

Tri-Mer® Polypropylene Specialty Fabrications



***for Manufacturing Processes Involving
Aggressive or Corrosive Materials***

Tri-Mer Corporation has more than 36 years experience in the design, engineering, fabrication and installation of custom equipment for manufacturing and process operations.



Automatic actuating polypropylene door assembly designed to separate wash system chemistry.

Complete washer assembly showing conveyor, recirculation pump subassemblies and multi-station format.



Polypropylene washer assembly showing partial piping and ventilation pickup points.



Tri-Mer manufactures custom equipment from polypropylene, polyethylene, PVC, PVDF (KYNAR®) and selective high-alloy metals.

From simple exhaust hoods to multi-stage indexing stations to turnkey manufacturing systems incorporating complex material handling, Tri-Mer has the resources and experience to meet your requirements.

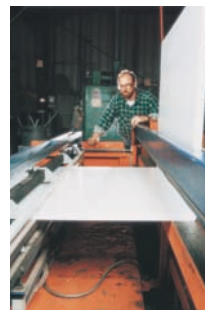
Tri-Mer has a long and credible track record in the design and fabrication of critical machinery used in corrosive environments. We are a leading manufacturer of corrosion-resistant manufacturing equipment for market-dominant companies including General Electric, Texas Instruments, and Motorola, and for many small OEMs and job shops.

Tri-Mer is well-known for the manufacture of equipment to control gases and fumes from industrial and municipal sources, and has completed more than a dozen installations for controlling emissions from wafer manufacturing.

Tri-Mer's Machinery Fabrication Group uses advanced CAD/CAM techniques to quickly and accurately allow design alternatives to be created and compared. Our manufacturing resources include in-house

tooling, forming, and advanced extrusion welding systems for precision joining and assembly.

We also employ several proprietary processes unique to Tri-Mer in order to maximize long-term structural integrity, and distribute stresses most evenly, on large fabrications.



Tri-Mer technicians have extensive experience with all equipment formats, including parallel, integrated walking beam technology. We specialize in engineering for applications where there are special limitations, such as the need for easy access, constraints on equipment height

or footprint, or equipment with outsized dimensions (100' or more or depths to 40').

Tri-Mer combines the strength and resources of a large supplier with the service and flexibility found mostly with smaller entrepreneurial firms. We offer expert design assistance and consulting, and will respond quickly to your inquiries. We are well-respected for our comprehensive prototyping capability, and are set up to accommodate both small and regular production runs.



▲ Detail showing dual pump washer tanks with connecting pumping systems.

► Internal view of all-polypropylene acid etch wash/ rinse stations.



Tri-Mer's Instrumentation Group specializes in the design and integration of custom controls (such as a system to open lidded tanks at precise intervals); we are well known for expert PC/PLC programming.

Standard controls govern pH, conductivity and ORP, as well as temperature, pressure and other variables. Systems can be set up to provide precise chemical feed and to comply with ISO requirements.

A typical system built for an electronics manufacturer sequences Tri-Mer equipment in a plant-wide manufacturing scheme, and includes an electronic handshake to facilitate data collection.

• **Acid/Caustic Wash Station Equipment**

• **Hoods and Ducting**

• **Test Chambers**

• **Etching Systems**

• **Plating Tanks**

• **Descaling Machinery**

• **Complex Shapes**

• **Close-Tolerance Fabrications**

• **Complete Control Packages**

• **Expert Installation and Start-Up Support Worldwide**





Tri-Mer specializes in precision design/build for specialty fabrications.

We also engineer and manufacture advanced technology air pollution control systems for the control of NO_x, SO₂, HCl, H₂SO₄, HF and particulate.

*Shown here: Tri-Mer systems built for
General Electric, Mt. Vernon, IN and Motorola, Phoenix.*



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