



**SOUTHERN**  
HEAT EXCHANGER



**Design / Fabrication / Service**



# Southern Heat Exchanger Corporation-SHECO

Southern Heat Exchanger Corporation (SHECO) has been a leader in the Shell and Tube Heat Exchanger industry for over 45 years. During this time we have designed and fabricated over 20,000 heat exchangers to meet the complex, ever changing needs of our customers.

Our strength lies in our focus, our experience and our people. Since its inception SHECO has focused exclusively on Shell and Tube Heat Exchangers. Doing so has produced a company and group of people uniquely qualified to solve tough problems. A heat exchanger manufacturer with experience and expertise as great as any you will find anywhere in the world. If you haven't experienced the difference, the difference SHECO can make, then you need to learn more about us, more about how we can lower your costs and improve your bottom line.







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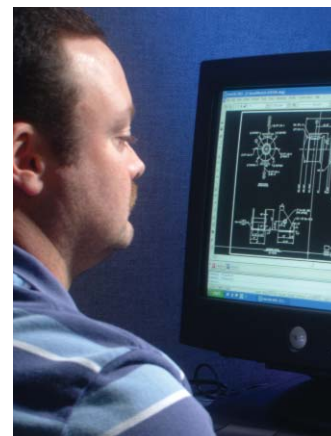
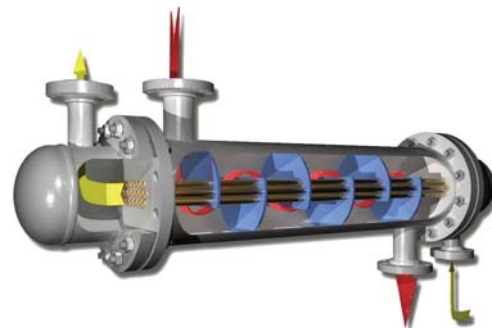




# Engineering

Engineering starts in the sales department with an experienced team of chemical and mechanical sales engineers. Most problems require extensive mechanical and/or thermal engineering before an estimate can even be prepared. As a TEMA member and HTRI user/member we have instant access to the latest thermal and mechanical technology in the heat exchanger industry. This combination of professional education, years of specialized experience and the latest tools in the industry insure we provide the most thermally efficient and cost effective designs possible.

Upon acceptance of the sales proposal, a separate team of trained design engineers and draftsmen, using the latest in computer aided design programs, translates the proposal into a design that meets current ASME and TEMA standards. Regardless of whether the mechanical design is generated in-house or provided by our customer, the engineering phase begins a process that builds quality into the exchanger from the outset.



## Machining and Component Fabrication

SHECO employs the latest in modern metal forming, CNC cutting and CNC machining equipment to insure precise adherence to the dimensions and close tolerances required by our customers, our engineers and TEMA. State of the art CNC drilling equipment and CNC vertical machining centers insure the accuracy necessary to properly manufacture baffles and tube sheets unique to heat exchangers. With the capability to drill tube sheets up to 7" thick and 120" in diameter and turning, rolling and machining capabilities to match, SHECO manufactures in-house virtually all of the components our exchangers require. Our continuous capital investment philosophy assures we will be able to meet the rigid quality requirements and on time deliveries our customers have become accustomed to and expect from SHECO.







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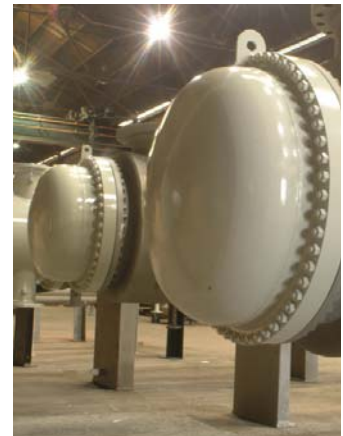




## Fit-up, Welding and Assembly

Our fitting, welding and assembly areas employ the latest in modern welding, positioning and turning equipment. Units from 5" in diameter to over 150" in diameter and from 3/8" wall thickness to several inches thick are handled with equal efficiency and ease. Tube to tube sheet welding can be done either semi-automatically, with state of the art orbital welding equipment, or manually, in accordance with customer preferences or the characteristics of the tube to tube sheet joint itself.

Multiple pieces of semi-automatic submerged arc equipment are used throughout our fabrication areas for smooth and efficient welding of pipe, nozzle joints and shell courses. Welding is done using TIG, MIG, SAW, SMAW and FCAW processes with a variety of wires and fluxes to accommodate welding procedures used for everything from carbon steel to titanium and virtually every alloy in between. Welding operations are performed exclusively by certified ASME code welders, each of whom has been thoroughly trained, tested and qualified for their position prior to welding in our facilities.







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## Quality Assurance

Before Southern Heat Exchanger Corporation's nameplate is placed on any exchanger, the unit has been carefully inspected throughout the production process by our highly trained quality control department. Any NDE method required can be performed as applicable to meet code requirements and/or customer specifications.

## Service

The decision to buy a new heat exchanger versus refurbishing an existing unit can be a difficult one. Regardless of what condition the unit is in, or where it is, SHECO can help. Experienced sales people in either our Tuscaloosa or Houston facilities can help you figure out what is the most cost effective solution. Repairs, re-tubing and re-rating can many times be quoted without ever seeing your unit. If we need to inspect the unit in the field or perform diagnostic services in one of our shops, we can help arrange that too. Regardless of what is ultimately required, we have the right people with the right expertise to repair virtually any heat exchanger, in the field or in one of our shops, 24 hours a day 7 days a week.







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# Completed Projects







**Corporate Office (Plant 1)**  
P.O. Box 1850  
Tuscaloosa, AL 35403  
205-345-5335 Fax 205-345-0009



**Corporate Office (Plant 2)**  
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**Southern Heat Exchanger Services, Inc.**  
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Houston, TX 77049  
713-475-8500 Fax 713-475-8507



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