COMPANY PROFILE

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HISTORY

• 1983, TEFAŞ AŞ started to work with Oyak-Renault.
• 1990, TEFAŞ AŞ was qualified as ‘provider level A’ by Renault, Ford and Valeo.
• 1996, TEFAŞ AŞ managed to get the certificate of ‘ISO 9002’.
• 1999, also it managed to get ‘ISO 14001 Certificate of Environmental Management Standard’.
• 2000, it improved its quality systems and got the ‘QS 9000 certificate’ and in 2003, the certificate of ‘ISO 16949: 2002’.
• 2007, TEFAŞ AŞ has moved to Gebze Taysad Industrial Zone with a new factory composed of a 20,000 m2 closed area.
• Today the production is being continued here.

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# PROGRESS OF AUDITS

<table>
<thead>
<tr>
<th>AUDITED BY</th>
<th>POINTS</th>
<th>LEVEL</th>
</tr>
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<tbody>
<tr>
<td>OYAK – RENAULT . 1992</td>
<td>76</td>
<td>B</td>
</tr>
<tr>
<td>OYAK – RENAULT . 1995</td>
<td>86</td>
<td>B</td>
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<td>OYAK – RENAULT . 1996</td>
<td>92</td>
<td>A</td>
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<tr>
<td>OYAK – RENAULT. LAB.1998</td>
<td>96</td>
<td>APPROVED</td>
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<td>VALEO FR 1999</td>
<td>92</td>
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<tr>
<td>RW TÜV 1996</td>
<td>ISO 9002</td>
<td>ISO 9002</td>
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<td>RW TÜV 1999</td>
<td>ISO 14001</td>
<td>ISO14001/EN ISO14001</td>
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<td>RW TÜV 2000</td>
<td>QS-9000/ISO</td>
<td>QS-9000/ISO 9002</td>
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<td>TCL 2008</td>
<td>ISO 14001</td>
<td>ISO 14001 : 2004</td>
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<td>OYAK-RENAULT LAB. 09.04.2009</td>
<td>LAB. APPROVAL</td>
<td>LAB. APPROVAL</td>
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<td>HYUNDAI 5 STAR – 27.05.2010</td>
<td>83,70</td>
<td>4 STAR</td>
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<td>FORD Q1 CERTIFICATE-09.07.2010</td>
<td>Q1 CERTIFICATE</td>
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<td>JCI- SAS -06.05.2014</td>
<td>90,2</td>
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<td>JCI-VDA6 -04.11.2014</td>
<td>76</td>
<td>C</td>
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<td>OYAK–RENAULT. ASES 2015</td>
<td>65</td>
<td>B</td>
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<td>DAIMLER-VDA6 PROCESS AUDIT-18.03.2015</td>
<td>90</td>
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<td>JCI-VDA6 -07.03.2016</td>
<td>92</td>
<td>A</td>
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</table>
LOCATIONS

HEAD OFFICE & TOPKAPI PLANT
GÜMÜŞSU cad. NO : 12
34020 TOPKAPI
İSTANBUL / TÜRKİYE

📞 (90-212) – 576 08 30
วก (90-212) – 576 08 71

GEBZE PLANT
TAYSAD ORG. SAN. BÖLGESİ
3.CADDE NO : 19
KOCAELİ / TÜRKİYE

📞 (90-262) – 658 02 20
วก (90-262) - 658 82 02

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GEBZE PLANT

<table>
<thead>
<tr>
<th></th>
<th>Topkapı Plant</th>
<th>Gebze Plant</th>
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<tbody>
<tr>
<td>Established</td>
<td>1983</td>
<td>2007</td>
</tr>
<tr>
<td>Closed Area</td>
<td>6000 m2</td>
<td>20,000 m2</td>
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<tr>
<td>Number of Employees</td>
<td>70</td>
<td>300</td>
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CUSTOMERS

Our Quality is your safety
TOOLING WORKSHOP

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## TOOLING WORKSHOP
### MACHINE PARK

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Capacity</th>
<th>Efficiency</th>
<th>Performance</th>
<th>Shifts per Day</th>
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<tbody>
<tr>
<td>CNC Milling Machine</td>
<td>2100</td>
<td>800</td>
<td>750</td>
<td>2 shift / day</td>
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<tr>
<td>CNC Milling Machine</td>
<td>1100</td>
<td>630</td>
<td>650</td>
<td>2 shift / day</td>
</tr>
<tr>
<td>CNC Milling Machine</td>
<td>3200</td>
<td>1600</td>
<td>1100</td>
<td>2 shift / day</td>
</tr>
<tr>
<td>Wire Erosion</td>
<td>1250</td>
<td>750</td>
<td>350</td>
<td>2 shift / day</td>
</tr>
<tr>
<td>Wire Erosion</td>
<td>800</td>
<td>600</td>
<td>450</td>
<td>2 shift / day</td>
</tr>
</tbody>
</table>

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TOOLING CAPABILITIES
Large progressive stamping

Our engineers able to realize the design by Catia, Cimatron and Work NC to CAM programming, CFs and fixtures for welding.

Workpiece: 2.5mm S700

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ENGINEERING
In Die Tapping Systems

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ENGINEERING
Large Transfer Stamping

- Work Piece Up to 1500mm length
- Double-Destacker
- Coil-feed

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ENGINEERING
Deep Drawing Transfer Stamping

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MANUFACTURING AREA

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STAMPING

Press Shop:

1000 ton double action + 4*500 ton Robotic Press Line

800 ton progressive press
630 ton progressive press

250-500 ton mechanical press line

250 ton hydrolic press line

100-315 ton mechanical press line

80-150 ton mechanical press line

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TGP PRES LINE (AUTOMATIC - ROBOTICS)

MECHANICAL 1000 T  3000x2100
MECHANICAL  500 T  3000x2100
MECHANICAL  500 T  3000x2100
MECHANICAL  500 T  3000x2100
MECHANICAL  500 T  3000x2100

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TRANSFER PRESS LINE

1200 ton Transfer Press
5000*1800
Link Drive Mechanism

400 ton Transfer Press 2700*1200

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PROGRASSIVE PRESS LINE

800-630 ton Progressive Press
3000*1600

300 ton Progressive Press
1800*1000

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MECHANICAL PRESS WORKSHOP

MECHANICAL 500 T  2200x1400
MECHANICAL 400 T  2200x1200
MECHANICAL 315 T  1600x1000
MECHANICAL 300 T  2200x1400
MECHANICAL 300 T  2200x1400
MECHANICAL 300 T  1600x1000
MECHANICAL 250 T  2200x1200
MECHANICAL 250 T  2460x1250
MECHANICAL 250 T  2460x1250

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MECHANICAL PRESS WORKSHOP

Various presses up to 250 tons

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WELDING ASSEMBLY

SPOT WELDING ROBOTS
3 Item

MIG/MAG WELDING ROBOTS
5 Item

PORTABLE SPOT / PROJECTION WELDING MACHINES
120 - 180 KVA
18 Item

MIG/MAG WELDING MACHINES
169 / 250 A
8 Item

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ROBOTIC SYSTEMS

The parts which have arc welding process and high production volume are produced with arc robotic systems.
ROBOTIC SYSTEMS

Robotic systems are used in the spot and gas welding operations.

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Projection welding, spot welding, and gas welding processes are used by the experienced engineers and workers. All processes and parameters are surveyed carefully.
PAINT WORKSHOP (TOPKAPI PLANT)

• Painting process is done electrostatically.

• At the beginning of the process the paint resistance is controlled by a test method that controls the adherence of the paint.

• The painting workshop is obliged to first get the approval of the adherence test by the quality control department before completing the painting process.
TREATMENT WORKSHOP (TOPKAPI)

• In treatment workshop parts are being coated by zinc and nickel metal.

• During the treatment process the thickness of the coating is continuously controlled by an elcometer.

• Following the treatment system, aging tests (salt spraying) are carried on in our premises.

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PULLEY PRODUCTION (TOPKAPI)

Our company has a special pulley machine and is able to produce various types of pulleys including V-pulley.
MAIN CUSTOMERS

- L38 (Fluence)
- L 38 E (E-Fluence)
- X 98 (Clio)
- LFF (New Fluence)
- X87 (Captur)
- BJA (New Clio)

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L35 SYMBOL PROJECT

31 parts to mass production

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X98 CLIO IV PROJECT

65 parts to mass production

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L38 FLUENCE PROJECT

26 parts to mass production

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L38E FLUENCE ZOE PROJECT

43 parts to mass production

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LFF PROJECT
SOP 2016

New Renault Fluence

23 parts to mass production

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MAIN CUSTOMERS

- CARGO (H566)
- CARGO (H62X)
- V362 & V363 (Transit)
- B460 (Courier)

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TRANSIT PROJECT

22 parts to mass production

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TRANSIT CONNECT PROJECT

12 parts to mass production

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CARGO PROJECT

18 parts to mass production

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MAIN CUSTOMERS

10 parts to mass production

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Delivery location: Izernore (France)
V362 TRANSIT CUSTOM

Delivery location: Gebze/Turkey

72 parts to mass production

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V363 NEW TRANSIT

(Turkey & North America)

48 parts to mass production

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Delivery location: Swiebodzin (Poland) SOP:2016

35 parts to mass production

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IBK – Front Seat Track Laser Welding Parts
BMW+DAI

Delivery location:
Mor
(Hungary)
SOP:2018

22 parts to mass production

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RAW MATERIAL SUPPLIERS

ERDEMİR

BAMESA (ARCElor)

BORÇELİK

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METROLOGY LABORATORY

- METROLOGY LABORATORY
- TYPHOON 331513 ( DEA )
- CO-ORDINATE MEASURING SYSTEM

- MEASURING CAPACITY:
  - X AXIS = 1500 mm.
  - Y AXIS = 3300 mm.
  - Z AXIS = 1300 mm.

- SOFT – WARE
- PC- DMIS

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WELDING CONTROL LABORATORY

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Compression & Tension Test

Universal Hardness Measurement

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THANKS FOR YOUR ATTENTION

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