

Integrated Systems

Designing specialized equipment for various industries requires a careful attention to detail and an understanding of the purpose of each piece. Our years of manufacturing experience makes us uniquely qualified to design, engineer, and build integrated process systems with unsurpassed quality. From process vessels and piping to agitation and controls, we'll engineer solutions that work for your needs in your industry to meet demanding and critical process requirements.



Project Management Solutions

From the initial piping and instrumentation diagrams to the final design, we use 3-D modeling to design your system to your exact project specifications, budget limitations, and code and industry requirements. We'll plan each step with detailed Gantt charts to help ensure your project is on time and on budget.

- Engineering (design, drafting)
- Production
- Quality Assurance
- Documentation
- Commissioning



Quality Management Solutions

We meet all applicable regulatory and industry codes and standards including:

- ASME BPE
- ASME B31.3
- ASME B&PV Code Section VIII
- cGMP CFR Part 11 Compliant
- Full CE Certification
- ANSI
- ASTM
- UL
- PED



Our engineering and quality team makes sure your systems comply with industry and your standards. We provide:

- Positive Material Identification (PMI) and incoming inspection on all wetted parts
- Borescope inspection (including video, if requested)
- Equipment Data Sheets
- Weld map, electrical wiring diagrams, and panel fabrication drawings
- Slope and P&ID verification
- Valve and instrument lists
- Pre-FAT testing including hydrotesting, surface finish verification, drainage tests, and CIP coverage tests
- Full comprehensive documentation package





Advanced Controls

Our controls team of qualified technicians provide the custom controls (cGMP CFR Part 11 Compliant) your project needs using the latest technology, including:

- Allen-Bradley Compact Logix®
- Allen-Bradley Panelview®
- Allen-Bradley Panelview Plus®
- Siemens
- Rockwell
- Others upon request

Our commitment to total quality continues after your system is installed and qualified. We provide quality service including on-site system installation, commissioning, support, and training.



Additional Services

PharMix® Agitators

Our PharMix® top entering agitators lead the industry in performance and cleanability. Our stainless steel drives are available in direct, parallel, and right angles with unlimited impeller choices and clamp-on, tri-clamp, and flange mounting options. From simple to complex, our engineers will design a system for your specific application.



Value-Added Solutions

We'll customize any piece of equipment to your exact specifications. Get the most out of your equipment with value-added solutions and services:

- Material/Weld Finishes
- PharmAssist Lift Assist Solutions
- Heat Transfer Surfaces
- Clean-in-Place Agitator
- Upward Spray Cleaning System
- Positive Material Identification
- Electropolishing

Site Fabrication and Field Service

We'll bring the highest skill levels and latest technology right to your site. Our team of experienced field specialists can fabricate of any size vessel up to 1,000,000 gallons and manage the entire project with our own heavy-duty construction equipment. We'll coordinate our project with your contractors so your existing plant operations and other construction programs can continue without any delay or interruption.

