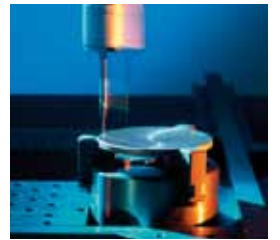
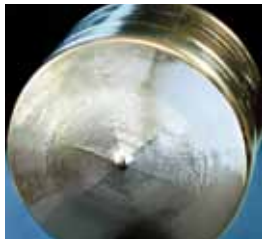


ENABLING INFRARED OPTICS



Precision blanks made from Germanium and Silicon

Photonic Sense – The IR Germanium and Silicon company



01



02



03

Photonic Sense is one of the distinctive companies in the world exclusively dedicated to manufacturing precision optical components for infrared applications made from **Germanium** and **Silicon**.

The company's 3,600 square meter, high-tech facility offers state-of-the-art capabilities for growing large monocrystals and CNC-driven manufacturing processes for prototype and high volume infrared optics.

Our advanced technology and equipment in production and inspection as well as the proven excellence of our employees guarantee consistent and cost-effective processes and high quality product.

As a reliable and flexible partner, we help our customers to increase their production efficiency with short lead times, support of Kanban supply principles and near-net shape blanks to save manufacturing costs.

Our worldwide customers are market leaders in their segments for infrared spectral range applications in the Defense and Security, Health Care and Life Science, Automotive, Laser Material Processing, Optical Measurement and Machine Vision industry.

Photonic Sense was established in 2003.

Today, as part of Jenoptik, an integrated optoelectronics group, Photonic Sense offers customers the benefit of company wide synergies and the security of their investment.



- 01
CNC precision shaping and grinding
- 02
CNC precision lens grinding
- 03
Quality inspection and measurement
- 04
Czochralski crystal growing pullers

04

Photonic Sense – Your Success in Infrared Optics

Photonic Sense provides the complete value-added chain of infrared optical components with tightly controlled material and manufacturing specifications.

The company has the technology to produce material to customer specific requirements and to machine the most complex parts with exacting tolerances and different surface finish options including ready to polish.

Photonic Sense is dedicated to manufacturing precision optical blanks made from Germanium and Silicon – standard diameter up to 330 mm.

- Crystal growing
- Ingots processing
- Rounding crystals
- Near-net-shape dimensions
- Coring
- Slicing
- Grinding / edging / chamfering
- Lapping
- Generating of surface finishes: standard, fine, superfine
- Polishing / coating (upon request)
- Cleaning
- Inspection and quality management



04



05

Products made from Germanium and Silicon ...

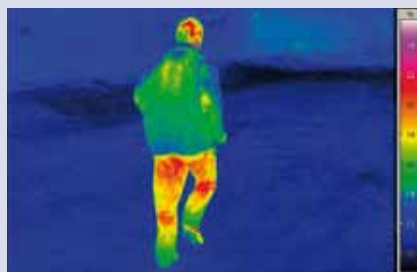
Window blanks
Mirror blanks
Filter blanks
Prism blanks
Beamsplitter blanks
Lens blanks
Dome blanks
Rods
Disks
Sputtering targets
Evaporation granules

... ready for your Applications

Thermal imaging
Night vision
Thermal measuring systems
Industrial monitoring systems
Safety and health
Medical systems
Law enforcement
Fire protection
Thermography
Laser systems
Sensor systems



06



07

- 04 Silicon ingot
- 05 Germanium ingot
- 06 Optical blanks
- 07 Thermography application

Photonic Sense, Inc. is ITAR registered and compliant.
The company works under the terms of an approved TAA.
All manufacturing processes conform to ISO, ANSI and DIN standards.

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