

# FRP Industrial Tanks & Processing Equipment



MAXIMIZING CORROSION RESISTANCE WHILE MINIMIZING LIFE CYCLE COSTS

# FRP is the Smart Choice for Processing Equipment

Corrosion is a serious challenge for industries that use water and chemicals. Harsh and acidic environments wreak havoc on traditional materials like metal which can endanger a structure's stability. Fiber reinforced polymers (FRP) have the durability and abrasion resistance to outperform conventional materials under these conditions. FRP also provides a higher strength material when compared to most metals. Choosing FRP over traditional materials means eliminating costly downtime and repairs.

FRP is often used for piping, tanks, scrubbers, custom equipment, and many other vessels. Our FRP products can be found in facilities ranging from wastewater treatment and pulp and paper mills to chemical processing and power plants. To get the longest life possible from your tanks and pipes, preventive maintenance is crucial. Our field service expertise allows us to provide equipment repairs to existing structures weakened by corrosion!



## FRP Tanks

Fiber Reinforced Polymer (FRP) tanks and process vessels have been the standard material choice for years for any industry using strong chemicals for producing their products. Some industrial chemicals deteriorate traditional metal tanks causing costly repairs or replacement. FRP tanks excel in these environments with longevity and ease of repair. All quality FRP tanks are designed and built to stringent industry standards. Our engineers design per the relevant ASTM and ASME RTP-1 tank standards. Our FRPI certification ensures customers receive a product created to the highest standards. Every FRPI stamp issued means the process was monitored by an outside source.



## Towers, Stacks, Scrubbers, & Absorbers

Our fabrication capabilities are built around meeting each customer's specific requirements with our design/build approach. Our ability to customize the laminate for each application means that every customer receives the most optimally designed tower or stack for their specific service and use. We can design the laminate to deal with difficult chemical compositions, high temperatures, and pressures for chemical scrubber systems. We meticulously hand lay every corrosion barrier for each vessel to ensure a void-free laminate that meets or exceeds any standard or specification. Our engineers design each vessel to ensure long service life and excellent performance while respecting every customer's specifications and budget.

## Corrosion Resistant Piping

Our team believes that every piping system should be engineered and manufactured for its specific application. We work with our customers to identify the critical design issues in their system. Then, we custom fabricate pipe and components accordingly as part of our process piping design approach. Depending on the application we select from a variety of premium vinyl ester resins. We utilize the hand lay-up process for corrosion barriers and either hand lay-up or filament winding for structural manufacturing.

Additionally, our team designs using various surfacing veils, chopped strand mats, woven roving, and unidirectional reinforcements.



## Cover Systems

CCG specializes in tank covers for a variety of industrial and commercial applications. Our process can include custom engineering, fabricating, and installing fiberglass tank covers. They are designed specific to the environment they will encounter such as snow loads, high heat, wind, seismic activity, and of course heavy corrosion. We custom engineer our fiberglass tank covers for any geometry or the shape of a tank. The lifecycle cost of our fiberglass covers is low due to the maintenance-free design. You do not need to paint our fiberglass covers. Our covers are completed with a final coat that can be pigmented to customer specifications which eliminate the need for painting. Unlike other materials of construction, such as steel, you do not need regular maintenance.



## Fiberglass Dampers

Our team manufactures proprietary fiberglass dampers also known as FRP dampers. We provide FRP flow control dampers and FRP isolation dampers for a wide range of industrial and commercial applications. Manual and mechanical actuator systems are available. We manufacture our fiberglass dampers with the best corrosion resistant ECR glass and fire-retardant vinyl ester resins available. The mechanical components for the damper are available in FRP and metallics such as 316L, Titanium, and Hastelloy. We supply our FRP damper shaft seals and seats in any material suitable for a specific service. The materials available range from simple EPDM or silicone up through virgin PTFE and other specialty products.



# Choose Creative Composites Group for Industrial Tanks & Processing Equipment Expertise

## Your Single Source for Engineered Industrial Projects Using Fiber Reinforced Polymer Composites

Advance your products and projects beyond the limitations of traditional concrete, steel and wood by leveraging the combined strength of Creative Composites Group (CCG). We are a leader in technical innovation that is backed by the industry's most comprehensive FRP manufacturing group for infrastructure.

As CCG, we can help you engineer and manufacture infrastructure projects to meet the needs of future generations.

We offer comprehensive engineering, design and consultation for large processing equipment and tanks. Our manufacturing capabilities include the broadest range of engineered FRP solutions to enhance industrial applications. That's possible only with our proven engineering processes, end-to-end collaboration, service and support resources. Since FRP composites last longer than conventional materials they often have a lower lifetime cost when you consider longer service life and low to no maintenance costs.

## Discover Your Custom Engineered FRP Provider for Industrial Tanks and Processing Equipment

Creative Composites Group is committed to becoming a trusted business partner who is keenly interested in your project's success. CCG works alongside your team, from owners to design engineers and contractors, to help you develop and customized FRP installations that meet the most demanding structural requirements and environmental conditions.

*Contact us for your next engineered Industrial FRP project.  
We'd be thrilled to discuss it with you.*

**CreativeCompositesGroup.com**



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