



# SUTЕК

BETTER ENGINEERING



[www.sutekmuhendislik.com.tr](http://www.sutekmuhendislik.com.tr)



Trust and quality are our foundation.

With passion and team spirit, we overcome geographical boundaries and

# shape the future



## ABOUT SUTЕК MÜHENDİSLİK

Established in 2014, Sutek Mühendislik is an engineering company founded by a collective of engineers who graduated from Turkey's leading universities and have accumulated extensive industry experience since the 1990's. The company embodies the deep knowledge and expertise of a seasoned team, with a proven track record of successfully completing over 300 storage tanks, more than 50,000 tons of structure steel fabrication, over 6,500,000 WDI (Welded Diameter Inches) of industrial piping, and over 160,000 m<sup>2</sup> of turnkey projects, both domestically and internationally.

Our expansive machine park and expert team, strategically located in the Dilovası Organized Industrial Zone, enable us to manufacture the infrastructure components for our projects in-house at our dedicated steel service center.

### Our core areas of operation include:

- \* Steel Structure Manufacturing and Erection
- \* API 650 Storage Tank Manufacturing and Erection
- \* Industrial Piping Works for Refinery / Petrochemical and Heavy Industrial Plants
- \* Planned Maintenance Shutdown Works for Thermal Power Plants and Heavy Industrial Facilities

In the ever-evolving global economic landscape, Sutek Mühendislik consistently renews itself to maintain its competitive position and adapt to changing strategic objectives. This commitment to continuous improvement is driven by a powerful synergy within our workforce, comprising employees with highly developed analytical and decision-making skills.

Sutek Mühendislik is dedicated to upholding its leadership in the industry by prioritizing customer satisfaction and consistently delivering high-quality, reliable services.

### VISION

Our vision is to become a preferred, reliable, and innovative brand in both national and international markets through a commitment to sustainable engineering practices. We aim to lead the industry's development in steel construction, storage tanks, mechanical installations, and turnkey industrial plant setup, rehabilitation, maintenance, and revision applications, establishing ourselves as a pioneering organization that delivers global-scale projects.

### MISSION

Our mission is to apply our engineering knowledge and experience in accordance with the principles of quality, safety, and efficiency. We strive to provide end-to-end solutions that exceed client expectations. We are dedicated to continuously developing our human capital, integrating technology into production, and creating value with an approach that is mindful of the environment and society.





# STEEL SERVICE CENTER

Our Steel Service Center, strategically located in the Dilovası Organized Industrial Zone, is a cornerstone of our production capabilities. Equipped with an extensive machinery park and a highly experienced team, it plays a vital role in our manufacturing processes. By producing the foundational components of our projects in-house, we ensure high standards of speed, quality, and reliability.

Our facility, spanning a total area of 7,000 m<sup>2</sup> (2,500 m<sup>2</sup> closed and 4,500 m<sup>2</sup> open), boasts simultaneous manufacturing capabilities. This enables us to efficiently meet the diverse demands for speed, quality, reliability, and variety across multiple projects.

In addition to custom welded fabrications tailored to client needs, we also accommodate subcontracting requests for cutting services, with or without material provision. Through meticulously planned production processes for each project, we consistently deliver added value to our business partners.



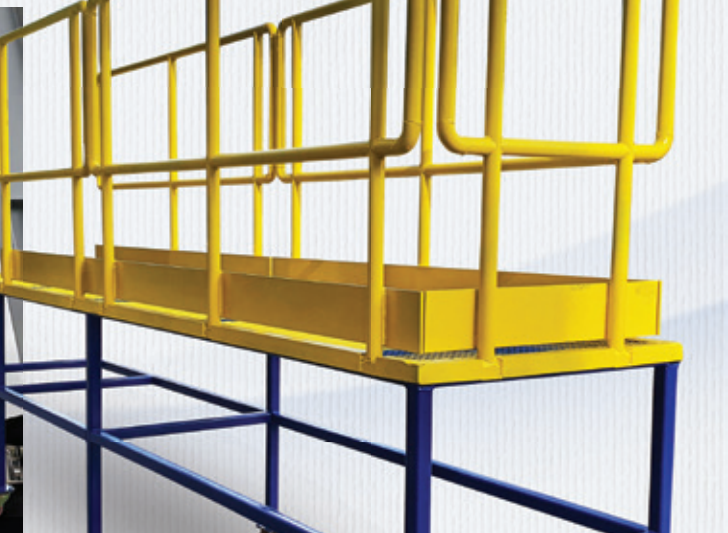
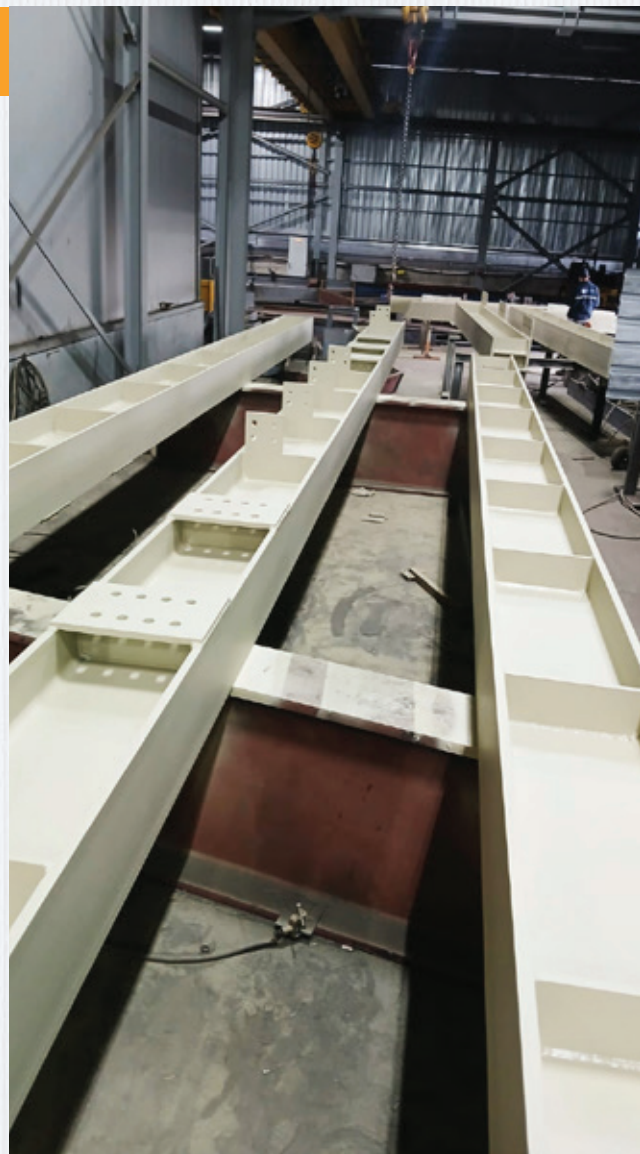


# WHAT WE DO

## STEEL STRUCTURE FABRICATION

Steel structure fabrication is a highly favored construction method in industrial and commercial buildings due to its inherent durability, high strength, and rapid construction process. We provide optimal solutions for the construction of a wide range of structures, including terminal buildings, industrial facilities, logistics warehouses, sports complexes, filling stations, hangars, roofs, fire escapes, and pipe racks.

The steel structure fabrication process begins with 3D digital design of the structure. In this phase, our expert engineers perform static calculations and prepare project plans and 3D drawings. The design stage defines the structure's dimensions, load-bearing systems, connection details, and other technical specifications. Selecting the appropriate steel material is critical at this point. Structural steel with high strength and workability is typically utilized. Factors such as applied loads on the structure, environmental conditions, and budget are carefully considered during material selection.





# WHAT WE DO

## STEEL STRUCTURE FABRICATION

The fabrication process involves cutting, shaping, and joining structural steel elements, primarily performed in our workshop. Steel elements are cut to specified dimensions, joined by welding or bolting, and other necessary details are added. Throughout fabrication, rigorous quality control procedures are implemented to meticulously inspect elements such as weld integrity, dimensional accuracy, and surface quality.

Upon fabrication, the steel elements are transported to the assembly site for erection. During the assembly phase, elements are precisely positioned, connections are made, and other components are added. After assembly is complete, other structural elements like walls, roofs, and flooring are constructed. Finally, the project concludes with the completion of the interior and exterior finishing works.

At Sutek Mühendislik, we construct durable, aesthetically pleasing, and functional structures in our steel construction projects through the expertise of our specialized team and our innovative approach. We prioritize quality and client satisfaction in every project, offering solution-oriented services.



*As Sutek Engineering, we build durable, aesthetic, and functional steel structures with our expert team and innovative approach. In every project, we prioritize quality and customer satisfaction, offering solution-oriented services.*



# WHAT WE DO

## CNC PLASMA AND OXY-FUEL CUTTING

CNC plasma and oxy-fuel cutting is an advanced technological solution developed for fast, precise, and high-quality cutting of steel plates up to 100 mm thick. This method offers both economic advantages and ergonomic features, enabling us to meet diverse client demands efficiently. With our expert team and modern cutting technologies, we guarantee maximum efficiency and quality, providing tailored solutions for your projects.



## PROFILE DRILLING LINE

We offer comprehensive services for profiles, pipes, NPU, NPI, IPE, HEA, HEB, solid bars, and angles, utilizing our advanced machine capable of performing drilling, milling, counterboring, tapping, and marking operations as required.

- Meteor 1200 Drilling-Milling-Tapping-Counterboring-Scribing Machine.
- **Features:** Drilling Diameter (mm): Carbide 5-40 (3/8 - 1-1/4 Inches)



## CYLINDER ROLLING

The rolling of metal and sheet plates typically occurs after they've been precisely cut to size using CNC laser or plasma cutting machines. This process is a critical step in the manufacturing of tanks and ducts. We provide this service with high precision and quality, ensuring that our valued clients receive superior results. Our skilled team and modern equipment allow us to offer robust and aesthetically pleasing metal rolling solutions tailored to your project requirements. By employing the correct technical approaches for your projects, we aim for maximum client satisfaction.



## PROFILE CUTTING LINE (SAW)

We provide automated and angled cutting services for profiles, pipes, NPU, NPI, IPE, HEA, HEB, solid bars, and angles, accommodating diameters up to 700 mm.

- Kesmak KMY2DG Semi-Automatic Saw Machine
- **Features:** Maximum Cutting Capacity: 700 mm





# CUSTOM MACHINE DESIGN AND MANUFACTURING

We offer custom machine design and manufacturing services to enhance your factory's processes and develop tailored solutions for your operations. We begin by actively listening to you and conducting a detailed analysis of your needs. To accelerate your processes, improve quality, and maximize customer satisfaction, we integrate our R&D, design, and engineering capabilities with the most innovative technological solutions.

## OUR SERVICE PROCESS

### Discovery and Needs Analysis

You know your business best. With this understanding, we conduct on-site discovery at your factory, observing your processes and closely examining your requirements.

### Preliminary Study and Quotation

Based on our observations, we provide a concise presentation detailing our proposed solution and a price quotation tailored to your process.

### Client Approval Meeting

Following our design and engineering work, we hold an approval meeting to present the developed solution to you. Upon your approval, we finalize the project for manufacturing and proceed to the production phase.

### Production, Installation, and Commissioning

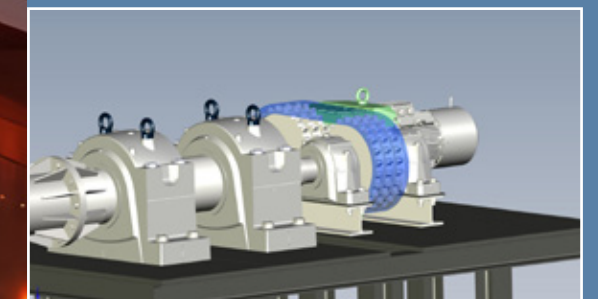
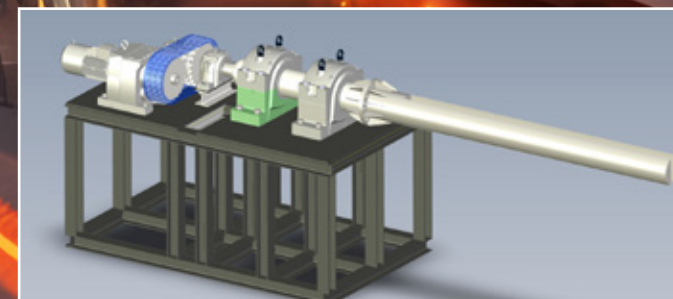
We complete the design, manufacturing, mechanical assembly, and automation phases at our workshop in Kocaeli. We meticulously document the entire process with photographs and videos, which we then share with you. After installation, we commission your system at your factory, fully integrating our solution into your processes.

## AUTOMATED TRUCK LOADING SYSTEM

In logistics processes, automation and efficiency are key to industrial success. To this end, our developed Automated Truck Loading System offers businesses the following significant advantages:

- Direct loading capability with standard trailers, requiring no modifications.
- A single system that can perform the function of five separate loading docks.
- Rapid loading completion in under 10 minutes, with pallets sequentially arranged at the filling dock.
- A design that enhances employee safety and minimizes potential damage during transport.

This system, which delivers quality, speed, and reliability at every stage, adds significant value to your business's logistics processes. We boost your production capacity with innovative, custom-designed solutions tailored specifically for you.





# STORAGE TANK MANUFACTURING AND INSTALLATION

We provide turnkey storage tank solutions, meticulously constructed by our experienced engineering team using high-quality steel materials and in strict adherence to API 650 standards. Every stage of the process—design, manufacturing, installation, and testing—is executed with precision to deliver safe, durable, and fully functional solutions.

## DESIGN AND PLANNING PROCESS

The construction of storage tanks is shaped by their intended use, capacity, the characteristics of the stored material, and operational requirements. The initial step involves creating a 3D digital design of the tank, where all technical specifications, including dimensions, material selection, wall thicknesses, and connection details, are precisely defined.

## MANUFACTURING PROCESS

During the manufacturing phase, materials are cut and bent according to detailed fabrication drawings and the production schedule. Components are then joined either by welding or with fasteners as per project specifications, ensuring the tank production is completed in full compliance with predetermined technical requirements. Our expert team meticulously executes the production process, with concurrent quality control steps integrated throughout.

## INSTALLATION AND COMMISSIONING

In this stage, the tank is accurately positioned, connections are made, and all necessary equipment is assembled. Subsequently, critical tests are performed, including those for leak-tightness, pressure resistance, performance, and safety. Following all inspections, the tank is safely commissioned for use.





# WHAT WE DO?

## STORAGE TANK MANUFACTURING AND INSTALLATION

### DISMANTLING SERVICES

When required, we also undertake the dismantling of existing storage tanks. The dismantling process is conducted on-site in strict adherence to Occupational Health and Safety (OHS) and environmental protection standards, minimizing environmental impact.

### MAINTENANCE AND PERIODIC INSPECTIONS

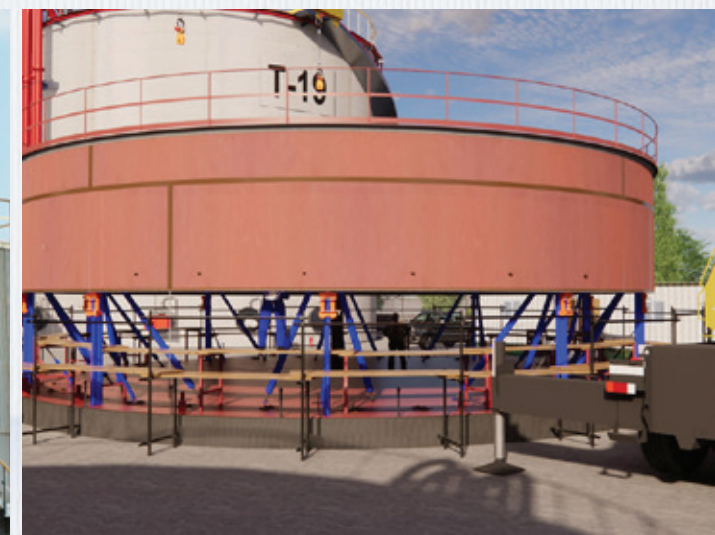
Regular maintenance is crucial for ensuring the long-term durability and safe operation of storage tanks. Through tank cleaning, periodic inspections, and necessary maintenance applications, the system's performance is sustained.

### HYDRAULIC JACKING SYSTEM FOR TANK LIFTING

A hydraulic jacking system is a mechanism designed to lift storage tanks. This system utilizes hydraulic power to generate significant force, enabling the efficient elevation of tanks during construction or maintenance.

### KEY PROJECTS FEATURING OUR EXPERTISE

- 9300 m<sup>3</sup> – Storage Tank Construction
- Dow – 4 Stainless Steel Storage Tanks Construction
- Eti Maden Emet Boron Facilities – 3 x 5000 m<sup>3</sup> Storage Tank Construction
- Golteks Petroleum and Chemical Storage Tank Construction
- Raw Water Storage Tank Construction
- Petrol Ofisi Samsun – Storage Tank Construction
- United Refinery – Erbil, IRAQ – Storage Tank Construction
- Polisan 16+1 – Storage Tank Construction
- Safiport Derince
- United Refinery Erbil – IRAQ





# INDUSTRIAL PIPING SYSTEMS

Industrial piping forms the essential infrastructure for the safe and efficient transfer of various substances such as liquids, gases, chemicals, steam, and oil within production facilities. These systems comprise not only pipes but also a range of equipment including valves, flanges, elbows, and connection elements, all designed and implemented to meet specific operational requirements.

Each piping project is customized based on the facility's structure, production processes, and the characteristics of the material to be transported. The process is completed with the accurate laying of pipelines, assembly of connection elements, and comprehensive system testing.

## ADVANTAGES OF INDUSTRIAL PIPING

### 1. Efficiency and Time Savings

A well-planned piping system ensures fast, uninterrupted, and safe transportation of liquids and gases. This accelerates production processes and achieves significant time savings.

### 2. Cost and Energy Savings

Piping systems offer lower operational costs compared to alternative transportation methods. Energy efficiency further reduces overall production expenses.

### 3. Environmentally Friendly Structure

Transfer operations conducted via piping minimize waste and environmental pollution, positioning piping systems as an eco-conscious solution.

### 4. Safety and Adaptability

Custom-designed piping systems, tailored to facility needs, provide maximum safety. Pipe materials and diameters are determined based on specific project requirements.

### 5. Durability and Longevity

The use of high-quality materials ensures the long-term, safe operation of piping systems, reducing maintenance needs and contributing to operational sustainability.

### 6. Occupational Safety

Piping projects prepared with an expert engineering approach support occupational safety standards and minimize in-house risks.





# WHAT WE DO

## INDUSTRIAL PIPING SYSTEMS

### MECHANICAL INSTALLATION SOLUTIONS

Forming a critical component of industrial piping, mechanical installation systems encompass heating, cooling, ventilation, pumping systems, and valve assemblies. During the design phase, material selection is made to suit the facility's requirements, with system performance and energy efficiency being key considerations.

The production process proceeds with the cutting, shaping, and assembly of pipelines using methods such as welding, brazing, or threading. This is followed by the placement of equipment like boilers, fans, air conditioning units, filters, and pumps, along with the completion of electrical connections.

Following system installation, leak-tightness and pressure tests are performed. Each unit is checked for safety and functionality, with revisions made as necessary. To enhance efficiency, all pipelines and equipment are covered with appropriate insulation materials.

### PROJECT-SPECIFIC APPLICATIONS

Our mechanical installation and industrial piping solutions are designed to establish long-lasting, safe, and high-performance systems. With our experienced technical staff, we develop project-specific engineering solutions, fully meeting your facility's infrastructure needs.





# SHUTDOWN MAINTENANCE SERVICES

We offer a comprehensive range of shutdown maintenance services, from storage tank revisions to general facility maintenance, conducted 24/7 during planned and unplanned outages in accordance with API 653 standards. Our experienced technical team contributes to the safe, efficient, and sustainable operation of industrial facilities.

Shutdowns are critically important for extending equipment life, improving performance, reducing breakdown risks, and ensuring operational safety. Our service process in this scope consists of the following stages:

## 1. Planning

The maintenance process begins with defining the shutdown period and scope. The most suitable timeframe is selected by considering operational schedules, production timelines, and client needs. Necessary spare parts, equipment, and personnel resources are organized at this stage.

## 2. Preparation

Before maintenance commences, the procurement of spare parts, equipment checks, and occupational safety measures are completed. Task distribution among teams and the workflow plan are established to ensure a smooth process.

## 3. Shutdown and Draining

On the designated date, the facility or equipment is safely shut down. Products are drained and safely evacuated, preparing the environment for maintenance.

## 4. Maintenance and Repair

Cleaning, part replacement, repairs, system updates, measurements, and testing operations are executed according to the planned sequence. All work is performed in compliance with standards and accompanied by quality control.

## 5. Inspection and Commissioning

Upon completion of maintenance, the facility or equipment undergoes testing. Leak-tightness, pressure, performance, and safety checks are carried out. We ensure that systems are commissioned safely and at full capacity.

We professionally manage critical maintenance shutdowns for industrial facility continuity, ensuring they are timely, safe, and efficient. With our expert staff, technical equipment, and field experience, we contribute to preserving and enhancing your facilities' production capacity.





# OTHER SERVICES

*Our industrial expertise extends beyond production-focused solutions; we also provide reliable services for a wide range of projects, from administrative buildings to roads and bridges, and from logistics centers to wastewater treatment plants.*

*While constructing structures that are earthquake-resistant and compliant with modern standards, we ensure maximum safety in your operations with safety scaffolding systems adhering to TS 12810-1 standard.*

## REINFORCED CONCRETE SERVICES

With our reinforced concrete solutions, combining the strength of concrete and steel, we construct durable and long-lasting structures. These systems, providing high compressive strength and robustness, form a reliable foundation for your industrial and infrastructure projects. Our expert team ensures quality and engineering assurance at every stage.



## STORAGE TANK TRANSPORTATION SERVICES

We develop specialized logistics solutions for the safe, efficient, and damage-free transportation of large-volume storage tanks. We manage the shipment of tanks used in refineries, ports, petrochemical, and industrial facilities with meticulous planning and expert teams.



## SAFETY SCAFFOLDING SYSTEMS

We install safety scaffolding systems that are vital for occupational health and safety in construction and maintenance sites. Our scaffolding solutions, compliant with TS 12810-1 standards, provide a safe working environment at height, preventing potential workplace accidents.



## TANK DISMANTLING SERVICES

We expertly carry out the dismantling of storage tanks that are no longer in use or require relocation. During safe dismantling, segmenting, and logistics phases, we ensure full compliance with occupational safety procedures. We manage the process in the most efficient and safest manner to support operational continuity.





# OUR REFERENCES

**"At Sutek Engineering,**  
we prioritize quality in every project  
and offer our clients not just a service,  
but a long-term partnership.  
Our experience, combined with  
the care we bring to our work and  
the attention we pay to detail,  
consistently delivers reliable results.  
From on-site applications to design,  
we meticulously manage all processes  
and bring added value to your projects  
with our high-standard approach.  
We view customer satisfaction not  
just as a goal, but as an integral part  
of our work—emphasizing transparent  
communication and sustainable  
success at every step."







## SUTEK MÜHENDİSLİK YALITIM İNŞAAT SAN. VE TİC. LTD. ŞTİ.

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