to  $\pm 5'$
- Customized design available
- High laser damage threshold

CASTECH has integrated various polishing and coating technologies to address optimized solutions to different applications focusing on ultra-precise finishing with even fine subsurface properties or costs-efficiency. We work closely with our customers on engineering building and mass production of a complete portfolio of optics components including aspherical lens, spherical lens, cylinders, gratings, mirrors, windows, prisms and beamsplitters made out of an extensive range of materials.

By combining manufacturing with our advanced bonding processes, we are able to produce high quality multi-optical elements and optomechanical assemblies. Some typical parts include optical diffusion bonded polarization beamsplitter cubes used in high power laser systems, customized lens solutions like objective lenses, telecentric F-Theta lenses and collimators for a wide range of applications.

## Metrology

CASTECH has strong testing capabilities to precisely characterize the performance of our optical assemblies. A variety of advanced metrology systems are applied to guarantee the precise measurements of optical, mechanical, and reliability properties.



Trioptics OptiSpheric



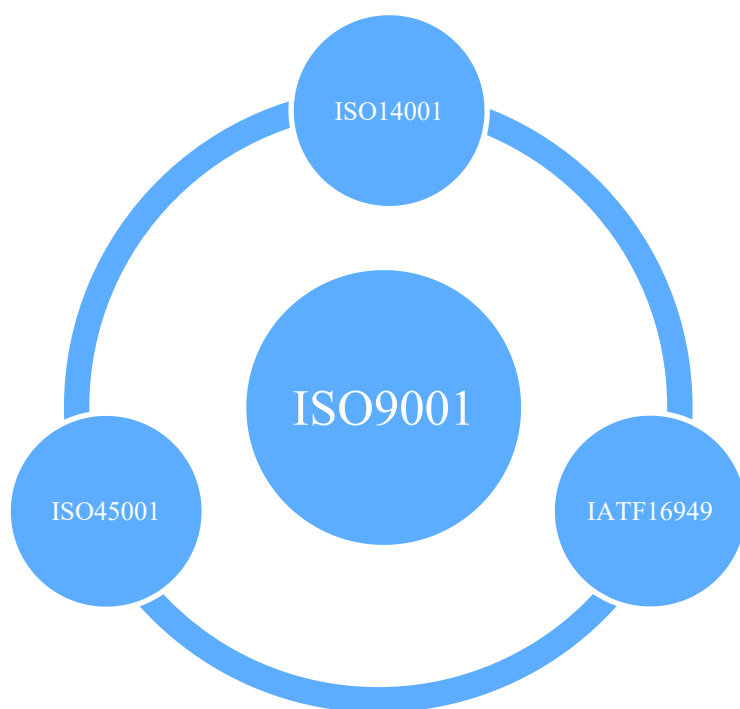
ZYGO GPI-XP Interferometer for wave front & parallelism measurement  
With  $\lambda/50$  accuracy  
Parallelism measure accuracy: 0.5 "



# CASTECH<sup>®</sup>

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 M<sup>2</sup> 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.