



FHC is a leading manufacturer of custom designed & integrated fire protection equipment with over two decades of experience in industrial applications across the MENA region. **FHC** has three state-of-the-art plants with 300,000 Sq.ft in foot print located in Dammam 2nd Industrial City in Saudi Arabia served by competent engineers and up to date fabrication equipment allowing us to design, produce and assemble a wide range of fire and safety products and systems.

Our Divisions:

- Vehicles, Trailers & Containers
- Pipes & Skids
- Cabinets & Hose Reels
- Fire Suppression System

Heavy Metal Fabrication Capabilities

Performance Spectrum

- Pressure Vessels
- Air Receivers
- Deaerators
- Transport Containers
- Welded Constructions
- Tank Rings
- Plant Structure
- Modules
- Subassemblies
- Skid Units
- API 650 Storage Tanks
- Flare Tips



Engineering Capabilities



FHC Engineering utilizes the latest versions of industry-leading 3D solid modeling software. Solid modeling streamlines the overall design cycle and manufacturing process, increases the effectiveness of design reviews and supplier/client communication, vastly accelerates, and in some cases, eliminates the need for prototype development. Finite Element Analysis is used for stress analysis, permissible cycle life, wind and seismic loading, fluid flow, and heat transfer. We can produce linear, nonlinear, limit load, and steady state and transient thermal analysis to meet jurisdictional requirements. Working with 3D models also allows for a seamless integration with our FEA and CFD analysis software and offers us the ability to create photo-realistic renderings and animations useful for design proposals and marketing materials.

Production Capabilities



We are able to cope with the most demanding market requirements. Our main manufacturing capabilities can be summarized as follows:

- ASME Section VIII, Div. 1 Boiler and Pressure Vessels with wide range of tanks and pressure vessels.
- ASME certified welders and inspectors with approved WPS & PQR up to 40 mm thickness 45 ton fabricating capacity in-house parts and material preparations set the stage for efficient fabrication.
- Comprehensive in-house parts production and inventory.
- High-definition plasma cutting, 10ft x 20ft capacity, +/- 1/32-inch precision typical 14-

- foot x 1-inch plate rolling capacity, 24-inches to 15-foot 6-inches diameter.
- Hydraulic presses, CNC & NC shears, bending, punching, iron-workers, milling, rolling, plasma cutting, hot wire automatic orbital welding, auto band saws, etc.
 - Automatic flush grinding, edge preparation, and back gouging.
 - Roller beds supporting up to 15 tons.
 - Wide materials range fabrication includes carbon steel SA516, SA512, SA-36, SA-106B, stainless steel SA 312, SA 240 etc.
 - Pneumatic, hydrostatic, & water flow testing Surface preparation & painting facility.
 - Non-destructive examination (Outsourced) - radiography, dye penetrant, hardness testing - magnetic particle, lining continuity, dry film thickness testing.
 - Heat-treating and stress-relieving (Outsourced).

[Download Data sheet](#)

Standards & Approvals

