



**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 custom metrology tooling.

Unlike other engineering houses which only offer design, OSI specializes in optical and optomechanical design and in building optical systems. Dedicated to our engineering group we have 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 optomechanical 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 decades across a range of industries, to solve complex design problems.

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



## CNC Machining

OSI uses industry standard software tools such as Zemax, ASAP, FRED, SolidWorks and MasterCAM, to design and analyze your instrument. CAD models are translated directly to CNC machine code. This critical in-house capability allows for rapid prototyping and design validation of completed optomechanical systems.

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 hardware.



## Challenging Schedules

Our vertically integrated solution allows us 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. Your next project can start in our facility now.



## 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 1,000 clean room space with a 4,000lb capacity gantry crane, 6'x8' and 6'x12' granite tables, clean flow benches and optical assembly tables.



## Experience Spans Industry

OSI's core knowledge in optics and optomechanical 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 multiple leading-edge lithography suppliers, including the development and production of projection optics housings, wafer 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 detailed design and documentation packages as well as completed systems: precisely assembled, optically aligned and thoroughly tested. Depending on your needs, OSI delivers integrated systems ranging from prototypes to production in the hundreds.

## 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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