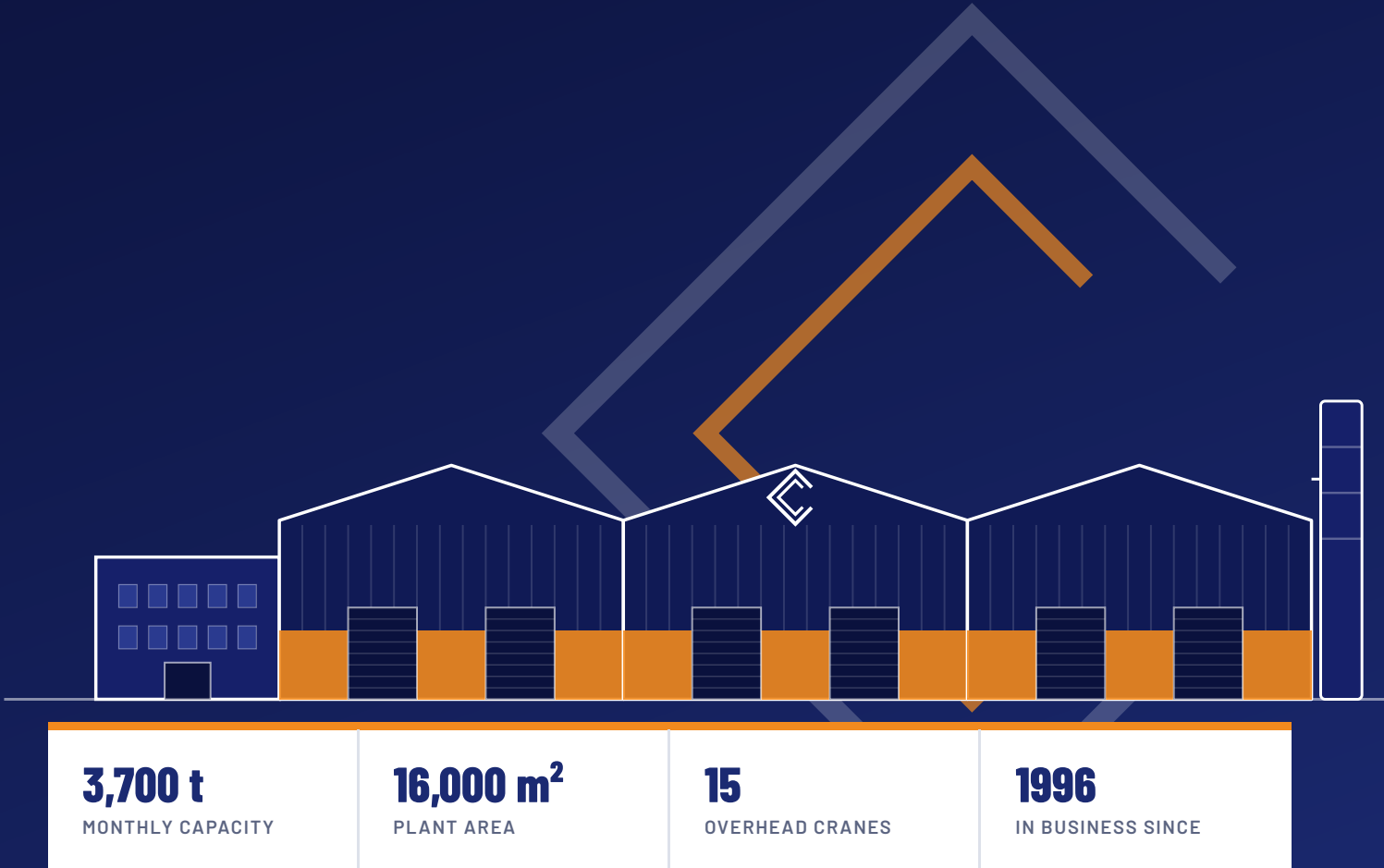




COMPANY CATALOGUE · 2026

ABRASIVE BLASTING, PAINTING, PROTECTIVE COATING AND ENGINEERING FABRICATION

Industry experience since 1996, engineering discipline and high-capacity production



ABUŞOĞULLARI KUMLAMA BOYA İNŞAAT SANAYİ VE TİCARET LIMITED ŞİRKETİ

PANCAR ORGANISED INDUSTRIAL ZONE, İZMİR · WWW.ABUSOGULLARI.COM

FOREWORD

Dear business partner,

Our journey in abrasive blasting and painting began in 1996. In 2009 we were incorporated as **Abuşoğulları Kumlama Boya**, and with **AZZ Makina ve Mühendislik**, founded in 2021, we built an engineering capability that extends from blasting machine design to chassis and steel structure fabrication.

Today, from our 16,000 m² plant in the Pancar Organised Industrial Zone in İzmir and with a monthly capacity of 3,700 tonnes, we are a trusted partner to industries from defence and energy to food and heavy industry.

This catalogue presents our plant, our equipment, our approach to quality and our references. We invite you to our plant to review your projects together against your specifications.

Aziz Abuş

Mechanical Engineer -
Authorised Representative

Suat Abuş

Owner

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OUR FIELDS OF WORK · 29 AREAS

Heavy industry	18	Machinery	23	Treatment tanks	25	Agricultural machinery	26
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01

NEARLY 30 YEARS OF EXPERIENCE AND ENGINEERING STRENGTH

Starting as an individual business in 1996, our company was incorporated as **Abuşoğulları Kuşlama Boya Ltd. Şti.** in 2009. With **AZZ Makina ve Mühendislik Ltd. Şti.**, founded in 2021, we extended our services to blasting machine design, steel structures, special chassis and welded / machined fabrication.

In our modern plant in the Pancar Organised Industrial Zone in İzmir, with a **monthly blasting and painting capacity of 3,700 tonnes**, we are a reliable and strategic partner for heavy industry, power plants and demanding projects.

With a certified team that has worked with us for many years, 100% certified raw materials and quality measured and reported with calibrated instruments, we keep every delivery date we commit to.

1996

Our journey in blasting and painting began as an individual business.

2009

Incorporated as Abuşoğulları Kuşlama Boya Ltd. Şti.

2021

Founded AZZ Makina ve Mühendislik Ltd. Şti., expanding into blasting machine design, steel structures and chassis fabrication.

Today

Operating a 16,000 m² plant in İzmir Pancar OSB with a monthly blasting and painting capacity of 3,700 tonnes.



3,700 T / MONTH

Blasting and painting capacity

16,000 M²

Total plant area

7,000 M²

Covered area · 3 integrated halls

9,000 M²

Open storage and logistics yard

15 CRANES

Overhead cranes · 3 to 15 tonnes

18 TURBINES

Tunnel blasting · 3000 × 1800 mm inlet

14 METRES

Part length in the blast rooms

5 UNITS

Mobile blasting · 4 high-pressure compressors

9 UNITS

Airless high-pressure spray units

30 YEARS

Industry experience since 1996



STRATEGIC REASONS TO WORK WITH US

1 A stable, experienced team

Our certified team has worked with us for many years, giving your projects a consistent quality standard.

1

2 Full financial and legal transparency

All tax and social security obligations are met; we can provide “no debt” certificates from every public authority.

2

3 Certified raw materials

All paints, primers, resins, polyurea and abrasives carry international quality certificates; uncertified material is never used.

3

4 Measured and reported quality

We measure with Elcometer and DeFelsko instruments and deliver test reports compliant with ISO 8501-1, ISO 8503-2 and ISO 12944.

4

5 Honest business, on-time delivery

Integrity guides our relations with customers, employees and authorities, and we keep the delivery dates we commit to.

5

6 Safe packaging and logistics

Specification-compliant packaging, timber / rubber blocking and shock-absorbing profiles ensure damage-free delivery.

6

“Integrity is the founding principle of our relations with customers, employees and authorities, and we keep every delivery date we commit to.”



A 16,000 M² INTEGRATED PLANT IN PANCAR OSB, İZMİR

PLANT INFRASTRUCTURE

3,700 t/month

Blasting and painting capacity

16,000 m²

Total plant area

7,000 m²

Covered area - 3 integrated halls

9,000 m²

Open storage and logistics yard

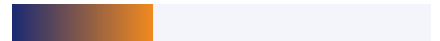
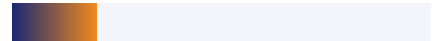
15 cranes

1×15 t · 4×10 t · 2×7 t · 6×5 t · 1×3 t

3000×1800

18-turbine tunnel blaster inlet (mm)

OVERHEAD CRANES · 15 IN TOTAL

1 × 15 t**4 × 10 t****2 × 7 t****6 × 5 t****1 × 3 t**

Three integrated covered halls: blasting, painting and the AZZ Makina fabrication workshop under one roof. Heavy parts are moved safely by overhead crane throughout the plant.

OUR AUTOMATIC TUNNEL SHOT BLASTING MACHINES

Two automatic tunnel blasting lines designed by our Mechanical Engineer **Aziz Abuş** and built in our own plant blast steel sections, plates and large structures continuously and uniformly on a conveyor.



18 TURBINES

18-turbine automatic tunnel shot blasting machine

3000 × 1800 mm

INLET SIZE

18

TURBINES

Single pass

UNIFORM BLASTING

The domestically built blasting machine with the largest inlet in Türkiye. It blasts the heaviest steel sections and large structures uniformly in a single pass.



6 TURBINES

6-turbine automatic tunnel shot blasting machine

2000 × 1000 mm

INLET SIZE

6

TURBINES

For sections, plates and series parts; alongside the large line it blasts smaller cross-sections quickly and economically.

FROM TUNNEL TO BLAST ROOM, FROM PLANT TO SITE

✓ **18-turbine automatic tunnel shot blasting machine**

3000 × 1800 mm inlet. Designed and built by Mechanical Engineer Aziz Abuş; the domestically built blasting machine with the largest inlet in Türkiye. Blasts the heaviest sections and large structures uniformly in a single pass.

✓ **6-turbine automatic tunnel shot blasting machine**

2000 × 1000 mm inlet; for sections, plates and series parts.

✓ **2 manual blast rooms**

5000 × 5000 × 14000 mm; parts up to 14 metres long.

✓ **Sweep blasting of galvanized steel**

Low-pressure precision blasting for hot-dip galvanized materials.

✓ **5 mobile blasting units**

On-site blasting with 4 high-pressure compressors.

✓ **Certified abrasives**

Steel shot, steel grit, silica, quartz, basalt and glass beads.



ISO 8501-1 SURFACE CLEANLINESS GRADES

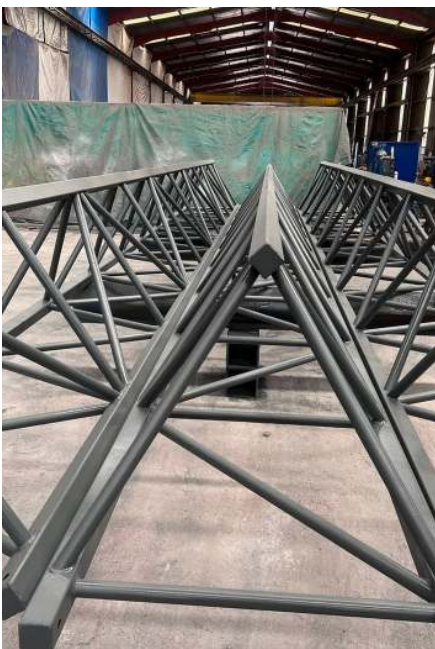
Sa 1 Light blast cleaning: loose mill scale, rust and paint removed.

Sa 2 Thorough blast cleaning: most mill scale, rust and paint removed.

Sa 2½ Very thorough blast cleaning: only slight stains may remain.

Sa 3 Visually clean steel: uniform metallic colour.

The surface profile is produced to the targeted micron depth to ISO 8503-2 by selecting steel shot and steel grit, and verified with a digital profile gauge.



MULTI-COAT PROTECTIVE SYSTEMS TO ISO 12944

After blasting, primer, intermediate and topcoats are applied with a paint system selected for the environment the part will face. We apply under measured air temperature, humidity and dew point, and report the dry film thickness.

✓ 9 airless spray units

High-pressure application with uniform film thickness.

✓ Graco Gusmer GH-3

Hydraulic proportioner for 100% pure polyurea, hybrid and elastomeric coatings.

✓ Coating systems for galvanized steel

Special adhesion primers and epoxy / polyurethane duplex systems.

✓ Corrosion- and acid-resistant linings

Vinyl ester, solvent-free epoxy, polyurethane and fire-retardant coating systems.



ISO 12944 CORROSIVITY CATEGORIES

C1

Very low · heated indoor areas

C2

Low · rural areas, unheated warehouses

C3

Medium · urban and light industrial atmospheres

C4

High · industrial zones, coastal areas, chemical plants

C5-I / C5-M

Very high · aggressive industrial and severe marine environments



PEEL-FREE PAINT ON GALVANIZING, PURE POLYUREA AND CHEMICAL RESISTANCE



Painting galvanized steel · duplex systems

On galvanized sheet and structures we roughen the surface by **low-pressure sweep blasting** without removing the zinc layer, then apply a **special adhesion primer** that bonds fully to the zinc and compatible epoxy / polyurethane systems.

- ✓ Galvanized sections, sheets and structures
- ✓ Galvanized components, poles, solar (PV) structures
- ✓ Duplex system: galvanizing + paint for a very long service life



Polyurea, vinyl ester and solvent-free epoxy

100% pure polyurea, hybrid and elastomeric coatings with the **Graco Gusmer GH-3** hydraulic proportioner; **vinyl ester** for acids and aggressive chemicals, and **food-grade solvent-free epoxy** for drinking water.

- ✓ Water treatment, desalination and chemical tanks
- ✓ Tank linings, factory floors, roof waterproofing
- ✓ Fire-retardant coating systems

WORKING WITH THE WORLD'S LEADING CERTIFIED MANUFACTURERS

To meet international corrosion protection standards (ISO 12944) and every specification requirement, we work with leading certified industrial paint manufacturers from Türkiye and around the world.

JOTUN

Industrial and marine protective coatings, heavy-duty epoxy, systems for galvanized steel

HEMPEL

Heavy-duty primers and topcoats, galvanizing-tolerant coats, fire retardants

INTERNATIONAL (AKZONOBEL)

High-performance protective coatings, duplex systems, marine / industrial

PPG

Heavy industry, aerospace and defence approved advanced coatings

KANSAI ALTAN

Coating systems for industry, automotive and steel construction

KANAT BOYA

Heavy industry, galvanizing primers and equipment coatings

100%

Certified product guarantee

All industrial paints, epoxy primers, polyurethane topcoats, vinyl ester and polyurea raw materials are sourced from TSE, ISO or CE certified manufacturers. Our blasting abrasives (steel shot, steel grit, silica and others) are certified; no uncertified material is used in our plant.



Founded in 2021, **AZZ MAKİNA ve Mühendislik Sanayi Ticaret Limited Şirketi** combines our hands-on surface treatment experience with engineering and fabrication. We use the machines we design in our own plant, and complete the blasting and painting of the chassis and structures we fabricate under the same roof.

✓ 3D / 2D design

Solid modelling, simulation and detailed fabrication drawings with SolidWorks and AutoCAD.

✓ Blasting machine design and manufacture

Custom blasting machines; our 18-turbine tunnel blaster is the result of this know-how.

✓ Box-section chassis fabrication

Truck, trailer, construction machinery and agricultural chassis.

✓ Welding and machining

5 MIG/MAG welding machines, Kesmak KMY DG400 band saw and pillar drill.



Welding standards

We carry out structural steel and chassis welding to **EN ISO 3834** and **EN 1090** with certified welding personnel.



MEASURED, REPORTED, CERTIFIED QUALITY

STANDARDS WE COMPLY WITH

ISO 8501-1

Surface cleanliness grades: Sa 1, Sa 2, Sa 2½ and Sa 3

ISO 8503-2

Surface profile of the targeted micron depth with steel shot and steel grit

ISO 12944

Multi-coat protective systems up to corrosivity categories C5-I (industrial) and C5-M (marine)

EN ISO 3834 · EN 1090

Structural steel and chassis welding by certified welders

QUALITY LAB AND MEASURING EQUIPMENT

Elcometer 456

Dry film thickness (DFT) measurement, 0–1500 µm

DeFelsko PosiTector 6000 FTS

High-thickness measurement, 0–6000 µm

Elcometer digital surface profile gauge

Surface roughness depth analysis, 0–500 µm

Elcometer 319 dew point meter

Air / surface temperature, humidity and dew point monitoring

We analyse our processes in real time with calibrated Elcometer and DeFelsko digital instruments and deliver approved test reports to ISO 8501-1, ISO 8503-2 and ISO 12944.



OCCUPATIONAL HEALTH, SAFETY AND STAFF COMPETENCE

- ✓ All of our staff hold "Surface Cleaning" and "Coating Technology" certificates.
- ✓ Every operation in the plant and on site fully complies with occupational health and safety legislation.
- ✓ Periodic health checks, PPE issue records and risk assessments are maintained without exception.



For tanks too large to bring to our plant, power plants or the refurbishment of installed systems, we work on site with our mobile compressors, generators, blasting and coating equipment and safety-certified specialist crews.

- ✓ 5 mobile blasting units, 4 high-pressure compressors
- ✓ Airless spray and Graco Gusmer GH-3 polyurea unit
- ✓ On-site dew point, humidity and DFT measurement
- ✓ Polyurea and vinyl ester tank linings

FEATURED SITE PROJECT

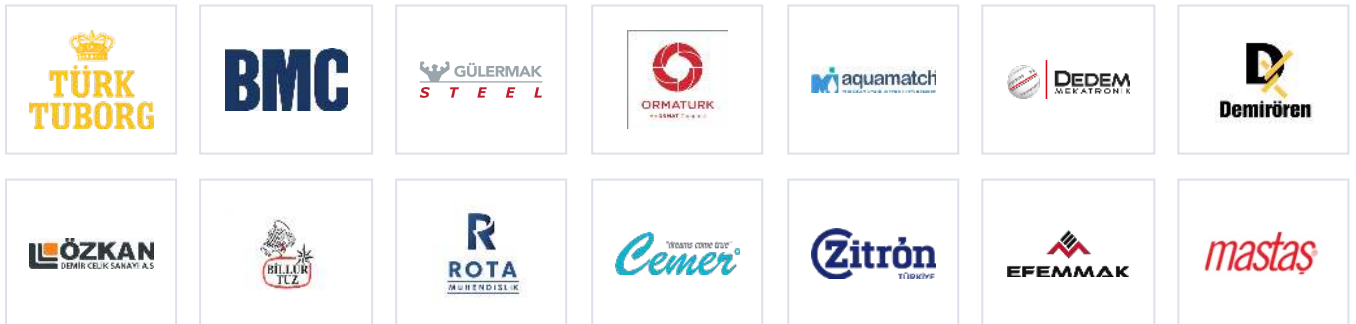
Blasting of Türk Tuborg beer tanks

On-site surface preparation and blasting of large, food-grade beer storage tanks at Türk Tuborg were completed by our specialist site crews in full compliance with international hygiene, safety and surface roughness criteria.

Safe logistics and professional packaging

Packaging to international specifications, timber / rubber blocking and shock-absorbing profiles ensure that sensitive, surface-treated products are delivered without damage.

INDUSTRY	COMPANY	EXPERTISE AND PROCESS
DEFENCE	BMC	Armoured vehicle hulls and armour plates; military-grade epoxy / polyurethane coating
ENERGY	ORMAT	Geothermal and power plant equipment; heat- and corrosion-resistant surface treatment
VENTILATION AND HVAC	Zitron	Fans and ventilation systems; tunnel blasting and protective primer
SEAWATER TREATMENT	Aquamatch	Desalination and treatment tanks; food- / chemical-grade pure epoxy and polyurea
STEEL CONSTRUCTION	Gülermak Steel	Heavy steel structures, bridges and industrial frames; tunnel blasting
TRUCK-MOUNTED EQUIPMENT	Efemmak	Truck-mounted equipment, tippers and chassis; steel grit blasting and painting
HEAVY INDUSTRY AND MACHINERY	Mastaş	Heavy industrial machinery and chassis; high-impact coatings
ROBOTICS AND AUTOMATION	Dedem Mekatronik	Robotic system chassis, precision blasting of mechanical parts and industrial primer
FOOD AND BEVERAGE	Türk Tuborg	On-site blasting of beer storage tanks and hygienic epoxy



14 INDUSTRIES PARTS AND PROCESSES IN 14 INDUSTRIES

GALVANIZING

Galvanized sections, sheets and steel structures

Sweep blasting / galvanizing-compatible epoxy primer and topcoat

Galvanized components and poles

Precision pressure blasting / duplex epoxy and polyurethane system

ENERGY AND POWER PLANTS

Turbines and turbine components

Sa 3 blasting / heat-resistant special coating

Pressure vessels and reactor shells

Sa 2½ blasting / epoxy primer and polyurethane

Pipe supports

Tunnel blasting / industrial epoxy

Power plant steel structures

Sa 2½ blasting / anti-corrosive epoxy primer

Solar (PV) plant steel structures and C-profiles

Automatic tunnel blasting / epoxy and polyurethane

WATER TREATMENT AND CHEMICAL PLANTS

Drinking water treatment tanks

Sa 3 blasting / food-grade solvent-free epoxy

Wastewater treatment tanks

Sa 3 blasting / 100% pure polyurea

Seawater desalination tanks

Sa 3 blasting / high-solids epoxy and polyurea

Tanks for acids and aggressive chemicals

Sa 3 blasting / vinyl ester lining

Chemical transport and mobile storage tanks

Sa 2½ blasting / epoxy and vinyl ester systems

Process tanks in paper mills

Sa 2½ blasting / chemical-resistant coating

LOGISTICS AND TRUCK BODIES

Truck chassis and trailer structures

Steel grit blasting / epoxy primer and polyurethane topcoat

Vacuum trucks and vacuum tanks

Sa 2½ blasting / epoxy and abrasion-resistant polyurethane

Fire engines and equipment

Precision blasting / high-gloss polyurethane

Truck-mounted equipment and tipper chassis

Steel grit blasting / epoxy and industrial paint

Show vehicle chassis and restored bodies

Precision surface cleaning / primer and polyurethane

Vehicle blasting and body refurbishment

Precision manual blasting with special abrasives

HEAVY INDUSTRY AND MACHINERY

Crushing and screening plant chassis

Steel grit blasting / high-impact epoxy

Construction machinery chassis and undercarriages

Sa 2½ blasting / high-performance polyurethane

Mining machinery and bodies

Grit blasting / heavy-duty anti-corrosion and wear coating

Recycling machinery and chassis

Sa 2½ blasting / industrial epoxy and polyurethane

Generator enclosures and equipment

Automatic tunnel blasting / stoving or polyurethane paint

Compressor tanks and air receivers

Sa 2½ blasting / epoxy primer and polyurethane topcoat

Pump components and volutes

Sa 2½ blasting / anti-corrosive primer

Bakery oven machinery and housings

Precision blasting / heat- and food-safe coating

Tobacco processing machinery and chassis

Sa 2½ blasting / industrial primer and polyurethane

Olive oil machinery and stainless components

Stainless grit blasting / food-grade epoxy

Castings and cast chassis

Steel shot blasting / epoxy primer

Rolled sections, profiles and steel plates

Automatic tunnel blasting (Sa 2½) / shop primer

Barbecue and fireplace systems

Manual blasting / high-temperature paint

DEFENCE INDUSTRY

Armoured police barricades

Sa 2½ blasting / military-grade epoxy and polyurethane

Ammunition and ammunition boxes

Special grit blasting / corrosion-resistant military paint

Armour plate blasting and processing

Steel grit blasting / high-strength primer

Armoured safes and security systems

Sa 2½ blasting / impact- and weather-resistant paint

Special transport chassis

Sa 2½ blasting / epoxy primer and polyurethane

STEEL CONSTRUCTION

Steel factory buildings and plants

Automatic tunnel blasting (Sa 2½) / epoxy primer

Steel villa projects and load-bearing frames

Sa 2½ blasting / anti-corrosive epoxy primer

Sports facilities and stadium steelwork

Sa 2½ blasting / polyurethane topcoat

Seismic plates for earthquake systems

Sa 3 blasting / slip-resistant epoxy primer

Electricity and lighting poles

Sa 2½ blasting / weather-resistant polyurethane

Pipes and hollow sections

Automatic tunnel blasting / shop primer or epoxy

Staircases and architectural steel

Manual blasting / acrylic and polyurethane

Railings and wrought-iron work

Precision blasting / decorative industrial paint

Tiny houses and portable steel homes

Sa 2½ blasting / moisture- and corrosion-inhibiting primer

R&D, ROBOTICS AND MEDICAL

Small parts for robotic systems

Precision manual blasting / thin-film epoxy primer

Robotic system chassis and large parts

Sa 2½ blasting / high-performance polyurethane

Medical equipment and stretchers

Precision blasting / medical-grade acrylic or epoxy

Road-marking machinery and equipment

Sa 2½ blasting / abrasion-resistant polyurethane

VENTILATION AND COOLING

Ventilation duct projects

Manual or automatic blasting / epoxy primer

Cooling systems and cooling tanks

Sa 2½ blasting / condensation-resistant epoxy

Ventilation projects

Sa 2½ blasting / industrial polyurethane

Filtration and filter housings

Sa 2½ blasting / epoxy primer and polyurethane

AGRICULTURE AND LIVESTOCK

Agricultural machinery bodies

Sa 2½ blasting / weather-resistant polyurethane

Agricultural chassis and spare parts

Steel grit blasting / epoxy primer and polyurethane

Tractor blasting and refurbishment

Manual blasting / original-formula polyurethane paint

FOOD AND BEVERAGE

Beer and food storage tanks (e.g. Türk Tuborg)

Stainless grit blasting / food-grade pure epoxy

Kitchen equipment and machinery

Stainless surface cleaning / glass bead blasting

Stainless machinery and chassis

Stainless shot / grit blasting and passivation

PUBLIC INFRASTRUCTURE

Railway structures and stations

Sa 2½ blasting / heavy-duty polyurethane

Poles, benches and street furniture

Sa 2½ blasting / weather-resistant acrylic or polyurethane

ON-SITE COATINGS

Factory floor polyurea coating

Mechanical surface preparation / pure polyurea

Tank internal polyurea and vinyl ester linings

Sa 3 blasting / pure polyurea or vinyl ester with Graco Gusmer

Roof and insulation coatings

Surface cleaning / polyurethane foam and polyurea insulation

SPECIAL APPLICATIONS AND RESTORATION

Historic artefact blasting and cleaning

Low-pressure precision abrasive blasting

Wooden furniture, doors and pallets

Precision wood blasting (grain opening)

Marble, porcelain, stone and glass

Low-pressure fine silica / glass bead blasting

Bowling equipment and components

Precision surface preparation / special epoxy

Playgrounds and toys

Sa 2½ blasting / non-toxic polyurethane

Hotel aqua park steel structures and gates

Sa 3 blasting / chlorine- and weather-resistant polyurea

Mould blasting and cleaning

Glass bead / fine silica blasting

HEAVY INDUSTRY



OUR FACILITY



ENERGY AND POWER PLANTS



STEEL STRUCTURES





TANKS



PACKAGING AND SHIPPING



PACKAGING AND SHIPPING · CONTINUED



MACHINERY



PIPING



PIPING - CONTINUED



GENERATOR ENCLOSURES



CONTAINERS



STAINLESS STEEL



PAINTING GALVANIZED STEEL



VENTILATION



TREATMENT TANKS



GATES AND FENCES



FIRE ESCAPE STAIRS



SEISMIC ISOLATION PLATES



ROBOTICS



TRUCK-MOUNTED EQUIPMENT



AGRICULTURAL MACHINERY



DEFENCE INDUSTRY



SOLAR POWER SYSTEMS



TINY HOUSE



WE INVITE YOU TO OUR PLANT

We would be honoured to welcome you and your technical team to our plant in the Pancar Organised Industrial Zone in İzmir: to review your projects against your specifications, see our blasting, coating and fabrication processes on site and visit our modern 16,000 m² facility.



CONTACTS

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COMPANY DETAILS

Abuşoğulları Kuşlama Boya İnşaat Sanayi ve Ticaret
Limited Şirketi

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**ABRASIVE BLASTING · INDUSTRIAL PAINTING · PROTECTIVE COATING · ENGINEERING
FABRICATION**

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