

Diamond Turning

Lightwave Enterprises, Inc. – Rapid Diamond Turning Services

Lightwave provides full service manufacturing of diamond turned parts to your specifications at our facility in New York state using our single point diamond turning system. We do not farm out our projects to other manufacturers, so you can be sure you are receiving the personalized service you desire and the project confidentiality you deserve.

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To submit your SPECIFICATIONS or DRAWINGS today.

Lightwave Enterprises Specializes in Single Point Diamond Turning

Lightwave uses Single Point Diamond Turning (SPDT) processes to rapidly prototype and to produce limited runs of extremely precise:

- • Spheres
- • Aspheres
- • Parabolic Mirrors
- • Cylinders
- • Conics
- • Plano Optics and Assemblies

- • Simple Toroids for New & Existing Programs.

The Moore Nanotechnology Systems 350 Ultra Precision Lathe that LEI uses is one of the most accurate lathes available today. With machine resolution of 0.4μ " (10nm) coupled with on-board profilometry, the lathe enables Lightwave technicians to generate and verify optical surfaces with surface and form accuracies to the sub-micron level and surface roughness measured down to the angstrom level.

Perfect for Prototyping and Limited Runs

Diamond Turning is the perfect solution to address the high expenses of prototype tooling. Our Diamond Turning services will save you time and development costs because plastic optical designs can be created on our Diamond Turning System without the added first step of creating an expensive injection mold.

Diamond Turning is also well suited for the manufacture of precision plastic optics in limited quantities.

Speeds up Research and Development of new product innovations

Diamond Turning also enables Lightwave to deliver production tooling with much shorter lead times than usually experienced in the marketplace. Whether it is single cavity developmental tooling or multi-cavity production tools, Lightwave can provide our customers with quick turnaround and cost-effective solutions.

By utilizing our Precision Single Point Diamond Turning services, plastic optics designs can be produced and tested without the time consuming first step of creating an injection mold.

Diamond Turning also enables Lightwave to deliver production tooling with much shorter lead times than those usually encountered in the marketplace.

Our plant is located in the United States of America and is staffed by engineering specialists and plant workers who genuinely care about your project. We strive for the highest level of customer service. Give us a call or Contact us today for a quote!

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