



Customized Energy
Engineering
Solutions



A MAZRUI
ENERGY SERVICES
COMPANY

Overview

Sigma Engineering Works has established itself as a leading one-stop solutions provider and trusted partner for a wide range of engineering services, including fabrication, manufacturing, machining service and repair, and other services for the Oil & Gas, Maritime, Petrochemical, Power Generation, and Utility sectors in the United Arab Emirates and the Middle East region for more than two decades.

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



Partner of choice for global & local energy specialists



Speed to Market



Advanced Facility Technical Know-how



International Team of Competent Experts



In-Country Value



High Quality



Cost-effective Solutions



Customer Service Excellence



Customer Orientation



Operational Excellence

Authorized
UASME
Vessel Manufacturer

Authorized
U2 ASME
Vessel Manufacturer

Authorized
RSTAMP
Repair Facility

Q1
API Spec Q1
Registered
Q1-0131

Q2
API Spec Q2
Registered
Q2-0145

ISO 9001
ISO 14001
ISO 45001
BUREAU VERITAS
Certification

iirsm
PARTNER

**BRITISH
SAFETY
COUNCIL**
Member

APQ
6A - 0458
16A - 0102
16C - 0036
5CT - 0609
7-1 - 0429

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As a result of its strategic location in the United Arab Emirates, Sigma Engineering Works has a vast service reach throughout the Middle East and beyond.

Strategic Joint Ventures:

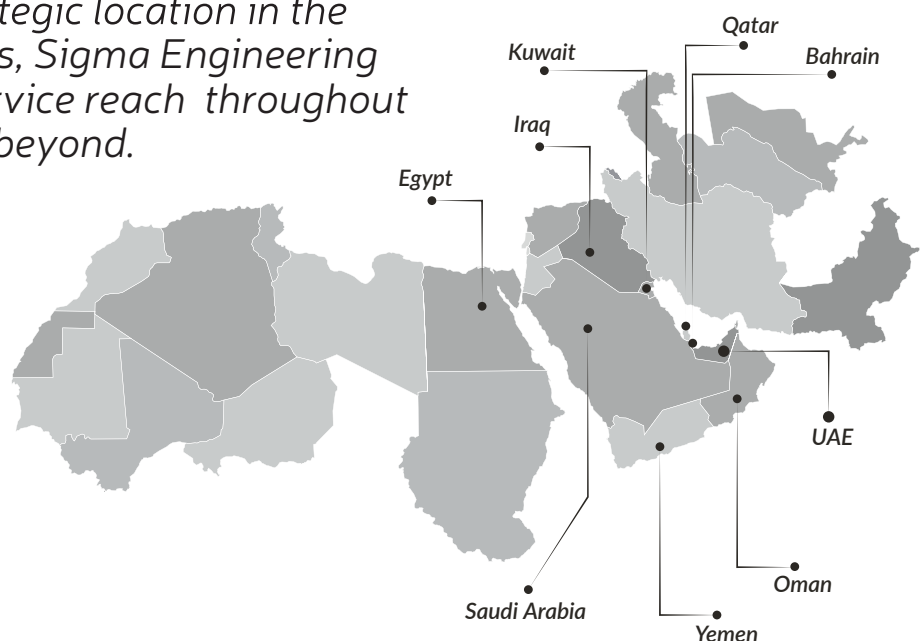
Gas



Nuclear Industry



Advanced Machining



● Headquarters

● Operations

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.



Internaltional Licenses

API - 5CT	Covering Casing and Tubing
API - 6A	Covering Wellhead and Christmas Tree Equipment
API - 7-1	Covering Rotary Drill Stem Elements
	Covering Drill Through Equipment
API - 16A	Covering Choke and Kill Systems
API - 16C	Covering the Manufacture of Pressure Vessels
U Stamp	Div 1 & Div 2 with ASME U
U2 Stamp	U2 designator
R Stamp	Authorized to use "R" symbol for metallic repairs and alterations at site and for field repairs
NB	Authorized to use the "NB" stamp to mark and register boilers, pressure vessels and other pressure retaining items



Quality Management Certificates

ISO 9001 - 2015	Quality Management Requirements
ISO 14001 – 2015	Environment Management System
ISO 45001 – 2018	Occupational Health and Safety Management
API – Q1 9th Edition	Specifications for Quality Programs for Petroleum, Petrochemical and Natural gas Industry
API – Q2 -0145	Provision of Casing Cold Cutting, Bevelling, and welding Services

Approved ADNOC supplier under pressure vessel category upto 38 mm (CS/SS/AS/Clad)



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 to engineer, machine, manufacture, and protective surface finish a full range of products to customer specifications.

Our Solutions

Sigma Engineering Works offers a broad variety of engineering services to organizations in the Oil & Gas industry as well as the nuclear energy, renewable energy, maritime, petrochemical, power generation, and utility industries.

We are fully accredited and qualified to engineer, machine, and produce a broad range of services to fulfill the customer requirements such as:



**Manufacturing of
API Monogram Products**



**Fabrication
& Associated
Engineering Services**



**Refurbishment
& Re-certification**



**Non-API Manufacturing
/ Machining**



**Rig Equipment
Maintenance**



**Field
Services**



**Specialized
Coating Services**



**NDT & Heat
Treatment Inspection**



**Workshop
Support**



**Nuclear Energy
Services**



**Pressure
Testing Services**



Manufacturing of API Monogram Products

In order to meet the needs of our clients, we manufacture components from either supplied or approved drawings, which are developed and derived from parts supplied as samples. It is important to note that all materials utilized in the production process are certified and fully traceable.

Our expertise is manufacturing API Monogram new parts unclosing:

- Elbows | Trees | Crosses | API Flanges | Crossovers | Spools
- Double studded adapter flanges
- Risers
- Process piping spools
- Choke & Kill Manifold, Standpipe manifold, Cement manifold





Fabrication and Associated 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.



- Fabrication of steel structures – main & auxiliary, pipe spools CS/SS/AS/Duplex/Super Duplex/Nickle /Copper Nickle alloy skid packages
- Fabrication of rig mast structures, flare stack, mud tanks systems, rig related support facilities
- Repair of Pressure vessels and heat exchangers as per R Stamp
- Fabrication of ASME U & U2 stamped vessels separators, MPFM skids, Surge tanks skids,
- Fabrication of process skids like 2 & 3 phase separators, MPFM skids, Surge tanks skids,
- Fabrication of columns, storage tanks, Burner Boom
- Fabrication, Assembly and Testing of metering, chemical injection skid packages, DNV 2.7-1 and 2.7-3 structural skids.
- Welding & weld overlay (Cladding) of bores 2" - 60" diameter
- Packaging of pumps, motors for skid mounted packages
- Shot blast and painting with certification by our qualified painting inspectors
- Ceram-Kote specialized paint / coating material



Refurbishment and Re-certification

Our tailor-made Refurbishment and Re-certification services include:

Oilfield Drilling & Production (Onshore / Offshore)

- Repair and refurbishment of Blowout Preventers (BOP), Diverters, X-mas Trees, API & ANSI Valves, confirming to the original manufacturer's specifications.
- We have expertise in doing stack up test for BOP and wellhead systems.
- Manufacture and repair of Control Manifolds. Manufacture, service, and repair of Hydraulic Control Panels. Repair and services of accumulator racks.

Refinery, Oil & Gas Production

- Overhaul, repair, testing and certifying of Isolation and Control Valves, including supply of original manufacturers' spare parts.
- Testing, servicing, and certifying of Pressure Safety Valves and safety Relief Valves, Direct-Acting and Pilot-Operated types.
- Overhaul, service, repair, calibrating and certifying of pneumatic/hydraulic operated Control Valves.

Rotating Equipment (Repair)

- Offshore pump risers, Centrifugal pump bodies, Rotating elements, Impeller trimming, Static and dynamic balancing, Rework of locating spigots.



Non-API Manufacturing / Machining

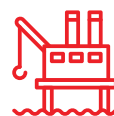
- Manufacturing and machining of Non-API products like ANSI flanges, Pipe machining, cladding, Pipe flanges machining, Sand filters etc.
- Flanges i.e. Weld neck, slip on, Socket weld, Threaded, Instrument, Companion, VRP protector, Target, Test and Blind flanges.
- Parts for rotating equipment i.e.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



Field 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:

- Diverter testing
- Cold Cutting, bevelling, and welding
- DTO installation



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, Diversers, 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

Internal and external coating service as per client requirement which includes:

- Epoxy Coating
- Polyurethane Coating
- Pipes / Fittings External Coating
- Internal Coating
- Tanks/Vessel External Coating and Internal lining and Glass flake lining for vessel internal
- Ceram-kote



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
- Drill Tool Inspection Services
- Rope Assess NDT Services



Workshop Support

We are providing full support to our client with our substantial workshop capacity:

- Providing support from the workshop as per required resources.
- Providing rental space for fabrication and storage facility to our clients.
- Providing technician to execute client projects in our facility.





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