

Who we are

Zanardi Fonderie is an Italian foundry specialised in the production of **spheroidal graphite iron (GJS), austempered ductile iron (ADI) and isothermal ductile iron (IDI)**. From the design of the component to the delivery of the finished product, we offer clients **a single point of contact** for the supply of treated, machined, tested and certified cast iron castings. This is possible thanks to **a solid and controlled integrated process**, which takes place in our comprehensive production plant in Minerbe (Verona). The austempering heat treatment, that we manage internally, is one of our key strengths for 30 years.

Materials we realize

GJS - Spheroidal Graphite Iron

We manufacture all grades of spheroidal graphite iron according to international standards (ISO 1083, EN 1563, FIAT 52215, ASTM A536), including ferritic ductile iron with guaranteed resistance at low temperatures (in grades EN-GJS-400-18LT and GGG40.3) and also the new grades of solid-solution strengthened ferritic ductile iron, also known as high silicon ductile iron.

ADI - Austempered Ductile Iron

Austempered ductile iron (ADI) is highly requested as an **alternative to melted, welded and forged steel** since it offers **fatigue strength, wear resistance, toughness, lightness, ample freedom of design of parts and good machinability**. We are able to produce all grades of austempered ductile iron (ADI) according to international standards EN 1564, ISO 17804 and ASTM A897.

IDI - Isothermal Ductile Iron

Isothermal ductile iron (IDI) is obtained by heat treating ferritic spheroidal graphite iron (GJS400) **without the addition of costly alloying elements**. Mechanical properties are **between ADI800 and GSI800**. IDI is an extremely valid solution for the manufacture of very thick parts and/or as the thickness varies, even in the presence of low temperatures.

Contacts

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Examples of applications for railway sector

Bearing carrier



Rocker arm support



Plate



Housing and cover



Solutions we propose

Foundry

Thanks to 3 electric furnaces, each with a 28t capacity, and **automatic moulding line measuring 900 x 710 x (250 + 350) mm**, we produce cast parts using the green sand moulding process. Castings, mainly for small and **medium production series**, are from **1 kg to 120 kg**.

Supply Chain Management

We aim to be a single point of contact for our clients, from **melting to burr removal services, heat treatments, mechanical processing, coating, quality control and certification**, in order to offer a complete range of products and services.

Austempering

We perform **heat treatments on cast parts in spheroidal graphite iron in a dedicated internal division** equipped with hi-tech furnaces to obtain ADI and IDI, ideal for the manufacture of lightweight and high-performing mechanical parts.

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