Zanardi Fonderie

Tailor-made castings for construction, mining and off-road industries

Precision and reliability for the construction, mining and off-road industries

Zanardi Fonderie: tailor-made cast iron castings for construction, mining and off-road vehicles

We are a foundry specialised in **medium production series from 1 kg to 120 kg** of raw and machined parts, in **spheroidal graphite iron (GJS)** and **austempered ductile iron (ADI)**.

We produce components for machinery and vehicles in the construction, mining, and off-road industrial sectors. In particular, we are specialized in manufacturing components for undercarriages, **crane axles**, **demolition hammers**, **hydraulic pumps** and **suspension system axles** for mining trucks and special vehicles.

Heat treatment for third parties

We also supply **austempering heat treatment of cast iron and steel for third parties**, **for components from 1 kg up to 1000 kg**. Investments in facilities and R&D on ADI machinability allow us to partner with foundries in the realisation of profitable co-design projects.

IATF 16949 | ISO 50001 | EMAS | ISO 14001 | ISO 45001

Examples of products supplied for the construction, mining and off-road industries

One partner from melting to machining

Zanardi Fonderie's production process takes place in our sole facility in Minerbe (Verona).

We work alongside our customers from the development stage to provide **machined, controlled and certified solutions** that meet the requested product requirements.

Our machining workshop features **two OKUMA 5-axis horizontal lathes (MU4000 and B550)**, providing the best-in-class solution for complex machining on the materials we produce.

Zanardi Fonderie integrated process

- Design and Co-design
- ADI - IDI - GJS melting
- ADI - IDI - AGI - AST austempering
- ERP SAP S/4HANA supply chain
- Machining
- Quality control laboratory
- R&D

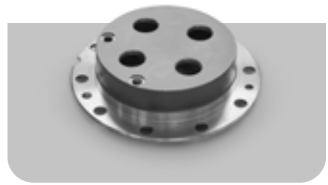
Castings controlled and certified in a first-class laboratory

Quality control takes place both along the entire production line and in the laboratory, accompanied by complete **material certification**. In our **in-house laboratory**, we carry out **mechanical tests, micrograph analyses, hardness checks and resilience tests** up to -40 °C.

Our laboratory certification can be accompanied by a **final testing service** on both non-machined and machined castings to check their dimensions, integrity and condition using X-ray, ultrasound and magnetic particle inspection.

Sharing the experience: the "Zanardi Academy" project

"Zanardi Academy" is **the digital platform hosting content of scientific and general interest** on the foundry processes that we have created in partnership with the **DTG (Department of Management and Engineering) of the University of Padova**.



High Quality Foundry Solutions

01. Over 90 years of experience
02. Integrated process
03. Co-design
04. Technical support
05. Mechanical performance improvement
06. Excellent fatigue strength
07. Wear resistance
08. Elimination of stressed zones
09. Greater production process flexibility
10. Lower Total Cost

Customer centricity

Zanardi Fonderie offers **advanced solutions for the production of spheroidal graphite, austempered and isothermal ductile iron castings, combining design, melting, heat treatment, machining and certification in one facility**. This approach allows us to ensure high quality, rapid delivery times and ready-to-assemble products.

Zanardi Fonderie's know-how and **ability to manage the entire supply chain** ensure customer-compliant products.

Zanardi
Fonderie

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Zanardi Austempering is a brand of Zanardi Fonderie S.p.A.