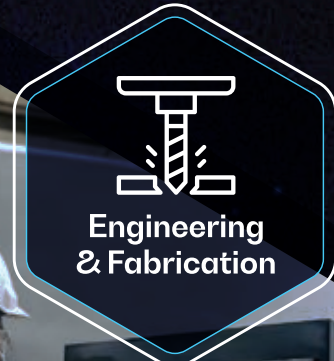




المزروعي للطاقة
Mazrui Energy
A MAZRUI INTERNATIONAL COMPANY



Engineering
& Fabrication



Customized Solutions Engineering, Fabrication & Manufacturing



SIGMA
ENGINEERING WORKS
A MAZRUI ENERGY COMPANY

Overview

Sigma Engineering Works (SEW) is a trusted leader in the manufacturing of a broad range of API products for the oil and gas industry, as well as ASME-certified static equipment. We serve diverse sectors including oil and gas, refinery, maritime, petrochemical, chemical, pharmaceutical, cement, manufacturing, and power generation. SEW operates from state-of-the-art facilities in Musaffa and Jebel Ali.

Since 1992, SEW has delivered premium services such as engineering, machining, cladding, welding, pressure testing, blasting and painting, and special coatings. We also specialize in field services, repair, and recertification of API and ASME equipment, supporting clients across the UAE, the Middle East, and globally.

Sigma Engineering Works has a long history of operational excellence, and has earned a solid reputation for:

-  High Quality
-  Partner of choice for global & local energy specialists
-  Cost-effective Solutions
-  Speed to Market
-  Customer Service Excellence
-  Advanced Facility Technical Know-how
-  Customer Orientation
-  International Team of Competent Experts
-  Operational Excellence



Strategic Joint Ventures:



As a result of its strategic location in the United Arab Emirates our company has a vast service reach throughout the globe.



Operation > Abu Dhabi - Dubai - Kuwait - Iraq - Yemen

Branch Offices > KSA - Qatar - South Iraq & North Iraq - Turkey

○ **UAE Headquarters**

Our Value Proposition

Sigma Engineering Works has established and implemented a QHSE operational management system that sits at the core of our energy sector business practices as part of its objective to grow sustainability.

We adhere to international best practices and are diligent when it comes to quality, health, safety and the environment regulations and procedures.



Licenses and Accreditations

API6A	Wellhead and Tree Equipment
API 16A	Drill Through Equipment
API 16C	Choke and Kill Equipment
API 7-2	Threading and Gauging of Rotary Shouldered Thread Connections
API 5B	Threading, Gauging, and Inspection of Casing, Tubing, and Line Pipe Threads
ASME U Stamp	Certifies that the manufacturer meets the quality control system requirements outlined in the ASME Boiler and Pressure Vessel Code (BPVC) for the design and fabrication of pressure vessels.
ASME U2 Stamp	Certification for pressure vessel design, fabrication, inspection, and testing, meeting the requirements of Section VIII Division 2 of the ASME BPVC.
ASME R Stamp	Authorizes the repair and alteration of pressure-retaining equipment, including pressure vessels and boilers.
NB Symbol	Indicates certification from the National Board of Boiler and Pressure Vessel Inspectors for the repair of pressure relief valves.



Certifications and Approvals:

Approved ADNOC Vendor for pressure vessels, tanks, skid packages, flare systems, DNV Baskets, Piping, offshore/Onshore steel structures, pumps and compressors repair, heat exchangers, wellhead refurbishment services, and more.



Quality Management Certificates

ISO 9001:2015	Quality Management System Requirements
ISO 14001:2015	Environmental Management System
ISO 45001:2018	Occupational Health and Safety Management System
API Q1, 10th Edition	Quality Management System Requirements for Manufacturing Organizations Providing Products in the Petroleum and Natural Gas Industry
API Q2, 2nd Edition	Quality Management System for Service Supply Organizations in the Upstream Oil and Gas Industry



We provide local competence to support our international partners.



Our facilities occupy over 35,000 sqm combined over locations in Mussafah, Abu Dhabi and Jebel Ali, Dubai.



We are fully accredited and qualified engineer, machine, manufacture, and protective surface finish a full range of product to customer specifications.

Our Solutions

Sigma Engineering Works delivers a wide range of engineering solutions to the oil and gas, nuclear energy, renewable energy, maritime, petrochemical, power generation, and utility sectors. Fully accredited and qualified, we specialize in providing custom engineering, machining, and production services tailored to meet the specific needs of our clients, including:



API Products



ASME Products
(Fabrication and
Engineering Services)



Refurbishment
Re-certification



Customized
Manufacturing
and Machining



Rig
Equipment
Maintenance



Well Services



Specialized
Coating Services



Workshop
Support



API Products

Sigma Engineering Works (SEW) is a fully licensed facility for API 6A, 16A, 16C, 7-2 & 5B, equipped to meet the diverse needs of our clients. We specialize in manufacturing both API components, adhering strictly to industry standards and specifications to ensure top-quality products.

Our expertise includes the following API components:

- API 6A Wellhead and X-mas tree Equipments as per OEM drawings , procedure and standards
- API 16A Drilling spools and spacer spools.
- API 16C Rigid choke and kill lines, choke and kill manifold buffer chambers.
- API 7-2 Threading for rotary shouldered connections – NC, REG, FH.
- API 5B Threading for casing and tubing, including:
 - SC Short round thread casing
 - LC Long round thread casing
 - BC Buttress thread casing
 - NU Non-upset tubing
 - EU External upset tubing





ASME Products (Fabrication and Engineering Services)

Our ability to fabricate all material grades, including carbon steels, low alloy steels, stainless steels, nickel & copper alloys, and all required QHSE certifications is enhanced by the availability of available resources, technical experts, certification in ASME, U & U2 stamp, R stamp with national board, NB Stamp, and all required QHSE certifications.



ASME Products

(Fabrication and Engineering Services): Sigma Engineering Works (SEW) is an ASME-certified facility, holding U, U2, and R Stamps, along with the NB marking. Our capabilities include the design, fabrication, inspection, and testing of products that meet the stringent quality control requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (BPVC).

Our expertise in manufacturing ASME-compliant equipment includes:

- Pressure vessels
- Tanks
- Process skids
- MPFM skids
- Surge tanks
- Separators
- Heat exchangers
- Mud tank systems
- Storage tanks
- Chemical injection skid packages
- Pig launcher and receiver
- Baskets and containers

In addition, SEW specializes in Structures & Piping, offering services in:

- Steel structures
- Flare stacks
- Rig mast structures
- Burner booms
- Skid-mounted packages
- Pipe fabrication and spool fabrication
- Welding and weld overlay (cladding) for bores ranging from 2" to 60"



Refurbishment and Re-certification

Sigma Engineering Works (SEW) offers comprehensive refurbishment and re-certification services in strict adherence to OEM specifications and international codes and standards.

Our services include:

Oilfield Drilling & Production (Onshore/Offshore):

- Repair and refurbishment of API Products, including 6A, 16A, 16C, 5B, and 7-2
- Repair and refurbishment of blowout preventers (BOPs), wellheads, Christmas trees, and choke and kill manifolds (valves and components)
- Stack-up testing for BOP and wellhead & Christmas tree systems

Control Systems:

- Manufacture and repair of control manifolds
- Manufacture, service, and repair of hydraulic control panels
- Repair and service of accumulator racks

Refinery and Oil & Gas Production Services

Sigma Engineering Works specializes in the overhaul, repair, testing, and certification of pipeline valves utilized across various industries, including oil and gas, water and wastewater, and power generation. Our services cover a comprehensive range of valve types, including:

- Ball Valves
- Butterfly Valves
- Gate Valves
- Globe Valves
- Check Valves
- Relief Valves
- Control Valves

Rotating Equipment (Repair & Refurbishment)

At Sigma Engineering Works (SEW), we specialize in the repair and refurbishment of rotating equipment, offering a comprehensive range of services including:

- Offshore Pump Risers
- Centrifugal Pump Body Machining
- Split Casing Machining
- Pump Parts & Components
- Impeller Trimming
- Rework of Locating Spigot
- Sleeve Manufacturing and Re-Sleeving



Customized Manufacturing and Machining

Sigma Engineering Works (SEW) specializes in the manufacturing and machining of a diverse range of non-API products, including:

- Manufacturing and machining of Non-API products like ANSI flanges, Pipe machining, cladding, Pipe flanges machining, Sand filters etc.
- Flanges i.e. Weld neck, slip on, Socket weld, Threaded, Instrument, Companion, VRP protector, Target, Test and Blind flanges.
- Parts for rotating equipment i.e. Shafts, Sleeves, Casing wear rings, Impeller wear rings, Couplings etc.



Well Services

We are assisting our customer with site activities such as installation, welding, and testing on site, as well as a variety of other tasks, including but not limited to:

- Cold Cutting, bevelling and welding



Rig Equipment Maintenance

Sigma is a registered service provider for major Oil & Gas companies in UAE and across the Middle East. We are committed to providing the highest level of service quality to our customers' equipment under maintenance both onboard and at our regional workshops. We provide quality, cost-effective solutions delivered safely and on time by our experienced team.

Sigma provides services for drilling equipment not limited to but includes the following:

- Mud Pumps
- Draw works
- Rotary Tables
- Crown Blocks
- Traveling Blocks
- Deadline Anchors
- High Pressure Manifolds

Well Control Equipment – BOP Stacks, Diverters, Control Units, Choke and Kill Manifolds

- Rig Cranes
- Braden Winches
- RAM Winches & Hoist
- Mud Cooling System

With Services Including:

- Inspection, Disassembly, Dimensional and NDT Checks
- Mechanical Repairs to Agreed Scope



Specialized Coating Services

Sigma Engineering Works offers comprehensive internal and external coating solutions tailored to client specifications. Our specialized coating services include:

- Manganese Phosphating
- Xylan Coating
- Everslik Coating
- Epoxy Coating
- Polyurethane Coating
- PTFE Coating
- Tank/Vessel External Coating & Internal Lining, Glass Flake Lining
- Ceram Kote

These advanced coating options are designed to enhance the durability and performance of equipment in various industrial applications.



NDT & Heat Treatment Inspection

- We provide NDT services like RT, UT, MPI & DPI for all material as applicable. We even provide advance NDT services like ToFD & PAUT.
- Heat treatment facility, both electrical & gas firing.
- Calibration & certification of equipment (inspection) i.e. Pressure gauges, Transmitters, Chart recorder etc.
- ASME Level-3 Services for Pressure Vessels Manufacturer





المزروعي للطاقة Mazrui Energy

A MAZRUI INTERNATIONAL COMPANY

**YOUR STRATEGIC
ENERGY PARTNER
FOR SUSTAINABLE
GROWTH**



OVER **50** YEARS
OF OPERATIONAL
EXCELLENCE

For more than 50 years, Mazrui Energy is the partner of choice globally for conventional and clean energy markets through its operating businesses and joint venture partnerships.



Sigma Engineering Works

+971 2 411 3900

+971 2 551 0771

Mussafah Industrial Area
Po Box 3555
Abu Dhabi, United Arab Emirates

Sigma Engineering Works FZE

+971 4 883 0077

+971 4 883 0282

Jabel Ali Freezone
Po Box 263157
Dubai, United Arab Emirates



sew@sigma.ae
www.sigma.ae