qprocess
Casting & Machining Solutions Partner

Engineering, quality and project management for your cast, forged and machined parts

From Türkiye to Europe · Company presentation 2026

www.qprocess.com.tr



WHAT WE DO

We manage production from drawing to delivery

01

Engineering

Drawing review, tooling and process analysis, potential defects and critical features

02

Production management

Choosing the right manufacturer for the part, samples, series production and delivery dates

03

Quality assurance

Control plan, first article approval, in-process and pre-shipment inspection

04

Logistics and documents

Packaging, shipping, customs documents and inspection reports

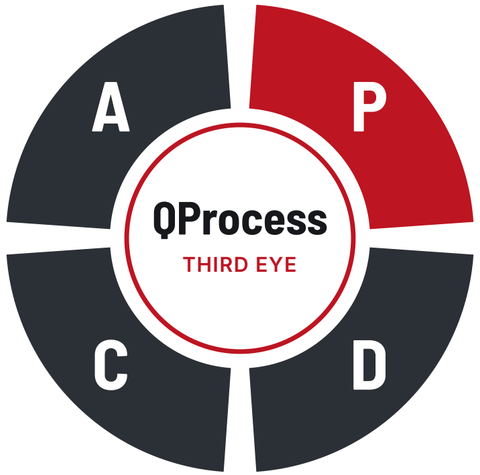
OUR POSITION

An independent third eye between customer and supplier

Customer

WHAT YOU GET

- One point of contact
- Inspection results, unfiltered
- You own the tooling



P Engineering and FMEA

D Follow-up at the supplier

C On-site measurement

A Root cause, action

Manufacturer

WHAT THE MANUFACTURER GETS

- A clarified drawing and specification
- Control plan, critical features
- On-site inspection

WHY YOU CAN RELY ON US

- Your technical data is protected under a non-disclosure agreement (NDA).
- Tooling and patterns belong to the customer. They are stored at the manufacturer and we keep track of them.
- The manufacturer is chosen for each job, based on what the part needs.

WHY TÜRKİYE

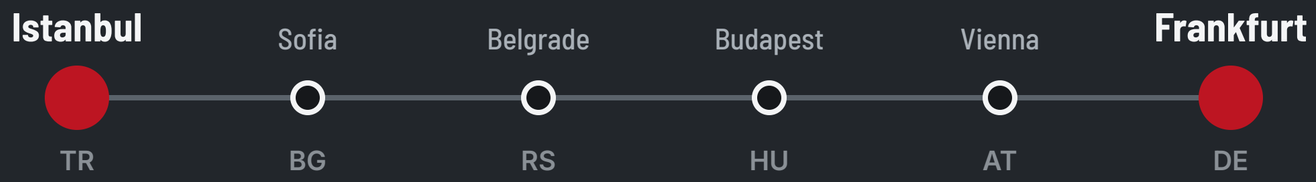
Europe's second-largest foundry industry, days away from you

No. 2
in Europe and no. 7 worldwide in casting production

2.3 Mt
castings produced in 2025 · installed capacity 3 Mt

€6.1 bn
casting exports in 2025 · 1.64 Mt

76%
share of output exported, by value



1,864 km
Istanbul – Frankfurt by road

5–8 days
Truck transit Türkiye – Germany

0%
customs duty on industrial goods (with A.TR)

Sources: Turkish Ministry of Trade (21.10.2026); Fluent Cargo (distance); CargoLinked (transit time); European Commission, EU–Türkiye Customs Union

SAMPLE WORK

Castings and forgings



PERMANENT MOULD CASTING



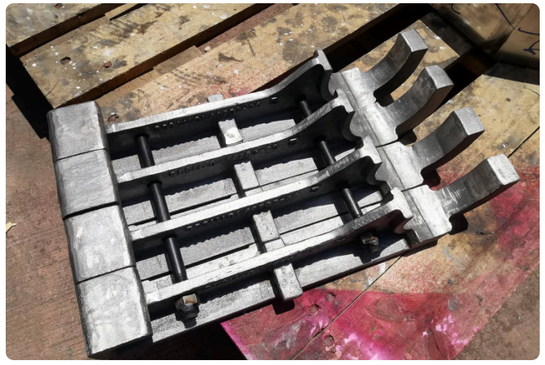
SAND CASTING · ALUMINIUM



SAND CASTING · ALUMINIUM



SAND CASTING · IRON



STEEL CASTING



STEEL CASTING



FORGING · RAW



FORGING · MACHINED

SAMPLE WORK

Machining and engineering plastics



MACHINING · GEAR



MACHINING · RING



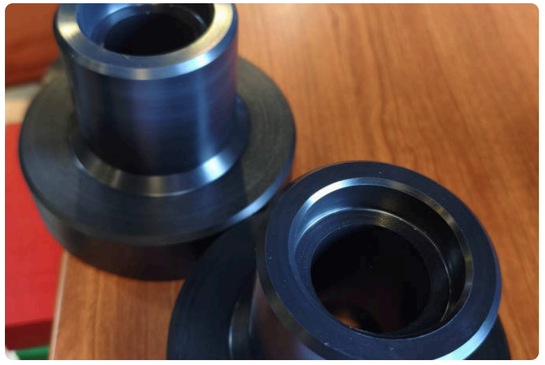
MACHINING · SHAFT



MACHINING · SHAFT



ENGINEERING PLASTICS



ENGINEERING PLASTICS



ENGINEERING PLASTICS



ENGINEERING PLASTICS

CAPABILITIES

Processes and materials

Processes shown in our sample work and used in completed projects.

Process	Methods	Materials
Casting	Sand casting (resin-bonded sand, hand moulding and automatic moulding line), permanent mould casting	Aluminium, iron, steel
Forging	Delivered raw or machined	Steel
Machining	CNC machining: shafts, gears, rings and similar parts	Steel and cast/forged parts
Engineering plastics	Parts machined from stock	PE and similar engineering plastics

There is no fixed size or weight limit. Feasibility is assessed for each part from its drawing.

APPROACH

We solve the part on the engineering desk before production

Example: a cast part. The same approach applies to forged, machined and plastic parts.

INPUT

Drawing and specification

Data from the customer

Tooling engineering

Moulding method, feeder and gating layout, shrinkage allowances, core requirements.

Design for manufacturing

Wall thickness transitions, radii, tolerances and machining allowance.

Potential defects (FMEA)

Porosity, shrinkage, distortion, dimensional deviation: causes and countermeasures before production.

Critical features

Functional dimensions and risk areas are identified.

OUTPUT

Control plan and supplier choice

We know where to look before production starts

SUPPLIER SELECTION

1. Supplier matched to the part's risks
2. Quality system checked on site
3. Series only after sample approval
4. Performance tracked on every order

ENGINEERING SERVICES

Before and during production

Services we provide with specialist partners, depending on what the project needs.

Reverse engineering

Measurement, 3D model and drawing from a sample part.

Casting simulation

Filling and solidification analysis before the pattern is made. Shrinkage and porosity risks show up early.

Casting drawing

Casting drawing derived from the machined-part drawing: machining allowances, ISO 8062-3 tolerances.

Manufacturability and cost

Details that make production harder, and design alternatives that cut cost.

Rapid prototypes

Sample castings from 3D-printed patterns, without waiting for tooling.

3D measurement

Full CMM measurement and measurement report.

Machining optimisation

Shorter cycle times through tool selection and machining strategy.

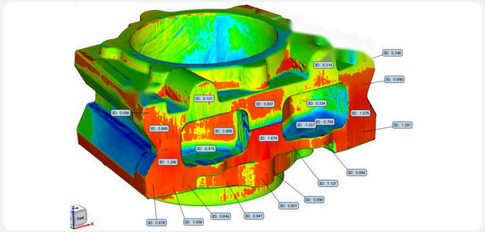
Independent inspection

On-site inspection and measurement at your existing suppliers.

FROM THE FIELD · ENGINEERING SERVICES

Examples from measurement and casting engineering

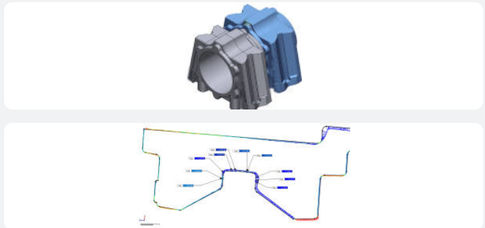
Images are taken from reports and studies we prepared for our customers.



01 3D scan and colour map

The scanned part is compared with the CAD model; the colour map shows the deviation at every point.

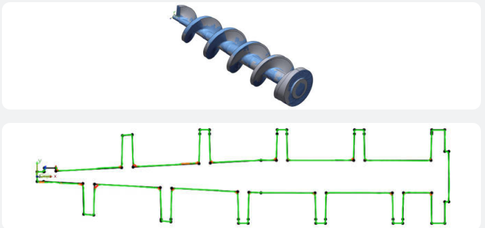
- Full-surface check for first article approval
- Excess and missing material visible at a glance
- CAD model of parts without a drawing (reverse engineering)



02 Alignment and section analysis

Scan data is aligned to the CAD coordinate system; critical dimensions are checked point by point in sections.

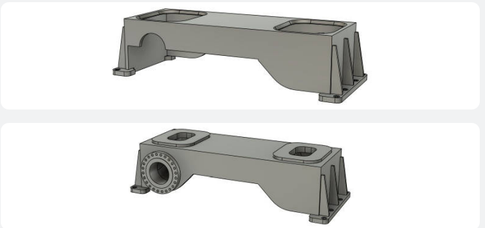
- Example: channel width 26 ±1.2 mm
- Measurement data for pattern and core corrections



03 Complex geometry

Freeform surfaces such as a screw conveyor can't be fully measured with a caliper; scanning checks the whole surface.

- Deviation distribution over the whole surface
- 2D comparison in critical sections
- Share of surface within tolerance reported as a percentage



04 Casting drawing and pattern

A casting drawing is derived from the machined-part drawing, defining machining allowance, draft and cores.

- Casting options compared
- Converting machined or welded parts to castings
- Manufacturability check before tooling is built

PROCESS

From quotation to tooling storage, all in one hand

01 → 02 → 03 → 04 → 05

PREPARATION

Quote and feasibility

Drawing, quantities and specification are reviewed.

PREPARATION

Engineering analysis

Risks and critical features are identified.

PREPARATION

Pattern and tooling

Tooling design and build are followed up.

APPROVAL

First article approval

The sample is measured and a report is provided.

PRODUCTION

Series production

Monitored with in-process checks.

06 → 07 → 08 → 09 → 10

QUALITY

In-process check

On-site checks during production.

QUALITY

Final inspection

Measurement and visual check before shipment.

QUALITY

Reporting

Inspection results are shared with the customer.

DELIVERY

Packing and shipping

Part-specific packaging, A.TR and customs documents.

AFTERWARDS

Tooling storage

Kept ready for repeat orders.

Tooling and patterns remain the customer's property, stored at the manufacturer and tracked by us.

QUALITY

We leave nothing to chance in inspection

The control plan is built around the critical features; every result is reported to the customer.

1

INSPECTION GATE 1

First article

Full measurement, material and visual check. Series production starts only after approval.

2

INSPECTION GATE 2

In-process check

On-site checks at the manufacturer during production. Deviations are caught early.

3

INSPECTION GATE 3

Before shipment

Final and packaging inspection. No part leaves without passing this gate.



Inspections are carried out at the production site by our own team.

APPROACH

Project management and communication

One point of contact

One project manager for quotation, production, quality and shipping.

Regular reporting

Inspection results are reported to the customer at every stage.

Confidentiality

Your drawings and data are protected under a non-disclosure agreement (NDA).

Tooling ownership

Tooling and patterns belong to the customer. We are responsible for storage and tracking.

MARKETS

Projects and enquiries from 14 countries

WESTERN EUROPE

Germany | France | Netherlands | Belgium | Austria | United Kingdom | Spain | Italy

CENTRAL AND EASTERN EUROPE

Czechia | Croatia | Romania | Ukraine

OTHER

USA | Jordan

INDUSTRIES

- Agricultural machinery
- Machinery and equipment
- Construction and mining
- Energy and infrastructure
- Commercial vehicles and automotive
- Pumps, valves, hydraulics
- Measuring and control devices
- Security and locking systems
- Aerospace
- Medical

qprocess
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Send us your drawing and let's start the engineering work together.

SALES AND QUOTATIONS

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Drawings and requests for quotation

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