

Optical Fabrication

IR Exotic Materials



Reynard Corporation has a full service, in-house optical fabrication facility designed to meet your precision optical requirements.

Along with processing popular materials such as borosilicate, fused silica, and colored glass for the UV and VIS, we are intimately experienced working with IR materials, including exotics, crystals, and ceramics.

We specialize in IR optics in the 1 to 16 μ m (SWIR, MWIR & LWIR) spectrums as well as IR exotic materials.

Our CNC mills allow us to shape many custom shapes and sizes to meet your unique specifications for high quality solutions.

From flats and wedges to aspheric lenses, we understand precision optics from fabrication and coating to quality assurance and testing.

Since 1984 we have continuously developed and expanded our in-house optical fabrication facility to meet the demands of custom specifications.

FAB CAPABILITIES:

CNC SHAPING

DIAMOND POINT TURNING

IR and VIS PRISMS

IR OPTICS (1 μ m to 16 μ m SWIR, MWIR & LWIR)

POLISHING (1/20 wave)

GRINDING (1mm to 450mm)

BEVELING (down to a few thousands of an inch)

CORE DRILLING (glass, metals & ceramics)

CUTTING (1mm to 300mm)

EDGING (a few ten thousandths of an inch)

WAFER DICING (automated for precision & accuracy; DPT)

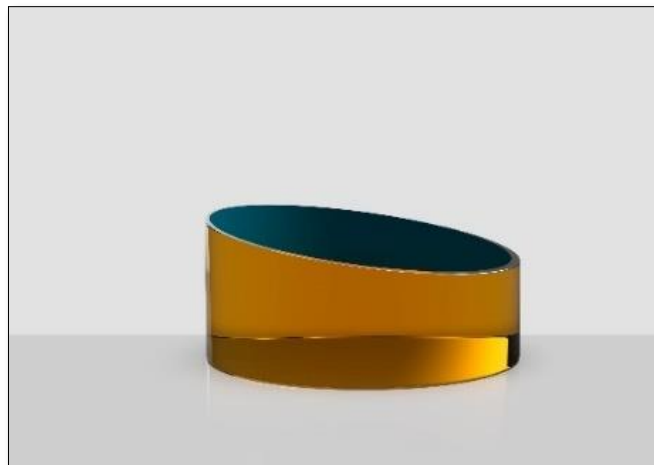
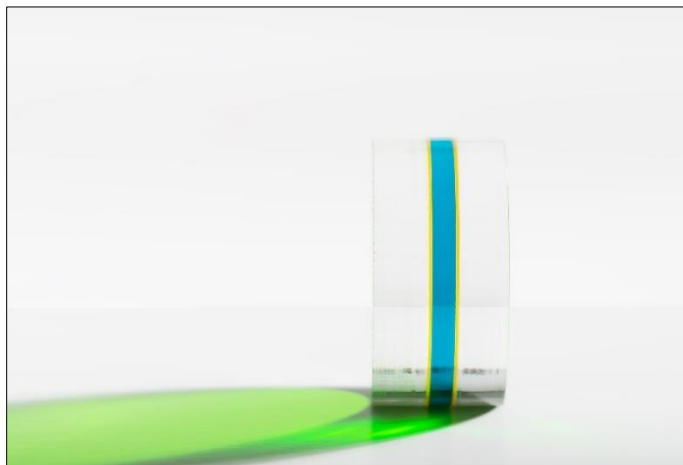
STACKING & BONDING

MINIATURE TO OVER 30" DIA

PRECISION FLATS, PLANO ELLIPTICAL, & SPHERICAL

GENERAL INFORMATION:

- Established in 1984
- Custom built optical coating lab, diamond turning & optical fabrication facility USA
- All design & development work processed in-house
- Build to print optical coating and fabrication
- Prototype to large volumes
- ISO 9001:2015 Certified
- ITAR Registered & Cybersecurity Compliant
- > 20 coating systems & > 20 fabrication machines
- 3 Diamond Point Turning machines
- 150+ years of coating design expertise
- Cage Code: 1EB07 | NAICS: 333314



MATERIALS:

AION	Indium Arsenide (InAs)
AMTIR 1-5	Magnesium Fluoride (MgF2)
Barium Fluoride (BaF2)	Mercury Cadmium Telluride (MCT)
Calcium Fluoride	Metal
Ceramics	Sapphire (Al2O3)
Crystals	Silicon (Si)
Fused Silica (SiO2)	Zinc Selenide (ZnSe)
Gallium Arsenide (GaAs)	Zinc Sulfide (ZnS) / Cleartran
Germanium (Ge)	And more...

GENERAL CAPABILITIES:

- ISO 9001:2015 Certified
- ITAR Registered
- Cybersecurity Compliant
- UV-VIS, NIR, IR, Far IR
- Freeform Optic Design
- Precision Flats, Plano/Plano, Elliptical & Wedge
- Dedicated III-V Processing Area
- Diamond Point Turning
- Full Manufacturing Traceability
- MIL-PRF-13830B
- MIL-C-48497A
- In-House Environmental Testing
- Made in USA

Contact us today to see how we can help YOUR system achieve the high levels of performance!

www.reynardcorp.com

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