ZANARDI FONDERIE: tailored solutions for industrial spheroidal graphite and austempered ductile iron components

Zanardi
Fonderie

Almost a century of history focused on quality

In **Zanardi Fonderie S.p.A**. - an Italian family-based company, founded in 1931 and now at its fourth generation - we produce green sand **spheroidal graphite and austempered ductile iron (ADI) castings**.

Specialisation in IATF automotive certification

We invest in our workers' health and safety and manufacture **using sustainable energy sources**. Our certifications reflect the code of ethics that accompanies our daily work and the **recent IATF certification** testifies to the quality of our production process in the manufacture of automotive components.

Certifications

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

Heat treatment for third parties

Our castings, with an average unit weight ranging from 1 to 120 kg, are used in **applications in the automotive industry** in "on road" and "off road" transport, railways, energy, construction, mining and agriculture.

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**.

Automotive: on-road / off-road

One partner from melting to machining

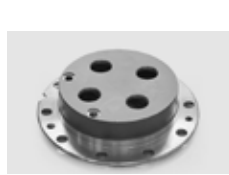
Zanardi Fonderie's production process takes place in our sole facility in Minerbe (Verona).

We work alongside our customers from the development stage to provide **machined, controlled and certified industrial solutions** to 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.

- 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

Automotive: on-road / off-road



Castings controlled and certified in a first-class laboratory

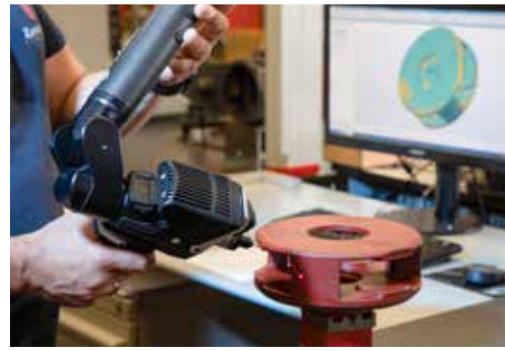
Quality control takes place both along the entire production line and in the laboratory, accompanied by complete **material certification**. In our **in-house laboratory**, we carry out **mechanical tests, micrograph analyses, hardness checks and resilience tests** up to -40 °C.

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 a web platform aimed at **sharing the culture of the foundry process**, and the resulting materials, with entrepreneurs, designers, R&D managers, lecturers, students and researchers working in the cast iron industry.

The platform hosts content of scientific and general interest that we have created in partnership with the **DTG (Department of Management and Engineering) of the University of Padova**.



Other sectors: railway / industrial / agricultural / energy / forestry

Benefits

01. One partner

02. Co-design

03. Optimised supply chain

04. IATF automotive certification

05. Over 90 years of experience

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.

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Contacts

sales@zanardifonderie.com

zanardifonderie.com

Zanardi Fonderie S.p.A. 37046 Minerbe (VR), ITALY

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