



## Fully-Integrated Shop Services

Ohmstede Ltd. provides fabrication, engineering, repair, and off-site cleaning for a wide range of new capital equipment and components—all backed by our state-of-the-art safety and quality-control programs.

We have a reputation as the go-to resource for companies in need of high-quality shop services. Thanks to our broad capabilities and strategic Gulf Coast locations, we are ready to deliver rapid solutions.

### Our Markets

#### Petroleum

- » Downstream
  - Refineries
- » Midstream
  - Processing facilities
- » Upstream
  - Crude oil production
  - Liquefied natural gas production
  - Natural gas production

#### Chemical

- » Petrochemical plants
- » Chemical plants
- » Industrial gases plants
- » Plastics/rubber plants



### Our Services

#### Engineering

We employ a team of highly specialized mechanical and thermal engineers and drafters to respond quickly to local projects.

Our engineering services include:

- » ASME code certifications
  - “R”, “U”, “S” Stamps, Div. I
- » Mechanical design re-rating studies
- » National board repair, re-rating, alteration
- » Finite element analysis (FEA) and solid models
- » Thermal design
  - Heat transfer
  - Hydraulic design
  - Flow induced vibration and erosion review
- » Mechanical design
  - Internal and external pressure loads
  - External piping
  - Wind and seismic loads
  - Start up, shut down, and/or upset conditions

#### Fabrication

Our shops fabricate custom shell and tube heat exchangers. With the latest equipment and over 1,100 welding procedures on file, we deliver the tight machining tolerances and critical welds necessary to meet the industry’s stringent codes, standards, and specifications.

We fabricate and manufacture:

- » Heat exchangers
  - TEMA, ASME, API 660, API 934 A, C
  - Finned Tube
- » Vessels/reactors – blind to blind
- » Towers/columns – blind to blind
- » Coke drums
  - Top un-header device (TUD) spools
  - Lower delta valve spools
- » Exchanger components
  - Channels, shells, bundles
- » Spare parts
  - Gaskets and tube plugs

Our shop services include:

- » Specialty welding
  - NBIC “R” stamp
  - ASME “U” and “S” stamp
- » Machining
- » Overlay
- » Assembly and testing
  - Hydro, helium, and air
- » Decoking ovens



### Repair

All five of our shop locations have the capacity and equipment for machining, welding, assembly, testing, painting, and other repair services. Our stocking program and strong vendor supply chain help us expedite materials and fabrication, enabling rapid repair and delivery.

#### Our repair capabilities include:

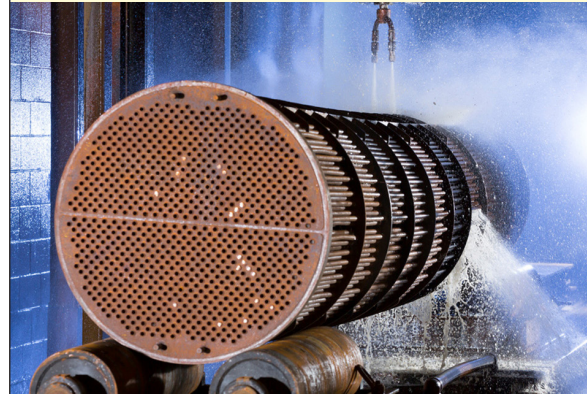
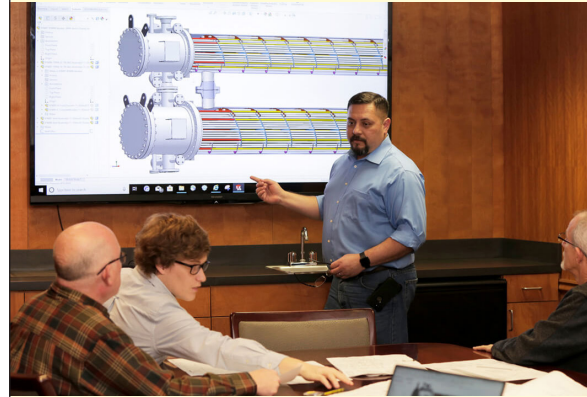
- » Heat exchangers
- » Retubing bundles
- » Double pipe exchangers
- » Fin-fan repairs
- » Boilers/heaters
- » Borsig exchangers
- » Drums and pressure vessels
- » Fluid catalytic crackers
- » Reactors and ASME repairs and alterations
- » Tank repairs
- » Hydrotesting

### Cleaning

We also provide off-site cleaning services as an economical solution that helps reduce exposure to in-plant incidents and environmental releases, avoid unforeseen delays from weather or labor shortages, reduce on-site supervision, and more.

#### Our off-site cleaning services include:

- » Tubeside and shellside cleaning and decontamination
- » Complete disposal of cleaning waste
- » Media blasting for components
- » Decontamination of plant scrap metal
- » Environmentally safe pyrolysis oven



### Ohmstede, Ltd.

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