



## **OLTEANU IGNATOVICI SRL**

- **romanian company**
- **established in 1991**
- **fully privately owned**
- **authorised ISO 9001 since 2005**

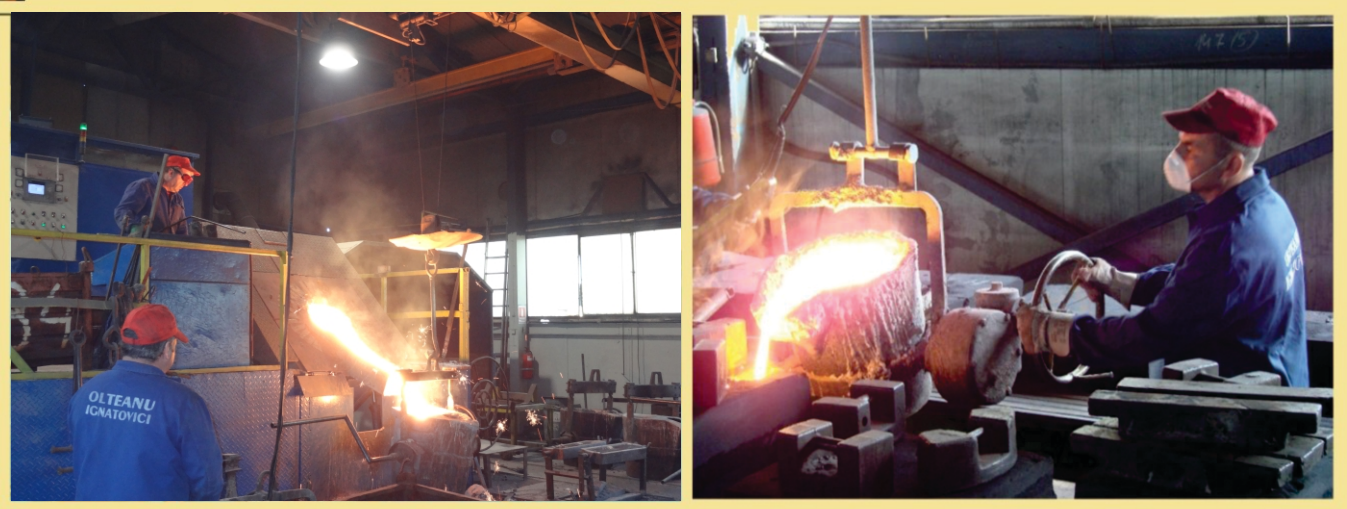


**Iron / steel castings & machining products for:**

- **electric generators and motors**
- **railway and gearboxes industries**
- **hidraulic equipment and pumps.**

# CURRENT CAPABILITIES OF THE FOUNDRY

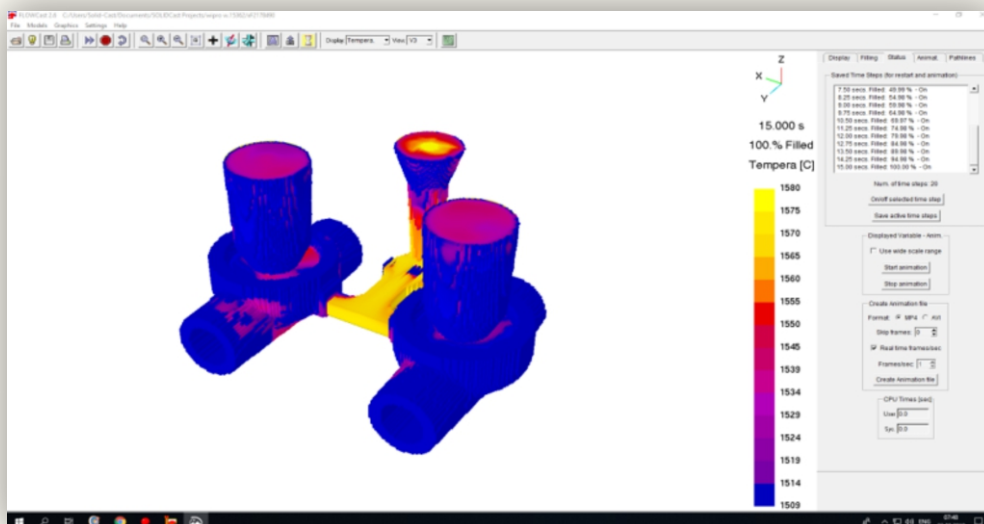
## 1. SMELTING FURNACES



- ⇒ capacity of 600 tones of castings / year
- ⇒ two induction furnaces of 0.5 tones each
- ⇒ elaborated materials :
  - gray iron and micro-alloyed iron
  - nodular iron (ferritic and perlitic)
  - low and medium alloyed steel

## 2. DESIGNING CASTING TECHNOLOGY (networks, feeders, raisers)

with simulation software **SOLID**  **CAST**



### 3. MOLDING - FURANIC BASED CHEMICAL HARDENING

**Gabaritic capacities of the castings:**

- diameter up to 1200mm
- weight up to 350kg



**Furanic based molding ensures a superior quality of the castings surfaces, and reclamation equipment of the molding mixture allows sand to be reused, providing a cleaner working environment. Transport lines for molding and the cranes assisted mould assembly line, together with the shakeout system with pneumatic transport of the sand to the reclamation tower are providing efficiency in our foundry production.**

**4. SHOTBLASTING CHAMBER STATIONS  
(rotating hook)  
- with metallic spherical shots**



**5. HEAT TREATMENTS  
(stress relieving, normalizing, etc.)  
- furnaces with capacity of  
1000 x 2000 x 700mm**

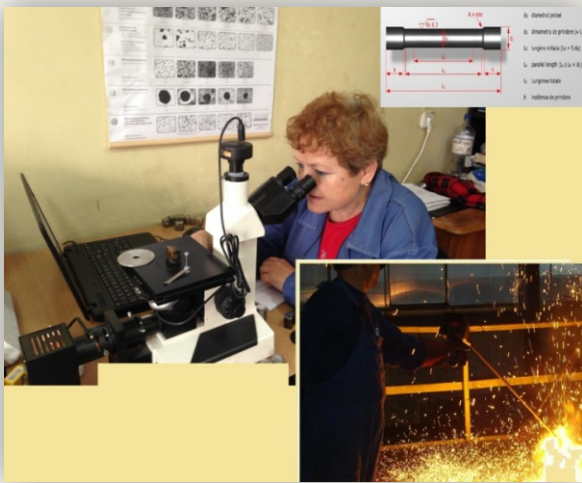


## 6. QUALITY AND TRACEABILITY

Foundry's laboratory determine and register for each casted batch the following parameters:

- chemical composition (spectral analysis);
- mechanical tests (tensile strength, charpy test, hardness);
- microscopic analysis of the metallographic structure;
- measuring melting and casting temperatures.

The laboratory is authorized be romanian ferviar authority



**hardness testings**

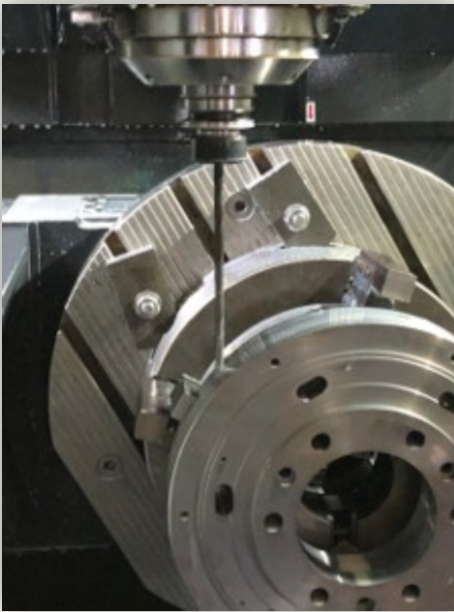


**tensile machine**



**Charpy hammer**

## CURRENT CAPABILITIES OF THE MACHINING DEPARTMENT



- ⇒ manufacturing finished products on CNC lathes and milling centers, out of castings or laminated semi-products;
- ⇒ technological preparation of the semi-products are carried out on universal machine tools;
- ⇒ other operations can also be performed:
  - flat and round grinding
  - MIG-MAG and WIG weldings

⇒ designing the machining technologies with CAD-CAM softwares



- ⇒ CNC steel cutting (plasma and oxy):
  - table dimensions 2500 X 6000 mm
  - cutting depth 200 mm for oxy
  - 40 mm for plasma



# LIST OF CNC MACHINERIES

**1 X 5 AXES MILLING CENTER - DOOSAN VC630 (X=1050; Y=550; Z=610; A=150°; C=360°)**

**3 X 3 AXES MILLING CENTER - HWACHEON VESTA 1050B (X=1050; Y=610; Z=610)**

**1 X 3 AXES MILLING CENTER - DOOSAN MYNX NM510 (X=1050; Y=550; Z=610)**

**1 X 3 AXES MILLING CENTER - SMEC MCV 6700 (X=2100; Y=670; Z=520)**

**1 X KEYSEATING MACHINE - MECO MEC-80 (Z=440; Y=800)**

**1 X HORIZONTAL MILLING AND BORING MACHINE - FERMAT WTF10 (X=1250; Y=1250; Z=1250; W=730)**

**1 X VERTICAL TURNING CENTER, WITH C AXIS - YOU JI YV-1000ATC-C ( $\varnothing_{max}$ =1250 L=850),**

**2 X VERTICAL TURNING CENTER, WITH C AXIS - HWACHEON VT-650 ( $\varnothing_{max}$ =850 L=750)**

**4 X HORIZONTAL LATHE - DOOSAN PUMA 400 ( $\varnothing_{max}$ =680; L=950)**

**1 X HORIZONTAL LATHE - DOOSAN PUMA 300 ( $\varnothing_{max}$ =415; L=584)**

**1 X HORIZONTAL LATHE - DOOSAN PUMA 240 ( $\varnothing_{max}$ =350; L=440)**





**electric generator shield**  
200 kg, material: EN-GJS-400-15



**turbine housing**  
380 kg, material: EN-GJL-200



**hidraulic cylinder head**  
15 kg, material: S355 J2



**locomotive bogie hubs**  
250 kg, material: GE300



**valve bodies**  
150 kg, material: G20Mn5+N



**electric motor housing**  
35 kg, material: EN-GJL-250



**Bearing bushings**  
45 kg, material: 34CrNiAl7-10

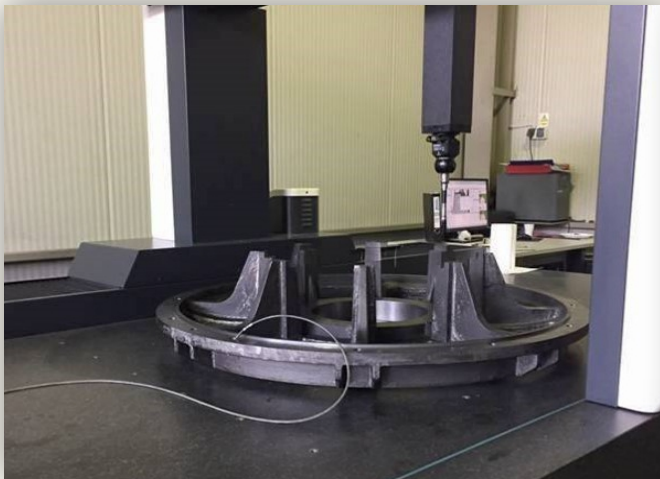


**Pump sleeve bodies**  
185 kg, material: EN-GJL-250





**Dimensional controls of the machined items are performed onto 3D coordinated measuring arms (dimensions up to 1500mm and complex geometric conditions), also with classical measurement devices (micrometers, gauges, dial indicators).**



**CMM automatic measuring equipment  
measurement range:  
1000 x 1600 x 800 mm**

## Horizontal milling and boring machine (BORWERK)

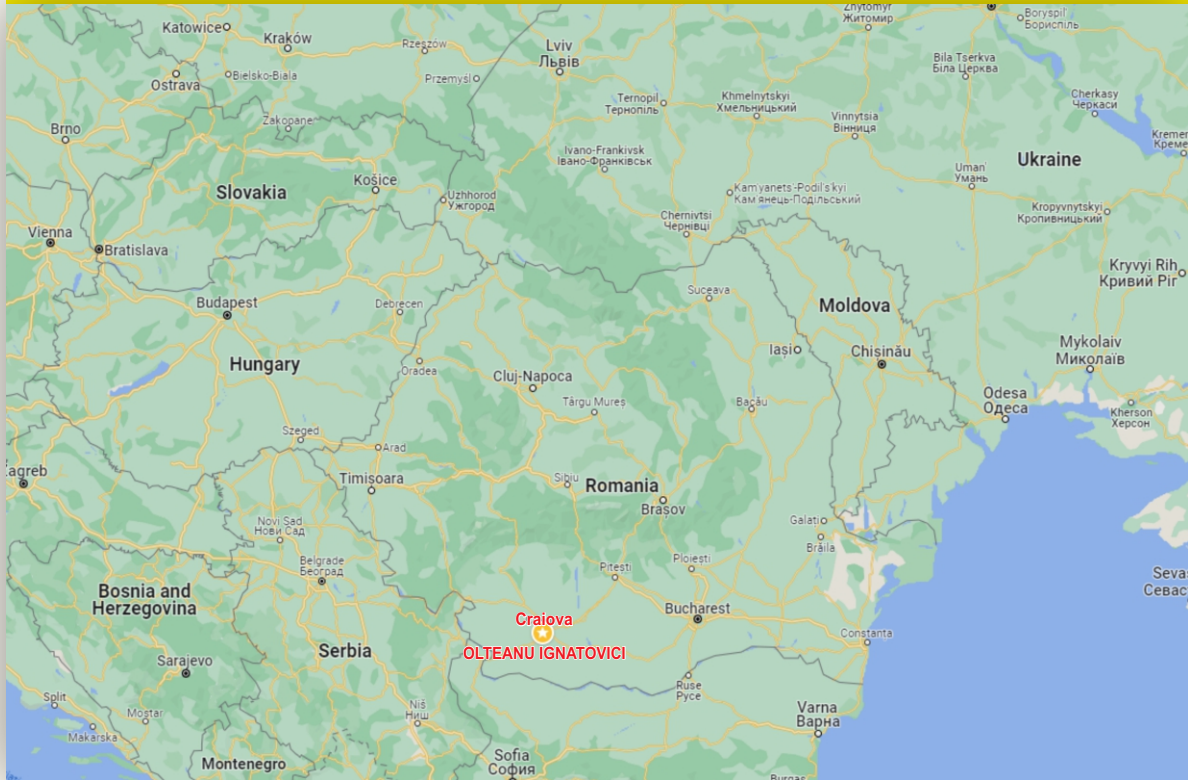
- table movement axis X 1250 mm
- headstock travel axis Y 1250 mm
- height travel axis Z 1250 mm
- spindle travel axis W 730 mm



## Vertical turning center (CARUSEL)

- milling and drilling possibilities (C axis)
- maximum diameter Ø1250mm





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