

Competence  
and Global Experience



# Teknokon Group Companies

**TEKNOKON MACHINERY**



Design and fabrication  
of industrial process equipment

**TEKNOKON INDUSTRY**



Undertaking of lump sum  
turnkey Industrial erection &  
construction projects

**TEKNOMONT**



EPC services for energy,  
environmental and water  
projects

**TEKNOPUR**



Turnkey scaffolding services

**TEKNOKON MAINTENANCE**



Large spectrum maintenance  
services for industrial plants

**TKN DESIGN**



Design and Engineering  
service for industrial plants



Teknokon Group affiliates execute & manage construction of plants by providing:



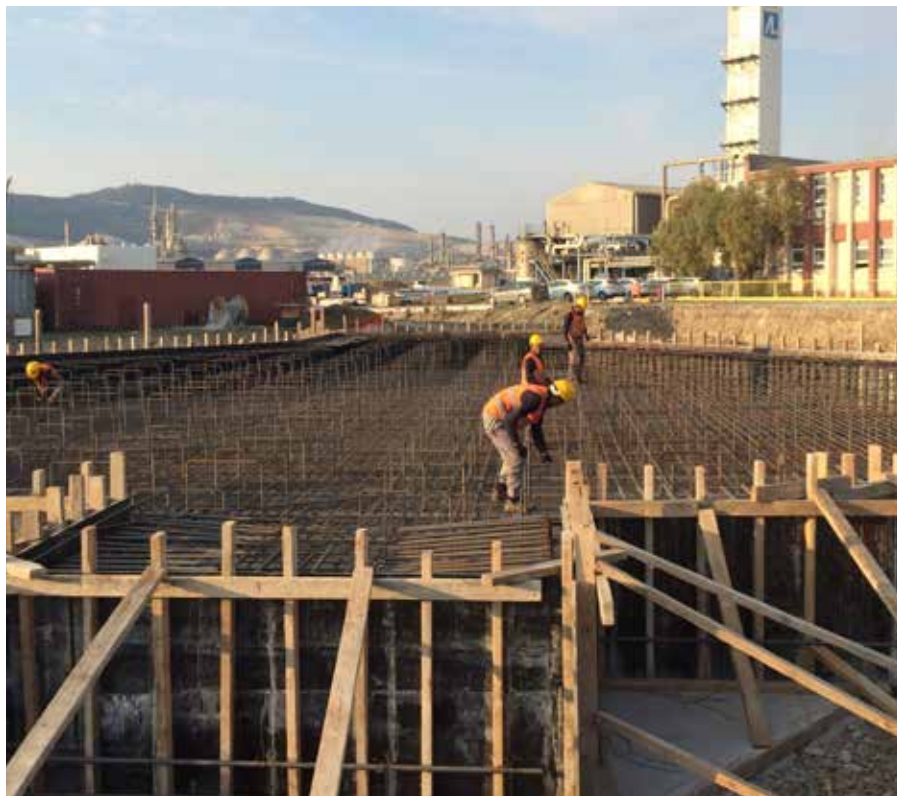
DETAIL ENGINEERING



PROCUREMENT AND MATERIAL  
MANAGEMENT



FABRICATION OF PROCESS  
EQUIPMENT



INFRASTRUCTURAL & CIVIL  
WORKS



MECHANICAL ERECTION



PIPING PRE-FABRICATION &  
ERECTION



ELECTRICAL &  
INSTRUMENTATION WORKS



SCAFFOLDING



COMMISSIONING & START UP



MAINTENANCE AND  
TURN-AROUNDS





## Teknokon Machinery Highlights

- Teknokon was founded in 1993 in Istanbul / Turkey
- Mechanical design and fabrication of process equipment from various steel grades
- Total fabrication area of 110.000 sq. ft (10.000 m<sup>2</sup>) in Dilovası / Kocaeli - Turkey
- Supplied process equipment to more than 50 countries worldwide
- 400.000 fabrication manhours per year
- ISO Certifications
- ASME U & S & R Stamps
- PED 2014/68/EU and CE Marking
- Teknokon was ranked as Turkey's 6<sup>th</sup> fastest growing company in 2012
- Teknokon gives Health, Safety and Environment the first priority in all its organizational levels as part of its values, ethics and strategies.





## Strengths

- Globally Competitive Prices
- Recognition for fabrication of high quality equipment worldwide
- International Management, Quality and Safety Systems
- Flexibility
- Excellence in Planning and Resourcing
- On-time delivery
- Long term working relations with all customers
- Dedicated shops for Stainless Steel and Carbon Steel
- Easy access to ports for shipment of large equipment



A collection of safety equipment including a white hard hat, yellow safety glasses, a red walkie-talkie, a pair of brown leather work gloves, and a pair of tan work boots, all arranged on a wooden plank surface.

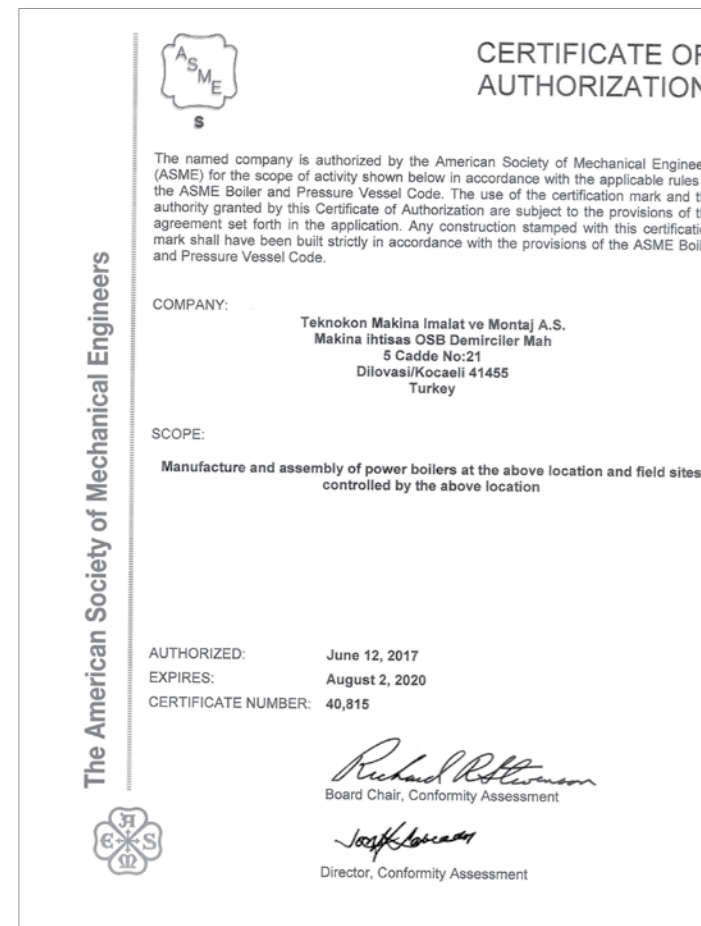
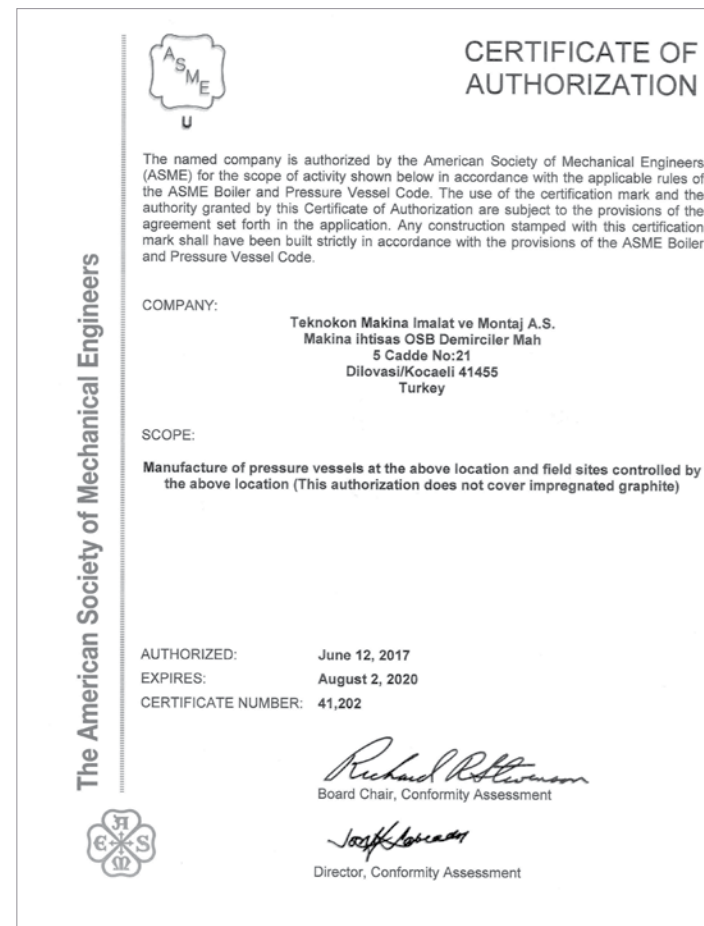
## Safety

- OHSAS 18001 Certification
- Continuous in-house safety training program
- External safety training programs
- Personal protective equipment
- Periodical safety audits
- Management safety commitment declaration
- In-house developed safety manuals and safe working procedures
- Zero LTI target
- Environmental controls in areas of dust, noise and hazardous materials



Our quality target is to achieve 100% customer satisfaction by continually providing a high quality standard that meets customer expectations.

**Quality Certificates:** ISO 9001, ISO 14001, OHSAS 18001 , ASME-U, ASME-S, ASME-R, NATIONAL BOARD, AD 2000–Merkblatt HP0 and PED 2014/68/EU, DIN-EN ISO 3834-2







CHEMICALS



MINING



FOOD



BEVERAGE



OIL & GAS



ENERGY & WATER



PETROCHEMICALS



MARINE



# Services

Teknokon Machinery executes and manages complete fabrication projects by providing:

- Detail Mechanical Engineering based on Project Specifications
- Project Management
- Procurement
- Fabrication of Various Process Equipment
- Quality Control and Quality Assurance
- Third Party / NoBo
- Packing / Seaworthy Packing
- Easy Transportation Worldwide







PRESSURE VESSELS



S/T HEAT EXCHANGERS



STORAGE TANKS



SILOS



REACTORS AND MIXING TANKS



VARIOUS PROCESS EQUIPMENT

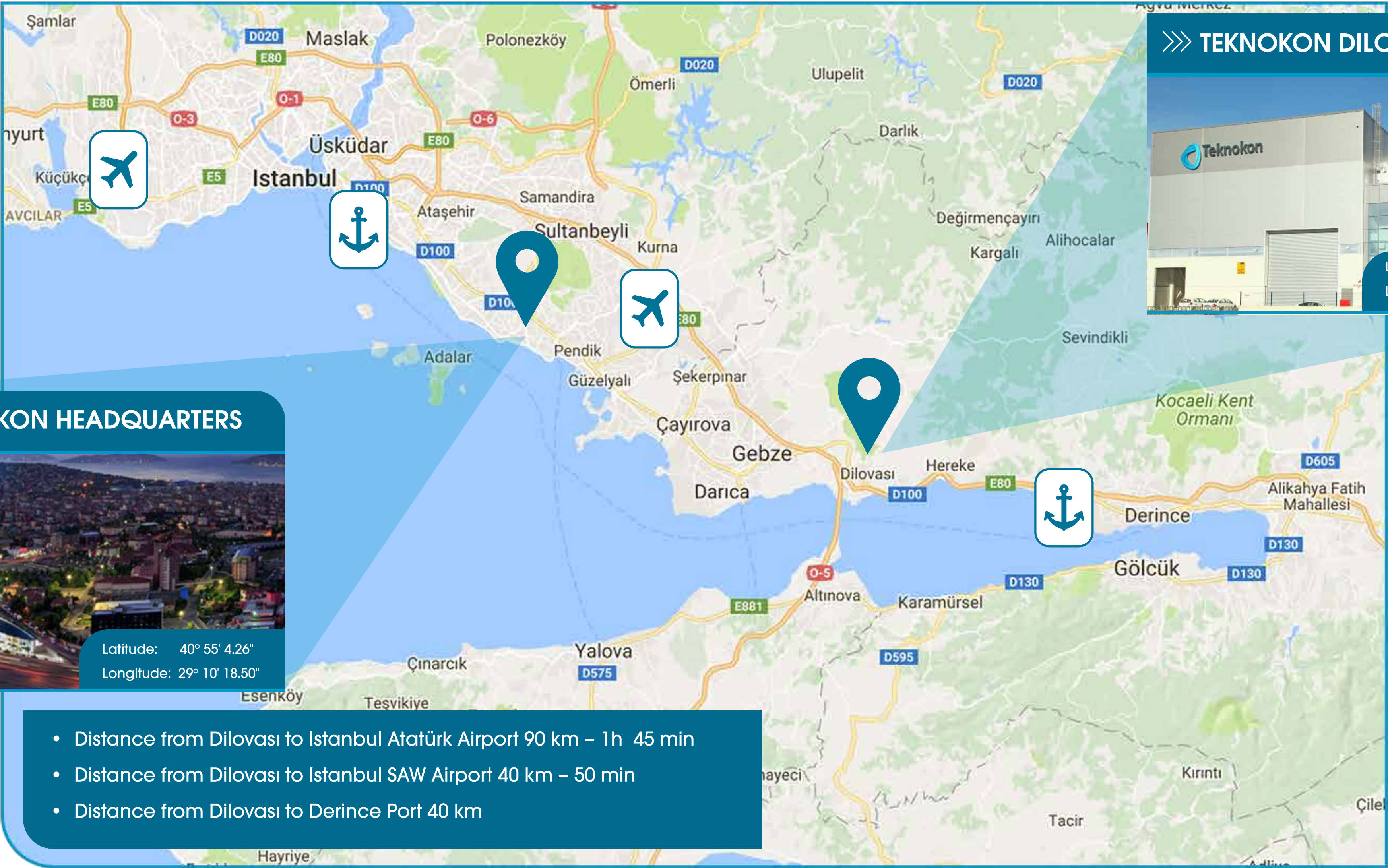


PIPING SPOOLS



MODULAR SKIDS





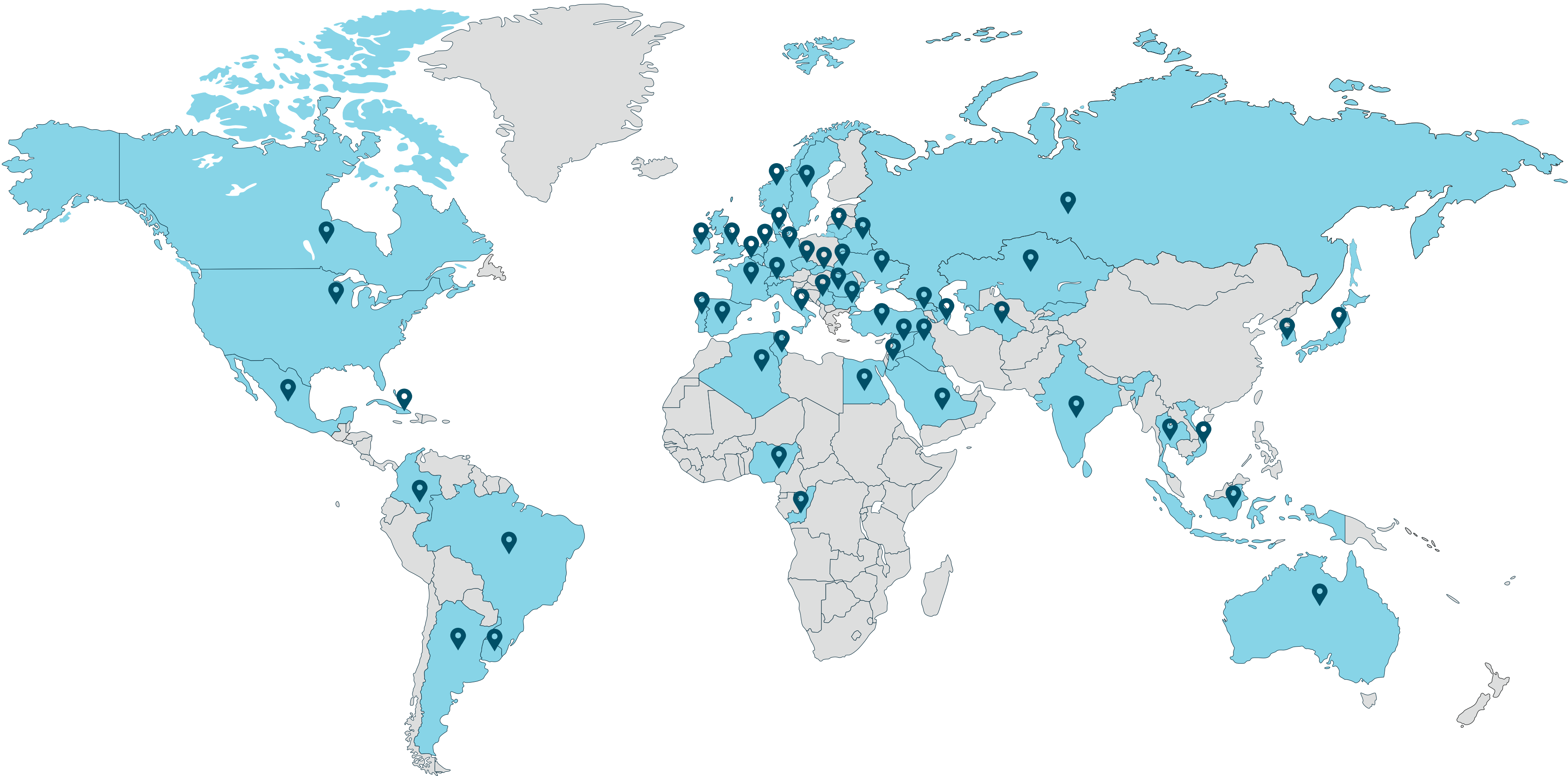




## Fabrication Plant

- Two – Storey Factory, 10.000 m<sup>2</sup> Fabrication Area
- 4x25 tons, 4x10 tons, 2x5 tons Overhead Cranes, 14.5 m Max. Underhook Height
- EN & ASME Certified Welders and Welding Engineers
- CNC Plasma Cutting Machine
- 4 Ball Bending Cylinders
- Profile and Pipe Bending Machine
- Automatic Plasma and TIG Welding Machines
- Submerged Arc Welding Machines (Circumferential and Longitudinal)
- Orbital Welding Machines
- Finishing / Passivating / Polishing





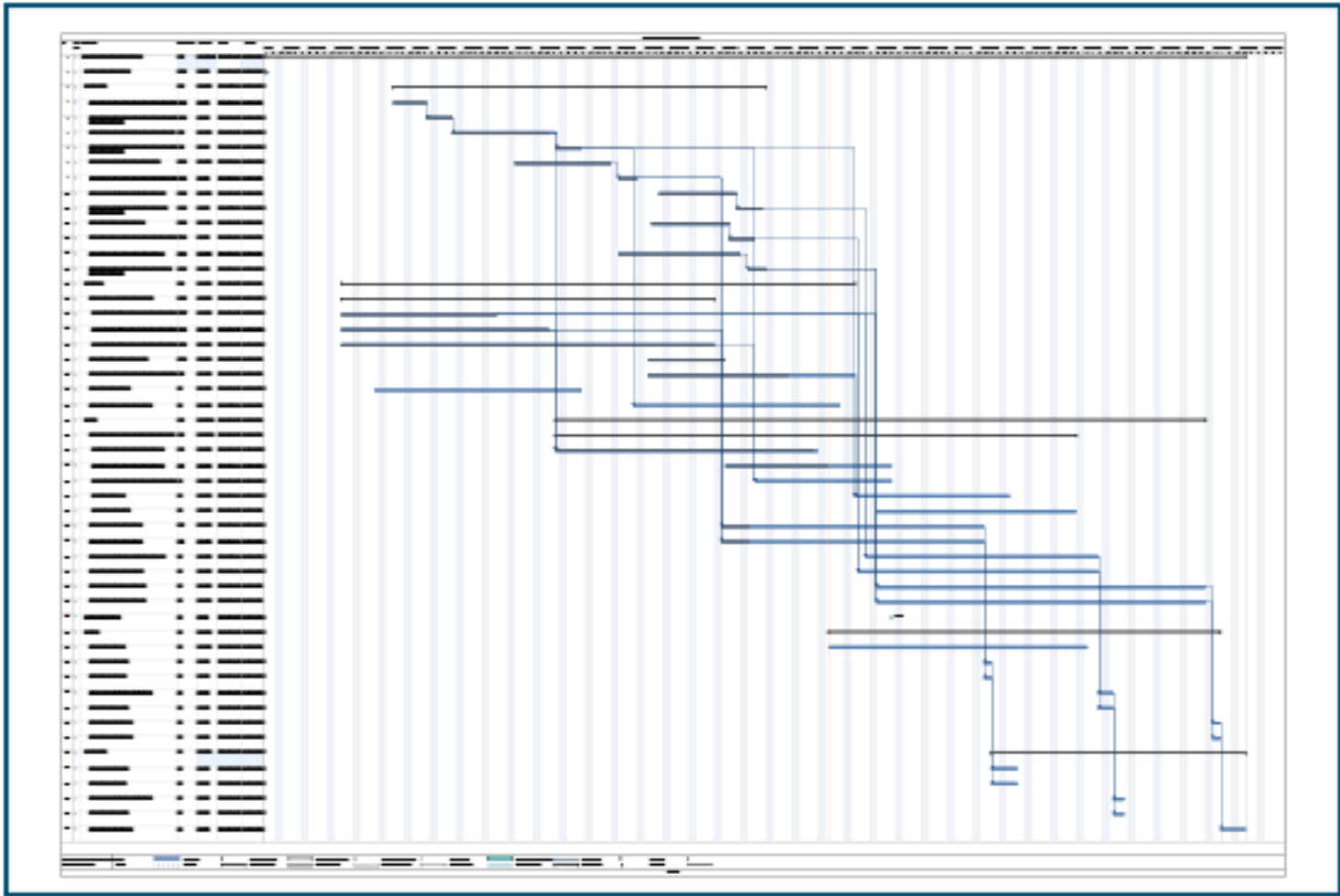
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CANADA	COLOMBIA	CONGO	CUBA	CZECH REPUBLIC	DENMARK	EGYPT	FRANCE
GEORGIA	GERMANY	INDIA	INDONESIA	IRAQ	IRELAND	ITALY	JAPAN
JORDAN	KAZAKHSTAN	LITHUANIA	MEXICO	NIGERIA	NORWAY	POLAND	PORTUGAL
ROMANIA	RUSSIA	SAUDI ARABIA	SERBIA	SLOVAKIA	S. KOREA	SPAIN	SYRIA
SWEDEN	SWITZERLAND	THAILAND	TUNISIA	TURKEY	TURKMENISTAN	UKRAINE	U.K.
U.S.A.	URUGUAY	VIETNAM					



>>> OUR CLIENTS



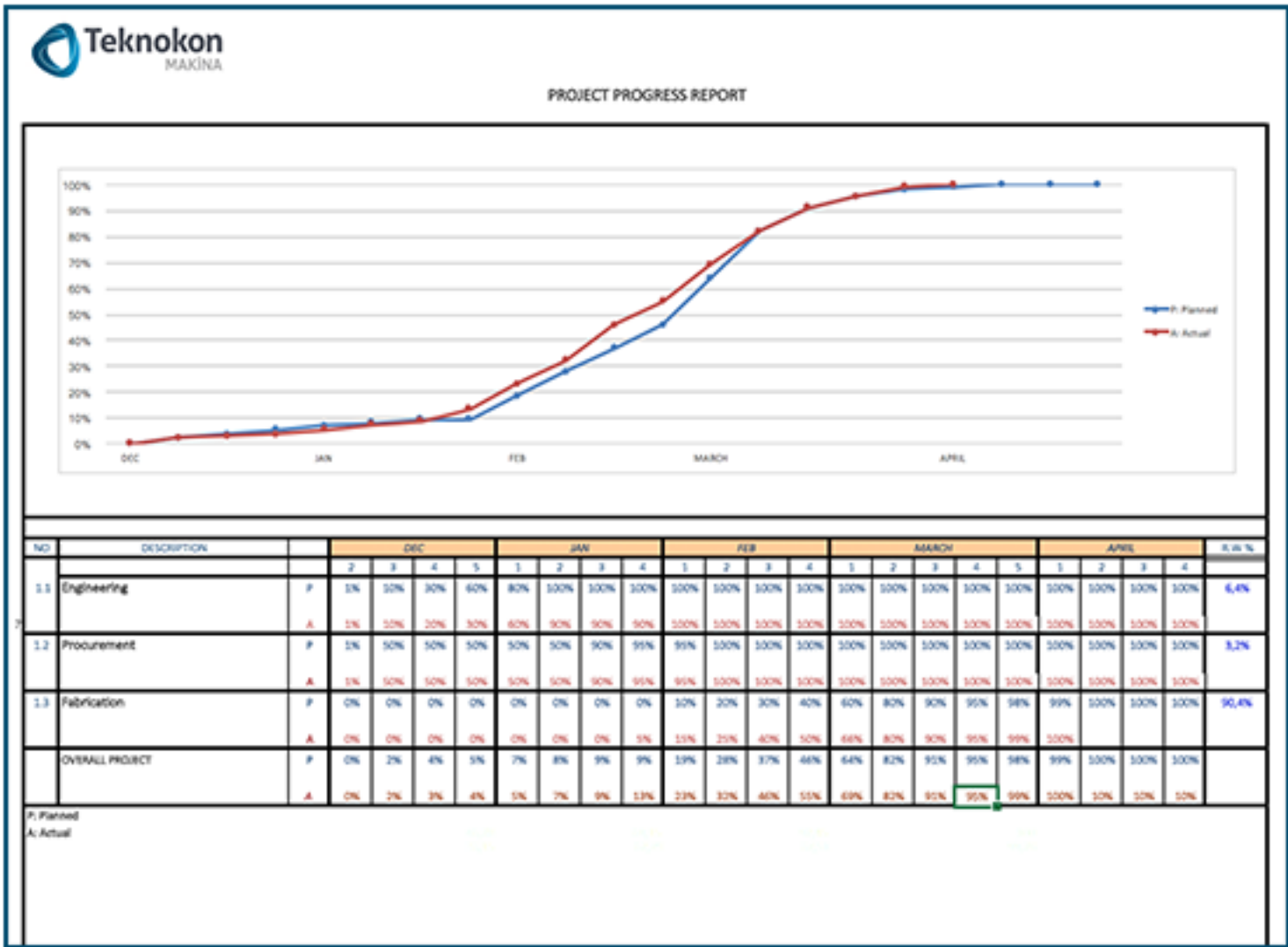




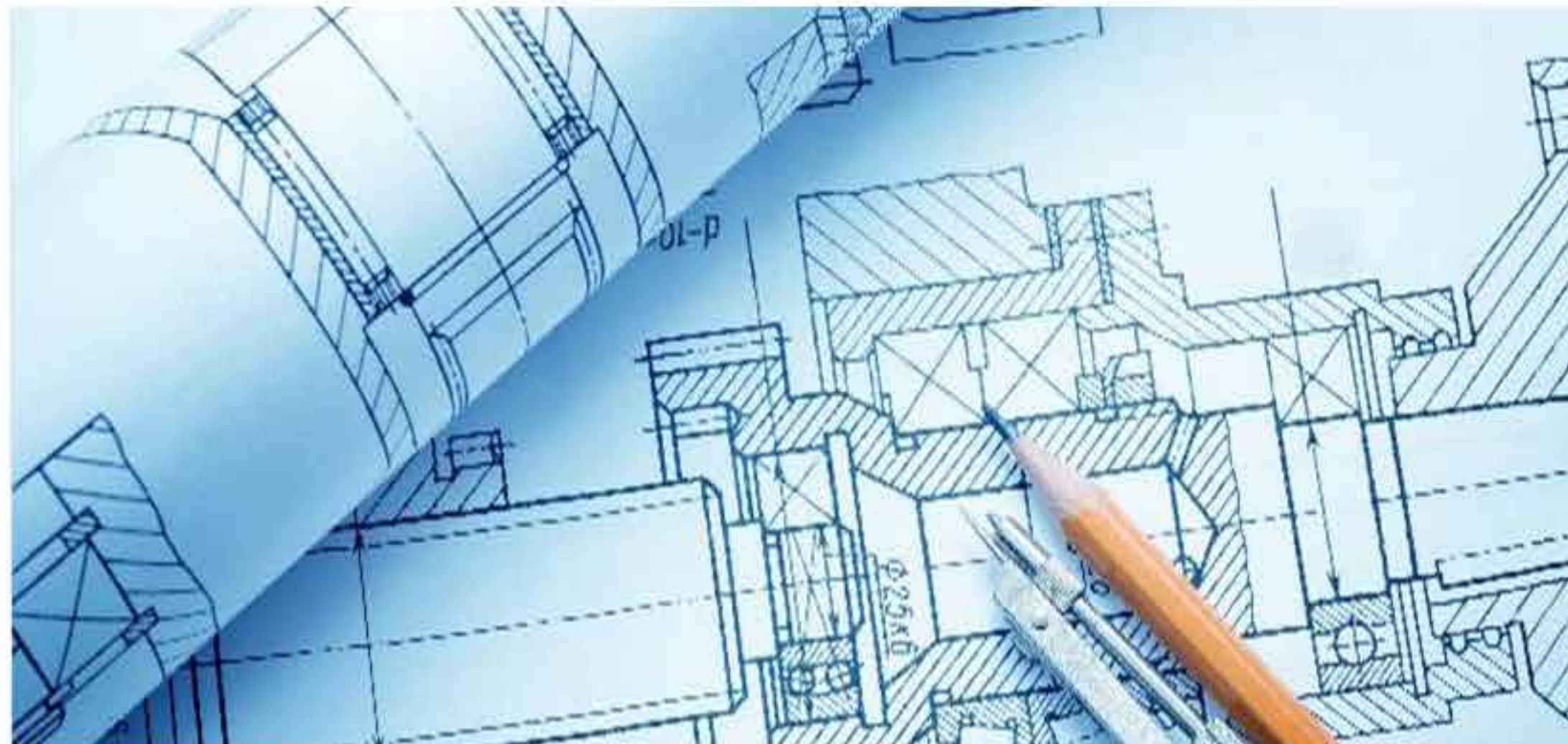
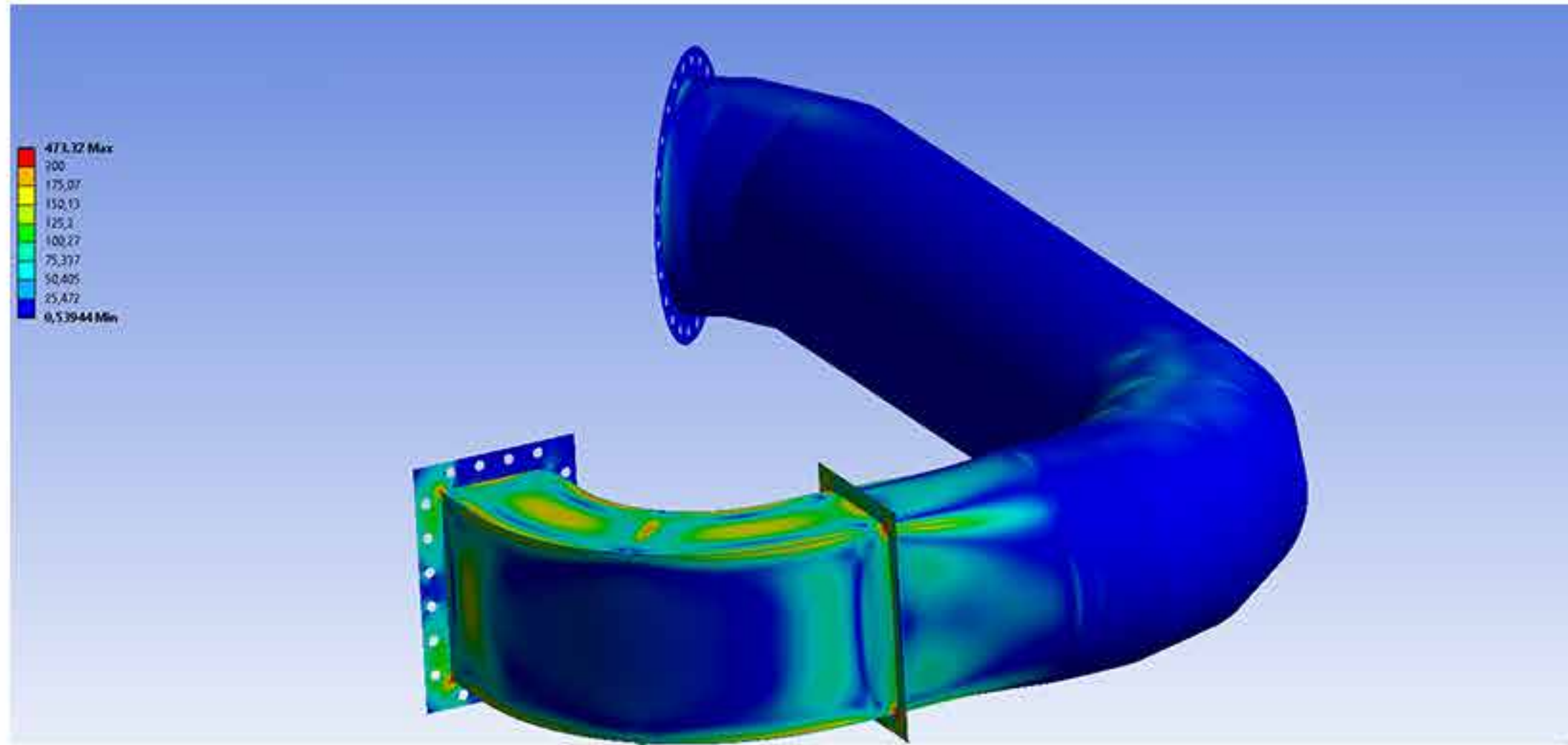
# Project Management

The processes of an awarded project are steered by a nominated project manager in effective communication with the Customer.

- Mechanical Calculations & Design
- Material Procurement
- Fabrication
- Quality Control
- Non-Destructive Tests
- Packing
- Delivery







# Engineering & Design

Mechanical calculations and design of various process equipment

## Mechanical Calculations:

- Design according to international standards (API, ASME, EN)
- Utilization of Calculation Software such as Visual Vessel Design, PV Elite, Codeware Compress, Coade, E-Tank, WinSchell, Mecastack
- ANSYS Simulation Software – FEM (Finite Element Method)

## Design:

- AutoCAD, 3D SolidWorks and Aveva E3D



## Materials

- Austenitic Stainless Steel (304, 304L, 316, 316L, 316Ti, etc.)
- Duplex & Superduplex
- Exotic (Alloy 31, Monel 400, Inconel 625, etc.)
- Titanium
- Zecor
- Nickel 200
- Carbon Steel (S235, P355, 516 Gr 60-70, etc.)
- Alloy Steel for Tubes (P11, P22, P91, etc.)
- Full Material Traceability
- PMI (Positive Material Identification)



# Storage Tanks and Silos

Mechanical design, fabrication and erection of all types and sizes of shop assembled or field erected storage tanks / silos / towers in accordance with API 620, API 650 or EN 14015 standards.





# Pressure Vessels

Mechanical design and fabrication of Pressure Vessels in accordance with EN and ASME codes including ASME-U Stamp and CE Marking according to PED 2014/68/EU.







## Reactors and Mixing Tanks

Mechanical design and fabrication of Mixing Tanks and Reactors.

Features:

- Jacketed or heating / cooling coil mounted
- Agitator
- Mechanical seal or stuffing box
- Ex-proof / IP motor
- Heat Insulation
- Surface polishing and special treatment
- Rotation control by frequency converter or mechanical gear box

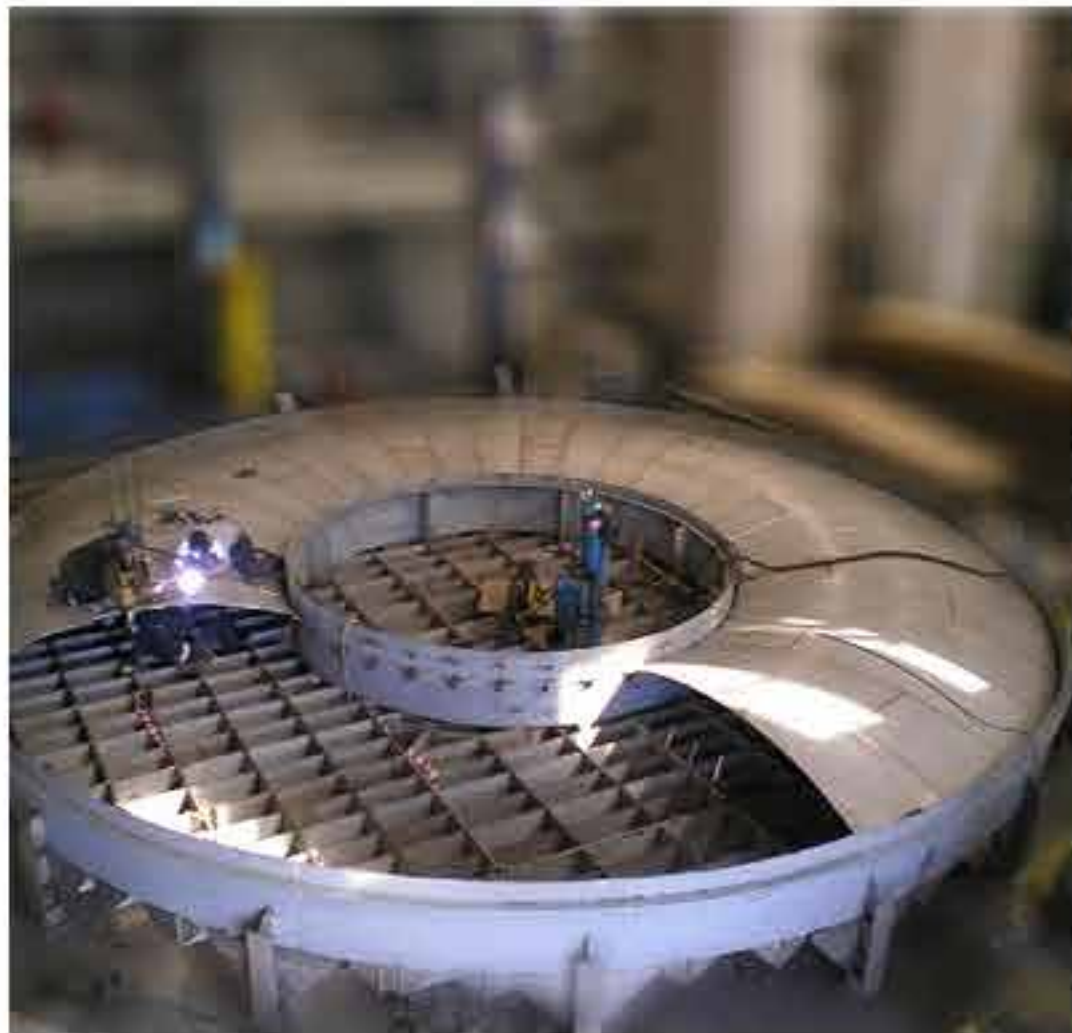


# Heat Exchangers

Mechanical design and fabrication of Shell & Tube type Heat Exchangers in accordance with TEMA, ASME and EN norms.







## Various Process Equipment

Mechanical design and fabrication of various Process Equipment as per customer requirements.

- Converters
- Crystallizers
- Thickeners
- Scrubbers
- Chambers
- Filters
- Granulators
- Drums
- Separators
- Ducts
- Stacks
- Expansion Joints
- Cyclones
- Sulphur Pit Heating Coils





## Modular Skids

Design and fabrication of various skids.

- Additive injection skids
- Marker injection skids
- Filtering skids
- Flow measuring skids
- Water treatment skids
- Valve skids
- Tank skids
- Test skids
- Dust skids





## Piping Spools

Complete spool fabrication including;

- Work Preparation Dossier
- Procurement
- Fabrication
- Welding
- Tests
- Surface Preparation
- Certification
- Marking
- Packing





## HEADQUARTERS

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## Teknokon Makina İmalat ve Montaj A.Ş.

[teknokon.com](http://teknokon.com)

## DILOVASI FABRICATON PLANT

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