



•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

Acid Recovery and Purification Systems

Acid Filtration Systems

Diffusion Dialysis Systems

Acid Distillation Systems

Distillation Fraction Columns

Single Effect Vacuum Evaporators

Vapor Compression Evaporators

Fume Scrubbing Systems

Push/Pull Ventilation Systems

Vertical Fume Scrubbers

Horizontal Fume Scrubbers

Hoods and Ductwork

Exhaust Blowers

Scrubber PM Services

Wastewater Treatment and Recycling Systems

Wastewater Treatment Systems

Ion Exchange Resin Systems

Vacuum Evaporation Systems

Carbon Filtration Systems

Zero Discharge Systems

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

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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