YAĞMAKSAN

EST. 1994 · TURKIYE

FOR PURCHASING & SUPPLIER-QUALITY TEAMS · 2026

Technical Capability Profile

Part families, size and accuracy limits, machine park, process route and quality data — a compact reference for sourcing machined parts from Yağmaksan.



High Quality, Value Driven.

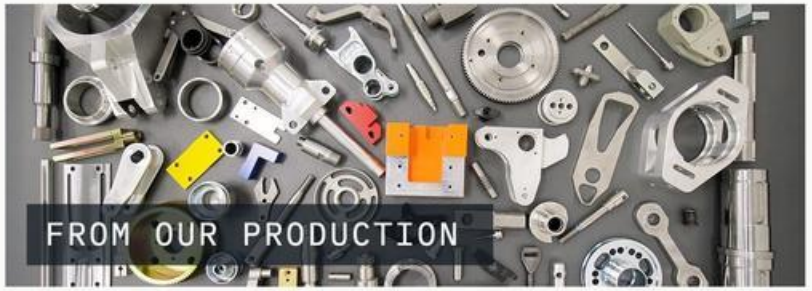
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Supplier Profile at a Glance

FOUNDED **1994** Çorum OIZ, Türkiye	MACHINE PARK **48** 41 CNC · 7 universal	ANNUAL OUTPUT **~700k** parts, 4,000+ part types	EXPORT SHARE **95%** to 16 countries
TEAM **115** 30 office · 85 production	SITE AREA, M² **30,000** of which 12,000 covered	5-AXIS SIMULTANEOUS **7** machines · Ø550 × 500 mm	SITES **3** incl. Yağmaksan GmbH, Berlin

CERTIFIED MANAGEMENT SYSTEMS

IATF 16949:2016 · AS9100D · ISO 9001:2015 · ISO 14001:2015 · ISO 45001:2018 · ISO/IEC 27001:2022 · ISO 28000:2022 · ISO 10002:2018 · SA8000:2026



Part Families and Process Routes



Energy System Parts

MV/HV line transfer and switchgear parts

5-axis milling · turning

Ø550 × 500 mm 800 kg, 5-axis



Gear Groups

Spur gears, gear sets, splined hubs

Hobbing · Fellows shaping · broaching

Ø260 mm up to module 6



Connection Elements

Pins, bolts and fasteners in series

Swiss-type and series turning

Ø42 × 320 mm bar work, 8-axis



Aviation Parts

Structural brackets, levers, housings

5-axis simultaneous milling · AS9100D

5 µm · 3 µm positioning · repeatability



Turbine & Transmission

Shafts, splined shafts, transfer parts

Turn-mill · cylindrical grinding

Ø670 × 1,512 mm turn-mill



Machine-Tool Parts

Housings, flanges, precision bores

Multi-tasking · 5-axis · CMM-verified

1.5 + L/350 µm CMM MPE

Turned & Multi-Tasking Parts







TYPICAL PARTS

Shafts · Splined shafts · Bushings & sleeves · Flanges · Pins

Ø670 × 1,512 mm

Max. part on the 7-axis turn-mill, complete in one clamping

Ø40-650 mm

Chucked turning range

Ø42 × 320 mm

Swiss-type bar work, 8-axis

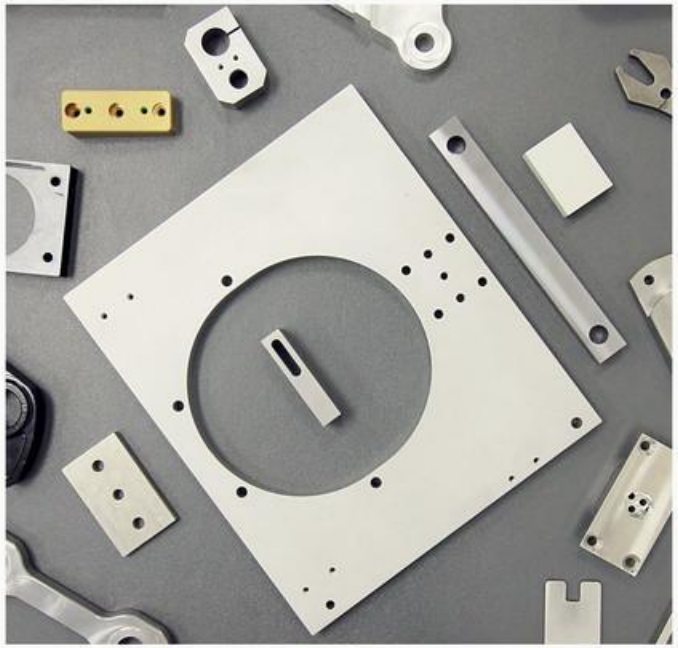
Ø200 × 630 mm

CNC cylindrical grinding

TURNING FLEET · 20 MACHINES

2 multi-tasking (7-axis) · 2 Swiss-type (8-axis) · 8 CNC with C/Y-axis, twin-spindle · 6 CNC 2-axis · 2 universal

Milled & 5-Axis Parts







TYPICAL PARTS

- Structural brackets
- Levers
- Plates
- Housings
- Clamp parts

Ø550 × 500 mm
Max. 5-axis simultaneous part, up to 800 kg

1,600 × 800 × 700
Max. travels in mm, vertical machining

450–1,500 mm
Table sizes · spindles up to 20,000 rpm

5 µm · 3 µm
Positioning · repeatability on the 5-axis reference machine

MILLING FLEET · 18 MACHINES
7 × 5-axis simultaneous · 3 × 4-axis CNC · 6 × 3-axis CNC · 2 universal

Gear & Power-Transmission Parts





TYPICAL PARTS

- Spur gears
- Gear sets
- Splined hubs
- Splined shafts
- Gear shafts

Ø260 mm

Max. gear diameter, up to module 6

Hobbing

2 × 6-axis CNC (SMG SH-260) · 3 × universal

Shaping

3 × Fellows-type gear shaping

Broaching

2 machines for splines and keyways

FINISHING & HEAT TREATMENT

Grinding in-house · case hardening and vacuum nitriding by qualified partners · hardness and gear accuracy checked in-house

What We Machine: Sizes and Accuracy



TURNING & TURN-MILL

Ø670 × 1,512
mm max. part size

- Chucked parts Ø40–650 mm
- Swiss-type bar work to Ø42 × 320 mm
- Turn-mill in one clamping (B/C axes)



MILLING, 3 TO 5 AXES

Ø550 × 500
mm, up to 800 kg (5-axis)

- Travels up to 1,600 × 800 × 700 mm
- Table sizes 450–1,500 mm
- Spindles up to 20,000 rpm



GEAR CUTTING

Ø260
max. gear diameter · module 6

- CNC hobbing, 6 axes
- Gear shaping (Fellows)
- Broaching of splines and keyways



GRINDING & FINISHING

Ø200 × 630
mm CNC cylindrical grinding

- Surface grinding
- Vibratory deburring, sand blasting
- Laser marking for traceability

ACCURACY	5 µm	4 µm	3 µm	0.0001°	1.5 + L/350 µm
	positioning, 5-axis	positioning, turn-mill	repeatability	resolution	CMM verification

Machine Park – 48 Machines

MILLING

18

Tables 450–1,500 mm



- **7** — **5-axis simultaneous** — Ø550 × 500 mm, 800 kg
- **3** — **4-axis CNC**
- **6** — **3-axis CNC** — Travels to 1,600 × 800 × 700 mm
- **2** — **Universal milling** — Manual

TURNING

20

Chucked Ø40–650 mm



- **2** — **Multi-tasking, 7-axis** — Ø670 × 1,512 mm, one clamping
- **2** — **Swiss-type, 8-axis** — Bar work to Ø42 × 320 mm
- **8** — **CNC lathe, C/Y-axis** — Twin-spindle turning
- **6** — **CNC lathe, 2-axis**
- **2** — **Universal lathe** — Manual

GEAR CUTTING

10

To Ø260 mm, module 6



- **2** — **CNC hobbing, 6-axis** — SMG SH-260
- **3** — **Universal hobbing** — Manual
- **3** — **Gear shaping** — Fellows type
- **2** — **Broaching** — Splines and keyways

ALSO IN-HOUSE High-speed tapping · cylindrical & surface grinding · horizontal boring · automatic sawing

CNC 41 MANUAL 7

Heat Treatment, Coating & External Operations

Certified raw material → **Forging & casting** → **Machining** → **Heat treatment** → **Grinding** → **Coating & painting** → **Inspection & packing**

● IN-HOUSE ○ QUALIFIED PARTNER, MANAGED BY US



Heat Treatment

- **Vacuum nitriding**
- **Case hardening**

✓ Hardness tested in-house



Coating & Painting

- **Alodine**
- **Manganese / zinc phosphate**
- **Industrial painting**

✓ Coating thickness measured in-house



Further Operations

- **Robotic TIG / CMT welding**
- **Sand blasting · deburring**
- **Laser marking**

◷ Next: in-house heat treatment

Materials Machined



Steels

General structural · carbon · medium and high alloy · free-cutting · case-hardening

Stainless steels

Austenitic · ferritic · martensitic · duplex

Non-ferrous

Aluminium 2xxx · 5xxx · 6xxx · 7xxx series · CuSnPb bronze alloys

Engineering plastics

POM (Delrin) · ABS · PTFE

RAW MATERIAL SUPPLIERS

Valbruna · Swiss Steel International · Cogne Acciai Speciali · BGH · MONTANSTAHL Special Profiles in Steel · SEYKOÇ ALÜMİNYUM

Quality Assurance Along the Order

Incoming material

- EN 10204 3.1 certificates
- Spectral analysis

In process

- Process validation
- Tool presetting

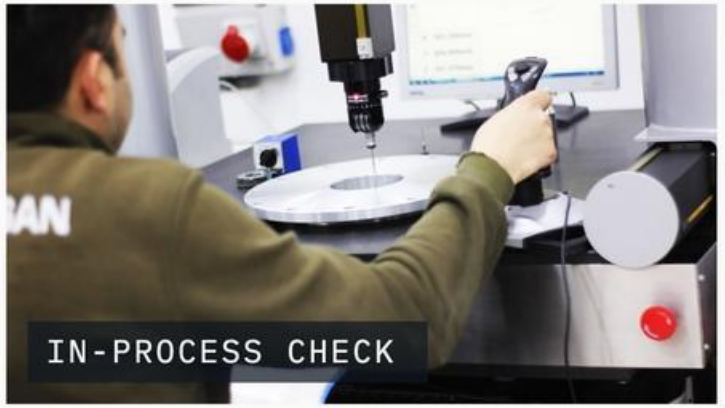
Final inspection

- 3D CMM · contour
- ISO 2859-1 AQL

Records & release

- Lot inspection report
- Full traceability







Metrology Laboratory

REFERENCE MACHINE

Zeiss Contura G2 3D CMM



X × Y × Z	**1,200 × 2,400 × 1,000 mm**
MPE E0	**1.5 + L/350 µm**

Equipment	Measurement
Zeiss Contura G2 CMM	3D coordinates
Hexagon GLOBAL S 9.15.8 CMM (2 units)	3D coordinates
Aberlink CMM	3D coordinates
Mahr MarSurf CD 280 BG 22 (2023)	Contour and profile
KB Prüftechnik KB30 SR (2023)	Automatic video hardness
Rockwell, Brinell and Vickers testers	Hardness
Spectral analyser	Chemical composition
Surface roughness tester	Roughness
Gear measuring device	Gear accuracy
Coating thickness gauge	Coating and paint thickness

Reference Customers

ENERGY



CNC & MACHINE TOOLS



INDUSTRIAL MACHINERY



RAIL SYSTEMS



AEROSPACE



CARBON TECHNOLOGY



From Drawing to Quotation

SEND WITH YOUR RFQ

01 3D model (STEP) and 2D drawing (PDF) with tolerances

02 Material grade and standard, or approved alternatives

03 Annual volume, lot size and call-off rhythm

04 Heat treatment, coating or painting specification

05 Inspection needs: first-article, PPAP or measurement report

06 Delivery terms, packaging and target date

WHAT WE DOCUMENT

- EN 10204 3.1 certificates for incoming material
- Spectral analysis and hardness checks
- 3D CMM, contour and coating-thickness measurement
- Sampling to ISO 2859-1 (AQL)
- Lot inspection report with release decision
- Traceability from raw material to shipped part

YAĞMAKSAN

THANK YOU

High Quality, Value Driven.

HIGH PRECISION MACHINING · EST. 1994

HEADQUARTERS · TÜRKİYE

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