REYNARD
PERFECTING YOUR LIGHT™

Custom Optics, Thin-Film Coatings, Diamond Turning, MRF, Fabrication & Photolithography

Reynard possesses the full range of in-house capabilities required to design, fabricate, and qualify state-of-the-art optical coatings for a wide variety of applications. Our precision optics are integrated into high-performance systems engineered to operate reliably under extreme conditions.

We are a leading producer of build-to-print optical components, supported by comprehensive environmental testing and advanced quality inspection equipment. These capabilities allow us to validate the most stringent customer requirements while delivering dependable solutions and consistently high-quality products.

With extensive experience in ultraviolet, visible, infrared, and broadband high-resolution optics, Reynard applies proven expertise to meet even the most demanding technical challenges.

Reynard has been repeatedly selected for critical military programs and has received SBIR awards from the U.S. Navy, Air Force, and Missile Defense Agency in recognition of our advanced technology, manufacturing excellence, and ability to meet rigorous performance standards.

Customers trust Reynard to deliver optical solutions that consistently meet their most demanding specifications.

APPLICATIONS:

- Passive Sensor Protection
- Beam Shaping
- Laser Range Finding
- Spectroscopy
- LIDAR Systems
- Thermal Imaging
- Gas sensing
- Remote Sensing
- Research & Development
- Missile Tracking
- Night Vision
- Agricultural Inspection
- Image Intensifiers
- Laser Range Finding
- Space Programs
- Lighting Systems
- Astronomy
- Healthcare

Through customized thin-film coatings designs, Reynard produces optics precisely optimized for each application. Complete in-house manufacturing enables tight process control, efficient collaboration, and advanced customization capabilities.

GENERAL INFORMATION:

- Established in 1984 by Forrest Reynard
- Custom built optical coating, diamond turning & optical fabrication facilities in San Clemente, CA
- All design & development work processed in-house
- >15 coating systems and >20 fabrication work centers
- 3 and 4 Axis Diamond Point Turning machines
- Cage Code: 1EB07 | NAICS: 333314
- Prototype to large volumes
- Build to print optical coating and fabrication

Capabilities

Perfecting Your Light ™

CUSTOM COATINGS

- UV (~230µm) to LWIR (~20µm)
- Bandpass, Edge (Longpass & Shortpass), Beamsplitters, Dichroic, All-Dielectric High Reflectors, Anti-Reflection, Order Sorting
- Transparent Conductive: ITO
- Metals: Au, Al, Alloys, Cr, Ni, Pt, Ti + more
- Mirrors: Au, Al, Ag, Hybrid (rad hard), Dark Mirror
- Gradients: Circular Variable Neutral Density (CVND), Linear Variable Neutral Density (LVND), Apodizers (Circular and Linear)

DIAMOND TURNING

- Aspheric, Axicon, Cylindrical, Freeform, Reverse Axicons, Spherical + more
- 6mm to 800mm Diameter
- Axis Symmetric and Rotary B-axis Grinding, Polygon Flycutting, Spiral Milling
- Al, CaF2, Chalcogenides, Cu, Ge, InAs, InSb, Ni, ZnS, ZnSe + more!
- Magnetorheological Finishing (MRF)
- Metrology
- QED Q-Flex 100, Nanoforms, LuphoScan 250HD, PGI Freeform Talysurf
- Diffractive Aspheric, Elliptical Surface, Flat Optics, Off-Axis Aspheric, Parabolic Surface, Prism, Torics, Windows

OPTICAL FABRICATION

- Windows, Wedges, Precision Flats
- CNC Shaping, Edging, Grinding and Wafer Dicing
- Dedicated III-V Material Processing Area
- AMTIR, Chalcogenides, Fused Silica, Ge, InAs, InP, N-BK7, Si, ZnS, ZnSe +
- Non-Linear (Binary and Ternary) Semi-Conductor Materials
- Magnetorheological Finishing (MRF)

METALLIZATION

- Busbar Connections
- EMI Shielding
- Solder / Hermetic Seals
- Edge and Surface Coating Capabilities
- Durable: 30 Minute Boiling Water
- Tensile Pull Strength to ≥ 10,000 psi
- 25mm to 200mm

PATTERNED OPTICS

- Pattern Geometries Down to 5µm
- Substrates up to 18” in Diameter
- Multiple Pattern Stacking
- Gapless Patterns – no physical space between adjacent coatings
- Custom Patterns
- Front Surface to Back Surface Pattern Alignment to ≤ 25µm
- Quartz, Ceramics, Certain Plastics, Sapphire, Crystals & Chalcogenides
- Alignment Test Patterns, Heated Windows, EMI Grids, Targets, Bar Codes, Fluorescence Imaging, Scope Crosshairs, Boresights

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