Since 1975, the industry leader in precision lapping and polishing of materials for microelectronics, electro-optics, photonics, semiconductors and other applications that require general precision parts from geometries ranging from a few millimeters to several feet in dimension.
• ISO 9001:2000 Certified Manufacturer of Substrates, Windows, Wafers, Flat Optics, Chucks and other Components
• High-End, Precision Lapping, Polishing, DISCO Backgrinding, Blanchard and Surface Grinding, CNC Dicing, CMP Polishing, and Ultra-Sonic Hole Drilling
• Over 30 Years Experience, All Processing Performed In-House
• Advanced R&D Lab
  Metrology Capabilities
  including WYKO Optical Interferometer and Laser Profilometer
• Routinely processing parts ranging from .005" square up to 48"
• East and West Coast facilities for prototype to production projects

Ultra-Thin  Ultra-Flat  Super Polishing

< 25μm  1/10 Wave  < 5A

Tight Tolerances  ± 0.5μm

**Services**

Precision Lapping, Polishing, Dicing
Die, Module & Bonded Wafer Thinning / CMP
O.D. / I.D. Polishing
Wafering
Optical Edge/ Angle Polishing
Slicing
Ultra-Sonic Hole Drilling
Large Geometry Lapping & Polishing up to 48"
Dicing as small as .005" sq.

**Materials**

Fused Silica & Quartz
Optical Glasses of all types
Aluminum Nitride, 96% & 99.6% Al₂O₃ Ceramics
Aluminum, Copper Stainless Steel and Titanium mirrors and wafers
Sapphire
Color Filter Glasses
Ge, GaAs, LiNbO₃, LiF, InP, ZnSe, ZnS, PZT, PLZT, Si, SiC
MANY MATERIALS IN STOCK

**Applications**

Substrates, Windows, Wafers, Flat Optics
Electrostatic, Wafer and Vacuum Chucks
Glass Rods/ Spacers
Witness Samples
SEMI Standard Dummy Wafers
Waveguides, Beamsplitters, Polarizers, Lenses, Filters, Prisms, Wedges
Thin Film Circuits, Satellite Products, MEMS and Nano-technology Devices

On-line Stock List
[www.valleydesign.com/stockpage.htm](http://www.valleydesign.com/stockpage.htm)

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