



### **Company Presentation**





**Our history** 

Company establishment, bell casting and beverage armature production

Bell casting termination

Al casting for engineering, textile industry and agriculture

Al casting into sand and inqots in series

Renovation of foundry production halls

Equipment of machine shop by CNC machines, extention of cast machining

Achievement of ISO 9001:2016

Achievement of ISO 14001:2016

Construction of new hall for ingot workplace, as well the warehouse for consumables stocking

Ownership change, production extention







**General information** 

- > Established in 1936 (Czech Republic)
- Member of Tarancia SE group (Switzerland)
- > Specialist in aluminium alloy castings
- ➤ 90 year experience over industries
  - > Marine
  - ➤ Engineering
  - ➤ Gas & Oil
  - ➤ Agriculture
  - > Energy
  - **≻**Others











### **About Tarancia SE**

- ➤ **Tarancia** has specialized in investment and asset management since 2012
- > Focus areas: energy, industry, real estate, and venture capital
- ➤ Provides **comprehensive services** from opportunity search to operations and accounting
- ➤ Goal: maximize return on investment and minimize risks
- ➤ Clients: companies in **industry**, **energy**, **construction**, **logistics**, **IT**, **healthcare**, **and tourism**





# **Overall products and services**

- ➤ Casting weight from 0,10 to 400 kg
- > Heat treatment
  - > T5, T6, T7
- Machining
  - > Milling
  - ➤ Grinding
  - ➤ Coating
  - ➤ Blasting
- ➤ MAGMASOFT casting simulation







Main aluminium alloys used

- ➤ EN AC 46200 --- AlSi8Cu3
- > EN AC 44200 --- AlSi12(a)
- ➤ EN AC 43000 --- AlSi10Mg
- ➤ EN AC 42000 --- AlSi7Mg
- ➤ EN AC 42100 --- AlSiMg0,3
- ➤ EN AC 42200 --- AlSiMg0,6

Other alloys upon request



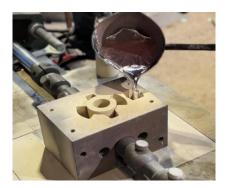
### **Casting capabilities**

#### Manual Moulding

- ➤ Minimum production run from 1 pc
- ➤ Maximum casting dimension 1 950 x
- 1 950 x 450 mm
- ➤ Maximum casting weight 400 kg

### > Machine Moulding

- ➤ Minimum production run from 20 pcs
- ➤ Maximum casting dimension 900 x 900 x 250 mm
- ➤ Maximum casting weight 30 kg







**Technology** 

- > Casting production to gravity dies and green sand
- ➤ Mold/die production, toolshop, 3D print
- > Exact measuring, 3D measuring arm Faro
- ➤ Modern CNC fleet
- ➤ MAGMASOFT casting simulation
- ➤ Quality control



### **Machine fleet**

- > CNC lathes operated by HAAS machines
- ➤ CNC milling center operated by HAAS and YCM

machines

- ➤ Horizontal broaching machine
- ➤ Vertical broaching machine
  - > JS 99 tolerance

Axis information for each machine to be provided





# 3D measuring arm FARO







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ED6175 - dil 1

Part number

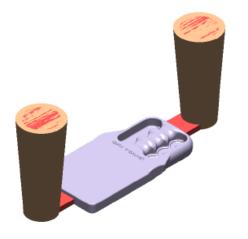
Drawing #: Serial #:

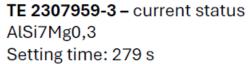
3D FARO Gage MAX Device:

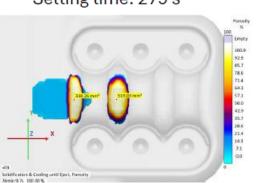


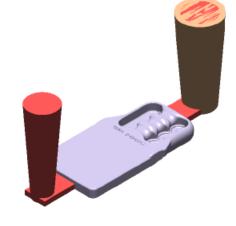
# **MAGMASOFT** casting simulation

- ➤ Porosity reduction
- > Setting time reduction

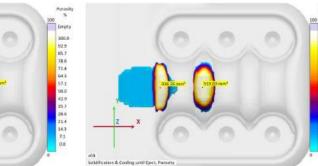








**TE 2307959-3 -** optimization AlSi7Mg0,3 Setting time: 266s



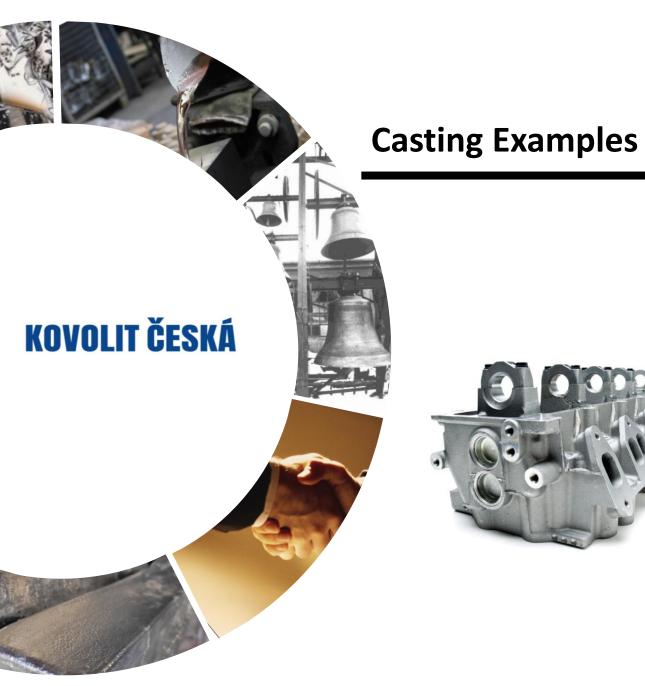


Quality

- > ISO 9001:2016
- ➤ ISO 140001:2016
- > RTG testing, visual testing, pressure testing
- ➤ Design and development support
- ➤ Process optimalization











References

- ➤ Škoda Electric
- > John Deere
- **≻** TE
- ➤ Honeywell
- > Siemens
- ➤ Baker Hughes
- ➤ Atlas Copco
- > Scania
- ➤ Volvo
- > Vestas
- ➤ Marine Jet Power
- > Ingersoll
- ➤ Sapelem
- ➤ Adast Systems
- > Lorunser
- ➤ Many others...



Thank you for your attention

