

The Midwest Towers Team

Midwest Towers • Beetle Plastics



Quality • Service • Integrity • Value



Midwest Towers, Inc. and its subsidiary, Beetle Plastics, LLC, offer you the highest quality values in cooling towers, cooling tower components, FRP pipe, ductwork, tanks, vessels and associated services.

The Midwest Towers team will work with you through all the stages of your project; design, budgeting, planning and installation, to make sure you get the best job for the best value.

Midwest Towers corporate offices and over 200,000 sq. ft. of manufacturing and administrative facilities are located in Chickasha, just southwest of Oklahoma City, Oklahoma. The Beetle Plastics manufacturing plant is just outside of Ardmore, Oklahoma.

Midwest Towers

Comprehensive Design & Engineering

Our experienced engineering and design group can offer you the best value option for your particular cooling tower application, whether it is one of our pre-engineered cooling towers, or a custom designed solution.

Our flexible design options include:

- Many fill options to fit your situation
- Wood and FRP structures
- Innovative modular panel design cooling tower
- High value, pre-engineered solutions
- Custom designs for any application
- Custom cell sizes to fit existing basins





Extensive Manufacturing Capability

Manufacturing capability and flexibility are two of our core strengths.

We maintain extensive facilities for fiberglass manufacturing, lumber fabrication and treating. Our experienced manufacturing staff follows a rigorous quality control and assurance program as well as advanced manufacturing techniques to produce consistent, quality products.

In addition to producing components for our own use, we provide many of the components used by many other major cooling tower suppliers. In fact, we manufacture and supply components to over 100 cooling tower companies and contractors around the world.

New Construction

Midwest supplies a wide range of cooling tower products and services to utilities, process and industrial customers and even other cooling tower companies around the globe.

As a sole source supplier, Midwest designs, engineers, manufactures, constructs and services your project.

We accept the challenge of making sure your project is done right, on time, and for the best value.

Check out the Midwest advantages:

- Extensive manufacturing facilities
- Complete control of material and labor
- Full-time construction staff
- Outstanding safety performance
- Best-value producer—no middlemen or subcontractors
- Counterflow and crossflow designs
- Many fill options to fit your application
- Wood and FRP structures
- Innovative modular panel design
- Custom cell sizes to fit existing basins

Counterflow Towers

Counterflow design cooling towers usually offer a smaller footprint than crossflow towers and allow



maximum thermal performance out of each plan area. Counterflow towers also help minimize your pump head requirements.

Crossflow Towers

You can also choose from a wide range of models in the classic, proven crossflow design.

Crossflow design cooling towers offer excellent, easy accessibility of all key components such as fill, drift eliminators, mechanical equipment and water distribution system. This makes life a lot easier for your maintenance personnel.

FPT Series Towers

This counterflow design cooling tower uses a unique fiberglass panel technology to offer you an outstanding set of benefits:

- Strong, pultruded fiberglass, UV-protected, fire retardant
- Factory-assembled components and sub-assemblies for fast, consistent, safe construction
- Pultruded fiberglass deck with non-skid coating
- Low maintenance
- High performance



Repair and Emergency Services

When your cooling tower is off line because of some kind of damage, the most important thing is getting it back up and running.

Our emergency response team can move quickly and efficiently to assess your situation and get you back on line fast.





Reconstruction and Upgrade

We have built our reputation on cooling tower reconstruction and thermal upgrade services.

Our experienced staff can provide cost effective and value added solutions for even the most challenging cooling tower requirements. And, we have worked with virtually all makes and models of cooling towers.

Because safety is a number one concern for us, our safety record is outstanding.

Typical reconstruction and upgrade services may include:

- Structural lumber replacement or repair
- Mechanical equipment repair or upgrade
- Fill system replacement
- Drift eliminator system replacement
- Fan deck repair and/or replacement
- Hot water basin repair and/or replacement
- Hot water basin covers
- Crossflow distribution systems
- Counterflow distribution systems
- Casing and louver replacement
- Thermal performance upgrades
- Complete cooling tower refurbishments

Parts & Components

We have a large selection of high quality OEM (Original Equipment Manufacturer) replacement parts, which are compatible with virtually all models, and manufacturers of cooling towers. Our

parts offer you a high quality, reliable, low-cost alternative to expensive original equipment parts.

Count on Midwest Towers for all your parts and components needs:

- Custom lumber fabrication and treating
- Fiberglass fan stacks
- Distribution systems
- Non-skid fiberglass fan deck and hot water basins
- Corrugated FRP casing and louvers
- Fans and assemblies, gears, speed reducers, drive shafts, couplings, motors, supports
- Flow control valves, nozzles, grommets
- Fill and drift eliminators
- Hardware, brace connectors, base anchors

Maintenance

Our Performance Plus Program is designed to provide complete customer support for the proper maintenance operation and optimization of your cooling towers. The result is an increase in thermal performance, a reduction in unplanned maintenance and emergency downtime, and overall maintenance cost reductions.

Performance+ offers you great services:

- Inspection services
- Cooling tower optimization studies
- Maintenance planning and budgeting
- Performance of planned maintenance
- Emergency response plans and implementation

Beetle Plastics, LLC



Beetle Plastics, founded in the 1950's, designs and manufactures custom engineered FRP pipe for cooling towers and other applications, ductwork, tanks, vessels and other equipment. Beetle also offers inspection, installation and repair services.

Beetle Plastics manufactures all of the specialty and common thermoset resin products, each with specific corrosion and service advantages:

- Polyester—for light corrosives and fumes
- Vinyl ester—for strong acids and chlorine
- Novolac VE—for high temperature corrosives
- Furan—for solvents, high temperatures and extreme corrosives



- Epoxy—for caustics and general use
- Phenolic—for fire resistance

Beetle FRP piping, ductwork and tanks offer:

- Diameters from 1/2 inch to 14 feet or custom
- Full vacuum and pressure services
- Filament wound or contact molded
- Wide variety of joints including "O" rings available
- Full range of fittings and connections
- Standard materials or custom formulations
- Round or rectangular ducting
- Full design and engineering support



Cooling Tower Piping

Beetle Plastics fiberglass reinforced piping for cooling tower headers, circulating water lines, inlet water systems, or overflow lines is recognized as the standard of the industry.

Beetle FRP piping is ideally suited for tough cooling tower duty.

FRP Piping and Ductwork

Piping and ducting from Beetle Plastics can meet virtually any need or application you may have.

Tanks and Vessels

FRP tanks, vessels and processing equipment are available from Beetle Plastics fabricated from any specialty or common thermoset resin of your choice.

Beetle's staff of experienced design engineers will provide you with complete specifications tailored to meet your precise needs.

Tanks, vessels and processing equipment from Beetle can meet virtually any need or application.

Engineering & Field Services

Beetle Plastics engineers have the experience, the skills and the knowledge, to help you with virtually any project related to FRP solutions.

Call Beetle Plastics today for help with:

- Procurement assistance
- Anchors, guides and support systems
- Maintenance inspections
- Repair and installation services with HAZWOP certified personnel
- Equipment rebuilding
- On-site modifications

Call the Midwest Team today for the best quality value in cooling towers, parts, components, FRP pipe, tanks, vessels, and associated services.



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