Strategic Business Units

Topbas Group®

INDUSTRIAL PRODUCTS
- CHAINS
- MACHINERY

AUTOMOTIVE
- FORGED STEEL PARTS
- MACHINED PARTS
- HEAT TREATMENTS
- LABORATORY

AFTER MARKET FOR AUTOMOTIVE INDUSTRY
- HEAVY COMMERCIAL VEHICLES

AUTOMOTIVE AND INDUSTRIAL
- NUTS, BOLT, FASTENERS AND SPECIAL COLD FORMING PARTS
Topbas Group Companies Started its Main Activities with Industrial Chains “Zimas Zincir AS” that was a First Chain Manufacturer in Turkey in 1976.

“ZT Automotive AS” has been established in 2012 for the After Market Business.

“ZCF Zimas Cold Forming” has been established in 2014 for the Mainly OEM and other Markets in 2014.

Topbas Group is improving its activities within the Automotive Industry by serving To Worldwide OEM Companies such as RENAULT, BMW, FIAT, ZF Germany ... with its experience since 1976.

IMPORTANT: This presentation has been prepared for only Company Introduction and it would not be copied or used partially without permission allowed by ZIMAS A.Ş.
ZCF ZIMAS COLD FORMING THE FASTENERS
MANUFACTURER COMPANY ESTABLISHMENT : 2015
1. ZCF ZIMAS COLD FORMING HAS BEEN IMPLEMENTED WITHIN THE BODY OF TOPBAŞ CORPORATE GROUP IN BURSA / TURKEY IN THE YEAR OF 2015

2. OUR COMPANY HAS BEEN ESTABLISHED ON A CLOSED AREA OF 6000 m² IN TOTAL.

3. IT HAS BEEN FURNISHED BY ISO TS 16949 AND ISO 14001 ENVIRONMENTAL CERTIFICATES.

4. WE WILL HAVE A TOTAL OF 40 EMPLOYEES IN 2015.

5. START OF PRODUCTION DATE : 4RD QUARTER OF 2015
ZCF  ZIMAS COLD FORMING  SOME SAMPLES

COLD FORGING SPECIAL PARTS,
BOLTS AND NUTS PRODUCTION

HEXAGON BOLTS

DIFFERENT NUTS

SPECIAL COLD FORMING PARTS

NON METALLIC NYLON INSERT

SPECIAL COLD FORMING PARTS

SPECIAL WELDING NUTS
SICAK DÖVME ÜRÜNLER

CONSTRUCTION BOLTS

CONSTRUCTION NUTS

CONSTRUCTION SPECIAL PARTS
HEXAGON BOLT

DIN 933 Hexagon Head Bolts (Full Threaded)
EN ISO 4017 Hexagon Head Bolts (Full Threaded)
DIN 931 Hexagon Head Bolts (Half Threaded)
DIN 4014 Hexagon Head Bolts (Half Threaded)
DIN 960 Hexagon Head Bolts (Fine Threaded)
DIN 961 Hexagon Head Bolts (Fine Threaded Up to Head)
DIN 6921 Hexagon Head Bolts (with Flange)
DIN 6914 Hexagon Head Bolts (High Strenght)
DIN 7990 Hexagon Head Bolts for Steel Structures
ZCF PRODUCTS

NUTS

- DIN 934 Hexagon Nuts
- DIN 555 Hexagon Head Nuts
- DIN EN ISO 4032 Hexagon Nuts
- DIN 6915 Hexagon High Strength Nut
- DIN 6923 Hexagon Nut with Flange
- DIN 928 Square Weld Nut
- DIN 929 Hexagon Weld Nut
- DIN 985 Hexagon Nylon Insert Nut
- DIN 936 Hexagon Thin Nut
- DIN 439 Hexagon Thin Nut

WHASHERS

SPECIAL PRODUCTION BOLTS
THE PREFERABLE PARTNER: ZCF FASTENERS

- AUTOMOTIVE
- WHITE GOODS
- MACHINERY
- HIGHWAY CONSTR.
- RAILWAY
- CONSTRUCTIONS
- ENERGY
- DEFENSE IND
- OTHERS
COLD FORGING SPECIAL PARTS, BOLTS AND NUTS PRODUCTION

- Ø 4mm – 33 mm Special Part Former Machines
- Bolt Former and Nut Former (12 PCS)
- Screw and Tapping Machines (12 PCS)
- Control Machines for nuts and bolts (2 pcs)
- Heat Treatments (QT Lines)

Capacity: 500,000,000 Pcs/Year

11,000 Tons/year
ACTIVITIES

MACHINING LINES

BOLTS AND NUTS MACHINES

NYLON INSERT MACHINES

BOLTS AND NUTS MACHINES

BOLTS AND NUTS TAPPING&THREAD ROLLING MACHINES
PROCESS

RAW MATERIAL CONDITIONING LINES

ANNEALING FURNACES

PHOSPAHTE UNITS

WIRE DRAWING
COLD FORGING LINES LINES

- Ø 4mm – 33 mm Special Part Former Machines
- Bolt Former and Nut Former (12 PCS)
- Bolt Formes mahcines capacity: Ø6x100mm...Ø19x180mm (M 6 --- M 18)
- Nut Former Capacity: Ø4x40 ... Ø33x90 (M6---- m24)
Screw and Tapping Machines Lines

- M6...M18 Bolt
- M4..M27 Nut
ZCF  ZIMAS COLD FORMING
HARDENING PROCESS

The Quench and Tempering Hardening
Continuous Furnace
HEAT TREATMENTS APPLICATIONS

HEAT TREATMENTS:

- Heat Treatments in Vacum Furnaces – Nitruration
- Heat Treatments in Fluidized Bed Furnaces – Nitruration
- Isothermal Annealing – Cementation
- Normalisation – Quenching and Tempering
- Induction Hardening
- Heat Treatments in Athmospheric Control Furnaces
- Heat Treatments in Rotate Panel Furnaces
### ACTIVITIES

**HOT FORGING BOLT AND NUTS: M20 ...... M150**

**HOT FORGING PRESS LINE: MAXI PRESS**

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<tr>
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ACTIVITIES

MACHINING LINES

- CNC Lathes ... 24 Pcs
- CNC Machining Centers... 11 Pcs
- Grindings
- Broaching
- Bolt and Nuts Machinery
- Plasma Cutting
- Stamping
- Wire Erosion
Linear Inspection Equipments
Thread Gauges
Hardness Measurement
Proof Test

Profile Projection
Surface Roughness Measurement
Microstructure Analysing
% Sorting Machines
ZCF ZIMAS COLD FORMING
INDOOR QUALITY TEST EQUIPMENTS

TECHNICAL LABORATORY SERVICES

- Spectral Analysis
- Micro Structure Analysis
- Grain Size Measure
- Structure Phase Analysis
- Decarburization
- Hardness Analysis
ZCF  ZIMAS COLD FORMING
INDOOR QUALITY TEST EQUIPMENTS

TECHNICAL LABORATORY SERVICES

• Tensile Strength Tests
• 3D Measurement
• Crack Control
• (Magnetic Particle)
• Eddyliner
PROSESLER LABORATUARY
“0” – “ZERO” PPM - OEM TARGET

ISO TS 16949

ISO 14001
Topçesan has been founded in Bursa / Turkey in the Year 1987 within the Body of Topbaş Group

Our Company has been established on a closed area of 29,000 m² in total.

It has ISO TS16949 and ISO 14001 Environmental Certificates

We have 230 Employees. (Group)

OUR ENDORSEMENT IN 2014 WAS € 12,000,000 (Group)
( OEM ... 7,300,000 €)

TOPCESAN is an Integrated Steel Forging Company which is managing all processes starting from Raw Material Supply, Chemical & Mechanical Analysis, Forging, Heat Treatment, Machining
| 01. Integrated Steel Forging |
| Contains Forging Workshop, Molding Room, Heat treatment, Special Machining Facilities. |

| 02. Forging Workshop: |
| - Hot Forging: 11 hot forging press lines ranging from 400 tons to 2,500 tons. |
| - Cold Forging: Cold Forging Presses. |

| 03. Forging Parts Weight: |
| 0.100 kg to 20 kg. |

| 04. Forging Capacity: |
| 24,000 tons. |

| 05. 100% crack check for the Automotive Industry. |

| 06. Main Parts: |
| Safety parts, transmission and suspension parts including wheel hubs, spindle carriers, motor fittings, tie rot ends, ball joints, gearshift parts, carrier pins and gear control handles. |
QUALITY CERTIFICATES

“0” – “ZERO” PPM - OEM TARGET

ISO TS 16949

ISO 14001
Strong Partnership with OEM - Milestones

- ZF LEMFORDER (Germany) - 1998
- Fiat - 1999
- BMW - Wheel Control - 2002
- ZF Sachs (Germany) - 2010
- BMW (Germany) - 2011
- RENAULT Rolls Royce More... - 2012
- ZF LEMFORDER (Germany) - 2013-2014

Other partnerships include:
- B. Vibracoustic
- SAF Holland
- Schmitz Cargobull
FORGED AND MACHINED PARTS
SAMPLES
FORGED AND MACHINED PARTS

OYAK RENAULT – TURKEY PLANT

Injector Clamp
Wheel Hubs (Front and Rear),
Gear Box Parts, Bushings etc.
SAMPLES
FORGED AND MACHINED PARTS

BMW - GERMANY

- Wheel Hubs (Rear) as Machined,
Wheel Hubs (Rear) as Machined
OUR MISSION

PROVIDING PREFERABLE QUALITY STARTING FROM ROW MATERIALS UP TO MACHINED READY PARTS IN THE AUTOMOTIVE AND INDUSTRIAL BUSINESS
THANK YOU FOR BEING OUR VALUED CUSTOMER AND PARTNER IN OUR GROWING BUSINESS
GÜÇLÜ İLETİŞİMİN ŞARTLARI

- İlişkilerin temelinde sevgi saygı vardır.
- İnsanların, olduklarından gili kabul etmeye şahım.
- Seçim hakkı tanımın, haksız ve zorlamalarından kaçının.
- Övgü ve onay beklentilerini unutturmayın.
- Özür dilemekten kaçmayın.
- yardımı edin ve yardım etmek için hırsız tanıyım.
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