



•Design •Engineering •Construction
•Installation •Start-Up

AREAS OF EXPERTISE

Mech-Chem is a full service engineering and design firm that specializes in the design of acid and chemical processes and operations. The engineering, design, fabrication and construction capabilities and expertise of our company is in the following applications:

Chemical Processing Systems

Acid Etching Systems
Acid Pickling Systems
Chemical Milling Systems
Aluminum Etching Systems
Aluminum Anodizing Systems
Metal Processing Operations
Chemical Recovery Systems

Fume Scrubbing Systems

Push/Pull Ventilation Systems
Vertical Fume Scrubbers
Horizontal Fume Scrubbers
Hoods and Ductwork
Exhaust Blowers
Scrubber PM Services

Bulk Storage Facilities and Piping Systems

For: Acids/ Alkalis/ Solvents
Bulk Storage Tanks
Pump/Piping Systems
Double Contained Piping Systems
Automated Chemical Feed Systems
Secondary Containments
Truck Containments
Safety and Inventory Control

Acid Recovery and Purification Systems

Acid Filtration Systems
Diffusion Dialysis Systems
Acid Distillation Systems
Distillation Fraction Columns
Single Effect Vacuum Evaporators
Vapor Compression Evaporators

Wastewater Treatment and Recycling Systems

Wastewater Treatment Systems
Ion Exchange Resin Systems
Vacuum Evaporation Systems
Carbon Filtration Systems
Zero Discharge Systems

Process Optimization Services For:

Acid Recovery
Waste Recovery
Waste Minimization
Cost Reduction
Pollution Control
EPA & OSHA Compliance

Mech-Chem has an extensive library of over four hundred (400) project designs for systems and facilities for the above applications done by our company's engineering staff. We utilize this knowledge and expertise in the design of each new project done by our company. Mech-Chem engineers and designs user friendly fully automated systems and operations that are monitored and controlled by PLCs with PC interface.

About Us

Mech-Chem is a full service engineering and design firm that specializes in the engineering, design, fabrication and construction of chemical processes and operations.

Mech-Chem was founded in 1984 specializing in acid and chemical corrosion technologies and process design. Over the last 30 years Mech-Chem has grown to include a network of dozens of professionals including an in-house staff of full-time engineers, designers, and PLC programmers.

Our company's mission is to design, engineer and build industrial processes and systems that not only meet our clients' production and manufacturing objectives but also meet their environmental, health and safety goals.

Mech-Chem's knowledge of chemical engineering and processing, along with our industrial experience in the design and start-up of these operating systems, gives us the unique ability to design and build fully integrated systems. This expertise allows us to provide our clients with effective processing systems and operations using the best available technology with state of the art PLC/PC automation and controls



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