



Optical Support Inc.
When Precision Matters



Engineering Design & Manufacturing Services

Optical Support, Inc. is an engineering services company specializing in design and manufacturing of precision optical instruments and equipment.

Unlike other engineering services which only offer design, OSI has the CNC machining, clean room assembly, alignment and test capabilities to provide both rapid prototyping and volume manufacturing.

For customers who require expertise in optical and mechanical design and who need to efficiently validate product design and implement volume production, OSI's experienced staff and manufacturing resources are essential. Customers can leverage OSI engineering staff's collective experience, spanning several decades across a range of industries, to solve complex design problems.

OSI works with your engineering team from conceptual through detailed design, producing first article prototypes and production systems that meet your specific needs.



Direct to Precision CNC Machining

OSI uses industry standard software tools such as Zemax, ASAP, FRED, SolidWorks and MasterCAM, to design and analyze your instrument, before directly exporting CAD models to CNC machine code. This critical in-house capability allows fast development and first-time-right design validation.

OSI's highly skilled CNC machinists and programmers are the key to productivity in our CNC machining facility, which includes: HAAS VF-2, VM-3 and VF-9 milling machines with up to 83 inches of travel, and a HAAS DS-30SSY Dual Spindle, Live Tooling Lathe for production of lens barrels and custom precision adjustment screws.

Challenging Schedules

Vertically integrated resources and facilities allow OSI to realize challenging customer schedules. With engineering and manufacturing under one roof, we rapidly design and build prototype hardware to your specifications while concurrently engineering fabrication and metrology tooling for production.



Metrology & Clean Room Facilities

Key metrology instruments include Phase Shifting Interferometers, Point Source Microscopes, Coordinate Measuring Machine (CMM), Digital Microscopes, Laser Alignment Scopes and an Air-Bearing Alignment Station.

OSI has a 500 sq.ft. Class 1000 clean room space with a 4,000lb capacity gantry crane, two granite tables up to 6'x12', clean flow benches and optical assembly tables.



Experience Spans Industry

OSI staff's core knowledge in opto-mechanical systems spans a variety of industries, from the Lawrence Livermore National Lab's National Ignition Facility (NIF program), and NASA's James Webb Space Telescope (JWST), to more recent programs with several leading-edge lithography suppliers, including the development and production of projection optics housings, wafer flatness metrology products and biomedical instrumentation.

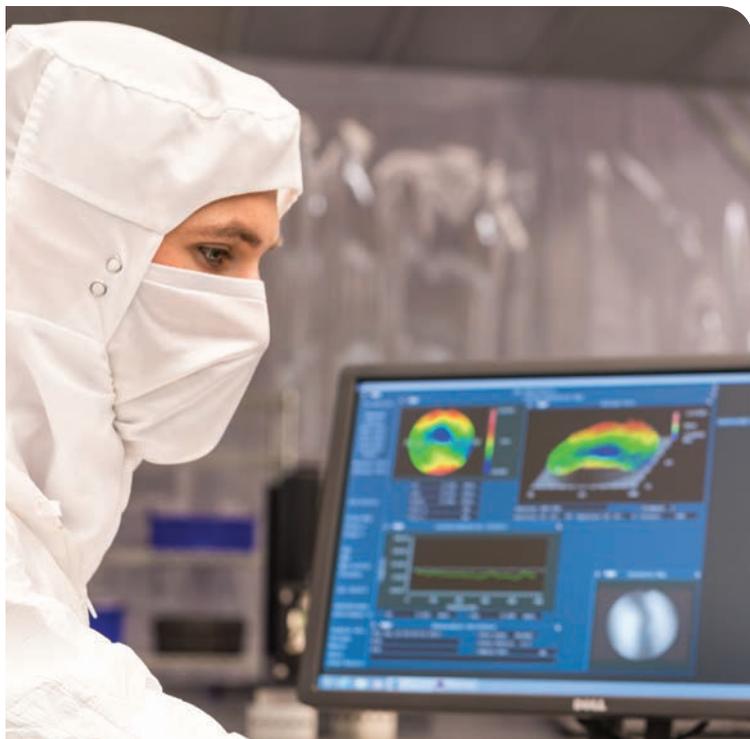


When Precision Matters

OSI works with your engineering team to create first article prototypes from your ideas. As part of our comprehensive solution we provide design and documentation packages as well as completed systems: precisely assembled, optically aligned, tested and production ready.

Investing for the Next Generation

The combination of these integrated resources allows OSI to engineer and efficiently produce high precision optical assemblies. OSI continues to invest in technologies to ensure that we meet our customer's next generation requirements.



Contact Us

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