

Astraglass Innovations

Empowering Research, Shaping The Future



Unlocking the Potential of Scientific Glassware

Innovation – Transformation – Customization

- Chemistry & Process Glassware
- Biotech & Life Sciences
- Precision Glassware & Components

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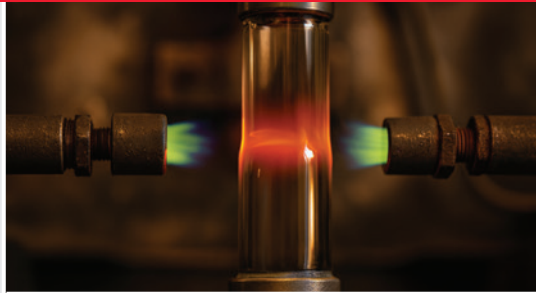


Astraglass Innovations is a **US-based manufacturer** of Scientific Glassware and Quartz products. We provide a comprehensive range of glassware for Life Sciences, Environmental, Petrochemical Analysis and Analytical applications as well as Custom Fabrication Solutions. We meet our customers' expectations because of our open communication and collaboration to deliver value while maintaining quality. Our Innovation and expertise of science, markets and applications result in our ability to offer products and services designed to meet your unique requirements.



CAPABILITIES

- Vacuum Shrink
- Auto-lathe
- Glassblowing & Tooling
- Grinding & Cutting
- Lamp Working
- Class A Volumetric Calibration, Silk Screening and Decoration



We specialize in
Glass Customization •
Modification • Repair

QUALITY STATEMENT

As an ISO 9001:2015 certified company, we adhere to strict quality management practices that govern every aspect of our operations. This certification reflects our dedication to continuous improvement and our focus on providing products and services that consistently meet or exceed customer requirements.



Chemistry & Process Glassware



Astraglass innovation, glassware is designed for high-performance applications in research and development, analytical analysis, and process production. Material selection and quality manufacturing ensure, strength and stability, excellent optical properties, superior resistance to chemicals, contaminants, and drastic changes in temperature. The finished product is optimized for functionality and seamless integration into laboratory workflows.

- Distillation systems
- Chem Reactors
- Condensers
- Chromatography
- Micro Scale Applications
- Pressure Reaction Vessels
- Porcelain Labware
- Standard Laboratory Glassware
- Vials



Biotechnology & Life Sciences



Astraglass innovation specialized glassware is designed for biotechnology, pharmaceutical, and life science applications. The portfolio includes solutions for cell culture, fermentation, and advanced bioprocesses, all produced to exact specifications for durability and consistency. Each piece is engineered to withstand demanding laboratory conditions and to support seamless scalability from research through pilot-scale production.

- Fernbach, Erlenmeyer, and Shake Flasks
- Spinner Flask Assemblies
- Bioreactors and Fermenter Vessels
- Headplates and Accessories for Spinner Flasks
- Cryogenic Glassware
- Control systems with customized modules to simplify lab workflows
- Culture Tubes, Vials, and Closures
- Media Bottles and Carboys
- Single-Use Cell Culture Solutions
- Porcelain Labware
- Standard Laboratory Glassware



Precision Glassware & Components



Astraglass Innovation specializes in manufacturing high-tolerance glass and quartz consumables supplied for OEM instruments. Each component is produced to exact specifications per customer drawings, ensuring consistency and reliability. Applications range from He-Ne lasers to complex assemblies supporting research, testing, and production environments.

- Glass to Metal Seals
- He-Ne, CO₂ Laser Components
- Glass, Quartz, and Sapphire Viewport Window
- Flow Meter Tubes and Syringe Barrels
- Dissolution Vessels and Tissue Cells
- OEM Glass and Quartz Components



Verify. Monitor. Document.

PATENT PENDING

A modern, fully digital bioprocess platform that connects physical asset verification, live process monitoring, and audit-ready records in one workflow.

Catch problems before start

Unverified assets, missed calibration, and incomplete setup surface later as deviations. STRYDE confirms readiness up front, before the run begins.

One digital record, start to finish

STRYDE verifies the setup, monitors the run with automated control, and locks an e-signed batch record, before, during, and after every batch.

Three phases. One unbroken record.

✓ VERIFY

- Patent-pending QR identity gating binds physical assets to the run
- Probe calibration and pressure readiness confirmed before start
- Gated preflight checks stop incomplete setup from reaching Start Run

● MONITOR

- Live trends for pH, DO, temperature, agitation, pressure, and batch status
- Automated gas control holds DO and pH without operator babysitting
- Live camera view and foam detection with automated response

■ DOCUMENT

- Samples, operator actions, alarms, setpoint changes, and asset IDs linked to the batch
- Electronic batch record with e-signature, record lock, and PDF export
- 21 CFR Part 11-ready architecture with role-based access and audit trail



Operator-guided setup and run control at the benchtop.



Real-time process trends with setpoint and tolerance bands.



Live camera view with automated foam detection.

What makes STRYDE different

- A modern, digital workflow that replaces paper and orphaned spreadsheets
- Automated gas control that holds DO and pH
- Glass and single-use vessels on one QR identity workflow
- Built by Astraglass, a vessel manufacturer with real benchtop experience

Ready to see it live? Schedule a 20-minute walkthrough, request a beta pilot, or discuss your use case.