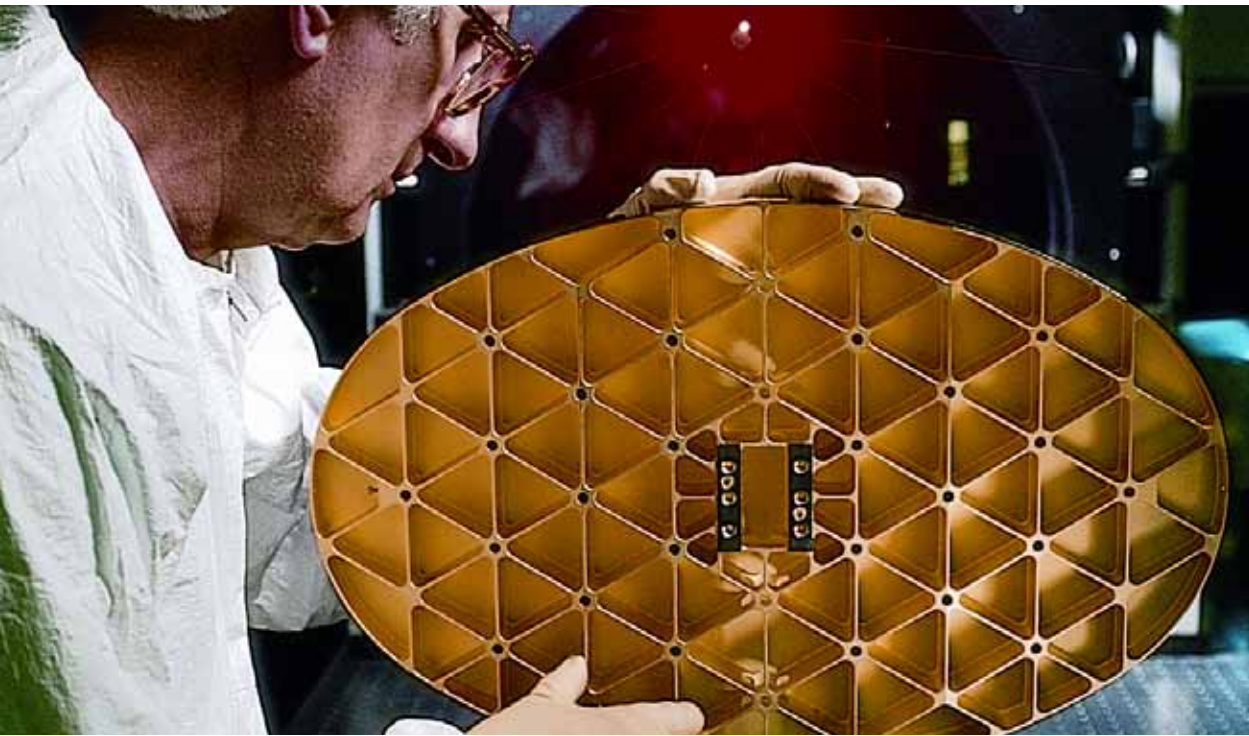


*Clarity. Accuracy. Reliability.*



### Design Engineering

- Optical surface design to meet customer prescription requirements or manufacturing optimization
- Optical mechanical design
- Manufacturing process development for exotic materials, coatings and assembly
- Finite element and optical design analysis
- Fast Steering Mirrors
- Collimators
- Telescopes up to 1.5 meters
- Spectrometers

## Precision Metal Optics

General Dynamics designs and manufactures custom precision metal optical components and optical assemblies for commercial, defense and space-based applications.

We provide end-to-end design, fabrication and testing of beryllium and aluminum optics ranging from single- and multi-faceted scan mirrors to plano and aspheric mirrors to complex telescope assemblies.

General Dynamics Global Imaging Technologies designs and manufactures a full portfolio of high-performance electro-optical/infrared (EO/IR) systems and components that provide our customers the clarity, accuracy and reliability to successfully complete their mission.

# Precision Metal Optics

## MANUFACTURING

Substrate fabrication, including turning, milling and electrical discharge machining (EDM) for surface geometries and light-weighting

Optical finish

Single point computer numerically-controlled (CNC) diamond turning

Machine lapping and grinding

Conventional polish

## ASSEMBLY

Prototype development

Laminar flow booth assembly stations

NASA-qualified electronics chassis build-up

## QUALITY ASSURANCE AND METROLOGY

Interferometric and electronic testing

Static and in-situ metrology

## PRODUCT SPECIFICATIONS

Scan Mirrors	Single- and multi-facet Nickle (Ni) plated Beryllium (Be) and Aluminum (Al) Dynamic distortion compensation 1-2 arc second apex angle error Low scatter polish
Plano Mirrors	Up to 30" diameter Rectangular, elliptical, circular 1/12 wave irregularity Low scatter polish 15Å RMS 20/10 scratch dig Temperature testing capabilities
Aspherics	Up to 24" diameter Conics and generalized aspheres 1/10 wave irregularity 25Å RMS 40/20 scratch dig
Assemblies	Telescopes Collimators Roof – mirror assemblies Spectrometers Forward looking infrared systems Fast Steering Mirrors



General Dynamics has proven capability to design, manufacture, polish and integrate optical components and assemblies up to 1.5 meters in diameter.



Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice. Export is subject to U.S. Government regulations.



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