



# G & G TECHNOLOGIES

## Products and Services Overview

G&G Technologies is an Original Equipment Manufacturer servicing companies in the life sciences and other industries. We specialize in the design and manufacture of custom Process Skids and Sanitary Equipment, from conception, to design, to manufacture. We have a proven track record with over 20 years of experience in North America, Europe and Asia.

### Design and Fabrication

- Single-Use Systems
- Stainless Steel Skids and Fabrication
- CIP Systems
- Filtration Systems
- Tangential Flow Filtration Systems
- Temperature Control Modules
- HPLC Systems
- Flowmeter Calibration Systems
- Fermentation Systems
- Bioreactors
- Process and Storage Tanks
- Conveyance Systems

### Process Development Services

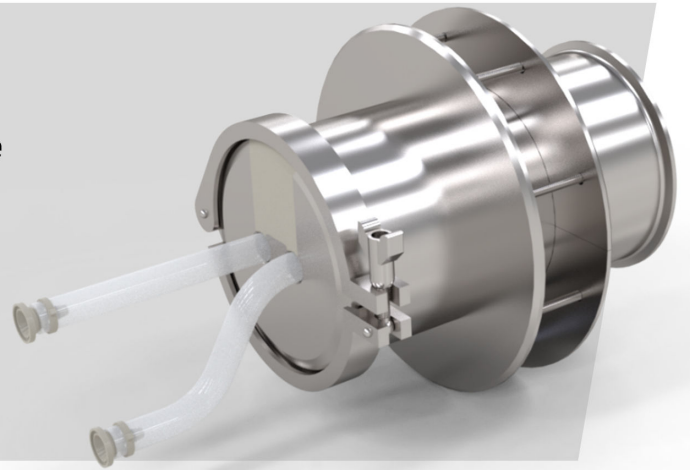
- Process Development
- Technology Transfer
- Scale Up
- Optimization
- Trouble Shooting
- Component and Instrumentation Evaluations
- Component Redesign
- New & Used Equipment Recommendations
- cGMP Audits and Training
- Facilities and Equipment Validation
- Biosafety Consulting
- Standard Operating Procedures
- Joint Venture Facilitation



# Standard Product Offerings

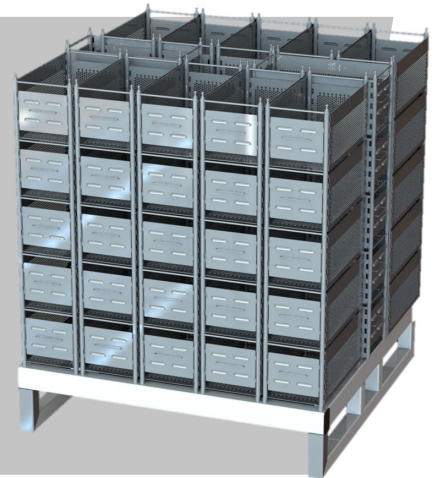
## Pass-Through Windows

Pass-Through Windows allow tubes or cables to be routed from one room to another while minimizing the transfer of air between the rooms. Designs are modular and made-to-order and are available for various diameters and quantities of tubes. We can accommodate any wall thickness and fire rated options are available.



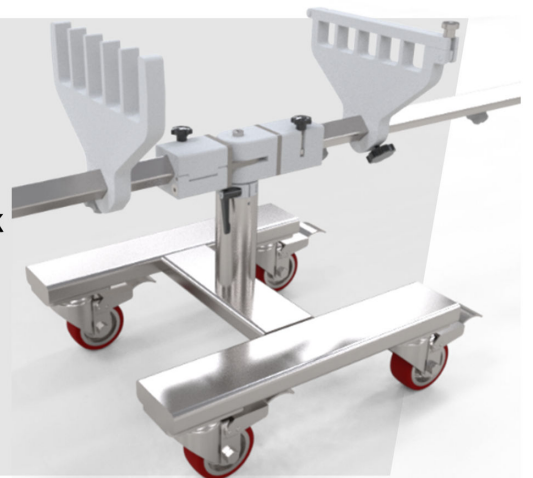
## Stackable Trays for Automated Conveyance

Stainless-steel or plastic trays fabricated with automation in mind. Tight tolerances and locating features make our trays reliable in use with automated conveyance systems and palletizers. Trays may be installed with front and rear loading doors which can be detachable or integral to the trays. Trays can be made to any shape or size to suit an array of needs.



## Tubing Management Racks and Stands

Stainless-steel stands with removeable tube guides allow you to neatly route tubing around your facility. The tube guides are quick to install and move. Tube racks with clamping bars prevent tubing from uncurling. Stands are telescopic and pivot to allow you to maneuver your tube routes and pitch them for draining.



# Engineered-to-Order Systems

## Single-Use Systems and Totes

Flexible systems for a broad range of activities including sterile filtration, bioburden reduction, depth filtration, virus filtration, media and buffer preparation, membrane chromatography, tangential flow filtration, virus inactivation, lipid-nanoparticle mixing, final formulation, and filling. Totes can perform temperature control, mixing, pH Adjustment, and weighing.



## Stainless-Steel Process Equipment

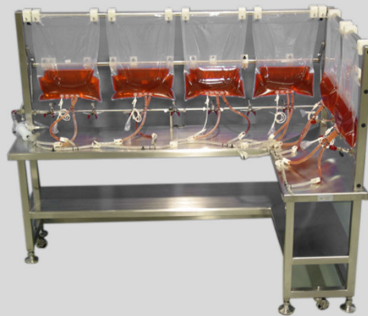
Process equipment including skids to perform clean-in-place, filtration, fluid transfer, instrument calibration, chemical dosing, temperature control, tangential flow filtration, chromatography, and more. Systems can be manual, partially or fully automated, standalone or integrated with your site DCS.



# Custom Fabrications

## Workstations, Carts, and Podiums

Stainless-steel and Polymer fabrications that meet your clean-room requirements. Choose a standard offering or request a custom design. Fabrications can be outfitted with drawers, clamps, filter holders, hangers, and much more to suit your needs.



## Sanitary Component Fabrications

Custom sanitary fabrications for use in product-contact applications. Fabrications are compliant with all relevant ASME-BPE specifications. Sanitary components include spargers, dip tubes, spray wands, sight glasses, valve clusters, tubing spools, and filter housings. Materials of construction include 316L stainless-steel, USP Class VI Plastics, and specialty alloys. Components come with full documentation packages.

