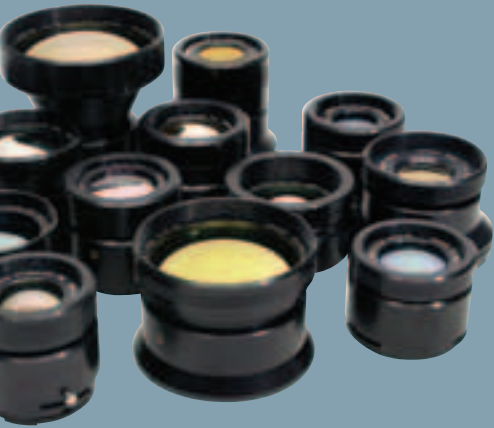


THE POWER OF FOCUS

Advanced Optical Solutions



Corporate Overview



Janos Technology, Inc. has been a world leader in the design and production of advanced infrared electro-optical components and assemblies for over 35 years. In our state-of-the-art 35,000 square foot manufacturing facility, we support both lean and agile manufacturing philosophies. Janos' direction continues to be driven by our customers, and we are constantly striving to advance our capabilities that enable us to provide products that are able to meet the needs of the most demanding multi-spectral applications.

Three Primary Business Segments:



Commercial OEM and Catalog Off The Shelf (COTS)

Janos has one of the largest infrared catalogs in the world with over 4,500 items offered. This includes everything from optical flats through Triple Field-Of-View assemblies with electronically controlled focus and FOV selection.



Defense and Aerospace

Janos has a long-standing reputation for production of customer and internally designed elements and assemblies from prototype through high-volume quantities. We offer complete Program Management, System Engineering and Design-To-Cost services to ensure our customers a competitive advantage throughout the life of a program.



R&D and Custom Solutions

Janos Technology has a dedicated team of multi-disciplined engineers to assist you in realizing solutions to your most challenging technical and system integration needs. Our expertise is the design of custom systems utilizing optical, mechanical and electrical technologies.

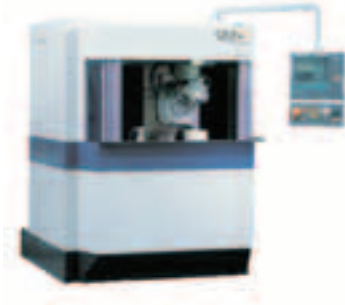
Operational Capabilities

Optical Materials

Janos is a vertically integrated manufacturer of optical elements and is experienced with nearly every optical material available including, but not limited to, the following:

- ZnSe
- Zns
- Ge
- Silicon
- Cleartran
- CaF2
- AMTIR
- CdTe
- Salt
- Crystals
- KRS-5
- MgF2
- BaF2
- Exotic Glass
- LiF
- Metals

The dimensions of the optical blanks take into account all the downstream processes to enable the final product to be within specification. With our ID saw, we can cut rod stock into optical blanks.



Generating

Janos is able to generate both spherical and aspheric surfaces. Our CNC generators and centering machines are capable of producing complex geometrical features such as angular truncations, rounded corners, elliptical edge shapes, notches, steps, conical edges, angular edges and other features.

Polishing

Janos has an extensive conventional optical polishing capability with over 80 active spindles and an experienced staff of master polishers. Janos is one of few companies producing IR flats on double-sided polishing (DSP) and continuous polishing (CP) equipment. Parts are polished from single piece to over 30 pieces per block.

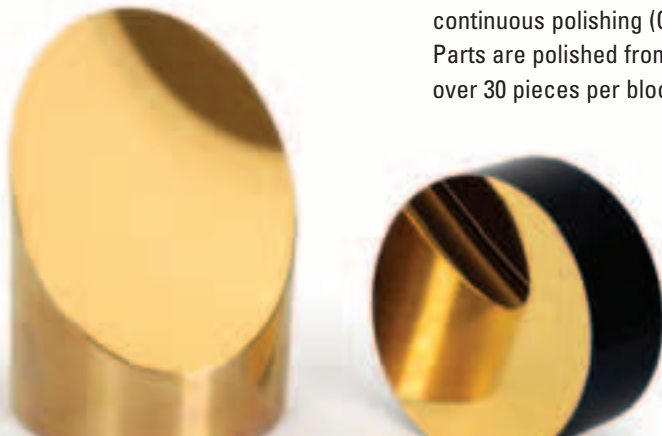
Diamond Turning

Janos' diamond turning CNC machining centers are capable of meeting the most demanding surface specifications and production needs. These include:

- Aspheric
- Binary
- Diffractive
- Off-axis parabolic
- Metal mirrors
- Precision edging
- Most IR materials (including silicon)
- Up to a 17" diameter

Magnetorheological Finishing (MRF)

Janos now has this exciting new technology online and is producing high precision parts. Janos has expanded the capabilities of this advanced equipment to process infrared materials and can achieve surfaces to 1/100th wave precision. It also allows for post polishing of diamond-turned optics to reduce roughness and achieve higher accuracy. It can also be used to correct system wavefront errors.





Thin Film Coating

Janos offers an extensive library of proven anti-reflection (AR) and reflective coatings that are designed, produced and verified for spectral performance as well as validated for environmental integrity in-house. MWIR, LWIR, multi-spectral and visible through infrared coatings are just some of the standard offerings. Janos develops coatings to run on multiple machines to ensure redundant capabilities whenever possible.

Electro/Optical/Mechanical Assembly

Optical systems will be assembled in our class 1,000 clean room and utilizing hoods to bring the local environment to class 100 specifications. Our experienced technicians choose from a multitude of adhesives that are appropriate to the environment in the end application. The wiring and electronics of motorized systems are integrated to military standards.

Testing and Qualification

Janos realizes the importance of verifying and validating products to ensure they meet customer requirements. Our current metrology capability includes:

- Interferometers with 4-inch, 6-inch and 12-inch apertures and digital data output capability
- Form Talysurf with 200 mm traverse length and up to 38 mm measurement range with digital data output capability
- Form Talysurf Mark 1

- Measuring interferometric (DMI) radius slide (2 meters)
- Non-contact profilometer (white light)
- Infrared MTF (Modular Transfer Function) testing
- Spherometer
- Form measurement system to measure edge thickness variation, runout, total runout, roundness, concentricity, and cylindricity specifications
- Optical comparator
- Spherotronic spherometer with computer interface
- Video surface inspection microscope
- Spectrophotometers with digital data output capability
- One of the industry's most extensive test plate collections



Hard Carbon (HCAR) and Diamond-Like Carbon (DLC) Coatings

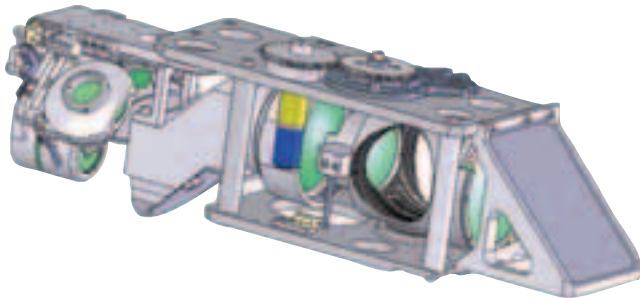
HCAR and DLC coatings are also available at Janos to meet the needs of those applications with optical elements exposed to harsh environments. Janos is also known for providing custom-coating services at an extremely affordable price, since most specifications can be met with just a small adjustment from existing designs.



Engineering Services

System Engineering

Janos' System Engineering Group offers services to support management and reduction of technical risk, Design-To-Cost (DTC) initiatives, and cost take-out initiatives. Janos' System Engineers are known for providing an open relationship with our customers and bridging potential gaps between system requirements and production capabilities.



Design Engineering

Janos provides concept through realization services for customers desiring such offerings. The Design Engineering Group utilizes a number of programs including, but not limited to: ZEMAX for conventional optical design, Opticad for non-sequential ray tracing, DIFFSYS for diffractive/binary design, SolidWorks for 2-D and 3-D layout, and CosmosWorks for static and dynamic FEA analysis.

Janos has extensive experience with refractive, reflective, catadioptric, anamorphic, and hyper-spectral optical designs to name a few typical configurations.

Program Management

Janos' Program Managers support customers with complex program needs. A single point interface, detailed scheduling of events, design reviews (both at the optics and the

system levels), Integrated Product Development Teams, and Integrated Production Teams are just a few of the typical communication offerings this group provides.

Markets Served

With broad expertise in IR optics, design, fabrication, assembly and testing, Janos supports a wide range of markets:



Defense

- Missile seeker heads
- Defense systems
- Weapon systems
- IR scene projection
- Unmanned aerial vehicles

Homeland Security

- Law enforcement
- Port and airport surveillance
- Perimeter surveillance (ports, airports, military installations, power plants)
- Search and rescue
- Firefighting

Industrial

Predictive maintenance

Thermography inspection

Aerospace

R&D



www.janostech.com