



POLISHING SLURRY & PADS

Hyprez polishing slurries & pads are customized to the type of sapphire being polished and are available in a variety of configurations to suit your needs.



POLYCRYSTALLINE DIAMOND COMPOUND

HYPREZ L Compound using polycrystalline diamond helps achieve high surface quality on sapphire domes and other 3D shapes. Diamond sizes from 50 nm - 30 microns available.



CONTACT US
105 West Hintz Road
Wheeling, Illinois 60090
847-808-9400
info@engis.com
www.engis.com



SAPPHIRE & PRECISION OPTICS

COMPLETE LAPPING & POLISHING SOLUTIONS

- Reduce Costs
- Reduce Processing Time
- Improve Surface Quality
- Improve Flatness

HVG SERIES PRECISION GRINDING MACHINES

HVG Series Precision Grinding Machines and grinding wheels offer a first step process to remove damage from slicing, improve flatness, and to reach your desired thickness while improving surface quality. The HVG Series offers a compact design, robust build, and advanced PLC controls and monitoring functions.

OPTIONS

- Max. substrate size: up to 300 mm
- Wheel dressings: manual or auto
- Substrate thickness measurement & control
- Wheel load monitoring control



FASTLAP MACHINES

LAPPING/POLISHING

The durable design offers versatility for challenging applications like sapphire. These machines are configured for either lapping or polishing, using pneumatic pressure control for high throughput. Suited for use with HYPREZ composite plates, polishing pads, diamond, and nondiamond slurries.

OPTIONS

- Max. substrate size up to 430 mm
- Configuration for either lapping or polishing
- Lap Plate Flatness control Facing or plated conditioning ring
- Lap plate temperature control
- Advanced control features: substrate thickness, temperature, and torque.

ADVANCED CONSUMABLES FOR SAPPHIRE

DIAMOND LAPPING SLURRY

Our precision graded slurries are available in either water soluble or oil based suspensions. For sapphire, polycrystalline diamond will provide maximum efficiency and excellent surface finishes.

COMPOSITE LAP PLATES

HYPREZ composite plates are an economical alternative to solid metal plates for efficient sapphire lapping, especially when utilizing Engis facing technology.

C250 Lap Plate

This composite copper lap plate provides high stock removal and is suited for diamond sizes from 3-15 microns for first step lapping.

TX-10A Lap Plate

This tin composite plate is ideal for second step of lapping to achieve an optical quality finish or to minimize subsequent pad polishing times.

