



FERRO
DÖKÜM[®]

FERRO
CASTINGS[®]



About Us

Ferro Döküm having more than 50 years of experience and 80.000 tons annual capacity is a reliable and sustainable iron casting foundry and machining company located in Kocaeli / Türkiye.

We produce raw castings and complete them with value-added operations such as priming, machining, assembly, e-coating (KTL) and final painting for automotive, agriculture, hydraulics, railway, compressor, defense, scaffolding & formwork and other industrial sectors.

Ferro Döküm is Tier1 supplier to recognized heavy & light commercial vehicle and passenger car manufacturers. Ferro Döküm quality system complies with higher automotive standards and is awarded by the IATF 16949, ISO 9001, ISO 14001, ISO 45001, ISO 50001 and ISO 27001 certifications.

We produce cast parts between 0,3 kg to 185 Kg weight in our horizontal (HWS) and vertical (DISA) molding lines.

We cast various grades of nodular cast iron including high strength and elongation, Grey iron, ADI and SiMo materials.



Molding Lines

Ferro Döküm is using Green Sand Molding technology in 2 horizontal and 1 vertical automatic molding lines.

Horizontal Molding Lines:

Line1: HWS Automatic Molding line

Size: 700x900x250/250

Speed: 160 molds/hour

Line2: HWS Automatic Molding line

Size: 1000x1100x300/300

Speed: 60 molds/hour

Melting: 2x Dual Track induction furnaces, each having 16 tons batch capacity.

Vertical Molding Lines:

Line1: DISA Automatic Molding line

Size: 400x500x100/315

Speed: 300 molds/hour

Melting: 2x Dual Track induction furnaces, each having 4 tons batch capacity.

Materials

Nodular Cast Iron

EN-GJS-400-15, 400-18,
500-7, 600-3, 700-2

High Silicon Nodular Cast Iron

EN-GJS-450-18, 500-14,
600-10

ADI

EN-GJS-800-10, 900-8,
1050-6, 1200-3, 1400-1

Grey Cast Iron

EN-GJL-150, 200, 250, 300

SiMo

EN-GJS-SiMo40-6,
SiMo45-10

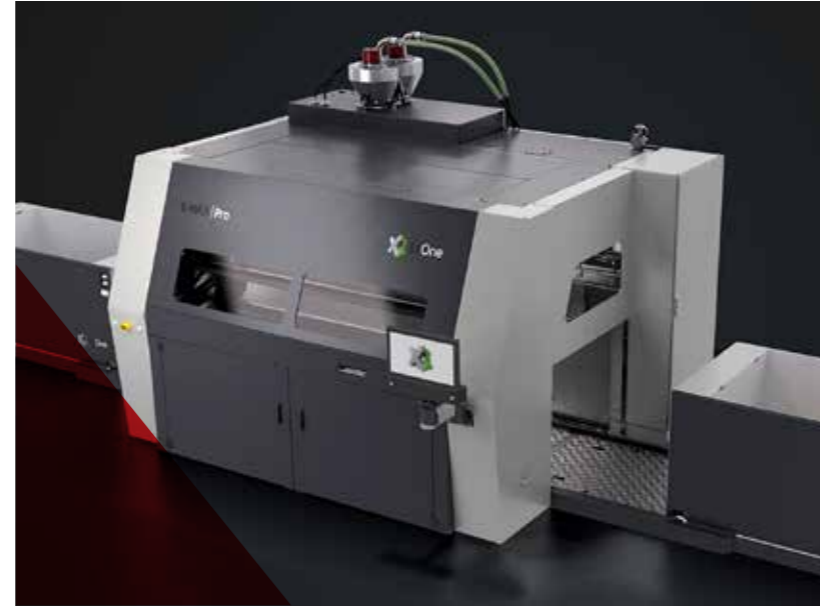
Core Shop



Ferro Döküm core shop is equipped with latest technology coldbox core machines to produce cores up to 50 kg.

3D CORE PRINTER

Job Box: 1800 x 1000 x 700 mm



Complex designed cores for serial production can be produce by our latest technology 3D Core Printer.

AUTOMATIC GRINDING MACHINES



We have 15 high-tech automatic grinding machines, robotic stations and trimming machines.

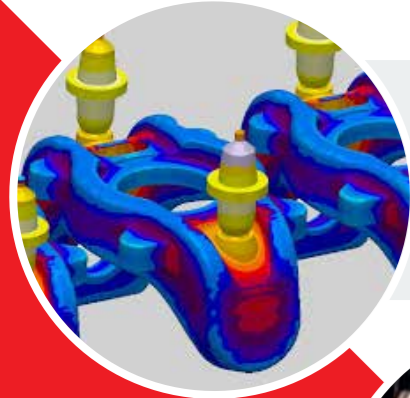
Deburring

All complex and heavy parts are grinded by automatic grinding machines and robotics stations.

ROBOTIC GRINDING STATIONS



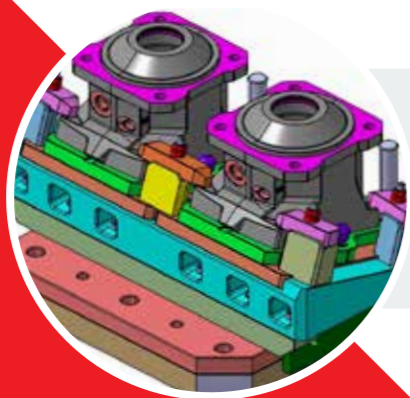
Design and Engineering



We perform Magma Casting simulations in order to secure casting success and speed-up the project timeline.



We design and manufacture patterns, core boxes and fixtures in our pattern shop.



We design and manufacture manual and hydraulic machining fixtures, position control tools and gauges in our tool shop.

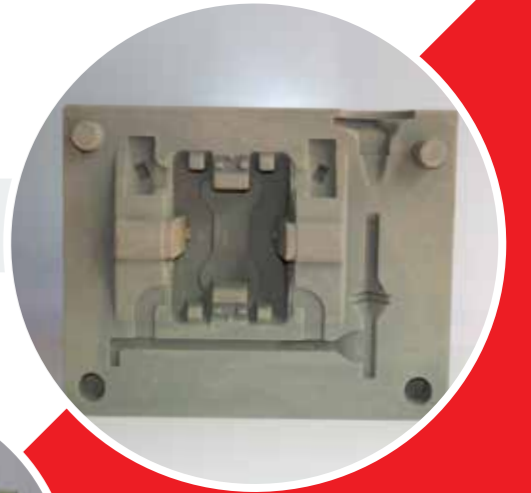


Co-Designer Support

Ferro Döküm Engineering Team offers an intensive Co-Designer support to ensure fast and reliable casting solutions and guarantee project success. We also provide prototyping solutions by our latest technology 3D Core Printer.



Prototype casting



One piece cores



Cores for hydraulic parts



Quality Management



Certificates

- TS EN ISO 9001:2015
- IATF 16949.2016
- TS EN ISO 14001:2015
- ISO/IEC 27001:2013
- ISO 50001:2018
- ISO 45001: 2018
- TS EN ISO 56002:2024



Casting Quality Control

All inhouse;

- Chemical analysis
- Microstructural control
- Mechanical strength test
- Charpy Impact test
- X-RAY radioscopy control
- Crack control (PT, MPI)
- Dimensional control by CMM
- Dimensional control by 3D Scanning



Machining Quality Control

Dimensional Control (CMM)

- Hexagon Global Performance
- Hexagon Global Performance
- Zeiss Prismo 9/15/7 Fortis

Surface Roughness

- SJ210
- SJ411
- SJ500
- Touch 50 (Accretech)

Contourgraph

- MAHR X 2 Contourgraph
- MAHR CD280 Contourgraph



ZEISS PRISMO 9/15/7 FORTIS

Products



- Axial housings
- Differential and steering boxes
- Gear boxes
- Flywheels
- Crank shafts
- Exhaust manifolds
- Brake discs
- Brake calipers
- Brake drums and shoes
- Wheel hubs
- Fifth Wheel Couplings
- Brackets
- Levers
- Hydraulic housings
- Pump housings
- Bearing housings

Machining and Surface Protection

We complete our castings with value-added operations such as machining, assembly, e-coating (KTL) and final painting.

Ferro Döküm Machining Facility having a wide range of CNC Milling and Turning machines offers high quality machined castings and ready to install assemblies directly to customer production lines.




Our References





FERRO CASTINGS®

Ferro Castings has been established in Chicago, Illinois to supply the United States, Canada and Mexico high quality castings produced in Türkiye.

Ferro Castings operates with its Sales Office, Warehouse and Logistic solutions to provide a reliable and flexible supply chain to our customers.

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