

## Who we are

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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

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### 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 on-road transport sector

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Suspension arm



Steering knuckle



Suspension support



Crankshaft



## Solutions we propose

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### 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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