

STP GROUP OF COMPANIES

# HEAVY ENGINEERING

Mechanical Processing and  
Crane Operations Sector



[www.stp.az](http://www.stp.az)



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# STP Heavy Engineering

## GENERAL INFORMATION

“**STP-Heavy Engineering**” LLC is a modern production facility focused on heavy industrial and engineering operations, providing a comprehensive portfolio of products and services.

**Products:** Metal electrical transmission poles, Offshore and overhead cranes, Overhead bridge cranes with lifting capacity up to 200 tons, high-pressure vessels, various containers, heat exchangers

**Services:** Metal construction, machinery manufacturing, sandblasting, industrial painting, hot-dip galvanizing, mechanical assembly, crane maintenance and repair, Repair of high-pressure vessels, heat exchangers, various containers

The company is equipped with modern technological equipment. Within the **crane engineering operations**, the company manufactures single-girder, double-girder, and jib-type cranes.

**The mechanical assembly** unit carries out the installation of high-pressure containers and various metal constructions. The company also supplies customers with pressure vessels, electrical poles, and other mechanical engineering products. In the hot-dip galvanizing unit, large-scale structures are galvanized in both automatic and manual modes. Sandblasting involves surface cleaning, while industrial painting includes the application of coatings using modern technologies.



## PRODUCTION CAPACITY

ALL PRODUCTION AREAS:

**17 000** tons/year

GALVANIZING SERVICES:

**20 000** tons/year



## PRODUCTION AREAS

Plasma cutting  
Bending  
Welding and assembly  
Industrial painting and sandblasting  
Press shop  
Hot-dip galvanizing  
Crane manufacturing



## SECTORS

Oil and Gas  
Agriculture  
Construction  
Industry



## EQUIPMENT

VTL 3000 CNC/VTL 1600 CNC  
HMC-1000B CNC/HMC-2000B CNC  
TH6920B 240x50 CNC  
CKx52100 CNC  
JY-BMV180 CNC  
DL-105 CNC/DI-125 CNC  
XK-2640 CNC  
"PILLING", "SCHEFFER", "STOECKL - Germany  
"KOERNER", "SCHEUCH- Austria  
"C.H.EVENSEN – Norway etc.



## EXPORT

- RUSSIA
- TÜRKIYE
- HUNGARY
- USA
- FRANCE



# OUR STRENGTHS AND ADVANTAGES

## PRODUCTION OF STATIC EQUIPMENT

### Production of static equipment

It offers its customers in Azerbaijan heavy engineering products such as pressure vessels, heat exchangers, and turrets.

- Pressure vessels **up to 120 mm** wall thickness
- Vessels, turrets, and poles **up to 70 m** in length
- Various types of heat exchangers

### Crane Engineering

In the production area, cranes are manufactured with lifting capacities ranging **from 1 to 200 tons**, spans **from 3 to 36 meters**, and control systems including remote, cabin, or cable operation. Crane trolleys are available in **single-girder** or **double-girder** configurations.

*The entire production process operates under the strict control of the Technical and Quality Control Department.*

### Metal Construction

STP operates a manufacturing plant specializing in metal structures, with an annual steel production **capacity of 10,000 tons**.





UP TO **70%**  
of raw material purchases are sourced from local manufacturers.

## ANTI-CORROSION

The anti-corrosion services include **HOT-DIP GALVANIZING**, **SANDBLASTING**, AND **INDUSTRIAL PAINTING**.

**In the **HOT-DIP GALVANIZING** facility, metal structures of various sizes are galvanized in both automatic and manual modes.**

Structures up to 14.5 × 1.4 × 2.7 m can be processed automatically, while manual galvanizing allows structures up to 18 meters in length.

**In the **SANDBLASTING** facility, metal surfaces are cleaned in accordance with SA 2 and SA 2.5 standards.**

Sandblasting operations are performed based on customer requirements, utilizing metal grit, dry sand, water, flame, abrasive materials, steam, or mechanical techniques.

**The **INDUSTRIAL PAINTING** area employs both conventional and contemporary techniques for industrial painting applications.**

Paints are applied with brushes or airless spray equipment as appropriate for their purpose. Equipment and technical capabilities are available to paint products of various sizes.



# PRODUCT AND SERVICE

## STATIC EQUIPMENT

- ASME sealed pressure vessels
- ASME certified separators
- Heat exchanger manufacturing and services
- Storage vessels
- Poles and reactors
- Transport vessels

## PROCESSING SERVICES

- Milling/Lathes 3–5 axes
- Vertical and horizontal turning
- Transmission machinery
- Erosion machines
- Bending up to 120 mm

## CRANES

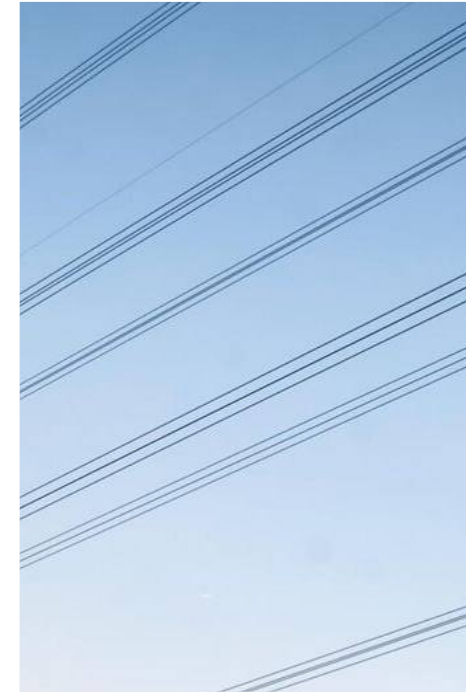
- Overhead cranes
- Jib cranes
- Gantry cranes
- Wall-mounted cranes

## METAL CONSTRUCTION

- Pipe racks
- Sliding systems
- Auxiliary structures

## SERVICES

- Engineering
- Technical maintenance
- Galvanizing
- Sandblasting
- Industrial painting



OUR MAIN  
**PRODUCTS**



**Offshore cranes**



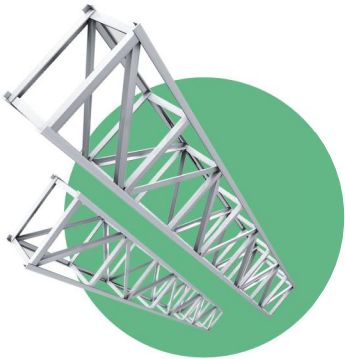
**Overhead cranes**



**Water and fuel vessels**



**Pressure vessels**



**Metal construction**



**Metal electrical poles**

# QUALITY CONTROL

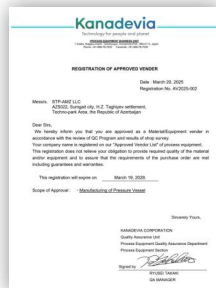
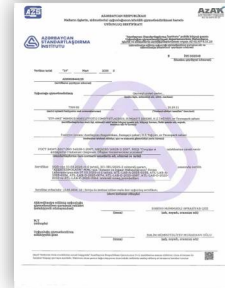
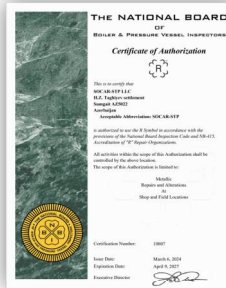
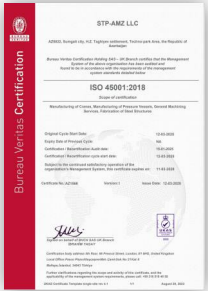
A special laboratory operates at our facility to test finished products. Metal structures are dipped in molten zinc during the hot-dip galvanizing process. All galvanized materials conform to EN ISO 1461:2009 and ASTM A123 standards. High-quality zinc is used in the galvanizing process to ensure quality work.

**The following inspections and tests are conducted in our company's production and service units:**

- Visual inspection of weld seams
- Certification tests for welders
- Various tests in painting and coating departments (Paint application test, Adhesion test, Solubility test, Cross cut test, Dust assessment)
- Geometrical measurements of machined parts and metal structures (with micron-0.001 mm accuracy)
- Non-destructive testing (MT, PT, UT)
- Hardness test
- Roughness test

At the same time, our products are supplied with CERTIFICATES confirming compliance with relevant standards.



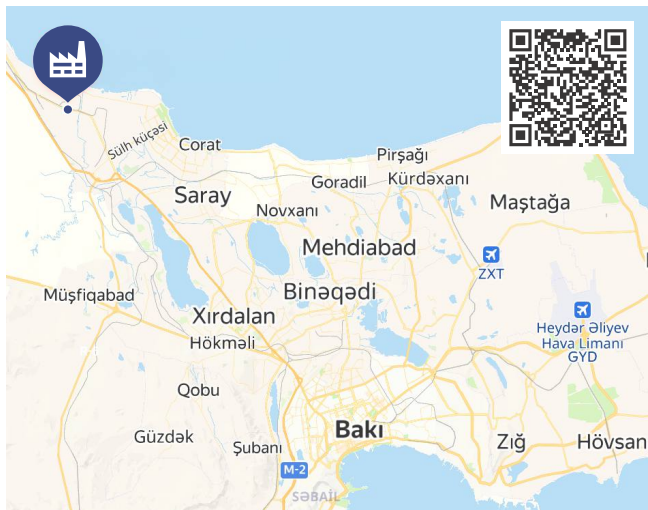


# Contact

 H.Z.Taghiyev settlement,  
Sumgait, Azerbaijan AZ5022

 **\*0990**

 [info@stp.az](mailto:info@stp.az) / [sales@stp.az](mailto:sales@stp.az)



STP collaborates with companies across various sectors through its industry-compliant production capabilities and quality-driven approach.

Our technologically advanced equipment and adaptable production infrastructure empower us to offer partners high-quality, functional solutions.

Our proven systems and skilled specialists ensure that every partnership is built on a reliable and trustworthy basis.

If stability and functionality are your priorities in manufacturing, partnering with STP may be the right choice.

## Equipment

**74 milling machines and lathes**

**18 Gleason machines (France)**

**Hydraulic press machines with capacities from 50 to 3,200 tons**



