



OMKAR ENGINEERS

"Engineers Create The World"

- ASME "U" Stamp Certified
- NBIC "R" Stamp Certified
- PED (2014/68/EU) Approved
- ISO : 140001 : 2015
- ISO : 45000 : 2018
- ISO : 90001 : 2015



Manufacturing

Pressure Vessels,
Heat Exchangers, Skids & Structures
For Various Industries.

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ABOUT US

Established Since 2009, **OMKAR ENGINEERS** is guided by a proficient technical team specialized in manufacturing pressure vessels, heat exchangers, skids, and structural works.

Specialization In Pressure Vessel : Our Pressure Vessel Manufacturing service delivers high-quality, durable vessels tailored for petroleum and chemical plants, adhering to stringent industry standards. Safety and efficiency are our top priorities.

Commitment to Continuous Improvement: We are dedicated to ongoing enhancement, ensuring the highest standards of quality and striving for unmatched customer satisfaction in all aspects of our operations.

Proven Track Record: Acknowledged for our track record of on-time delivery, superior quality, and responsive customer service, making us the trusted partner of choice for leading companies across various industries nationwide.

Expertise in Indigenous Development: Renowned for our capability in developing indigenous import substitutes and executing projects that consistently exceed client expectations.

Technical Excellence: Our deep technical expertise enables us to design and fabricate equipment that complies with international standards such as ASME, PED, IBR, API, or AWS codes, ensuring reliability and safety.

Contact Us: Reach out to us today to explore how our tailored solutions and extensive experience can meet your specific equipment needs and contribute to the success of your projects.

We serve a range of demanding industries across India with our custom pressure vessels and specialized equipment, including:



Chemical

We design and Manufacture equipment to handle pressurized chemicals, ensuring safety and product integrity. Our expertise ensures optimal solutions for various chemical processing needs.

Water Treatment

We design and Manufacture high-standard pressure tanks essential for clean water supply. Our tanks ensure the safe and efficient treatment and storage of water.

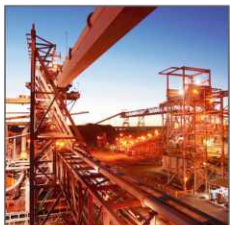


Oil & Gas

We supply durable, high-performance pressure vessels for oil and gas, engineered for extreme conditions, ensuring safety and compliance with industry standards.

Natural Resources

We build ASME pressure vessels for oil and gas, mining, and renewable energy companies. Our vessels are designed to handle critical operations and ensure smooth processes.



Coal & Mining

We produce material handling equipment for coal, cement, power generation, steel, metal processing, and mining. Our robust solutions withstand the harsh conditions of these industries.

Industrial Production

We provide services and products that enhance manufacturing efficiency and reliability. Our diverse offerings help companies streamline their production workflows.



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PRESSURE VESSELS

- Omkar Engineers is a leading manufacturer of above-ground custom pressure tanks, vessels, and process equipment
- We prioritize safety for both our customers and employees.
- Our team is dedicated to delivering exceptional quality, timely delivery, and responsiveness.
- Applications include chemical processing, oil and gas storage, and industrial manufacturing.



HEAT EXCHANGERS

- Core Product: Heat exchangers are a central offering, leveraging state-of-the-art machining resources and a skilled workforce.
- Shell & Tube Heat Exchangers: Our specialty includes high-pressure and exotic metallurgy exchangers.



PRODUCT RANGE

- Sulphur Condensers
- Bayonet Tube Exchangers
- Catalyst Coolers
- Transfer Line Exchangers
- Evaporators
- High-Pressure Feed Water Heaters
- Surface Condensers
- Waste Heat Exchangers
- Multi-Tube Hairpin Exchangers
- RG Boilers

REACTORS

- High-Pressure Reactors: Designed for oil and gas refineries.
- High-Temperature Reactors: Suitable for high-temperature applications
- High-Metallurgy Reactors: Built to withstand harsh chemical environments.
- Applications: Petrochemical, fertilizer, and chemical industries worldwide.



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COLUMNS & TOWERS

- Packed Columns: Efficient for separation processes.
- Tray Towers: Optimized for various industrial applications
- Energy Sector: Tailored solutions for the energy industry's specific needs



SKID & PIPING

- Hydroburst Systems: Manufactured for water treatment and the oil and gas industries.
- Custom Skids: Designed for seamless integration into existing systems.
- Piping Solutions: High-quality piping systems to ensure operational efficiency.



DISHED ENDS

- Comprehensive Range: Providing a full array of dished ends for Shell & Tube Heat Exchangers.
- High Standards: Ensuring top performance and durability.
- Industries Served: Oil & gas, refinery, petrochemical, fertilizer, power, water & wastewater, and chemical industries.



CUSTOM FABRICATION

- Chimneys: Custom-built to meet specific industrial needs.
- Platforms & Ladders: Engineered for safety and durability.
- Designed and fabricated as per customer requirements.
- Additional Custom Solutions: Tailored fabrication to meet unique operational needs.



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METALLURGIES

■ **Omkar Engineering** offers a wide range of metallurgies to meet the diverse needs of various industries. Our expertise in metallurgy ensures that our products are of the highest quality and can withstand the most demanding conditions.

- (1) **Carbon Steel Grades** : Boiler Quality, HIC (Hydrogen Induced Cracking), NACE (National Association of Corrosion Engineers), LT (Low Temperature)
- (2) **Exotic Special Grades** : Titanium Gr.1/2/16, Alloy 600, 625, 693, 825, SS904/904L, Hastelloy C 22/276, Alloy 28, Cupro Nickel 70:30/90:10. Monel 400, SS310L
- (3) **Stainless Steel Grades** : Austenitic, Super Austenitic, Duplex, Martensitic, Ferritic
- (4) **Low Alloy Steel Grades** : 2.25Cr1Mo, 1.25Cr0.5Mo, C 0.5 Mo, 3.5% Ni, Hardox/C45
- (5) **Combinations with Clad** : SS + Duplexes (31803/32205, 32304, 32750), CS + Titanium Gr.1/2

Our comprehensive range of metallurgies ensures that we can provide the perfect material solution for any application, delivering high performance, durability, and reliability.

FACILITIES/INFRASTRUCTURE

At Omkar Engineering, our state-of-the-art production facilities and skilled workforce enable us to manufacture high-quality fabricated dish ends, tori cones, equipment, machinery products, and structural works. Our robust infrastructure ensures we consistently deliver exceptional products.

UNIT 1: Kathwada G.I.D.C., Ahmedabad, Gujarat (Area: 8000 Sq. Feet)

Location: Plot No-323, Road No-5, Kathwada G.I.D.C., Ahmedabad, Gujarat, India

Covered Shade Area: 30m Length x 12m Width x 6m Height (with crane)

Key Equipment & Capabilities

- Plate Bending Machine: Handles up to 12mm thickness x 2000mm width
- 10 MT Capacity Crane/Hoist: For efficient material handling
- CNC Plate Cutting Machine: 3500W x 6300L, cuts up to 200mm

Welding Expertise:

- Qualified welders for Carbon Steel & Stainless Steel materials
- TPI Approved WPS & PQR for quality welding procedures
- High-quality welding by Rectifier/Transformer type welding machines
- Qualified welders for RT (Radiography Test) joint welding
- Non-RT weld joints tested by DPT (Dye Penetrant Test)

Additional Resources:

- Machining facilities available
- Access to hydra and small crane for additional lifting & tilting requirements
- Inverter Base Welding Machines: 4 nos.
- Grinder Machines-AG7 (7" capacity): 4 nos.
- Grinder Machines-AG4/5 (4" capacity): 5 nos.
- Drilling Machine: 1 no. (40mm max.)
- Pug Cutting Machine Set: 2 nos.
- Hand Cutting Torch: 2 nos.
- CNC Oxyfuel / Plasma Cutting Machine : 1 nos.



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UNIT II: Sanand G.I.D.C., Ahmedabad, Gujarat (Area: 19500 Sq. Feet)

Location: Plot No-E-387, Road No-27, Near UGVCL Office, Sanand G.I.D.C., Ahmedabad, Gujarat, India

Covered Shade Area: 42m Length x 22m Width x 10m Height (with crane)

Open Area: 13m Length x 50m Width

Key Equipment & Capabilities

- 20 MT/5 MT Capacity Overhead Crane: For handling large components
- Radial Drill Machine RM-65 HMT: Drill Dia - 90mm thickness, Tube Sheet Dia - 4000mm, Thickness up to 300mm
- Plate Bending Machine: Up to 50mm thickness - Himalaya
- 500 Ton Hydraulic Press: For dish end manufacturing up to 45mm thickness & 4000mm diameter

Welding Machines:

- SAW Welding Machine 1000 Amp: 1 no.
- MIG Welding Machines 400 Amp: 2 nos.
- TIG Welding Machines Water Cool 400 Amp: 2 nos.
- SMAW Welding Machine 400 Amp : 6 nos.

Welding Expertise:

- Qualified welders for Carbon Steel & Stainless Steel materials
- TPI Approved WPS & PQR for quality welding procedures
- High-quality welding by Inverter Base welding machines
- Qualified welders for RT (Radiography Test) joint welding
- Non-RT weld joints tested by DPT (Dye Penetrant Test)

Additional Resources:

- Machining facilities available
- Access to hydra and small crane for additional lifting and tilting requirements
- Inverter Base Welding Machines: 6 nos.
- Grinder Machines-AG7 (7" capacity): 8 nos. Grinder Machines-AG4 (4" capacity): 4 nos.
- Pug Cutting Machine Set: 2 nos.
- Hand Cutting Torch: 2 nos.
- Handling Equipment
- Plasma Cutting Machine : 1nos



MANUFACTURING & DIMENSIONAL CAPABILITIES

(1) Manufacturing/Dimensional Capabilities : Pressure Vessels | Columns | Reactors | Chimneys

- Diameter: "We regularly manufacture up to 6000 mm in diameter and can accommodate larger diameters for specific project requirements."
- Height/Length: Capable of fabricating lengths up to 90 meters.
- Thickness: We regularly manufacture up to 50 mm in thickness and can accommodate higher thickness for specific project requirements."
- Weight: Each equipment piece can weight up to 50 MT.

(2) Shell & Tube Heat Exchangers

- Tubesheet Thickness: Capable of handling thicknesses up to 150 mm.
- Tube Outer Diameter (OD): Supports tubes with diameters up to 80 mm.
- Weight: Each heat exchanger can weigh up to 50 MT.
- Types: We manufacture all TEMA (Tubular Exchanger Manufacturers Association) types of heat exchangers.

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(3) Dished Ends

- Thickness: Fabrication capabilities for thicknesses up to 40 mm.
- Diameter: Can handle diameters up to 5.5 meters.
- Quality Assurance: Each dish end undergoes strict quality checks, including dimensional accuracy and NDE testing, ensuring compliance with ASME standards.

(4) Design & Engineering Resources

- Software : Thermal Design (HTRI), FEA & Fatigue Analysis FEA, Mechanica Design (PV Elite), 3-D Modelling, Drafting.
- We use the latest engineering software and design tools to deliver high-quality, custom-engineered solutions to meet specific project requirements across various industries.

CODES & STANDARD

- ◆ American Society of Mechanical Engineers (ASME)
- ◆ EN13445
- ◆ PD5500
- ◆ American Society of Testing Materials (ASTM)
- ◆ Tubular Exchanger Manufacturers Association (TEMA)
- ◆ Expansion Joints Manufacturers Association (EJMA)
- ◆ ANSI
- ◆ American Welding Society (AWS)
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- ◆ NBIC "R" Stamp Certified
- ◆ Indian Standard (IS)
- ◆ Pressure Equipment Directive (PED) / CE Marking
- ◆ GOST/TRCU (Russia)
- ◆ SANS 347 (South Africa)
- ◆ MOM (Singapore)
- ◆ DOSH (Malaysia)
- ◆ ARH (Algeria)
- ◆ Indian Boiler Regulations (IBR)

INSPECTION AGENCIES

- ◆ Lloyds Register Asia (LRQA)
- ◆ Bureau Veritas
- ◆ TUV Nord
- ◆ TUV Rheinland
- ◆ TUV SUD
- ◆ Project Development India Limited
- ◆ Certification of Engineers India Limited
- ◆ SGS India Private Limited
- ◆ RINA
- ◆ VELOCI

Partnering with these renowned inspection agencies ensures our products undergo rigorous scrutiny, meeting stringent quality and safety standards globally.



OUR CLIENTS



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Contact Us

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📍 **UNIT -I** : Plot no-323, Road no-5, Kathwada 📍 **UNIT -II**: Plot no-E-387, Road No-27 Near UGVCL Office, G.I.D.C Ahmedabad, Gujarat (India) 📍 **UNIT -II**: Plot no-E-387, Road No-27 Near UGVCL Office, Sanand_II BOL GIDC, Ahmedabad, Gujarat (India)

