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Medical Instrumentation Design & Assembly



With our fully integrated team of engineers, scientists, and manufacturing professionals, **Optics Technology, Inc.** is your prime partner for the design and assembly of cutting-edge medical instrumentation. We have more than 30 years of experience and a development infrastructure to support the accelerated production of a wide range of micromechanical and micro-optical prototypes. As development progresses, we can transition your products to small-to-medium production volumes help you get your medical instruments on the market in the shortest period of time.

We use a flexible and organized approach to ensure your medical instruments meet your quality and reliability requirements. At the same time, we employ design strategies to reduce the cost of manufacturing and assembly. With deeply knowledgeable specialists to cover every aspect of design, fabrication, and testing, we help you specify the best materials, engineer the micro-optical elements, and develop and execute an optical component and system test plan.

By leveraging our technical authority in micro-optical engineering and micro manufacturing, we can help you add valuable and profitable instruments to your product portfolio. We use proprietary and innovative methods for upholding exceptionally close tolerances when fabricating micro optical and mechanical assemblies to ensure the quality and integrity of critical products that play an important role in patient care. In addition, we also have the resources to assist with repair activities and the reverse engineering of obsolete or one-of-a-kind replacement parts for performance-critical medical instruments.

If you are interested in learning more about our medical instrument design and assembly capabilities or would like to discuss an upcoming project, [contact us](#) today.

[Request for Quote](#)

Medical Instrumentation Design & Assembly Specifications

Capabilities

- Design
- Manufacturing
- Repair

- Reverse Engineering of Replacement Parts
- Testing

Materials

- Titanium
- Stainless Steel
- Plastics
- Optical Grade Glass

Volume

- Prototype
- Small to Medium Production

Turnaround

- 1 Week
- Custom Upon Request

Additional Information

Industry Focus

- Aerospace
- Industrial
- Medical
- Military
- National Laboratories

- Photographic
- Sensory Technologies
- Telemedicine
- Universities

Intended Applications

- Mechanical Assemblies

Otoscopes
(ENT) Ear/Nose/Throat Devices

Sinus Shaver
Ear Surgical Instrument

File Formats

Zemax
Code 5

SolidWorks
MasterCam

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