



GLE1000: CAPABILITY

GLE manufactures cylindrical plug and ring gages, drill bushings, tool blanks, rod, tubing and special details to customer specifications such as punches and dies, electronic wear parts, can tooling, compacting tooling, etc. We specialize in carbide and ceramic materials, but also work with other hard materials.

GLE combines over 50 years' experience and skill in grinding and lapping tungsten carbide, ceramic and other hard materials with a fully equipped facility, which enables GLE to serve almost every segment of the metalworking industry with distinction and pride.

An excellent reputation has been established in all major industries because of unique and highly versatile capabilities for an almost infinite range of work in small or large quantity production. Conventional and micro-carbide details have been produced to the most exacting specifications to resolve problems for manufacturers throughout the United States, Europe and Asia.

GLE products include:

- Cylindrical Gages, Plug and Ring
- Progressive Gages, Plug and Ring (2, 3, 4 or more steps)
- Master Setting Discs
- Punches and Dies
- Drill Bushings, both Standard and Special
- Circuit Board Drill Bushings to Customer Prints
- Can Tooling
- Compacting Tooling
- Electronic Wear Products
- Precision Ground Carbide Blanks for End Mills, Burrs and Drills
- Precision Ground Carbide Rod and Tubing

Our traditional range in work size and precision is as follows:

Internal and External Diameters	.005" (.127mm) to 6.000" (152.4mm)
Wall Thickness to	.0015" (.0381mm)
Tolerances to	.000010" (.000254mm)
Concentricity to	.000010" (.000254mm)
Surface Finish to	1 microinch (.0254 microns)
Lengths to	18" (457.2mm)
Flatness and Parallelism to	Blueprint Specs

Our manufacturing facility includes drilling, milling, turning, centerless, OD, ID, and surface grinding, honing and lapping, brazing and electrical discharge machining-automated to handle both high and low volume work for maximum efficiency. In-process inspection procedures on the production floor assure that each operation is performed to specified tolerances while the systematic calibration of "working masters" in our quality control laboratory guarantees their integrity. Statistical Process Control is fully implemented for internal control and to meet customer requirements.