



# A&B PROCESS SYSTEMS

**Pharmaceutical**

Biotechnology



Your complete process systems partner

**Full Automation & Engineering | Support Water For Injection Systems (WFI)  
Non-Sterile Liquids | Ointments & Personal Care Products  
Fermentation & Culture Processes | Personal Hygiene Products  
Intravenous Solutions | Oral Medications**

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## Where does your equipment get built?

State of the Art High Purity Facility

- 53,000 Square Feet
- No Cross Contamination - 100% Stainless Steel Facility
- Super Skid Fabrication Capabilities.

## Skids/Superskids

Providing pharmaceutical and biotech manufacturers with profitable and safe, fast-track solutions that guarantee system validation and compliance without interrupting existing plant production.

### Fast-Track Solutions

- Single-source accountability
- Design, fabrication, & testing completed at JBT A&B
- Plug-and-run solutions.

### Regulatory Compliance

- Factory acceptance testing (FAT) prior to shipment
- User-friendly automation and controls
- High Purity Water Systems
- Formulation Skids
- Buffer Prep Skids
- Water For Injection (WFI)

- Biokill Systems
- Ultrafiltration
- Chromatography
- Filler Feed.

## High Purity Piping

Since 1973 JBT A&B Process Systems has installed more than 5 million feet of process piping throughout the United States.

### Process System Engineering & Installation

- Process Flow diagrams for processes & CIP circuits
- Complete high purity water systems from water filtration to distillation systems.

### High Purity Orbital Welding

- Certified welders
- Weld mapping
- Weld inspection including boroscoping.

### Quote Express Estimating System

- Fast, accurate estimates
- Budgetary linear footage estimates.

### Responsive Services

- More than 55 certified welder/fitters
- New plant construction, expansion, retro fit & maintenance
- No job too large or small.



## Process Engineering Support & Automation

We're collaborators. JBT A&B Process Systems partners with you to gain insight into your unique needs. With your vision in mind and years of experience under our belts, we assume responsibility for the complex details of multi-phase projects, including assessment of existing process systems or equipment, system design, automation, documentation to support validation and one-on-one start-up training.

- Process & Instrumentation Diagrams
- Piping Plans
- Isometric Drawings
- Equipment Layout
- CIP Circuit/Loop Diagrams
- UL Approved Panel Assembly
- PLC Designs
- Programming
- Full Documentation Package.

## Process Vessels

Our 100% stainless steel manufacturing facilities guarantee that contamination is avoided and that all material handling and documentation is properly executed in accordance with current regulatory practices.

### Vessel Construction

- 304/316L High alloy construction
- FDA, USDA, 3-A, cGMP, ASME (U&R), BPE
- Designed for optimal CIP
- Custom agitation systems.



## Clean In Place & SIP

Our expertise in CIP systems brings additional long term profitability to each project we design and fabricate, understanding that hygienic design of individual process components can impact the overall cleanability and performance of your entire production environment.

### Validatable Cleaning of Process Lines and Equipment

- Portable or centralized systems
- Single or multi-tank configurations
- Eductor or return pump systems
- Single-use/re-use system design.

### Consulting Services

- Assess current designs and recommendations for increased cleaning effectiveness
- Optimization of chemical, water and energy consumption.



## Transfer/Utility Panels

Our certified stainless steel craftsmen collaborate with our process engineers to deliver an economical solution to your existing and future production and CIP routing requirements.

### Panel Options

- Recessed wall and pedestal mounts
- Inductive and magnetic proximity switches
- Double-sided designs.

### Economical Solutions

- Simple solutions to complex routing of process & CIP fluids
- Guaranteed product isolation—no cross contamination.



Call today 888.258.2789, to arrange an on-site seminar covering the latest technology and trends in hygienic equipment and clean-in-place.

## COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



### JBT LIQUID FOODS

FRESH PRODUCE TECHNOLOGIES | FRESH-CUT, ROBOTICS, STEAMING | FRUIT AND VEGETABLE PROCESSING | SECONDARY PROCESSING | ASEPTIC SYSTEMS | FILLING AND CLOSING | IN-CONTAINER STERILIZING | HIGH-PRESSURE PROCESSING | POWDER PROCESSING | TUNA PROCESSING

### OUR BRANDS



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We're with you, right down the line.™

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