

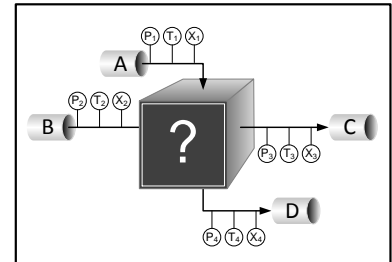
Fact Sheet:

Custom & OEM Design & Fabrication Engineering Solutions

Our specialty is applying an organized project life-cycle approach to design and fabricate unique and robust solutions to meet unique requirements for first of a kind and OEM systems.

Ingenuity & Processing Brilliance

Unlike many companies who shy away from delivering anything other than their standard products, engineers at LEWA Process Technologies (LPT) have always taken special pride in our ability to develop creative and robust solutions to address our customers' unique problems. Each year, our projects range from specialty part fabrication and repair to complete engineering, installation and commissioning of custom process suites.



We have assisted customers through;

- conceptualization and continued development of their patented technologies
- scaling up laboratory processes to pilot, demonstration and commercial production sizes
- quality improvement through automation of time consuming manual processes
- studies of existing processes to identify possible raw material, utility and/or waste reductions

A Diverse Range of Experience: Idea to Pilot to Automation to Integration

Unlike manufacturing companies who specialize in making a single type of product or rely on expertise in a specific technology, LPT's process and automation engineers and experienced fabricators have a diverse range of industry expertise.

On your next process project, if you need assistance in defining project scope and how best to integrate it into your facility or determining project budget and /or schedule.

Or, you have an existing process but you need to make it cleaner and more robust, change, improve, expand or automate it, scale up from a lab to pilot scale, move from a pilot to demonstration scale or move from demonstration to production scale.

Or, you have developed a process technology and you want to automate it, need detailed design support or a prototype built or need an integrated supplier for OEM related services.

Fabrication Specialties

LPT's fabrication capabilities also extend across a broad range. In addition, our technicians and quality control personnel are trained to work in an environment where customers must conform to strict cGMP requirements. Some of fabrication capabilities include;

- Orbital Welding
- Diaphragm Valve Porting
- Piping Passivation
- Mechanical & Electropolishing
- ASME R-Stamp (for PV modification & repair)
- Field Installation

Actual Experience – Not Just Ideas

Our systems experience includes;

- Formulation Systems / Homogenization
- Chromatography / Membrane Separations
- Bioreactors / Fermenters
- Process Sterilization / Bio-Waste Kill
- Transfer Panels / Filling Systems
- Pumping / Distribution Systems
- Media / Buffer Preparation
- Centrifugation / Filtration
- Heating / Cooling
- High Purity Process Utilities
- Field Installation
- Commissioning & Validation

Automation Tools That Are Ingenious

As the cornerstone of our automation efforts, engineers at LPT have developed and use a unique set of Automation Tools. This organized set of automation design rules and process data entry software significantly enhances LPT's ability to complete process automation with a unique combination of both speed and quality. The tools allow process design engineers to input standardized application data directly into a software development interface for the bulk of PLC programming requirements.

The process design interface downloads data directly to a standardized and pre-validated PLC program structure, which in turn utilizes standardized and pre-validated program modules for each process device (valve, pump, instrument, controller, etc.). All device data is maintained in variable format which allows the program to remain highly configurable even after the system has been installed. Access to program functions and configuration can be secured according to a multilevel password system.

Our Systems Automation Experience Includes;

- Continuous control
- Data collection / data networks / historians
- Batch process control – recipe systems
- Trending & reporting
- Control and Security.



About LEWA Process Technologies, Inc.

LEWA Process Technologies, Inc. designs, builds and installs process equipment for customers in biotechnology, pharmaceuticals, semiconductor, cosmetics/personal care, food & beverage, alternative energy and fine chemical industries—or in any industry where the integrity and purity of fluids are regulated or of intrinsic importance. We are the global center of excellence for the LEWA Group in systems for the life sciences, (biopharmaceutical and pharmaceutical), personal care, fine chemical and food & beverage industries.

To start a profitable discussion, please let us know the best way to be in touch: email/form/phone – sales@lewapt.com or call us at + 978 487 1100.