

**KUTES**  
**M E T A L**

**KUTES Metal**

**devoted to**

**perfection**



**KUTES Metal**

**produces nodular**

**and gray iron castings**

**with a 16 tons/hour**

**melting capacity across**

**its two moulding lines**



## Our Location

KUTES Metal is based in Corlu, Turkey. KUTES Metal benefits from Corlu's strategic location in northwest Turkey, which is approximately a two hour drive from both Istanbul and the nearest border to the European Union. KUTES Metal (est. 1992), which started production in 1993, launched its new finished machine parts unit, KUTES Makine in 2017. KUTES Metal celebrated its 25th anniversary in 2018 with the unveiling of a new state of the art production line.



## Our Investment Strategy

In addition to continued investments in its single moulding line production, a new horizontal moulding line was launched in 2018 effectively tripling the company's annual production capacity.

KUTES Metal also launched a finished machined parts unit, KUTES Makine, in 2017. KUTES Metal is committed to continuous investment in order to improve efficiency and maintain the highest quality standards, which remain core principles of the company. These principles have enabled KUTES to achieve quicker turnaround times/production targets while simultaneously expanding capacity through its systematic investment program.

## Our Way of Working

KUTES Metal produces with only the highest quality raw materials, utilizing the latest production technologies and a highly trained and experienced work force. We know that the impetus behind our wide range of high quality products is not only the vast importance we place on our investments in the latest technologies, but also the value given to the creative input of our talented personnel. KUTES Metal will continue to increase its competitive edge thanks to our accomplished team, 25 years of production experience and sustainable investment approach.

## Markets We Serve

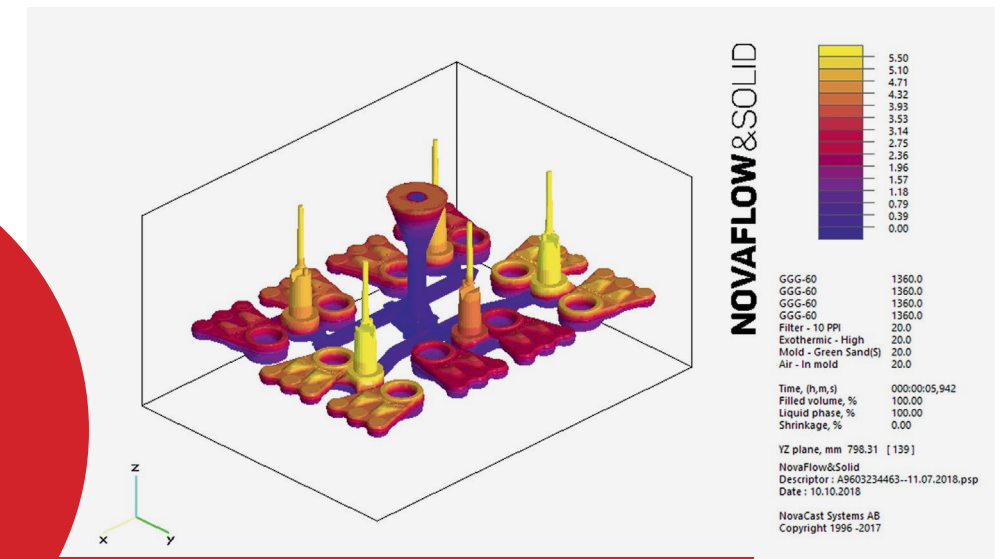
KUTES Metal primarily serves the markets for **Hydraulic Equipment, Industrial Pumps & Valves, Air Conditioning, Automotive, Agriculture, Construction, Railway and Industrial Machinery**. KUTES Metal stands ready to meet the nodular and gray iron casting needs of every market, and maintains global shipping capabilities to fulfil its customers' needs.

## Engineering Services

KUTES Metal, proficient in **Novacast, Solidworks** and **Siemens NX** software, offers alternative solutions in new product design through advanced computerized simulations. KUTES Metal actively collaborates with customers on product design, leveraging the company's talented and experienced team.

## Security of Supply

KUTES Metal builds sustainable operations through the responsible use of energy and natural resources. Parts casted and produced in KUTES Metal's plant are protected under KUTES Metal's product liability insurance. KUTES Metal, with its broad capabilities, meets its customers' needs through reliable production, timely delivery, and high quality end-product.





## Quality Assurance Certifications

**IATF 16949** 2016 - Automotive Quality Management Systems

**ISO 9001** 2015 - Quality Management Systems

**OHSAS TS 18001** 2007 - Occupational Health and Safety Management Systems

**14001** 2015 - Environmental Management Systems

**DEUTSCHE BAHN AG QUALIFICATION** (German Railways Approved Manufacturer)

**AD 2000 MERKBLATT WO / TRD 100** (Approved Manufacturer)

**PED 97/23/EC (PED)** (Quality Assurance System in accordance with the Pressure Equipment Directives)

**LLOYD'S REGISTER** (Approved Manufacturer for Casting in Gray and Spheroidal Iron)



## Environmentally Conscious

KUTES Metal utilizes a 600.000 m<sup>3</sup> dust collection system which has reduced gas emissions to 5 mg/m<sup>3</sup> meeting EU standards.



Sustainable  
quality  
assurance



## Foundry Plant Machinery / Equipment



### *Group 1 Moulding Line and Melting*

#### **Moulding**

Georg Fischer Impact Standard  
IM-S-1 automatic moulding line

Dimensions: 800 x 600 x  
250/250mm

Capacity: 120 moulds/hour,  
18 000 tons/year

#### **Melting**

4 Inductotherm induction furnaces  
with 4 tons capacity

#### **Casting System**

Inductotherm Visipour P3  
automatic tundish

#### **Sand Preparation System**

Georg Fischer

### *Group 2 Moulding Line and Melting*

#### **Moulding**

HWS Seiatu EFA-SD4,5  
moulding line

Dimensions: 900 x 700 x  
300/300mm

Capacity: 120 mould/hour,  
30 000 tons/year

#### **Melting**

4 Inductotherm induction  
furnaces with 5 tons capacity

#### **Casting System**

HWS automatic pouring  
system

#### **Sand Preparation System**

JÖST sand cooler

EIRICH sand mixer

VHV carrier systems

### *Core Shop*

Hottinger 25 L. vertical core machine

Hottinger 20 L. vertical core machine

3 Hottinger 12 L. horizontal core machine

DISA 40 L. core machine

### *Shotblasting*

Wheelabrator drum, continuous type cleaning machine

Georg Fischer drum, continuous type cleaning machine

2 Endum hang type cleaning machine

2 Endum cleaning machines

### *Grinding*

2 KOYAMA - P.S. Auto Grinding 400TTi

50 kg. capacity grinding machine.

2 KOYAMA - P.S. Auto Grinding 400i

20 kg. capacity grinding machine

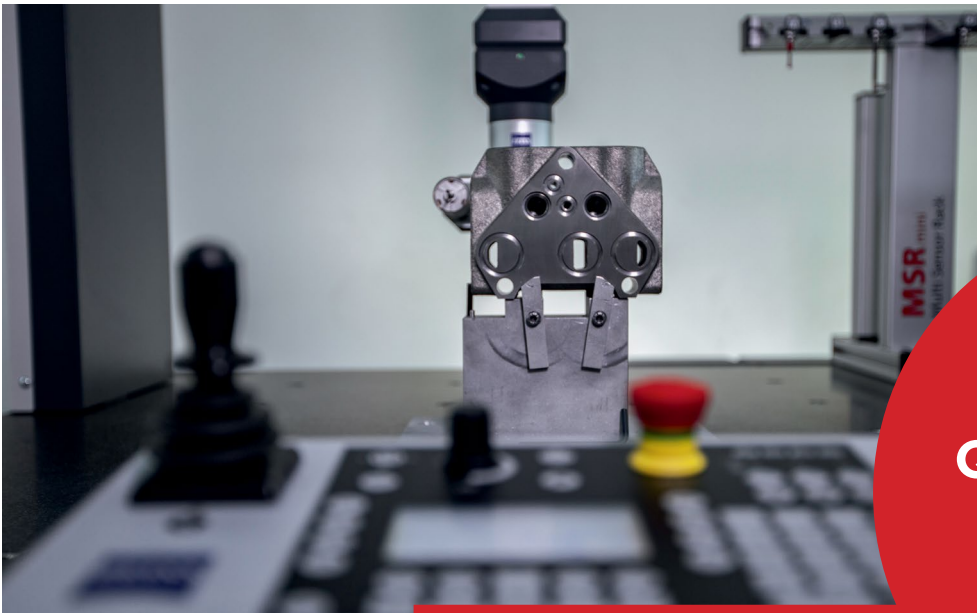
The challenging  
journey of cast iron  
to perfection



## Machining Plant Machinery / Equipment



2 DMG MORI NHX 5500 horizontal machining center  
2 DMG MORI NHX 6300 horizontal machining center  
DMG MORI NZX 2000 CNC horizontal turning machine  
2 DOOSAN PUMA V 8300 M MODEL CNC vertical turning machine  
DOOSAN DNM 5700 vertical machining center  
DOOSAN PUMA GT 2100 M C axis horizontal turning machine



## Quality Control Equipment

**ARL 4460** Spectrometer  
**OBLF** Spectrometer  
**EMCOTEST** Hardness Tester DuraVision 40, (5-750 HB)  
**ALŞA** Universal Tensile Strength Measurement Device  
**ALŞA** Notch Impact Tester  
**Georg Fischer** Sand Testing Equipment  
**COORD 3** 3D CMM  
**OLYMPUS & Nikon** Metallography Microscope MP3 ADL Eclipse MA100  
**NCS** Carbon Sulfur Analyzer  
**Zeiss** Prismo 3D CMM  
**Zeiss** Contura 3D CMM  
**Mahr** Surface Roughness Tester  
**DMG MORI** UNO 20/70 Tool Measuring Device  
**Tesa** Hite Magna 400 Gage