



## Gunak Heavy Industries

- ❖ Established in 1976 by Mechanical Engineer M. Sc. Mr. Nurhan Güneş
- ❖ Reliable Manufacturer and Contractor company
- ❖ Specialized in the design, manufacturing and erection of process equipment, such as;
  - ❖ Pressure vessels
  - ❖ Agitator tanks
  - ❖ Storage tanks
  - ❖ Reactors
  - ❖ Skids
  - ❖ Boilers
  - ❖ Columns
  - ❖ Furnaces
  - ❖ Heat exchangers
  - ❖ Conveyors & elevators
- ❖ Completed thousands of projects





Gunak Heavy Industries has provided his best products & services to over 40 countries





**06**

**Presence**

- Türkiye
- Germany
- Qatar
- Malaysia
- Turkmenistan
- Oman
- Nigeria



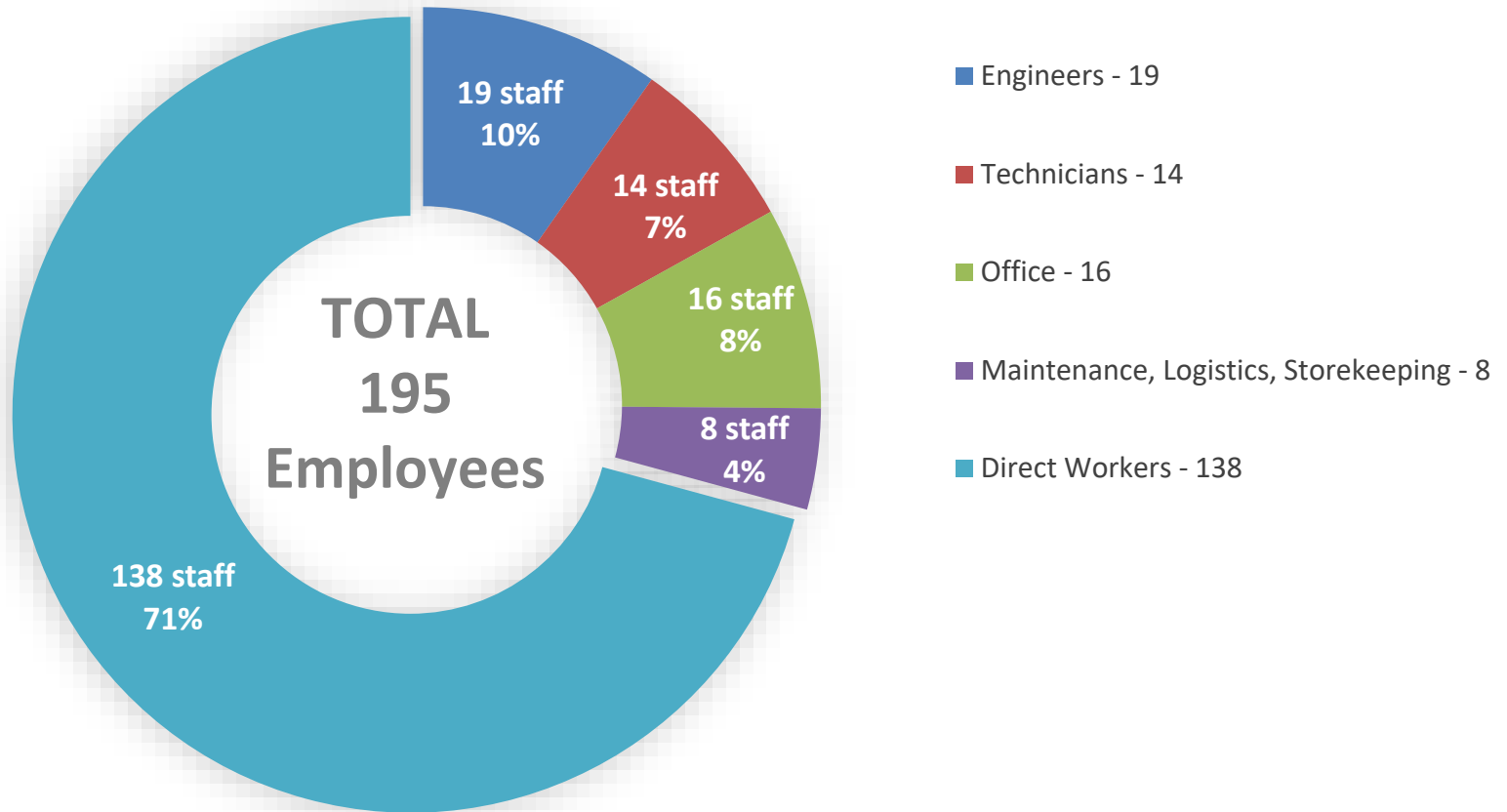
**48**

**Experience**  
Years

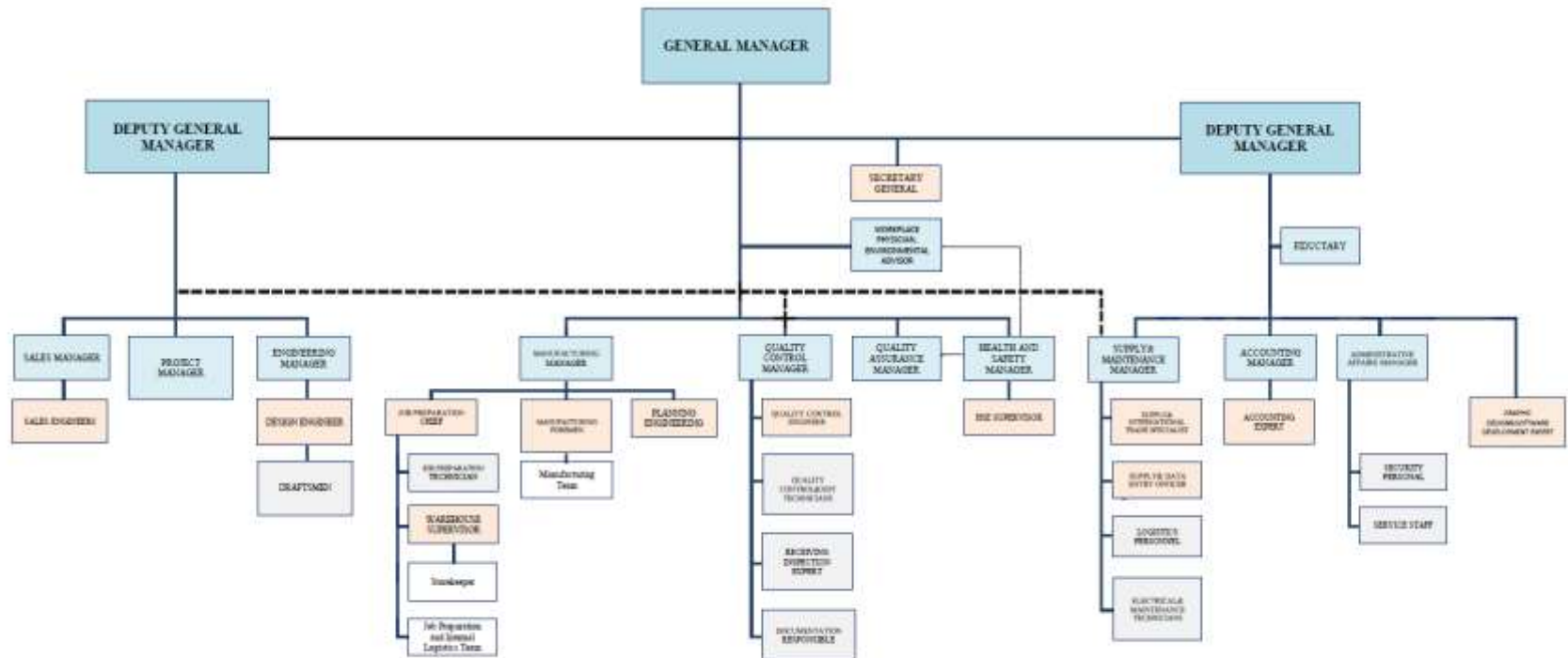


**250.000**

**Permanent Capacity**  
Man Hours per Year



\*Ability to expand up to 500 employees without compromising quality



\* The site organization is structured according to project requirements.

- **Headquarter and Manufacturing Shop:**
  - Located in **Dilovası / Kocaeli / Türkiye**
- **Facility:** 5.865 sqm covered area
  - **Carbon Steel** : 3.000 sqm
  - **Stainless Steel** : 3.000 sqm (hard separation)
  - **Open Area** : 4.000 sqm
- **Transportation Limit & Access:**
  - **Width** : 7 meters
  - **Height** : 5.9 meters
  - **Length** : 35 meters
  - **Weight** : 200 tons
  - **Distance** : 15 km (to nearest seaport)
- **Lifting Capacity:**
  - **Crane Span** : 16.5 meters
  - **Lifting Height** : 10.5 meters
  - **Overhead Cranes** : Various between 10-20 tons
  - **Lifting Capacity** : 20 tons with single crane  
: 40 tons with double cranes



### First Priority : Job Safety

All Gunak staff is aware of the fact that nothing is worth being injured. The awareness of team is maintained by continuous training and visual warnings both on the field sites and in production facilities.





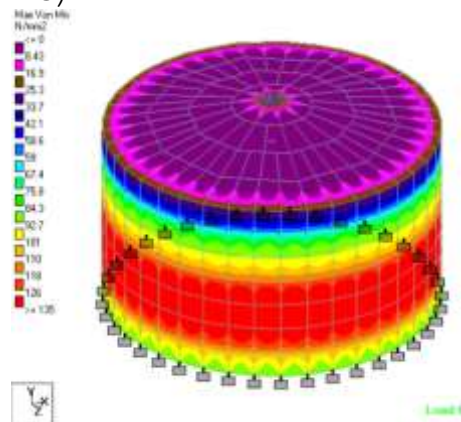
### Gunak Design Services:

- ❖ Front-End Engineering Design (FEED)
- ❖ Basic Design
- ❖ Mechanical Design
- ❖ Layouts
- ❖ P&IDs
- ❖ Detail design
- ❖ Fabrication detailing
- ❖ Including 2D & 3D modeling of structure
- ❖ Equipment & piping works



### Major Design Codes:

- ❖ ASME BPVC (Section I, Section VIII Div. 1 & 2)
- ❖ ASME BPE
- ❖ ASME PVHO-1
- ❖ ASME B31.1 and ASME B31.3)
- ❖ API650 & API620
- ❖ TEMA
- ❖ EN13445
- ❖ EN14015
- ❖ EN13385
- ❖ BS
- ❖ CEMA
- ❖ AD-Merkblätter & others



### Mechanical, Structural & FEM Design Services for:

- ❖ Pressurized/non-pressurized Vessels
- ❖ Coded/non-coded Pressure Vessels
- ❖ Heat Exchangers
- ❖ Columns , Reactors
- ❖ Scrubbers , Separators, Drums, Filters,
- ❖ Condensers , Evaporators, Economizers
- ❖ Dryers, Crystallizers, Clarifiers, Bleachers,
- ❖ Stacks, Ducts, Silos, Bins, Cyclones,
- ❖ Bulk Storage Tanks,
- ❖ Skids, Steel Piping,
- ❖ Agitators, Mixers
- ❖ Belt/Screw/Trough Chain Conveyors
- ❖ Steel Structures



### Licensed Softwares:

- ❖ Compress
- ❖ Visual Vessel Design (VVD)
- ❖ PV Elite
- ❖ AMETank
- ❖ Staad-Pro
- ❖ Ansys
- ❖ Solidworks
- ❖ 3D Plant AutoCAD
- ❖ Custom design Sheets.



### Upon receiving Purchase Order;

- Assign a Project Manager
- Organize an internal Kick-off meeting with participation of all relevant departments
- Coordinates all the departments and manage the project as Single Point of Contact.
- Prepare a project schedule coordinated with all involved departments.
- Closely monitor the project is on track and that the target milestones are reached successfully.
- Reports to Management and submit progress reports to the Client in agreed periods (weekly, bi-weekly or monthly).

### Used Project Management Softwares

- ❖ MS Project
- ❖ Primavera



- **Inspection and Test Plans (ITP)**

Prior to commencing any of fabrication, an ITP is prepared according to customer's specification and relevant standards.

- **WPSs and WPQs**

All welding works are performed by Qualified Welders / Welding Operators according to qualified Welding Procedure Specifications (WPSs).

- **Gunak is capable of performing the following NDE Examinations and Function Tests:**

- Visual Examination (VT)
- Dye Penetrant Test (PT)
- Magnetic Particle Test (MT)
- Radiographic Examination (RT) - outsource
- Ultrasonic Testing (UT) - outsource
- Hydrostatic / Pneumatic Pressure Tests
- Leakage Tests
- Vacuum Tests and Helium Leak Detection Tests
- Visual Examination and Temperature / Current Measurement during Running Tests of Rotary Equipment
- Lifting Load Tests
- Factory Acceptance Tests







<b>Carbon Steel</b>	S235/S275/S355 P235/P265/P355 S460ML/P460NL 516 Gr.60-70 and others Corten A/B Steels
<b>Stainless Steel</b>	303, 304, 316, 316Ti, 310, 430, 904L Duplex & Superduplex
<b>Alloy Steel for Tubes</b>	P9, P11, P22, P91 and others
<b>Exotic Materials</b>	Alloy 31, Monel 400, Inconel 625, etc.
<b>High silicon containing austenitic stainless steels</b>	SARAMET®, Sandvik SX and others
<b>Wear and impact resistant steels</b>	Hardox, Weldox, Creusabro and others
<b>High-alloy austenitic stainless steel</b>	254 SMO
<b>Aluminium Alloy</b>	6000 Series





CNC Oxy-Plasma Cutting Machines (2 each)  
W: 3 m L:12 m  
max t (plasma)=55mm, max t (oxy)=150mm



NC/CNC Rolling Machines (4 each)  
W: 2.5 m t: 40 mm Ø: 0.75 m



Plasma Welding Machine  
I: 1,000 A t: 10 mm



Column-Boom Submerged Arc  
Welding Machines (4 each)  
I: 1, 000 A



Automatic Girth Welders  
I: 1,000 A Ø: 5.0 m (min)





**Vertical Lathe**

Dia:2200 mm H: 1000mm



**Lathes & Milling Machine**

Up to Dia:600 mm L: 3000mm



**Press Brake**

400 Ton / L: 4050 mm



**Profile and Pipe Rolling**

up to 5" tube / NPU 200



**CNC Section/Profile Cutting**

H: 800 mm



**Radial Drilling**

(3 each)



Orbital Welding Machine  
up to 3" t: 2mm



TIG, MIG  
Welding Machines  
(100+ each)



Pickling & Passivation  
W: 8 m L: 14 m



Gritblasting Room  
W: 7 m H: 6 m L: 20 m



Painting Room  
W: 7 m H: 7 m L: 20 m







ASME U-Stamp



ASME S-Stamp



ASME U2-Stamp



National Board R Stamp

AD 2000  
Manufacturing Conformity  
Certificate

ISO 3834-2  
Welded Construction  
Conformity Certificate

EN 1090-2  
Structural Steel  
Conformity Certificate

**ZERTIFIKAT**  
Certificate

Die TÜV AUSTRIA TÜRK LTD. bescheinigt, dass die Firma  
The TÜV AUSTRIA TÜRK LTD. certifies that

**GÜNAK İNŞAAT SANAYİ VE TİCARET A.Ş.**  
as of

**ÇERKEŞLİ OSB, MAHALLESİ İMEZ 20. CADDESİ NO:16  
TR-41455, DİLOVASI / KOCATEPE - TÜRKİYE**

gemäß wurde und die Anforderungen nach der  
Conformity and meets all necessary requirements to

**AD 2000-Merkblatt HP0**  
entsprechend der Richtlinie  
in accordance with

**2014/68/EU Anhang I, Abs. 3.1**  
aEUR

The technical specification entitles the  
use of steel: **04.11.2022**

Der Befähigungsnachweis und die Ergebnisse der Prüfung sind  
in diesem Bericht zu entnehmen.  
The scope of validity and details of the inspection can be taken from the  
Report Number: **22-05-2086-48-01**

These Certificate is for the following manufacturing process:  
This certificate is valid for the following product or service range:

**Design, Production, Montage von Druckbehältern, Lager tanks, Wärmetauschern, Kesselboiler,  
Boiler parts, power piping, industrial equipment and steel structure**

Design, Production, Assembly of Pressure Vessels, Storage Tanks, Heat Exchangers, Boiler Parts, Power Piping,  
Industrial Equipment and Steel Structure

Issued on: **02.11.2022**

Valid until: **22-05-2086-TAT-22-422086-0881**

**TÜV AUSTRIA TÜRK LTD.**  
31. März 2022  
TÜV AUSTRIA TÜRK LTD.  
Technische Dienstleistungen  
Austrianischer TÜV

Handwritten signature and stamp of TÜV AUSTRIA TÜRK LTD.

**CERTIFICATE**

The certification body of TÜV AUSTRIA SERVICES GMBH  
certifies that

**Günak İnşaat Sanayi ve Ticaret A.Ş.**  
Çerkeşli OSB, Mahallesi İMEZ 20. Caddesi No:16  
TR-41455, Dilovası/Kocatepe - Türkiye

has met all necessary quality requirements for  
welding according to

**EN ISO 3834-2**

Date of audit: **07.11.2022**

This certificate is valid for the following products or service ranges:  
**Design, production, assembly of pressure vessels, storage tanks,  
heat exchangers,  
boiler parts, power piping, industrial equipment and steel structure**

Date of expiry: **06.11.2025**

Certificate No.: **HZ-05129-22-TR-OSY**

When issued all these necessary requirements as defined in its scope in the certificate and signed the document  
The certificate expires when: When ISO 4201/EN ISO 9001/2015/2018 performs the annual surveillance

Issued on: **14.11.2022**

Valid until: **06.11.2025**

**TÜV AUSTRIA SERVICES GMBH**  
Deutscheallee 10  
A-1230 Wien

Handwritten signature and stamp of TÜV AUSTRIA SERVICES GMBH.

**TUV NORD**

**CERTIFICATE**  
TÜV Teknik Kontrol ve Belgelendirme A.Ş.  
Conformity of the Factory Production Control

In compliance with Regulation 305/2011(EU) of the European Parliament and of the Council of 26 March 2011 (the  
Construction Products Regulation or CPR), this certificate applies to the following construction product:

Construction product: **Structural steel components with corrosion protection, up to execution class EXC3 acc. to EN 1090-2**

Intended use: **Factory Production Control**

CE-marking method: **EN 1090-1 ZA 3.4**

Design responsibility: **EN 1090-2**

Products subjected to the design responsibility: **-**

Manufacturer: **Günak İnşaat Sanayi ve Ticaret A.Ş.**  
**Çerkeşli OSB, Mahallesi, İMEZ 20. Cadde, No:16 TR-41455 Dilovası/Kocatepe, Türkiye**

Manufacturing plant: **Günak İnşaat Sanayi ve Ticaret A.Ş.**  
**Çerkeşli OSB, Mahallesi, İMEZ 20. Cadde, No:16 TR-41455 Dilovası/Kocatepe, Türkiye**

Certificate No: **GD-TURNORD-20200574**

Conformation: **The certificate attests that all provisions concerning the assessment and verification of consistency of performance included in Annex ZA of the harmonized standard EN 1090-1:2009+A1:2011, under system 2+ are applied, and that the factory production control fulfils all the prescribed requirements stated therein.**

Certificate start date: **16/12/2020**

Certificate expiry date: **16/12/2023**

Period of validity: **This certificate will remain valid as long as the test methods and/or the factory production control requirements included in the harmonized standard to assess the performance of the declared characteristics do not change, and the product and the manufacturing conditions in the plant are not modified significantly.**

Issued: **01.03.2021**

Handwritten signature and stamp of TÜV NORD.

**TÜV NORD**  
Kommunikations-Praxis GbR, Amal-Platz, No. 2, D-42699 Solingen, TR 20201 Solingen, Solingen, Turkey  
Telefon +49 (0) 212 393-0-40 Fax +49 (0) 212 393-0-40 E-Mail: tuv-nord@tuv-nord.com

ISO 9001-2015  
Quality System  
Certificate

ISO 14001-2015  
Environmental Management  
System Certificate

ISO 45001-2018  
Occupational Health and  
Safety Management  
System Certificate

 <p><b>Certificate of Approval</b></p> <p>This is to certify that the Management System of <b>GÜNAK İNŞAAT SANAYİ VE TİC. A.Ş.</b></p> <p>Cemalpaşa OSB Mahallesi, MERS 20. Cad. No: 16, Düzce, Kocaeli, Turkey</p> <p>Has been approved by Lloyd's Register to the following standards: <b>ISO 9001:2015</b></p> <p>Approval number(s): ISO 14001 - 00024000</p> <p>The scope of this approval is applicable to: ISO 9001:2015 Design, Manufacturing And Assembly, Process Planning And Implementation Works On The Project Basis Of Equipment And Steel Construction Structures For The Food, Chemical And Petrochemical Industries, Steel As Storage Tanks, Pressure Tanks, Vacuum Tanks, Heat Exchangers, Columns</p> <p>This certificate is a continuation of a previous approval from another certification body as follows: Previous original ISO 14001 approval on 03-Apr-2017, Tüv NORD certificate number 44 124 1750002</p> <p><i>David Oliva</i></p> <p>David Oliva Marañón de Sousa Area Operations Manager - South Europe Signed by Lloyd's Register - Director Ltd 50 No valid on behalf of Lloyd's Register Quality Assurance Limited</p> 	 <p><b>Certificate of Approval</b></p> <p>This is to certify that the Management System of <b>GÜNAK İNŞAAT SANAYİ VE TİC. A.Ş.</b></p> <p>Cemalpaşa OSB Mahallesi, MERS 20. Cad. No: 16, Düzce, Kocaeli, Turkey</p> <p>Has been approved by Lloyd's Register to the following standards: <b>ISO 14001:2015</b></p> <p>Approval number(s): ISO 14001 - 00024000</p> <p>The scope of this approval is applicable to: ISO 14001:2015 Design, Manufacturing And Assembly, Process Planning And Implementation Works On The Project Basis Of Equipment And Steel Construction Structures For The Food, Chemical And Petrochemical Industries, Steel As Storage Tanks, Pressure Tanks, Vacuum Tanks, Heat Exchangers, Columns</p> <p>This certificate is a continuation of a previous approval from another certification body as follows: Previous original ISO 14001 approval on 27-May-2016, Tüv NORD certificate number 44 124 1750002</p> <p><i>David Oliva</i></p> <p>David Oliva Marañón de Sousa Area Operations Manager - South Europe Signed by Lloyd's Register - Director Ltd 50 No valid on behalf of Lloyd's Register Quality Assurance Limited</p> 	 <p><b>Certificate of Approval</b></p> <p>This is to certify that the Management System of <b>GÜNAK İNŞAAT SANAYİ VE TİC. A.Ş.</b></p> <p>Cemalpaşa OSB Mahallesi, MERS 20. Cad. No: 16, Düzce, Kocaeli, Turkey</p> <p>Has been approved by Lloyd's Register to the following standards: <b>ISO 45001:2018</b></p> <p>Approval number(s): ISO 45001 - 00024000</p> <p>The scope of this approval is applicable to: ISO 45001:2018 Design, Manufacturing And Assembly, Process Planning And Implementation Works On The Project Basis Of Equipment And Steel Construction Structures For The Food, Chemical And Petrochemical Industries, Steel As Storage Tanks, Pressure Tanks, Vacuum Tanks, Heat Exchangers, Columns</p> <p><i>David Oliva</i></p> <p>David Oliva Marañón de Sousa Area Operations Manager - South Europe Signed by Lloyd's Register - Director Ltd 50 No valid on behalf of Lloyd's Register Quality Assurance Limited</p> 
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A wide-angle photograph of a large industrial facility, likely an oil refinery or gas processing plant, captured at night. The scene is illuminated by numerous warm yellow lights, creating a stark contrast with the deep blue twilight sky. The facility features a complex network of pipes, structural steel frameworks, and several tall, cylindrical distillation columns. In the foreground, a large horizontal storage tank is visible, and a red crane arm extends from the right side. The overall impression is one of a busy, large-scale industrial operation.

# Oil & Gas and Energy

Turn-key Project

Engineering, Procurement, Manufacturing and Commissioning of 2 ea Hydrocarbon Dew Point Control Units





Turn-key Project

Engineering, Procurement, Manufacturing and Commissioning of 5 ea 3 Phase Heater Separator Skids





2 each Coker Heaters Erection Total Weight: 3,200 tonnes



Metering Systems for Natural Gas and Petroleum:

1. Egegaz project
2. Ghana project
3. Polisan project
4. **Tüpraş** project
5. Bsog Midia project

Scope

- Procurement
- Manufacturing
- Trial Assembly
- Site Installation (upon request)
- FAT
- CE Marking and PED Compliance

Operating Pressure: 40-81 bar(g)

Design Pressure: 92 bar(g)





<b>Metering Skid</b>	LTCS	Design/Test Pressure	5-55 / 7-82 bar
<b>Cartridge Filter</b>	CS	Design/Operating/Test Pressure	27-45 / 55 / 78 bar
<b>Drain Tank</b>	CS	Design/Operating/Test Pressure	5 / 1 / 7 bar
<b>Gas_Coalescing_Filter</b>	CS	Design/Operating/Test Pressure	5 / 1 / 7 bar
<b>Natural Gas Filter</b>	CS	Design/Operating/Test Pressure	5-6 / 8 / 12 bar
<b>BEU Gas Heat Exchanger</b>	LTCS	Design/Vacuum/Test Pressure	S: 10 / 1 / 14.3 T: 60 / 1 / 85.8 bar
<b>Knock Out Drum</b>	CS	Design/Operating/Test Pressure	27-45 / 55 / 78 bar



Engineering, Procurement, Manufacturing and Commissioning of 2 ea Water Bath Heaters





Construction of Refinery Tank (50,000 cbm) including Pre-fabrication, Field Erection, Welding, NDE, Hydrostatic Testing, Fire-fighting System, Agitators, Staircases, Platforms and Handrails



## Tecnicas Reunidas / Bahrain Petroleum Company (2019)

Manufacturing of CDU & VDU Heaters (Convection + Radiant's pressure parts)



Operating Pressure: -  
Design Pressure: 210 psi(g) (Process)  
100 psi(g) (Steam)

Pressure Vessels for **Tüpraş** Izmit and Batman Refineries:

- LPG Chloride Threater Drum (Tag No: 36C-123)
- Knock-Out Drum (Tag No: D-105)
- Stripper Overhead Receiver
- Knock-Out Drum Blow Case (Tag No: 6C-212)
- Knock-Out Drum (Tag No: D-950)
- Fuel – Gas Drum (Tag No: D-1110)
- Drum (Tag No: 10D-946)
- Heat Exchangers



Operating Pressure: 15.7-17.6 bar(g)  
Design Pressure: 20.7 bar(g)



Design and Manufacturing of 6 ea Equipment:

- 1 ea Condensate Tank
- 2 ea Glycol Tank
- 1 ea Closed Drain Tank
- 2 ea Knock Out Drum Tank



Operating Pressure: atmospheric  
Design Pressure: 1 bar(g)



Design and Manufacturing of LPG Storage Vessel (200 cbm)



Design Pressure: 8.8 bar(g)

Design, Procurement and Manufacturing of 8 each Pressure Vessels:

- 4 ea Adsorbers w/ Bed Supports
- 2 ea Methanisor
- 1 ea Separator w/ Bypass
- 1 ea CO-Shift



Operating Pressure: 16.5 bar(g)  
Design Pressure: 22.0 bar(g)



Design (ASME BPVC Sec. VIII Div. 1) and Manufacturing of:

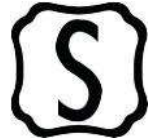
- 12 ea Odorizers (100 liters capacity)
- 12 ea Storage Tanks (220 liters capacity)



Operating Pressure : 2.0 bar(g)  
Design Pressure : 3.6 bar(g)



Fabrication of Steam Superheater (ASME S-Stamped)



Operating Pressure : -  
Design Pressure : 14.3 bar(g)



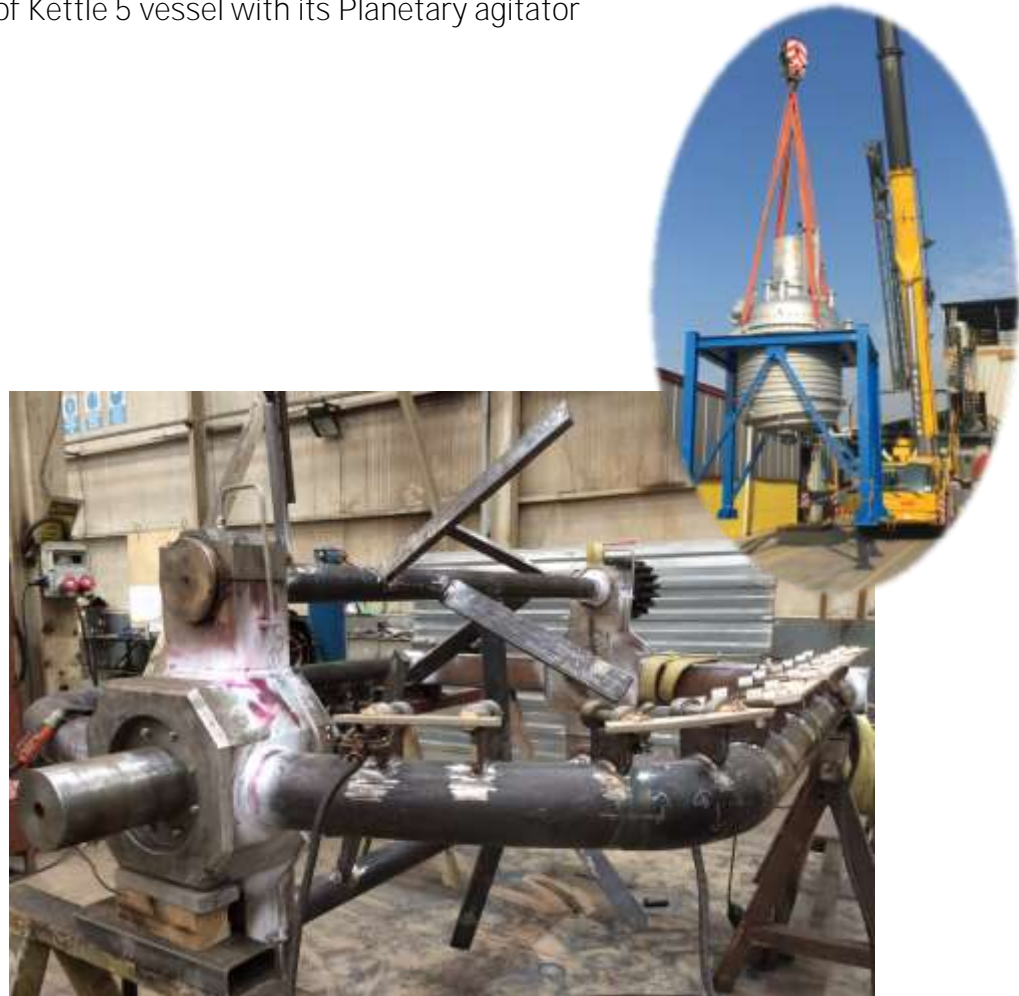
## CCC (Consolidated Contractors Company) / Kuwait Oil Company (2016)

Engineering & Procurement & Pre-fabrication & Shipment to Kuwait & Site Supervision for;

- 2 ea Fire Water Storage Tanks (ID: 24.0 m x H: 13.5 m / Fixed Cone Roof / API 650)
- 2 ea Potable Water Storage Tanks (ID: 6.0 m x H: 5.2 m / Fixed Cone Roof / API 650)
- 2 ea Raw Water Storage Tanks (ID: 9.0 m x H: 9.0 m / Fixed Cone Roof / API 650)



Design, Fabrication and site installation of Kettle 5 vessel with its Planetary agitator



Operating Pressure : 1.5 bar(g) / Full Vacuum  
Design Pressure : 6.0 bar(g) / Full Vacuum



## Metano Impianti / ENI (2021)

Manufacturing of:

- Filters 32" Natural Gas (2 each)
- Filters 32" Syngas (2 each)
- Filters 24" Final Filters (2 each)





Heat Exchanger w/ Surface Area of 2,000 sqm



## North Iraq / Gama / Khabat Power Plant (2014 - 2015)

Fabrication of 23 pressure vessels



Operating Pressure : up to 6.5 bar(g)  
Design Pressure : up to 10 bar(g)



Design, Procurement and Manufacturing of 31 ea Caissons and Transportation to France (2016 - completed)  
Design, Procurement and Manufacturing of 70 ea Caissons and Transportation to France (2019 - ongoing)





## Manufacturing of Cover Parts and Transportation to France



## Manufacturing of SEM650 and Transportation to France





## Manufacturing of Panier Perdu and Transportation to France







Design, Procurement and Manufacturing of 3 ea Hyperbaric Chambers (ASME PVHO & ASME U-Stamped)



Operating Pressure : -  
Design Pressure : 6 Bar

## **Botaş** LNG Import Terminal (2016 – 2017)

Renovation of heat tracing system for 3 ea 85,000 m<sup>3</sup> capacity LNG storage tanks:

- Design
  - Procurement
  - Removal of Existing Tracing and Installation of New System
- Total 43,000 meters of cable were installed.



Manufacturing of;

- Glycol Absorber: 48" O.D. x 24'-0" S/S, 1380 PSIG DP w/ 304SS Liner
- Gas/Glycol HEX: 14-138 NEN TEMA 'C', 1380 PSIG DP w/ SS Tubes
- Glycol Flash Tank: 30" O.D. x 7'-6" S/S, 150 PSIG DP







# Chemical and Petrochemical Industry

## Evyap Sabun Malaysia (2013-2014)

- Evyap company is **Gunak's** client since 1998. In year 2012, Evyap invested in a big oleochemical plant in Johor / Malaysia.
- Gunak was awarded for the tank farm fabrication and erection works. Gunak constructed 68 field tanks (52 stainless steel, 16 carbon steel tanks).
- Gunak established a local Malaysian company in Malaysia, named Gunak Industrial Construction Sdn. Bhd.
- **Gunak constructed a temporary workshop inside Evyap plant's borders, in order to fabricate the field tanks.**
- Total capacity: 90,000 m3



Please watch the video:



## Procter & Gamble (1989-Ongoing)

Construction of the Spray Towers including Installation of HP Lines and Spray Nozzles, Cone Cleaners, Shell Scrappers and Burners including Stacks

Manufacturing and Installation of Belt Conveyors, Screw Conveyors, Elevators, PWS, Tanks, Agitators, Cyclones, Bins, Hoppers, Filling Stations, Ducts, Fans and BH Cabinets

### 😊 Global Supplier





## Manufacturing of Static / Rotary Detergent Plant Equipment



- Erection of a Bleaching Liquid Production Plant
- Mechanical and Electrical installation of Bleach Bottle Filling and Packing Lines (3 lines), Commissioning and Start-up
- Design, Procurement, Manufacturing and Site Erection of 6 each Process Tanks (SS)





Design, Procurement and Manufacturing of SS & CS Process Equipment  
(Total 110 each; Tanks, Agitators, Cyclones, Hoppers, Bins, IBC Stations)

Design, Procurement, Pre-fabrication and Erection of Spray Tower





## Maire Tecnimont (2021-2023)

### Gemlik Urea Plant Project

- Design and manufacturing of total 32 each shop fabricated equipment including CS & SS & Duplex Pressure Vessels, Bins, API Storage Tanks, Metallic Stack
- Design, manufacturing, installation and insulation of 7 each field erected tanks including CS & SS API Storage Tanks

### Scope:

- Mechanical Design as per ASME Sec VIII Div.1 + API 650 + PED 2014/68/EU +
- Good Process & Thermal Design only for Degasifier



## Reactors for Mons





## Etibakır, Mazıdağı Plant (2016 – 2018)

Design, Manufacturing and Site Erection of (CS, SS, Duplex, Super Duplex) Fertilizer Plant Equipment:

- Scrubbers & Stacks
- Process Tanks
- Cyclones
- Hoppers and Bins
- Ducts





## Colgate-Palmolive (2010-2014)

- Construction of (including Civil Works, Steel Structure, Equipment Installation, Process Piping, Instrumentation, Insulation, Electrical Works, Cladding and Commissioning):
  - Bleaching Plant (Year: 2010-2011)
  - Deodorizing Plant (Year: 2012-2013)
  - Talk Plant (Year: 2014)
- Fabrication and Erection of Storage Tanks made of AISI SS304 and CS Material



Supply of Services according to the Requirements of National Board, R-Stamp Certificate including Quality Assurance and Quality documentation at **Ma'aden** Plant in Saudi Arabia (December 2011 – January 2013)





## Şişecam Elyaf Sanayii (2018)

- Manufacturing of Glass Fiber Fabric Furnace including Conveyor Line
- Disassembly of Existing Furnace
- Site Installation of New Furnace and Utility Equipment in Balıkesir
- Electrical & Instrumentation Works

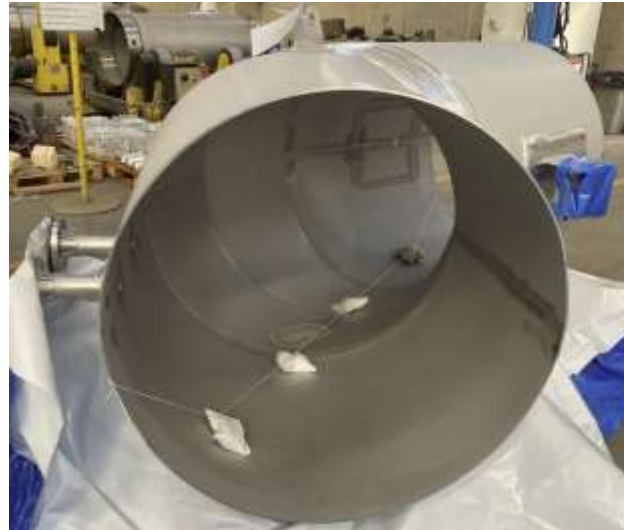




Manufacturing of Heat Exchanger w/ Surface Area of 2,500 sqm



Manufacturing of Duct





# Metal Industry



- Fabrication and Erection of 10 each Melting and Holding Furnaces (5 each Melting & H5 each holding furnaces)
  - 800 tons of Fabrication
  - 9,000 meters of piping works



Fabrication and erection of 9 each furnaces of Asaş Aluminum's Akyazı plant

- 5 each melting furnaces, 4 each holding furnaces
- Total 735 tons of fabrication





Design, Procurement and  
Fabrication of 12 ea Pressure  
Vessels





## HMC PLC / Primetals (2018)

Manufacturing of

- 15 each Sand Filter Tanks,
- 2 each Agitator Tanks,
- 1 each Degasser Tank,
- 1 each Oil Skimmer Tank





## HMC PLC / Primetals / JFE Steel – Sinter Project) (2016)

Fabrication of air ducts    Total weight: 387,400 kg.



Manufacturing of 3 ea Converters with a capacities of 200 ton each, including:

- Converter Ring (Ø12 m, made of P460NH, 80 mm at ring and 120 mm at Shaft Connection Points) w/ Shaft (made of forged steel)
- Bottom Part (55 mm thick)





Various fabrication, installation and piping works have been performed for Tezcan.



Manufacturing of:

- Silos (SMS Germany)
- Cooling rings, Charging Tubes and PRV (SMS Germany)
- Process Tank (SMS Germany)
- Furnace Water (SMS Italy)
- Duct and Hoods (SMS Germany)





A photograph of an industrial facility, likely a cement or mining plant, featuring several large, light-colored cylindrical silos and a complex network of metal walkways and conveyor belts. The sky is clear and blue. A red flag is visible on a structure to the right.

# Mining and Soil Industry



- Fabrication of 12 ea Flotation Cell and its auxiliaries. Rubber lining of cells.
- Manufacturing of 1 ea Uranus 52N+ (1.4507) Scrubber Unit for Eti Plant in Samsun U-Stamp or CE-Marking
- Design, fabrication, preassembly, piping, instrumentation, electrification, FAT test of 3 ea Steel Tanks, 3 Skids
- Fabrication of 2 each stainless steel thickener tanks (h:7.5 m, dia: 32 m, material: Duplex stainless steel)



## Minerals Technologies (Former Amcol) (2011 - 2012)





The below listed works were done for 2 plants, with one year gap.

**Türk Ytong Sanayi A.Ş. (Saray / Tekirdağ)**  
**Güneydoğu Ytong Sanayi A.Ş. (Gaziantep)**

- Manufacturing and Erection of Equipment
- Erection of Present Equipment
- Manufacturing of Raw Material Producing Systems (Silo and Transport Systems)
- Manufacturing and Erection of Crane Rail Carcase System and Rail System with Gear Rack







# Food and Beverage Plants

Fabrication and Erection of Edible Oil Tank Farm (48 each tanks);

- 18 each, 20 m Dia and 5.000 m<sup>3</sup> capacity SS304L grade
- 6 each, 14 m Dia and 2.500 m<sup>3</sup> capacity SS304L grade
- 6 each, 4,5 m Dia and 250 m<sup>3</sup> capacity SS304L grade
- 8 each, 5 m Dia and 150 m<sup>3</sup> capacity SS316L grade
- Total weight: 3,000 tons total volume: 107,700 m<sup>3</sup>



### Amylum Building

- Design, Manufacturing and Installation of Static Equipment,
- Piping, Instrumentation, Insulation
- Commissioning





Manufacturing and erection of storage tanks:

- 2 each 3,350 m3 capacity
- 1 each 2,300 m3 capacity
- 2 each 500 m3 capacity



- Extraction Building Renovation Works
- Extraction Rotocell
- İzmir Aliğa Conveyor Installation





**Ashgabat Cottonseed Oil Plant** – This project was completed only in 8 months (including mobilization)

- Turn-key construction of an oil plant in Ashgabat, Turkmenistan in year 2009.
- Günak opened a branch in Turkmenistan and mobilized in the site only in 3 months. The scope of the project was:
- Construction of Extraction, Refinery, Hydrogenation Plants
  - Fabrication and Erection of 750 tons of steel structure (including pipe racks)
  - Piping works: 20,000 meters of piping works
  - Equipment Installation Works
  - Instrumentation - Installation - Electrical Works
  - Conveying Equipment - Design, fabrication and erection of 850 meters of conveying systems (belt conveyor, screw conveyor, bucket elevator, chain elevator)







## Ashgabat Cottonseed Oil Plant Turkmenistan

Process Piping, Instrumentation,  
Electrification, Insulation. The total  
length of process piping approaches  
a vast 20,000 meters.



## Kristal Oil (2008 - 2010)

- Fabrication and erection of refinery plant (150 tons/day capacity)
  - Erection of equipment supplied by Desmet Ballestra
  - Process piping Works (7,000 meters, CS and SS)
  - Steel construction fabrication and erection (300 tons)
  - Insulation Works
  - Electrical Works
  - Instrumentation works
- Fabrication and erection of 6 each refined oil storage tanks (300m<sup>3</sup> capacity each, CS)
- Fabrication and erection of 1 each raw oil storage tank (2,000m<sup>3</sup> capacity, CS)
- Fabrication and erection of 2 each raw oil storage tanks (1,000m<sup>3</sup> capacity each, CS)
- Fabrication and erection of 1 each storage tank (1,000m<sup>3</sup> capacity, AISI 316)
- Fabrication and erection of 1 each storage tank (200m<sup>3</sup> capacity, AISI 316)





## Orkide Oil Plant (2012 - 2013)

- Fabrication and erection of 1 each oil tank (CS, capacity: 3,000 m<sup>3</sup>)
- Fabrication and erection of 8 each oil tank (CS, capacity: 1,550 m<sup>3</sup>)
- Welding works of the conveyor chutes
- Fabrication of stack
- Process piping works







## TOPRAK OIL (LİCE)

- Turn-key construction Works of Extraction and Refinery Buildings in Oil Plant
  - Erection of Mechanical Equipment
  - Stainless and Carbon Steel Piping Systems
  - Insulation Works
  - Manufacturing of Acid Tanks
  - Manufacturing of Pneumatic Conveying Lines
  - Electrical and Instrumentation Works
  - Manufacturing and Erection of Pneumatic Pulp Moving Lines for Oil Plant Extraction Unit





# Steel Bridge Contracting

## IHI Infrastructure (2014 - 2015)

İzmit Bay Suspension Bridge - Tower welding works, Fabrication of 4 each Anchor Frames, Tower Crane Support Structure, and 228 each Doors / Hatches



Please watch the video:





## IHI Infrastructure (2014 - 2015)

Fabrication of rocker link, wind tongue, 120 each lower gusset plates, main rope stanchion, inner tower handrails; replacement of hanger plates; replacement of expansion joints for 1st and 2nd Bosphorus Bridges



## Golden Horn Bridge Works – IHI and KGM

Various projects have been completed in the last 20 years for the Japanese Industry giant IHI and **Karayolları Genel Müdürlüğü** (Highways General Directorate).

Some of the jobs completed for IHI / KGM are:

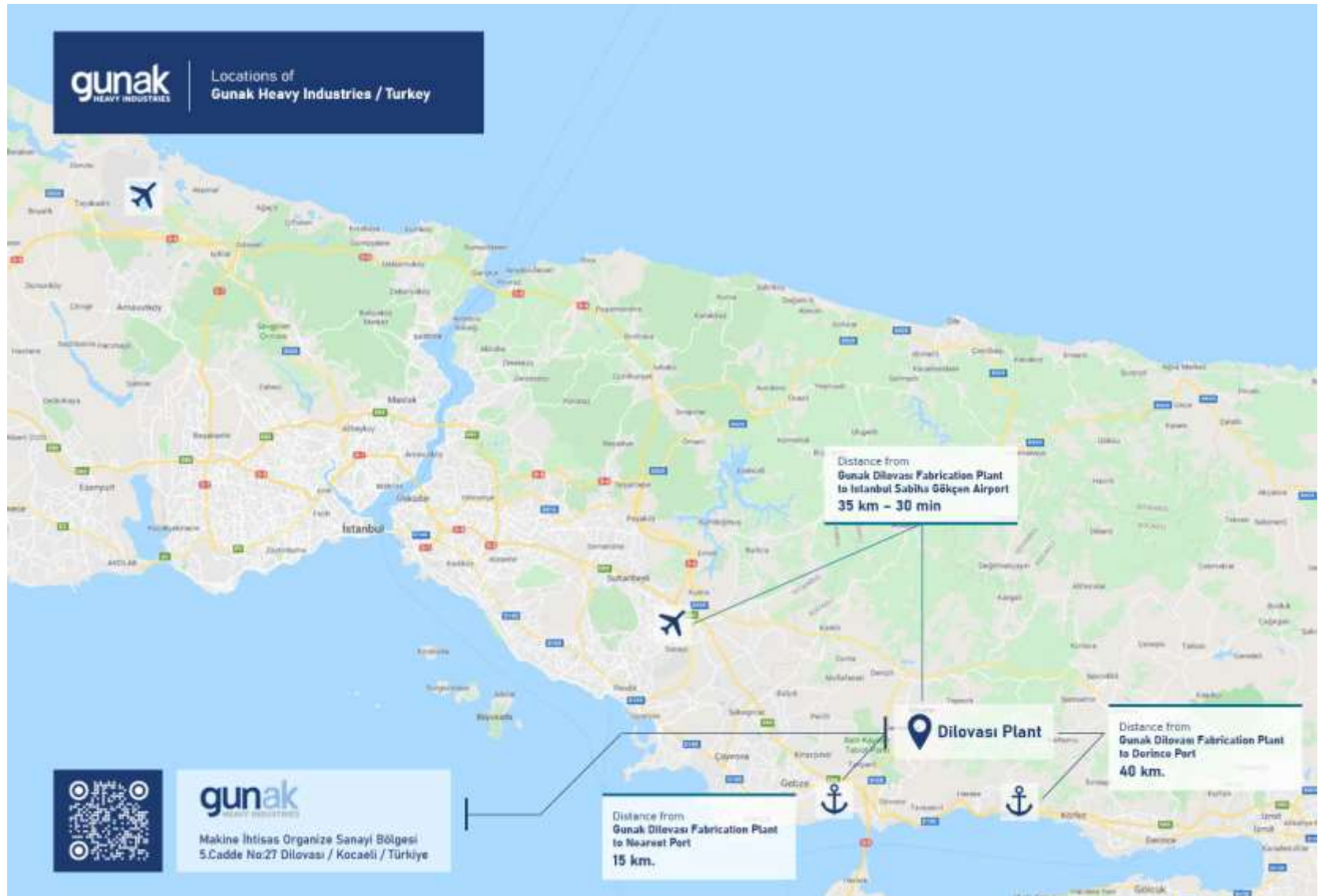
Design, Fabrication and Installation of the Service Gantry for GH Bridge.  
Fabrication of Seismic Reinforcements for GH Bridge.



## Third Bosphorus Bridge Erection and Welding Works









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Thank you for reading