

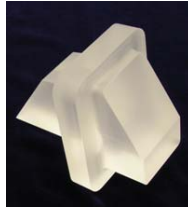


## Precision Optical Blanks

CiDRA® Precision Services, LLC manufactures precision machined optical blanks for prisms, lenses, mirrors and filters. We specialize in complex forms machined to tight tolerances, and have the metrology necessary to ensure customer requirements are met. If your design is challenging, your tolerances tight and your requirements for quality uncompromising, CiDRA® Precision Services, LLC is the partner for you.

### Micron Precision Machining

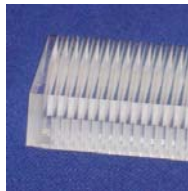
- Precision Machining of Complex Components
- Bevels, Angles, Grooves, Holes and Curves
- Proprietary Grinding and Dicing
- Years of Experience and Know-how
- Prototypes to Volume Production
- Aggressive Customer Focus
- Rapid Order Fulfillment
- Uncompromising Quality



### Materials

We manufacture optical blanks from optical and technical glasses, and hard crystalline materials, including:

- BK7
- Borosilicate
- Fused Silica and Quartz
- Infrared Transmitting Glass
- Filter Glass
- ULE Glass®
- Zerodur®
- Sapphire and Ruby
- Calcium Fluoride



### Capabilities

- High Speed Multi-axis CNC Milling
- Slicing and Dicing
- Centerless Grinding
- Surface Grinding and Edging
- Hole and Core Drilling
- Small and Large blanks

### Applications

Blanks manufactured in our facilities are used in mission critical systems for

- Avionics
- Astronomy
- Photolithography
- Medical Imaging
- Biotechnology
- Telecommunications

### Ensuring Quality

We maintain the state of the art quality assurance measurement tools to guarantee customer's requirements are met.

- OGP Smart Scopes
- Zygo interferometers
- Optical Comparators
- Laser Micrometers

### Specifications

Parameter	Specification
Milling Length Tolerances	+/-25um
Surface Roughness	0.2 um (8 uin) Ra
Grinding & Dicing Tolerances	+/-5um
Flatness	10um/10cm
Hole Diameters	0.5um to >5cm
Min Size	5mm c 5 mm x 5mm
Max Size	35cm x 35cm x 35cm

For more information about CiDRA® Precision Services, LLC and to discuss your application, contact Customer Services at (203) 774-4422.