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G-S Plastic Optics Expands Capabilities with New Single Point Diamond Turning Machine

(May 24, 2017) Rochester, NY – [G-S Plastic Optics](#) works with program leaders on complex optical challenges by providing polymer optics designed specifically for improving our customers' market share and competitiveness. We announce today that we have installed a new single point diamond turning (SPDT) machine at our Rochester, NY facility. This additional machine enables the expertise of our technologists to expand our capability to rapidly manufacture large departure freeform optics.

As our business continues to grow, we strengthen our niche in manufacturing highly toleranced polymer optics—many of which have geometries posing a challenge to traditional optical molding. By integrating a diamond turning machine with the latest technology into our existing lab we will be able to:

- Reduce the lead-time to complete prototypes, and to produce the optical inserts for the molds.
- Use the full X-axis travel to cut larger parts than before, and to cut high slope diffractives thanks to the new B-axis.
- Measure mechanical features to ensure proper alignment between datums and the optical coordinate system.
- Reduce part to part variation with a new HS 150 spindle, which provides for 5x improvement in thermal stability.
- Reduce sensitivity to vibration with the dual frame design with TMC MaxDamp® isolation.
- Achieve better surface finishes on freeform surfaces using the 16 picometer feedback resolution on the X- and Z-axis.

Andy Germanow, CEO of the company, commented, "Our recent integration will allow us to maintain a cost competitive solution for our customers. We strive to retain complete internal control over surface finish and irregularity and the process to achieve the best results, and to continue to increase the scope of the types of tooling we can support by controlling the entire optical insert process."

Our dedicated team of engineers and technologists, working with the most up-to-date equipment, look forward to creating polymer optics that will help to increase our customers' market share and competitiveness.

About G-S PLASTIC OPTICS

G-S Plastic Optics specializes in the custom manufacture of precision polymer optics for use in imaging, scanning, detection, and LED illumination system applications worldwide. The company, located in Rochester, NY and founded in 1916, produces injection molded aspheric and freeform lenses, and mirrors, as well as Fresnel and diffractive optics. In addition, the company has in-house capability to provide custom designed diamond turned and injection molded prototypes, thin film and reflective coatings, and integrated optical solutions to meet a wide range of military, medical, commercial, and consumer markets. G-S Plastic Optics is registered with the Directorate of Defense Trade Controls (DDTC) as a manufacturer of defense articles.

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