

Custom & OEM Glass Manufacturing



Core Competencies

- Precision Glass Forming
- Precision Grinding & Cutting
- Glass Blowing
- Glass Tooling & Forming
- Marking & Decoration

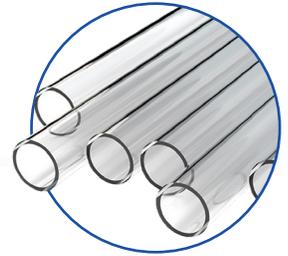
Whether you need a custom glass part for an instrument, precision glass tubing, or electronic components with glass-to-metal seals, successful glass manufacturing often comes down to the details. ATS Scientific Products Wilmad leads the industry in glass engineering expertise and has been a trusted partner for OEM glass production for over 84 years.

Product Expertise

- Bioreactors
- Penetrometers
- Dissolution Vessels
- Precision Bore Tubing
- Flowmeter Tubes
- Syringe Barrels
- GC Liners
- Glass to Metal Seals
- Flow Cells & Cuvettes

Precision Glass Forming

- Capillary, round, multi-bore, rectangular and square tubing
- I.D. tolerances of up to +/- 0.0002"
- Vertical and horizontal shrinking with precise control of any diameter tube up to 6"
- Ability to maintain rigorous length and perpendicularity tolerances



Precision Grinding & Cutting

- Concentric and centerless grinding with O.D. precision of up to +/- 0.0002"
- Includes end finishing or cut and fire polish



Glass Blowing

Our skilled glassblowers can shape almost anything, either freehand or on lathes

LATHE FABRICATION

- Small bore precision forming to large apparatus
- Graded Sealing:
 - Glass to glass
 - Glass to quartz
 - Glass to metal

LAMP WORKING

- Precision hand sealing of components

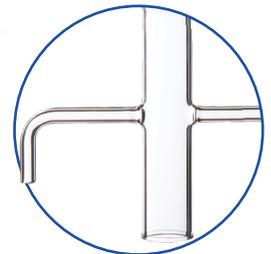
GLASS REPAIR

- Rework large or bespoke assemblies efficiently



Glass Tooling & Forming

- Production of full apparatus, joints and flanges from tubes and rods
- Vacuum silvering
- Forming glass-to-metal seals
 - Tungsten, stainless steel & platinum
- Ultra-high vacuum glass jacketing



Marking & Decoration

- Graduated marking by etching and silk screening
 - Labware is calibrated in a temperature controlled environment and then permanently marked
- Decal application, including sequential barcoding



Materials Available

- Borosilicate glass, Quartz, Suprasil*, and other glass materials

Contact ATS Scientific Products Wilmad at the outset of your design process. Our glass experts can assist with design and prototyping of glass parts from initial design to commercial launch. To start the conversation, contact cs@scientificproducts.com.