

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



Reynard Corporation has all the facilities necessary to design, fabricate and qualify state of the art coatings for numerous applications. Our precision optics are found in high performance systems that operate under extreme conditions.

We pride ourselves on being a leading producer of build-to-print optical components. Our facility includes environmental testing equipment and state of the art quality inspection equipment to validate the most stringent customer requirements. We offer our customers support, solutions and top-quality products.

Our experience with ultraviolet, visible, infrared, and broad-spectrum highresolution optics will be applied to meet your most demanding requirements.

Reynard Corporation has been repeatedly selected to perform on various military programs and has been awarded SBIR's by the Navy, Air Force, and Missile Defense Agency due to our technology, manufacturing expertise and the ability meet stringent requirements.

Companies have put their trust in Reynard Corporation knowing that they will get their demanding specifications met.

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

By customizing your thin-film coating needs, Reynard Corporation can realize the ideal optic for your application. All manufacturing is done in-house for improved quality, ease of communication and innovative customization.

GENERAL INFORMATION:

- Established in 1984 by Forrest Reynard
- Custom built optical coating, diamond turning & fabrication facilities in San Clemente, California
- 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

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ISO 9001:2015 • ITAR • Cybersecurity (CMMC)

Capabilities

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
- Axis Symmetric and Rotary B-axis Grinding, Polygon Flycutting, Spiral Milling ٠
- Al, CaF2, Chalcogenides, Cu, Ge, InAs, InSb, Ni, ZnS, ZnSe + more!
- Magnetorheological Finishing (MRF)
- Metrology ٠
- 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



PATTERNED OPTICS



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- 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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- **Busbar Connections** •
- EMI Shielding
- Solder / Hermetic Seals
- Edge and Surface Coating Capabilities
- Durable: 30 Minute Boiling Water
- Tensile Pull Strength to \geq 10,000 psi ٠