

Clarity. Accuracy. Reliability.



Applications

- Satellite Components
- Inertial Navigation Components
- Optical Benches
- Infrared Seekers
- Nuclear Reactors
- Strategic and Tactical Weapons

Milling Capabilities

General Dynamics provides milling capabilities to produce precise, light-weight structures from high-performance materials including Beryllium and its alloys, Titanium, Aluminum, Quartz, machineable glass, Inconel, Magnesium and other exotic and conventional materials.

With more than 50 years of expertise and state-of-the-art turning equipment, we are able to achieve virtually unmatched tolerances.

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.

Milling Capabilities

LIGHTWEIGHTING

2-piece, lightweighted, brazed, closed-back beryllium mirror substrate (18" x 22") for use on a remote sensing satellite

One meter class diameter, light-weighted mirror substrates used on both land-based and space telescopes

Lightweighted E-20 beryllium alloy electronics chassis for use on a commercial communication satellite

THIN WALLS

3' x 4' lightweighted beryllium panels for satellite optical bench with wall thickness of .080"

18" x 22" lightweighted beryllium scan mirror with wall thickness of .025"

Aluminum-beryllium large satellite heatsinks for heat dissipation with wall thickness of .025"

MACHINE "HOGOUT"

77 lb. beryllium billet machined to 8% of original weight maintaining intricately detailed features

762 lb. beryllium billet machined to 9% of original weight with a honeycomb geometric thin-walled isogrid

Aluminum removal rate of 1/2" deep by 1/4" wide at 160 inches per minute turning 7,800 RPM with a single flute, 1" diameter inserted cutter

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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