



ProFlow

Division of Burt Process Equipment



CAPABILITIES OVERVIEW

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We partner with our clients to develop solutions that reduce complexity, to make their jobs easier and processes more efficient

Critical projects present complex challenges.

- ✓ Specialized equipment
- ✓ High pressures
- ✓ Special materials of construction
- ✓ Stringent quality standards
- ✓ Unique control strategies
- ✓ Integration of multiple technologies
- ✓ Rigorous documentation requirements

ProFlow pushes the limits of technology to deliver customer value and process improvement.

Capital projects require the commitment of considerable internal resources—both time and money—in the design and specification of the system. They often come with added costs from sourcing key components and changing scopes. Plus, it can be a challenge to find a trusted partner who can build the system to your specifications and support the process throughout its lifecycle.

For more than 30 years, ProFlow has delivered turnkey engineered projects and modular fluid systems to process industries. We have a proven record of managing complexity by digesting the requirements of the projects, and translating them into a solution that delivers long-term value for our customers.





Modular Flow Solutions for Industrial Markets

Pharmaceutical

Pharmaceutical manufacturers face tremendous pressure to keep costs down, while navigating a complex supply chain, stringent regulations, labor shortages, transfer delays, volatile chemical compounds, and a demand for smaller, more targeted batches. With our full-scale design, engineering, assembly, and support capabilities, ProFlow supplies systems that are critical components to our customers' operational functionality and overall profitability.

Pulp & Paper

The pulp and paper industry deals with significant challenges like process variability, unexpected mill downtime, raw material quality inconsistencies, and the high cost of chemicals, utilities, and maintenance. At ProFlow, we focus on quality and exceptional performance throughout the entire process, to help our customers meet their operational goals. Paper manufacturers and paper chemical suppliers have come to depend on ProFlow, because our systems work reliably within the tightest operational parameters.

Power Generation

Increasing demand for power, combined with industry challenges like supply chain issues, gas shortages, rising fuel costs, and extreme weather events has made it vitally important for the power industry to invest in its infrastructure. ProFlow builds modular flow systems for precise metering of acids, caustics, and urea, water injection systems for NOx control, and fuel oil transfer forwarding systems.

General Industrial

ProFlow's customers rely on us to support a wide range of applications, such as supplying emulsions directly into critical production process, online blending of high volume processes and metering low and high volume components into a critical manufacturing processes.

SERVICES AND CAPABILITIES

System Design, Fabrication, & Assembly

- Component selection
- Control panel design

Process Control

- Operator interface terminal
- Integration of PLC with existing DCS
- Data logging
- Closed loop control

Full System Documentation

- Drawings
- PLC/HMI programs
- Parts list
- Installation, operation & maintenance manual
- Weld maps
- Test documentation

AutoCAD® Design Programs

- AutoDesk® Inventor software
- Electrical design software
- P&ID design software

Full System Support

- Start-up assistance
- Engineer on call 24/7
- Remote system monitoring/adjustment via modem

Fabrication Expertise

- ASME-certified welding of carbon and stainless steels, and various alloys to ASME B31.1 and B31.3 standards
- ASME-certified U and R pressure vessel stamps
- Orbital welding

Testing Facilities

- Pressure and flow testing equipment
- Water supply loop
- Multi-voltage transformer/power source
- Steam boiler for testing

Examples of Applications

- Personal care fill test systems
- Portable sanitary pharmaceutical process skids
- Pharmaceutical chemical precursor precision metering skids
- Pharmaceutical sanitary filtration skids UF/TFF
- Starch cooker
- Continuous starch converter
- Starch slurry & cooked enzymatic starch metering
- Dry polymer makedown systems
- Liquid polymer makedown systems
- Polymer metering & dilution skids
- Post dilution and filter systems
- ASA emulsifiers – single or multi-ply
- Tissue machine – chemical feed systems
- Tissue machines – dryer release agent systems
- Liquid ring vacuum/compressor system
- Chemical dilution skid
- Heat transfer skid
- Water injection skid
- Hydrogen gas scrubber
- High temp pump/test stand
- Phosphoric acid metering skid
- High pressure pump system
- Ballast water treatment
- Direct steam injection
- Tank cleaning skid system
- Chemical injection & monitoring system
- Chemical makedown skid system
- Test equipment – pressure testing, flow testing, leak testing, etc.
- Heat transfer systems – temperature control units
- Custom panels
- Specialty adhesive feed skids
- Urea recirculation & dilution metering skids
- Continuous blending & pumping skids – multi-recipe
- Biodiesel plants
- CIP/SIP carts and systems
- Sanitary filtration and pumping systems for personal care products
- Pilot plant equipment
- Evaporator systems
- Gas blending systems
- Delayed product differentiations (DPD) skids
- Late variant addition (LVA) skids
- Convert batch to continuous process



The ProFlow Difference

ProFlow's turnkey solutions are value-driven. Our true differentiator lies in our ability to control and manage all aspects of a project. Our customers have a requirement, and we create the best solution to meet their specific process requirements and budget. Our highly skilled team – including engineering, fabrication, assembly, and welding experts – manages your entire project, from concept to operation.

Engineering – Our project engineers have the latest in CAD programs for preparing P&IDs, 3-D modeling of piping and structural layouts, mechanical, electrical, and control panel designs.

Quality – We follow very specific quality procedures to comply with our certifications, including ISO 9001, ASME U and R stamps for the fabrication and repair of pressure vessels, and ASME certification for TIG and MIG welding of carbon steel, stainless steel, and various alloys.

Documentation – ProFlow delivers detailed drawings, 3D solid models, PLC programming documentation, parts lists, and field-proven operating instructions to ensure installation, startup, operation, and maintenance of the system meets expectations.

Service and Support – In addition to our field service group, who can assist at start-ups and field repairs, our project engineers are available 24 hours a day, 7 days a week through remote diagnostics to troubleshoot and resolve any technical problems.

