Zanardi
Fonderie

High-performance cast iron components for agricultural and forestry applications

Reliability and flexibility for the agricultural and forestry sector

Almost a century of history focused on quality

At **Zanardi Fonderie S.p.A.** - an Italian family-owned company **founded in 1931** and now in its fourth generation - we produce castings in **spheroidal graphite iron, austempered spheroidal graphite iron (ADI) and isothermed ductile iron (IDI)** formed in green sand. The line is mainly suitable for medium production series for castings ranging **from 1 kg to 120 kg**. The automatic moulding line measures **900 x 710 x (250 + 350) mm**.

Certifications

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

High-performance components for the agricultural sector: performance, reliability and optimized design

We are specialized in the production of components in **spheroidal graphite cast iron (GJS) and austempered ductile iron (ADI)** for the agricultural, forestry, off-road vehicle, and industrial machinery sectors, designed to guarantee **mechanical strength, reliability, and durability**, even in harsh conditions.

We produce castings for **hydraulic motors, combine harvester and tractor axles, transmission and coupling systems, undercarriages, lifting devices and tree-pruning heads**.

Thanks to the use of technologically advanced materials such as GJS and ADI, we offer **cost-effective** solutions that combine **high mechanical performance**, operational safety, and reliability, meeting the most complex needs of the agricultural, forestry, and off-road sectors.

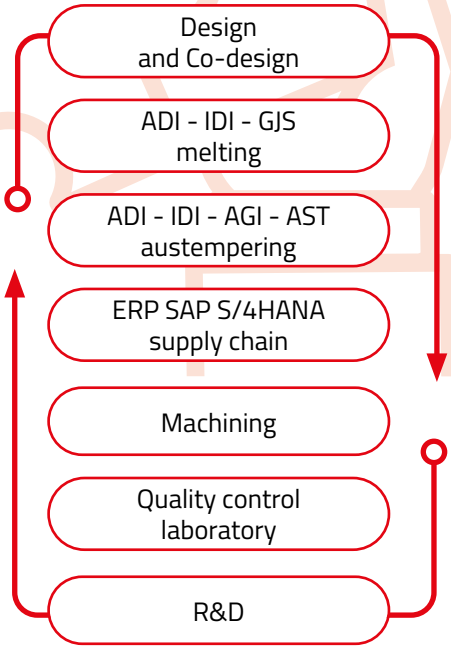
One partner from melting to machining

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 OKUMA5-axis horizontal lathes (MU4000 andB550)**, providing the best-in-class solution for complex machining on the materials we produce.

Specialists in **austempering heat treatment**, including **for third parties**.



Technological conversion story: from welded steel to ADI1050-6

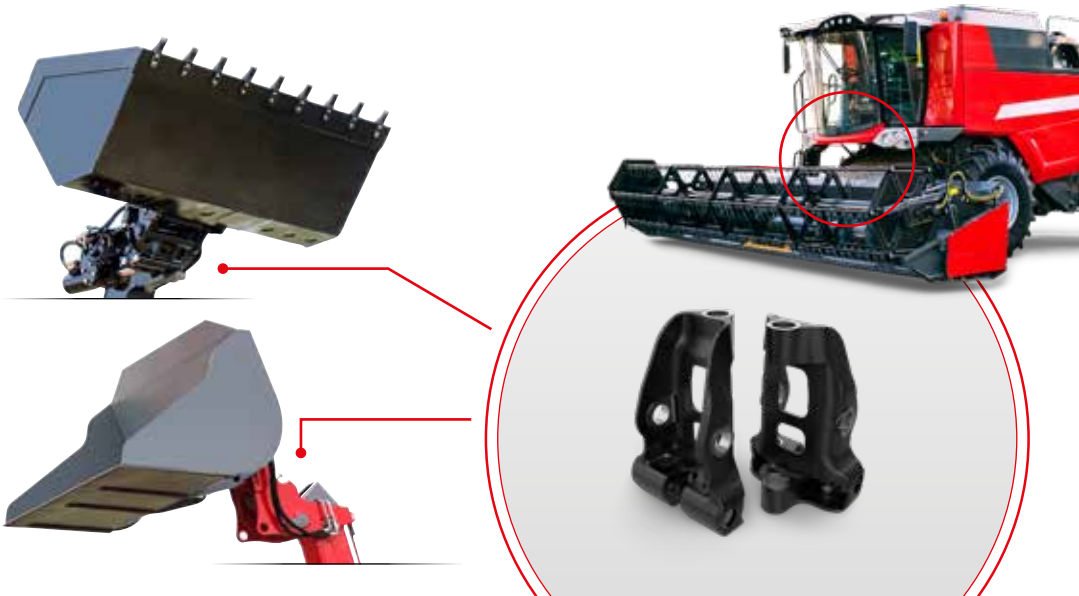
Originally made of S355J2 welded steel, the **attachment frame**, used in earthmoving, agricultural and forestry machinery, has been redesigned and converted to **austempered ductile iron ADI1050-6**, resulting in a **monolithic piece** that offers better performance and advantages in several respec

Scan the QR code to find out more!

Benefits of the conversion:

- **Greater design flexibility** and net to shape design;
- **Elimination of weld seam**s, leading to increased structural strength and fewer critical points;
- **Simplified production process**, with shorter lead times and reduced total cost;
- **Superior mechanical performance**, with higher load capacity and improved fatigue resistance;
- **Reduced wear in coupling areas**, thanks to the surface hardness of ADI.

This case highlights how co-design and the use of advanced materials like ADI can enhance the efficiency, sustainability and competitiveness of components designed for demanding environments and dynamic applications.



Reliability and flexibility

agricultural and forestry sector

01. Durability and reliability even in the most complex applications

02. Reduced production and operating costs

03. Optimized design to reduce waste and speed up production times

04. Alternative to welded and forged steel

05. Design flexibility

Customer centricity

Zanardi Fonderie offers **advanced solutions for the production of spheroidal graphite, austempered and isothermed 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.