



Core Competencies

IRD Glass specializes in the manufacture of precision optical and technical glass and ceramic components made from a wide range of raw materials. IRD excels at holding precision tolerances to help their customers solve problems resulting from excessive variation. Due to their sincere partnership business style, IRD has become the sole-source provider to large and small corporations across the globe. IRD services the laser, sensors, medical, machine vision, defense, aerospace and process industries, among others.



Custom Laser OEM Optics IRD currently manufactures custom laser reflectors, cylindrical lenses, rod lenses and precision mirrors in custom shapes and sizes, using metrology and proprietary polishing equipment and processes to ensure a precise surface finish.



Precision Tubes, Pedestals and Rods IRD currently manufactures multiple sizes of precision glass tubes and pedestals for the pressure transducer and sensor industries, along with other applications. They also manufacture high-precision glass and ceramic rods used as tooling, spacers or masks.



Flat Optics IRD manufactures laser mirrors, prisms, flats, certified optical wedges, optical filters, diffusers, vacuum plates and precision windows for many applications. They also make patterned masks and chrome on glass reticles.



Spherical Optics Precision spherical and aspherical optics are manufactured by qualified IRD Glass partners in a full range of sizes, from micro-optics to 6" diameters.



Additional Services Numerous value-adding services are provided for the optical and technical glass industries, including simple and complex optical assemblies, custom thin-film coatings, laser damage and mirror coatings and quick prototype turnaround times.

Technical Glass IRD Glass manufactures many different sizes and shapes of ultra-precise non-optical components using a variety of grinding equipment, including CNC mills, CNC saws, CNC dicing machines and CNC waterjets.

Metrology Equipment IRD Glass incorporates an OGP vision system, Nikon autocollimator, Zygo NewView system, Wyco laser interferometer with computer-generated holographic cylinder nulls, a Nemarski polarizing scope and toolmaker's scopes among their many inspection tool options.

Additional Materials As well as working with virtually all optical glass, IRD works with a number of non-glass materials. From the machining and polishing of Spinel, to a precision stainless steel polishing process, ceramics machining and polishing, and even polishing acrylic, IRD is always ready to partner with you with any project, and be with you every step of the way.

ISO 9001:2008 Certified

