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High Precision Machining of Hard Materials

Since 1947 Insaco has been a precision machining and polishing fabricator of parts from all **technical ceramics, sapphire, glass and quartz**. We machine these materials to **very precise tolerances** (many times measured in millionths of an inch) for dimension, flatness, wedge and roundness or cylindricity. Our customers typically have a critical application that requires extremely tight tolerances in ultra-hard materials. We also have the capability to **grind and polish** spherical radius parts in a variety of hard materials, both inside and outside diameters, to optical requirements.

Insaco's features include:

- **Extremely high accuracy and tight tolerance machining**
- Lights-out manufacturing
- Machine automation including large capacity envelope
- Automated centerless grinding
- High efficiency/low cost volume production
- Low-volume prototype machining
- 5-axis machining capability
- ITAR compliant
- High-volume robotic machining
- Video inspection and a Class 100 Cleanroom
- Extensive Quality Control protocols
- Sapphire tubes and polishing

Insaco also has extensive inspection and documentation procedures so **parts are always to print**. With a seasoned team of engineers and machine operators we are available to discuss your **application** needs including alternative materials and cost drivers. [Click here to find out more about our company and our people](#). When you need custom ceramics grinding based in the USA, give us a call!



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High Precision Machining of Hard Materials Including Sapphire, Alumina Ceramics, Quartz, Glass Ceramics, Carbides, and Nitrides.

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