

Test our limits, reach for the sky

The challenges of handling and containing critical fluids and fumes are sufficiently daunting in their own right. So why limit yourself to locating, contracting, and coordinating multiple suppliers in your effort to realize a dependable and cost-effective solution?

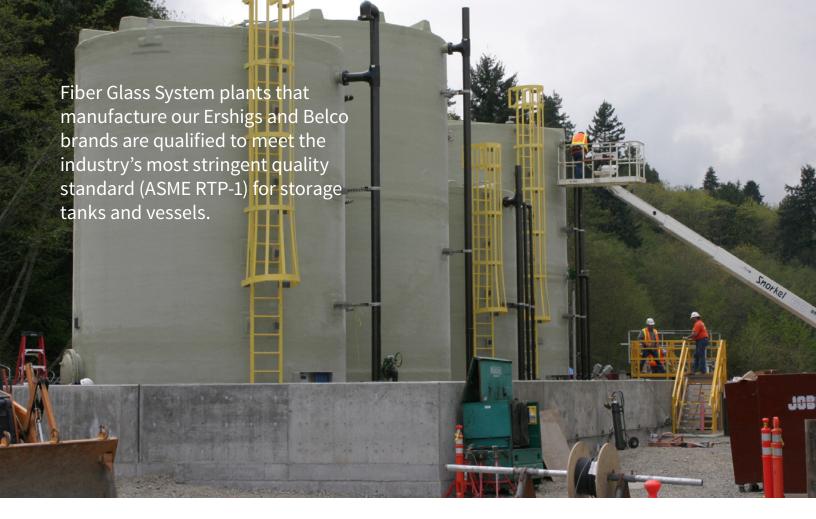
Fiber Glass Systems, Ershigs, and Belco Three brands— working as one.

Three brands providing dependable, cost-effective, integrated solutions for the chemical processing ... water and wastewater ... metals and mining ... pulp and paper ... electronics ... and power generating industries.

Three brands—with vast expertise and a strategically dispersed manufacturing and sales network that can be brought to task on your critical project, simply by contacting them.

Three brands—with the problem solving power of a single contact. Just think of the reduced aggravation and increased accountability you'll derive from dealing with a single source. With Fiber Glass Systems, the sky really is the limit.





No Vessel Too Large

Process and store large volumes of corrosive liquids in field-fabricated structures which are 120 feet in diameter or more. Or select from standard shop manufactured tank and vessel diameters up to 20 feet in diameter. Proprietary construction methods result in super strong, super durable monolithic shells, free of vertical seams; and they eliminate sidewall deformation during lifting and setting. Double-wall and double-bottom configurations furnish secondary containment and simplified leak detection.

On-Site Fabrication and Construction

Our proven on-site processes are unmatched by anyone, anywhere. Tanks and vessels can be fabricated either in place or at a specially created manufacturing base nearby. On-site fabrication — available for even the largest structures — slashes transportation costs and installation time and can be smoothly coordinated with the efforts of other site contractors.

No Vessel Too Small

We manufacture hand lay-up, chop hoop, and helically wound vessels in diameters ranging from 12 inches to 20 feet for corrosive-service tanks. These high quality FRP structures are highly resistant to a variety of chemicals, corrosive environments, and ultraviolet light.

Our broad experience meeting critical fluid system requirements encompasses pressure and vacuum applications; seismic loading; polyester, vinyl ester, C-veil, and nexus systems; and vertical, horizontal, flat-bottom, dish-bottom, and cone-bottom configurations.

Our Armourplastic (thermoplastic lined FRP) products incorporate thermoplastic materials such as PVC, CPVC, PP, PE, PVDF, ECTFE, ETFE, FEP & PFA with proven design, forming and welding techniques to provide superior systems which exceed the limitations of unlined FRP.

Fiber Glass Systems FRP Shop and FRP Field Tanks can be designed, manufactured and tested in full compliance with ASME RTP-1.



Tall and Oversized Structures

Stacks and Chimney Liners

Fiber Glass Systems designs, manufactures and installs FRP stacks and chimney liners as large as 42 feet in diameter and 1,200 plus feet tall and depending on the chemical environment, we can accommodate for fume temperatures up to 375°F. Configuration options include guy-wired, laterally supported, base supported, caged or hung in tension. Each stack or chimney liner can incorporate thermal insulation, lightning protection, moisture collection and grounding systems.

Bleach Tower Replacements

Of special interest to the Pulp and Paper Industry is our proven ability to replace unserviceable bleaching towers within outage times typical of routine maintenance. We will demolish worn-out upflow and downflow towers of tiled steel and install new FRP towers on the same foundations — all in just seven to ten days under normal conditions. And FRP bleaching towers not only ward off corrosion internally and externally — for extended life and reduced maintenance — they weigh so much less than tilelined steel that larger towers can be installed with no foundation alterations. That added capacity can pay annual dividends in lower overall operating costs.

Pipe and Ducting Systems

Abrasion Resistant Pipe

If flue gas treatment is your first line of defense in the battle for clean air, then Stopline-G2 abrasion-resistant piping is a powerful ally. Our Stopline-G2 piping meets increased internal/external abrasion resistance needs in aggressive service applications such as those found in FGD scrubber systems.



Pressure Pipe and Ducts

From the most complicated pressure pipe to the simplest shutoff valve, Fiber Glass Systems has the products and the prowess
to put all the finishing touches on projects of massive scope.
We manufacture and design custom prefabricated duct and
piping systems to minimize field fabrication and installation
costs. Sizes range from 1 inch to 20-foot diameter. Our pipe
and duct can be made using hand lay-up or filament winding
methods and can be rated up to 250 psig pressure or full vacuum
conditions. Fiber Glass Systems uses a variety of thermoset
resins or thermoplastic liner systems matched to the specific
temperature and chemical service conditions of your project.
Fiber Glass Systems is also capable of supplying ASTM D2992
tested pipe or duct to achieve ASTM D2996 and ASTM D2310
standards.



Specialty Products

Fiberglass Dampers

For use in corrosive airstreams, Fiber Glass Systems offers a complete line of control dampers. Specify our low maintenance models in balancing applications. Model 201 controls airflow for balancing a system. Model 202 controls airflow for balancing a system and includes full circumferential blade stop. Model 203 is AMCA Certified for isolating air flow with low leakage rate. Includes shaft seal, blade seal and full circumferential blade stop. Model 204 is AMCA Certified for isolating airflow to watertight test level. Includes PTFE encapsulated oring blade seal, shaft seal and full circumferential blade stop. Our line of bubble-tight PTFE encapsulated O-ring dampers can meet isolation requirements. All Fiber Glass Systems' dampers are available with manual, chain wheel, electric and pneumatic operators.

Scrubbers, Carbon Absorbers, Degasifers, and Demisters

For chemical recovery, pollution and odor control, Fiber Glass Systems scrubbers offer conspicuous quality, efficiency, durability, and value. Our scrubbers handle the full range of dynamic and hydrostatic loads and chemical environments. Also used as absorbers, degasifiers, demisters, air-stripper towers, bleach towers, and in many other processing applications, these systems can be manufactured in-plant or on-site, in almost any size. Supplemental components — covers, internal and external piping, distribution networks and ducting — can be custom fabricated in the shape and configuration your application requires.



Together, Fiber Glass Systems brands of Ershigs and Belco tackle a wide range of process vessels, storage tanks, piping, duct and exhaust stack requirements from critical chemical environments to standard-service water and waste water systems. And with the joint capabilities of all three brands at your disposal, there is no critical fluid or fume system management project whose requirements can't be met with single-source accountability.



Integrated Services

Feel free to delegate as much as you'd like, Fiber Glass Systems can plan, engineer, design, fabricate, and erect all the composite elements of your new critical fluid systems management in real "turn-key" fashion. Or update and maintain them in an existing facility. Tap our wealth of experience and expertise to save time and money — and the aggravation of dealing with multiple sources and sorting out who's responsible should a problem crop up.

Project Engineering

When you apply our aggregate capabilities at the outset of your project, you assure yourself of the smooth integration and peak performance of all composite structures and systems. Our engineers and designers are the most seasoned professionals in the industry. They are intimately acquainted with the latest advancements in composites technology and processes. We will work cooperatively with your own architects and engineers to ensure the most efficient and cost-effective result.

Construction

Savings can be realized in ways as basic as systems shipped in prefabricated sub-assemblies to reduce the number of field joints by 90%. In ways as specifically focused as on-site training and supervision of your own fabrication and assembly crews. Or in ways as sweeping as having Fiber Glass Systems handle the full slate of contracting functions on your behalf — including component fabrication and installation; civil, mechanical, and structural operations; and ancillary trades and subcontractor tasks.

Inspection, Renovation and Maintenance

The optimum performance of any system demands upkeep and periodic upgrades. We can inspect, preventively maintain, repair, refurbish, and update existing facilities to help minimize downtime and avoid unplanned interruptions. We work with plant manager and maintenance personnel to provide the technical support that promotes performance and longevity.



Challenge our skills...

Fiber Glass Systems, Ershigs, and Belco brands family of products

- Pipes and fittings
- Aboveground storage tanks
- Large diameter tanks
- Site-fabricated vessels
- Stacks and chimney liners
- Odor-control equipment
- Carbon absorbers
- Dampers
- Amourplastic vessels and pipe

- Butterfly valves
- Hoods
- Mist eliminators
- Scrubbers
- Ducting
- Manholes
- Wetwells
- Degasifiers
- Thermoplastic assemblies

Fiber Glass Systems is the world's largest manufacturer of custom-engineered, corrosion-resistant fiberglass reinforced plastic products serving the chemical, petrochemical, water and wastewater, power generation, pulp and paper, and other process industries.

In addition to US manufacturing plants, Fiber Glass Systems has twelve mobile manufacturing facilities which can operate anywhere in the world. Fiber Glass Systems is the leading specialty FRP contractor for fluid and fume handling products, components and systems.

...utilize our experience.



Belco brand

The Belco Brand consists of a host of corrosion resistant, fiberglass reinforced products, including – tanks, vessels, pipes, duct, scrubbers, absorbers, degasifiers, dampers, towers and manhole/metering manholes for petroleum, water/wastewater, and industrial applications. Our broad capabilities entail in-house structural and mechanical engineering support, as well as drafting for custom fabrications.

Ershigs brand

The Ershigs brand is a recognized leader in custom designed FRP products and projects for corrosive fluid and fume applications. Fiber Glass Systems provides tanks, scrubbers, stacks, chimney liners, piping, abrasion resistant piping and ductwork systems on a turn-key design, manufacture and install basis world-wide. Our advanced FRP manufacturing equipment, technology and experience allows us to address the most difficult projects and construct FRP vessels up to 120 feet in diameter.

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Fiber Glass Systems 17115 San Pedro Ave., Suite 200 San Antonio, Texas 78232 USA

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