

Ultra Hard Material Capabilities

With expertise honed for more than a century, Sapphire Engineering™ is the world expert in processing ultrahard materials, such as sapphire, ruby, and ceramics — including alumina and zirconia variants.

Materials

- ▶ Sapphire
- ▶ Ruby
- ▶ Alumina Ceramic, Zirconia Ceramic
- ▶ Other materials available upon request

Capabilities

- ▶ Tolerances as low as 0.00001" (0.254µm)
- ▶ Surface finishes down to 0.25 microinch (Ra)
- ▶ OD Lapping and Centerless Grinding
- ▶ ID Honing
- ▶ End Grinding
- ▶ Flat Lapping/Polishing
- ▶ Plus numerous other proprietary process methods

Services

- ▶ Design/concurrent engineering with CAD/CAM data transfer, including all popular file formats
- ▶ Materials selection assistance
- ▶ Quick turnaround on production and R&D parts
- ▶ Prototype runs available for preproduction validation
- ▶ Low volume production available
- ▶ Ultrasonic cleaning
- ▶ Custom packaging and labeling

For more information on our expertise with ultrahard materials, please contact Sapphire Engineering™ or your local OEM Representative.



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