



CEYHAN FABRICATION FACILITY



TEKFEN CONSTRUCTION



Ceyhan Fabrication Facility was established in 1993 with a view to centralize the Company's steel structure and pipe spool fabrication activities. Today, the Plant is capable to serve specific requirements of the projects* undertaken by the Group on 3 continents with an annual fabrication capacity 40.000 tons structural steel and 400.000 WDI pipe spool fabrication.

- ISO 9001:2015 (Quality Management System)
- ISO 14001:2015 (Environmental Management System)
- OHSAS 45001:2018 (Occupational Health and Safety Assessment Systems)
- ISO 27001:2015 (Information Security Management System)
- EN ISO 1090 EXC4 (Conformity of the Factory Production Control)
- EN ISO 3834-2 (Competency in Welding Manufacturing)
- BS EN 1090-1:2009+A1:2011 (Execution of Steel and Aluminium Structures)

certified Facility is equipped with advanced new generation CNC machineries to secure accuracy and high quality in the fabrication of steel and pipe works

For design and drawing requirements. The Facility is in close cooperation with its sister firm TEKFE Engineering Co. Inc. which is specialized in the design and engineering of industrial plants, refineries, petrochemical complexes, thermal power plants, high rises, bridges/viaducts and other structures utilizing extensively up-to-date CAD/CAM with specific software**.



* Refineries, Petrochemical Complexes, Power Plants, Offshore Oil and Gas Platforms, Oil Export Terminals and Jetties, Bridges/Viaducts, E-Houses, Major Industrial Buildings, Specific Steel Structures.

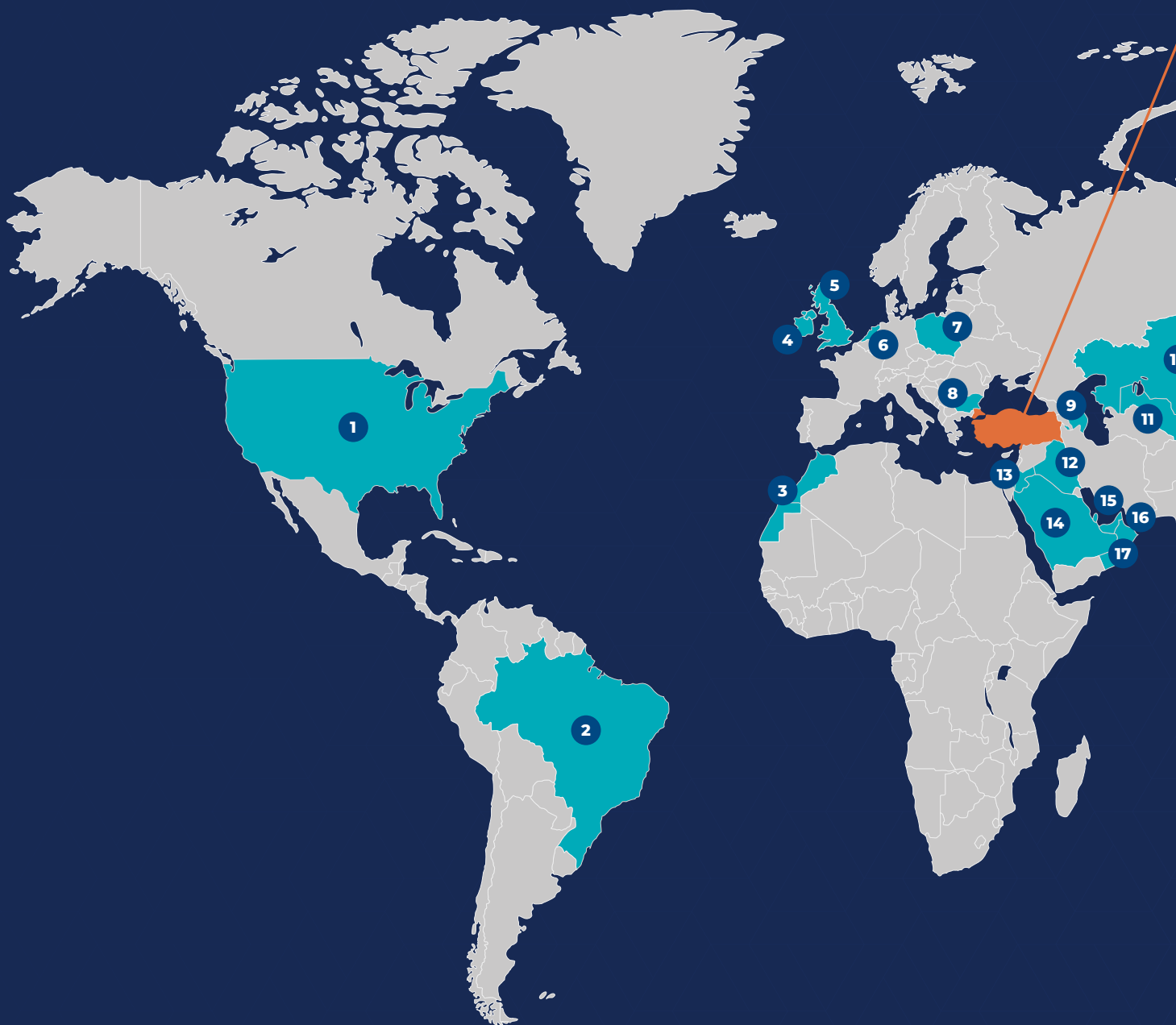
** Specific Software such as X-Steel Tekla, Spoolgen, Etabs, MX, Prokon, Autonest, Ceasar.





FABRICATION FACILITIES

Favorable location with its proximity to Highways, Railways, Iskenderun and Mersin International Ports, alternative transportation options are available for the receipt of raw material and delivery of fabricated products & modules.





- 1 USA
- 2 BRASIL
- 3 MOROCCO
- 4 IRELAND
- 5 UNITED KINGDOM
- 6 NETHERLANDS
- 7 POLAND
- 8 BULGARIA
- 9 AZERBAIJAN
- 10 KAZAKHSTAN
- 11 UZBEKISTAN
- 12 IRAQ
- 13 ISRAEL
- 14 SAUDI ARABIA
- 15 KUWAIT
- 16 QATAR
- 17 OMAN





OUR FABRICATION FACILITY

TEKFEN's Ceyhan Fabrication Facility spreads on an area of 160.000 m² of which 37.500 m² is covered production space consisting of 10 fabrication halls, an open material handling/storage area, a welding training school, managerial divisions, and social facility quarter,

The Facility is equipped with full shot blast, new generation CNC flame cutting, drilling, marking and coping facilities, plate rolling machine, sawing and drilling lines, automated beam welding line and automated and robotic welding equipment, CNC horizontal drilling/milling machines. All machineries are capable to receive up to 3 m width raw materials. Fabricated items of up to 100 ton each can be handled by the Facility.

MANPOWER

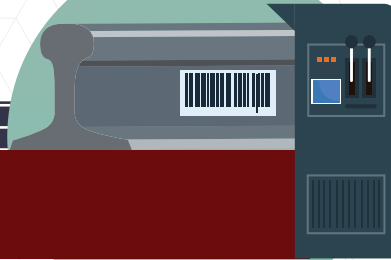
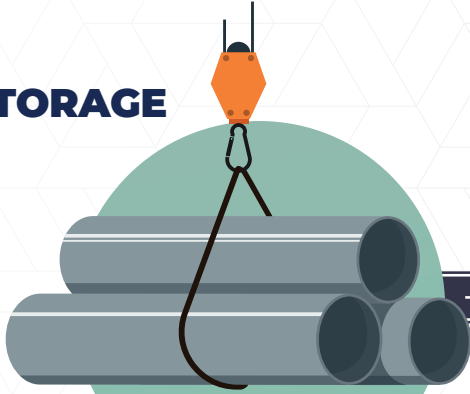
Ceyhan Fabrication Facility employs over 1.350 skilled, well trained direct and indirect personnel of which 1.050 are foremen and workers of the manufacturing team while 40 is employed as subcontracting work force. The Facility has the same strict Quality and HSE requirements also for the hired personnel, subcontractors and third parties involved in its manufacturing activities. The Welding Training School, located adjacent to the production facilities at the same area, is a unique example of its kind providing training for the employees.

Ceyhan Fabrication Facility of TEKFEN has a favourable location due to its proximity to the motorway and two major Mediterranean ports of Turkey, Iskenderun and Mersin, providing a major advantage for the Facility in receiving raw materials and worldwide delivery of skilfully fabricated items.

MATERIAL TRACEABILITY

The Ceyhan Fabrication Facility uses ORACLE ERP – Barcoding System for material traceability. Traceability concept initiates with the receipt of raw material and continues until the fabricated products shipment / dispatch from the Facility.

STORAGE



**BARCODING
SYSTEM FOR
IDENTIFICATION
& TRACEABILITY**



**MATERIAL
RECEIVING**



Barcoding System is the ability in tracking fabricated items, with saving time and improving efficiency.

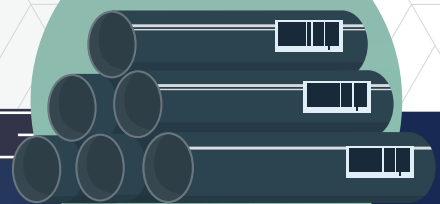
PREPARATION OF MATERIAL



SHIPMENT



PRODUCTION



SURFACE PREPARATION & PROTECTION



MATERIAL HANDLING / STORAGE / DISPATCH

The Facility has a spacious open Stock and Dispatch Yard equipped with gantry, tower and mobile cranes suitable to lift up to 100 tons. Incoming steel plates and rolls, pipes and fittings are handled and stored to be introduced to the pre –production shop for blasting, chamfering, shearing, drilling, sawing, or other initial treatments. Tower cranes operate at structural steel and pipe spool stockyard and dispatch area.

Open Area Cranage

- 16 tons x 22 meters gantry crane; h: 7,5 m
- 50 tons x 20 meters gantry crane; h: 7,5 m (2 ea.)
- 20 tons x 20 meters gantry crane; h: 7,5 m (2 ea.)
- 25 -100 tons mobile crane. (5 ea.)
- 3,6 - 8 tons x 50 meters tower cranes. (6 ea.)



HSE / 9+1 LIFE SAVING RULES



SAFETY CONTROLS

Safety systems are designed to protect you and those around you. Obtain work permit before overriding or disabling safety systems.



LINE OF FIRE

Stay away from moving objects, vehicles, pressurized systems and objects at risk of falling.



CONFINED SPACE

Obtain necessary permits and make sure that the necessary protective equipment is ready before entering the confined space.



LIFTING OPERATIONS

Make sure that the lifting equipment is in good condition and that the lifting operation is managed by a competent person.



SAFE DRIVING

Drive safely. Always wear your seat belt, do not use phones or similar devices, and do not exceed speed limits while driving. Get enough rest before driving.



WORK PERMIT

Work permits describe how the work can be performed safely and helps to control the precautions to be taken. Obtain the necessary work permits for your task.



ENERGY ISOLATION

Identify potential hazards such as mechanical, electrical, pressure, toxic material, hot surface, hot liquid and isolate them before starting work.



WORKING AT HEIGHT

Protect yourself against the risk of falling from height when working at heights without proper protective systems. Always use safety harness.



HOT WORKS

Keep open flame, heat and flammable sources under control, that may cause fire or explosion.

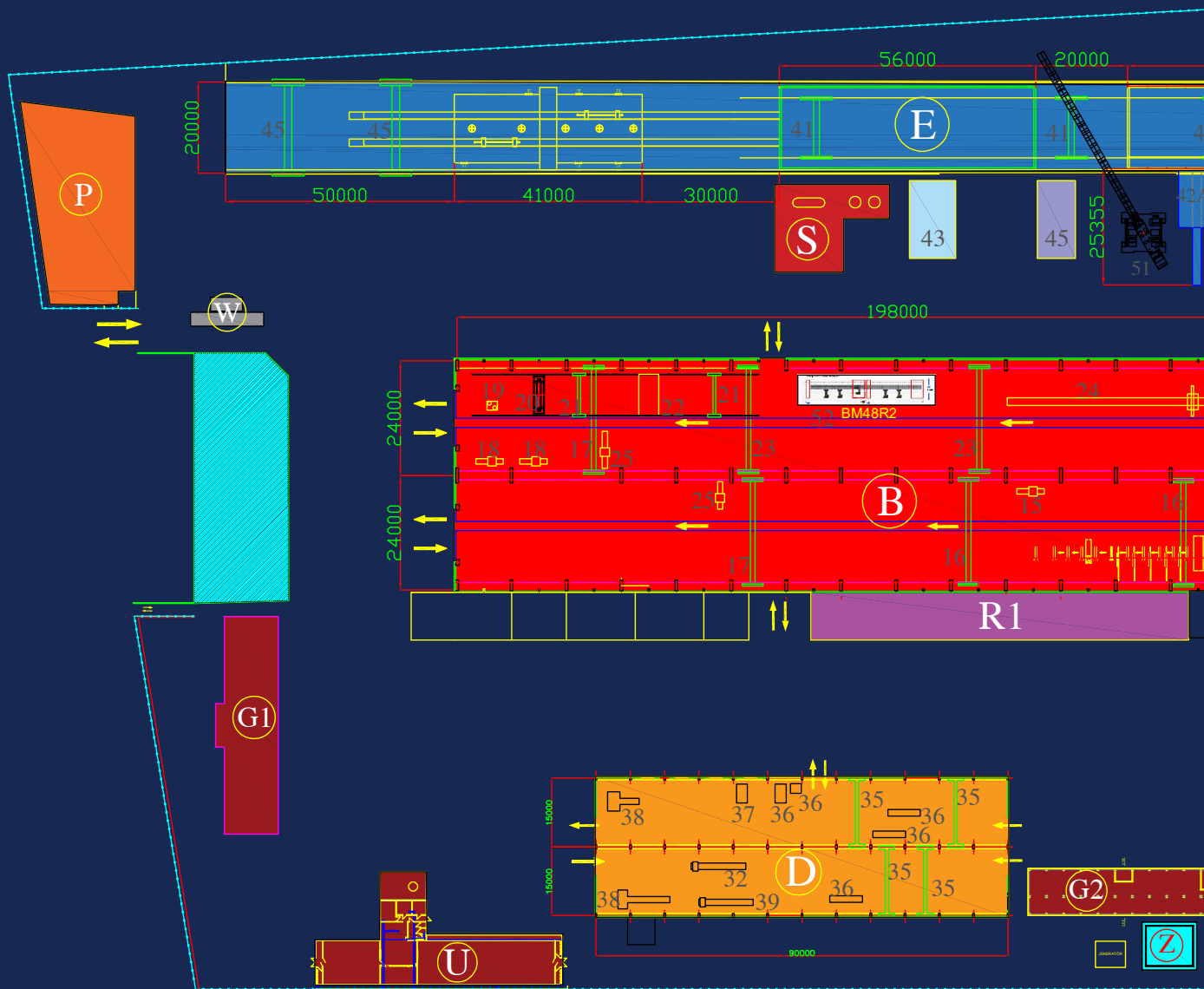


THE STOP WORK POLICY

Always use "The Stop Work Policy" to prevent unsafe acts or conditions. All employees are authorized and responsible to Stop Work if it is unsafe.

REMEMBER, IF YOU SEE IT, YOU OWN IT! SAY STOP BEFORE TOO LATE!





FACILITY LAYOUT

A-Preproduction Halls

- 1-AUTOMATIC BLASTING MACHINE
- 2-CNC FLAME CUTTING MACHINES (2 ea)
- 3-BEAM WELDING LINE
- 4-CNC PLATE DRILLING/PUNCHING MACHINE
- 5-CNC PLATE DRILLING & CUTTING MACHINE
- 6-HYDRAULIC EDGE BENDING PRESS
- 7-HYDRAULIC GUILLOTINE SHEAR
- 8-16 TONNE OVERHEAD CRANES (5 ea) h=13 m
- 9-RADIAL DRILLING MACHINES
- 10-CHAMFERING MACHINE
- 11-MATERIAL CARRIAGE
- 12-10 TONNE OVERHEAD CRANE (1 ea) h=9,5 m
- 13-CNC DRILLING LINE
- 14-CNC BEAM COPING LINE

B-Assembly & Welding Halls

- 15-PLASMA PIPE CUTTING MACHINE
- 16-20/5 TONNE OVERHEAD CRANES (2 ea) h=9,5 m
- 17-16 TONNE OVERHEAD CRANES (2 ea) h=9,5 m
- 18-AUTOMATED SPOOL WELDING FIXTURE
- 19-PROFILE BENDING MACHINE
- 20-800 TONNE HYDRAULIC PRESS
- 21-5 TONNE GANTRY CRANES (2 ea) h=4 m
- 22-HYDRAULIC FOR ROLLS PLATE BENDING MACHINE
- 23-32/7,5 TONNE OVERHEAD CRANES (2 ea) h=9,5 m
- 24-SUBMERGED WELDING MACHINE
- 25-HORIZONTAL MILLING MACHINES (2 ea)
- 52-AGT ROBOTIC WELDING MACHINE

C-Carbon Steel Pipe Spool Fabrication Halls

- 26-PIPE BEVELLING MACHINES (2 ea. 2"÷12", 12"÷24")
- 27-PIPE CUTTING MACHINES Ø 1000 mm
- 28-SEMI AUTO PIPE WELDING MANIPULATORS (8 ea)
- 29-32/8 TONNE OVERHEAD CRANES (4 ea) h=9,5 m
- 30-RADIAL ARMS (12 ea)
- 31-CNC PIPE CUTTING AND BEVELLING MACH. Ø1200 mm
- 32-PLASMA PIPE CUTTING MACHINE 2"-16"
- 33-CNC PIPE CUTTING AND BEVELLING MACH. 6"-16"
- 34-SAW PIPE CUTTING MACHINE Ø420 mm

D-Stainless Steel Spool Fabrication Halls

- 32-PLASMA PIPE CUTTING MACHINE 2"-16"
- 35-10 TONNE OVERHEAD CRANES (4 ea) h=7,5 m
- 36-SEMI AUTO PIPE WELDING MANIPULATORS (5 ea)
- 37-RADIAL DRILLING MACHINE
- 38-CIRCULAR SAW CUTTING MACHINE Ø1000 mm, Ø280 mm
- 39-PIPE CUTTING AND BEVELLING MACHINES 12"-24"

E-Blasting & Painting Halls

- 40-35 TONNE GANTRY CRANES (2 ea) h=13 m
- 41-6 TONNE GANTRY CRANES (5 ea) h=4 m
- 42-AUTOMATIC BLASTING MACHINE
- 43-AUTOMATIC PAINTING CABINET (W:6 X L:18m X L:5m)
- 44-AUTOMATIC BLASTING CABINET (W:6 X L:18m X H:5m)
- 45-10 TONNE OVERHEAD CRANE (3 ea) h=9,5 m

T- Welder School

U-Canteen

W-Gate House & Weigh Bridge

X-Waste water

Y-Hazardous Wastes

Z-Transformer

F-Pickling & Passivation Area

G-Office Blocks

H-PWHT Furnace Facility

- 46-50/10 TONNE GANTRY CRANES (1 ea) h=7,5 m
- 47-PWHT FURNACE

J-Scrap Material Area

K-Fittings Warehouse

L-Stock Yards

- L1-Plate
- L2-Profile
- L3-Plate & Profile
- L4-Pipe

- 48-16 TONNE GANTRY CRANE (1 ea) h=7,5 m
- 49-40/6 TONNE GANTRY CRANES (1 ea) h=7,5 m

M-Heavy Assembly Area

- 50-50/10 TONNE GANTRY CRANES (1 ea) h=7,5 m

N-Dispatch Yards

- 51-TOWER CRANES (4 ea)

Q- RT Bunker

P-Car Park

R-Warehouse

- R1-Consumables / Spares
- R2-Paint Materials
- R3-Misc. out of usage goods

S-LPG Tank & Mix Gas Tanks





QUALITY CONTROL & QUALITY ASSURANCES

Tekfen's Ceyhan Fabrication Facility's quality control team consists of 38 certified engineers, technicians, inspectors, and operators. Fit-up, Visual and dimensional controls are performed by TEKFEEN's qualified inspectors on the spool and structural steel fabrications. PMI Tests are carried out for alloy and stainless-steel material by own TEKFEEN's qualified inspectors.

The Ferrite Measurement Test is also performed on Duplex & Super Duplex and stainless-steel materials by our qualified inspectors.

We have Ultrasonic Hardness Test equipment to conduct the measurement of the hardness values in both heat-affected zone and weld metal for the alloy and carbon steel pipes.

NDT tests (Magnetic Particle Examination Test, Dye Penetrant Examination Test, Ultrasonic Examination Test, and Radiographic Examination Test) are carried out by the second-party NDT company.

All destructive tests for PQR and material verifications such as Tensile Test, Bending Test, Macro Test, Hardness Test, Charpy Impact Test, and Corrosion Test are carried out by independent and accredited organizations (OZBAL Lab., METU Lab., MATIL Lab., ANADOLU DOKUM Lab. in TURKEY and EXOVA Lab. in ABU DHABI) under the witness of third party.

FABRICATION HALLS

The Facility has 4 fabrication shops and operates at total 7 fabrication halls equipped with overhead cranes of 64 t max. handling capacity.

Pre-Production Shop

- Plate Preparation Hall 1 (30 m x 120 m):
Equipped with 3 x 16 ton overhead cranes. (h: 13,5)
- Profile Preparation Hall 2 (30 m x 120 m):
Equipped with 2 x 16 ton overhead cranes. (h: 13,5)

Fabrication Shop 1

- Assembly and Welding Hall 1 (24 m x 168 m):
Equipped with 2x20 ton and 1 x 16 ton overhead cranes. (h: 9,5)
- Assembly and Welding Hall 2 (24 m x 168 m):
Equipped with 2 x 32 ton and 1 x 16 ton overhead cranes. (h: 9,5)

Fabrication Shop 2

- Carbon and Alloy Steel Pipework's Hall 1 (24 m x 100 m):
Equipped with 2 x 32 ton and 1 x 10 ton overhead cranes,
h: 9,5 m and 12 x 1 ton radial arms.
- Carbon and Alloy Steel Pipework's Hall 2 (24 m x 100 m):
Equipped with 2 x 16 ton overhead cranes,
h: 9,5 m and 10 x 1 ton radial arms.
- Carbon and Alloy Steel Pipework's Hall 3 (24 m x 100 m):
Equipped with 2 x 20 ton overhead cranes,
h: 9,5 m and 10 x 1 ton radial arms.
- Carbon and Alloy Steel Pipework's Hall 4 (24 m x 120 m):
Equipped with 2 x 16 ton overhead cranes,
h: 9,5 m and 10 x 1 ton radial arms.

Stainless Steel Pipework's Shop

- HALL - (30 m x 90 m): Equipped with 4 x 10-ton overhead cranes, h: 4,5 m and 20 x 1 ton radial arms.
- There are 6 Blasting and Painting shops capable to paint up to 3000 tons a month.

Blasting and Painting Shop 1:

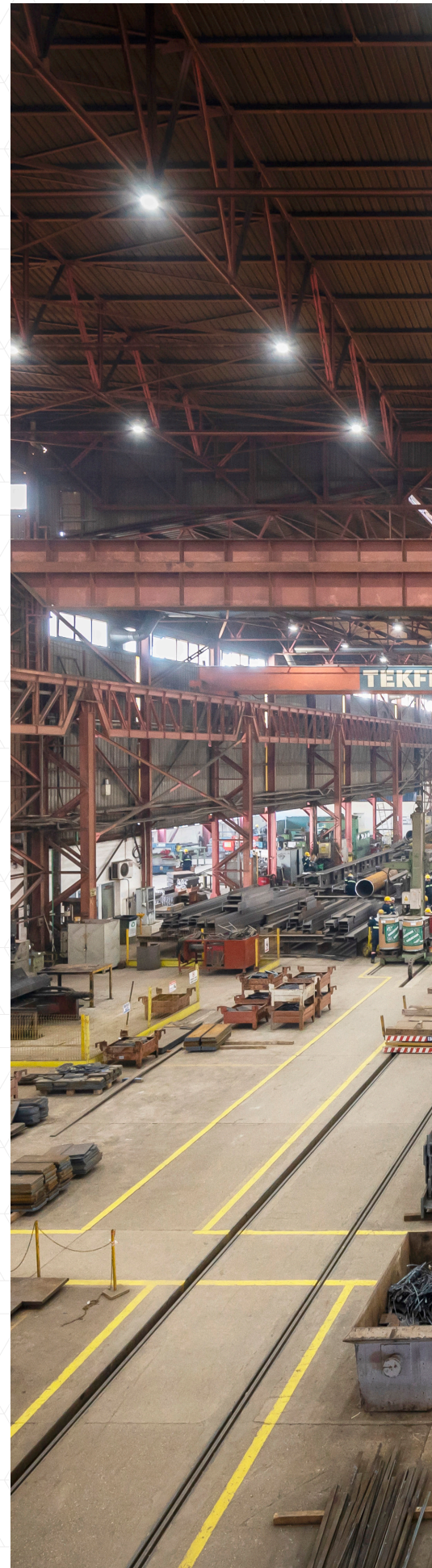
- Equipped with 5 ton gantry cranes, (h: 4 m), 1 blasting machine (750 kg capacity) and 2 airless paint pumps 60:1 ratio.

Blasting and Painting Shop 2,3,4,5 :

- Equipped with 2 x 35 ton gantry cranes (h:13 m)
5 x 6 ton gantry cranes, (h: 4 m), 1 Horizontal automatic blasting machine, 4 Manuel blasting equipment (750 kg capacity) and 8 airless paint pumps 60:1 ratio.

Blasting and Painting Shop 6 (20 m x 60 m x 9,5 m):

- Equipped with 5-ton overhead crane, (h: 4 m),
1 Manuel blasting cabin (W:6 m x L:18 m x H:5 m)









WELDING AND WELDERS TRAINING SCHOOL

Taking responsibility for health, safety, environment and quality at all levels of the organization and complying with the related laws, decrees, regulations, standards and client's requirements.

TEKFEN's Welder Training School provides the Group a cutting edge in the competitive construction industry. Welders to be employed in the premises are trained and examined under third party supervision. The Training School also provides trained and certified welders for the erection sites.

Trainings:

- Welding
- Blasting
- Painting
- Plate Preparation
- Profile Preparation
- Pipe Spool Work





OFFSHORE REFERENCES



P76 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: TTP76 (Techint-Technip)-Petrobras

The fabrication of 7.500 tons steel structures of total 17 Process Modules, Main & Riser Pipe racks, Flare Tower and 3.000 tons Duplex / Super Duplex, SS, LTCS, Cu/Ni and CS piping works. (2014-2016)



P58 AND P62 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: ABB-QUIP-Petrobras.

Supply of Steel Structure of 2 E-House Modules, 570 tons each. (2011-2012)



P74 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: EBR (Toyo-Setal)-Petrobras.

The fabrication of 3.000 tons steel structures of total 11 Process Modules and supply of complete Flare Tower including Process Piping and Heat Shield Panels 330 tons total. (2013-2014)



P58 AND P62 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: QUIP -Petrobras

The supply and fabrication of 10.500 tons process modules, flare towers, helideck, pipe racks and other structures. (2011-2013)



P63 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: HITEC/QUIP-Petrobras.

The supply of 620 tons Chemical Injection Process Module. (2011-2012)



P63 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: QUIP-Petrobras

The fabrication of 4.000 tons steel structures of total 8 Process Modules. (2010-2011)



P63 FPSO OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: QUIP-Petrobras

The supply of 130 tons Flare and Knock-out Drums Module. (2011-2012)



P55 SUBMERSIBLE OFFSHORE OIL AND GAS PLATFORM, BRAZIL

Client: QUIP-Petrobras

The fabrication of 4.000 tons topside deck box panels and steel structures. (2009-2010)



OFFSHORE OIL & GAS PLATFORMS(2) / BAKU, AZERBAIJAN

Client: BP - AIOC (Azerbaijan International Operating Company)

The fabrication of 5,000 t heavy and complex steel works and 2,000 t duplex/super duplex, SS piping works for two offshore oil platforms to be launched on the Azeri-Chirag-Guneshli Field located on the Caspian Sea. (2002-2007)



COMPRESSION & WATER INJECTION PLATFORM (CWP), TOPSIDE FABRICATION WORKS PROJECT

Client: AIOC, Azerbaijan International Operating Company

The fabrication of 3,000 tons steelworks for CWP offshore platform, 800 tons Duplex/Super Duplex, SS piping works.



ONSHORE REFERENCES



SPC LPG MERCAPTANS REMOVAL PACKAGE MODULE PROJECT, EGYPT

Client: Merichem / ENNPI

The design, supply, fabrication, and installation of LPG Mercaptans Removal Module Project.
(2021-2022)



WG011-EA-013 OSBL SUBSTATION E-HOUSE PROJECT, IRAQ

Client: Siemens / SHELL

The supply and fabrication of OSBL Substation E-House Project. (2021)



INTEL SPARROW E-HOUSE PROJECT, ISRAEL

Client: Siemens / Hoffmann

The supply and fabrication of 13 OSBL Substation E-House for Sparrow Project. (2022)



POWER DISTRIBUTION CENTRE PROJECT, IRELAND

Client: Siemens / Air Product

The supply and fabrication of Power Distribution Centre E- House Project. (2021)



FLOUR-ESSO PETROLEUM – FAST PROJECT, UK

Client: Technip Energies

The supply and Fabrication of furnace structural steel for Flour-Esso Petroleum-Fast Project. (2021-2022)



PARNAIBA V - BOTTOMING CYCLE - MODULARIZED PIPERACKS PROJECT, BRAZIL

Client: TECHINT

The supply, fabrication and assembly of piperack for Parnaiba V Bottoming Cycle Project. (2020)



LANAZ NAPHTHA COMPLEX PROJECT, IRAQ

Client: Honeywell UOP

The supply, fabrication and installation of structural steel, pipe spool, E&I, equipment, PFP, insulation works for LANAZ Naphtha Complex Modular Piperack Project. (2020-2021)



TANAP COMPRESSOR & METERING STATIONS PROJECT, TURKEY

Client: TANAP

The fabrication of 12.000 tons steel structures of total 8 Stations and 220.000 WDI (10.000 ton) Stainless Steel and Carbon Steel piping works.



TUPRAS RESIDUUM UPGRADING PROJECT, TURKEY

Client: TUPRAŞ-Tecnicas Reunidas

The supply, fabrication and assembly of 18.000 tons steel structures and 3.700 tons CS, 1.300 tons AS and 1.000 tons SS pipe spool fabrication for Tüpraş RUP Project. (2012-2013)



BURSA LIGHT RAILWAY BRIDGE, TURKEY

Client: Municipality of Bursa State

The fabrication and erection of 2.000 tons bridge structures for light railway.



RABIGH REFINERY UPGRADE, RABIGH, SAUDI ARABIA

Client: Petrofac-Aramco JV.

The fabrication of 9.000 tons piperacks and platforms for Upgrading Works.



AL THUMAMA STADIUM, QATAR

Client: Eversendai

The supply and fabrication of 4.200 tons Compression Ring, Columns and Facade structures. (2021)



BAKU OLIMPIC STADIUM, BAKU, AZERBAIJAN.

Client: SOCAR (State Oil Company of Azerbaijan Republic)

The supply and fabrication of 13,000 tons structural steel. (2013-2014)



ATATÜRK OLYMPIC STADIUM / ISTANBUL, TURKEY

Client: Olympic Committee of Turkey

The fabrication of 5,400 tons of steel works with high-complex geometry for the two roofs of 80,000 seat Olympic Stadium located in Istanbul. (1998-2002)



THE NEW HEADQUARTERS BUILDING FOR CENTRAL BANK OF THE REPUBLIC OF AZERBAIJAN, BAKU, AZERBAIJAN

Client: Central Bank of the Republic of Azerbaijan

The supply, fabrication, and installation of 5.500 tons of structural steel. (2022-2023)



SOCAR TOWER, BAKU, AZERBAIJAN.

Client: SOCAR (State Oil Company of Azerbaijan Republic)

The supply and fabrication of 6.000 tons structural steel. (2012-2013)



TOROS CEYHAN JETTY PROJECT

Client: Tekfen Agri-Industry Group

The fabrication of 2,500 tons of structural steel of gallery and 12,000 tons of piles for jetty.



SAMIR REFINERY UPGRADE / MOHAMMEDIA, MAROCCO

Client: C/O Société Anonyme Marocaine de l'Industrie du Raffinage.

The fabrication of 8,000 tons of piperacks and platforms for upgrade works and 600 tons of Duplex / Super Duplex, SS piping works. (2005-2009)



AFŞIN ELBISTAN B THERMAL POWER PLANT / KAHRAMANMARAŞ, TURKEY

Client: EÜAŞ, Electricity Generation Company

The fabrication of 36.000 tons of steel works for the 4 x 360 MW lignite fired power plant; main boiler supports and other steel structures. (2000-2006)



TAG MOTORWAY / TURKEY

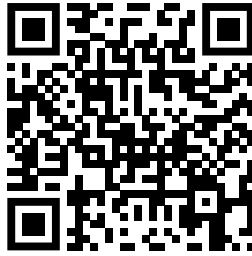
Client: TCK, General Directorate of Highways, Turkey

The fabrication of 20.000 tons of steel decks for road bridges, viaducts and tunnels within the 258 km motorway construction scheme extending from Tarsus, Adana to Gaziantep, southern Türkiye. (1987-2002)



TEKFEN CONSTRUCTION

Human and Nature; we tune in to both...



Please click for corporate video

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