



YOUR ADDED VALUE

CASTINGS UP TO 750KG

Horizontal molding line	1400x1600x900	35 molds.hour
Vertical molding line	950x700x600	200 molds.hour



YOUR INDUSTRIAL PARTNER

INDUSTRIAL CAST IRON FOUNDRY PRODUCTION OF GREY AND DUCTILE IRON, FROM 5KG TO 750KG.

The foundry has an annual melting capacity of 30 000 tons.

Fonderie de Niederbronn employs 200 people for a sales turnover between 25M€ and 30M€.

It has been an advanced foundry for more than 300 years. Thanks to recent key investments made on site, and thanks to a skilled workforce, Fonderie de Niederbronn counts today among the most efficient foundries of iron castings in Europe.

Fonderie de Niederbronn is well established in the North-East of France and serves customers throughout Europe.



RECENT FACTS

- 1769 :** First building of De Dietrich Foundry in Niederbronn.
- 2010 :** Mr. Hugh AIKEN acquires the foundry of BDR Thermea Group.
- 2012 :** Major investments in production. New mechanized horizontal molding line big capacity.
- 2013 :** Diversification of the production. First castings made of ductile iron.
- 2014 :** Investments in the Quality department. Certifications for non-destructive testing.
- 2015 :** International business development.
- 2016 :** First major and international contract on the renewable energies market.



TECHNICAL SUPPORT

- ▶ Exchange data with AEGIS (IGES), STEP, PARASOLID files
- ▶ Study of competitive solutions for 3D-prototyping
- ▶ Proposal for economic and functional alternative to welded parts

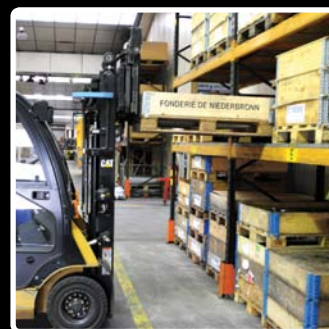
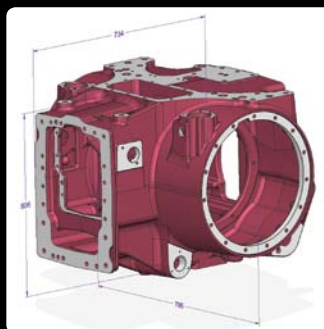
Industrialization and modelling

Before finalizing the drawings for foundry toolings, parts and feeding systems are optimized with our foundry simulation software.

Production Planning and Logistics

We contribute to the quality of our partnership by optimizing logistics flows, with our team composed of:

- ▶ Planning Managers
- ▶ Logistics Manager
- ▶ Outsourcing Manager
- ▶ Sales Administration



QUALITY CONTROL

Quality is the heart of our industrial process for customer satisfaction, according to ISO 9001 v.2008 and ASME code IV standards, with the help of :

- ▶ Quality plans
- ▶ Continuous measurement of the casting temperature and chemical composition of the casting
- ▶ Daily mechanical tests of traction, ductility, pressure, destructive testing
- ▶ Analyses of molding sand and raw materials in our laboratory
- ▶ 3D-measuring with high precision equipment like Faro arm, 3D scanner, 2000x1200x1000mm measuring machine.

Our skilled technicians are qualified for non-destructive testing like magnetic, liquid penetrant, ultrasonic and radioscropy.

Environmental responsibility: Fonderie De Niederbronn is in conformity with the environmental regulations and norms.



PRODUCTION EQUIPMENT

PATTERN MAKER WORKSHOP : We are equipped with high speed tooling machines for the machining of your patterns and core boxes.

MELTING :

- ▶ 14 tons hour continuous grey iron melting in a hot blast cupola
- ▶ 16 tons induction furnace for different melting
- ▶ 40 tons holding furnace.

MOLDING :

2 mechanized molding lines are installed at the foundry for the production of a large range of iron castings.

Disamatic 270 : automatic vertical molding line with an average productivity of 200 molds per hour for production of casting dimensions up to 780x550x550mm, max. 50kg each.

HWS : This automatic horizontal molding line is equipped with 1400x1600mm molding frames. Two different heights 2x350mm and 2x450mm will adapt the sand volume to the dimensions of your pieces. This line produces 30 to 40 molds per hour. The installation is sized for castings up to 1350 x 1150 x 700mm, pieces up to 750kg.

Core making process : cold box, up to 100 liters.

MACHINING, FINISH AND ASSEMBLY :

- ▶ Shot-blasting in Disamatic flow or in special cabin
- ▶ Grinding in Disamatic flow or in robotic cell
- ▶ 2 Johnford machining centers
- ▶ 1 Mazak machining center
- ▶ Painting line : coating or finishing
- ▶ Dedicated assembly and packaging lines



INDUSTRIAL USE



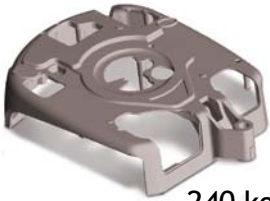
198 kg



AGRICULTURAL MACHINERY

Massive and infiltrated parts.
Ductile and grey cast iron.

Housings, bearing



240 kg



CONSTRUCTION MACHINERY

Ductile cast iron, in accordance with specific requirements of the construction industry (strength, size,...).

Rotating frame, counterweight



108 kg



TOOLING MACHINES

Optimized casting solutions in place of welded parts.

Flexible production, short or big series.

Frames, tables, connection parts



125 kg



HYDRAULIC PARTS

Mastery in the thickness of ribs and inside walls.

Watertight and airtight parts.

Vacuum pump body, compressor



53 kg



RAILWAYS EQUIPMENT

Thanks to its developed skills and certifications, the foundry is a reliable partner for the railways sector requests.

Ground support equipment (signaling and track equipment) and rolling equipment, brakes.

**NEW
OFFER !**



ENERGY

Large-scale parts with strong mechanical requests.

Co-development partnerships for innovative solutions.

Projects guarantees.



36 kg



BOILER BODIES AND HEATERS

High infiltrated parts.
Overmoulding technics.
Fine and constant thickness.
Hydrostatic pressure tests.
Assembling.

Watertight boiler sections



130 kg



STOVES AND FIREPLACES

Free choice design.
Assembling of finished or semi-finished products.

Stoves, fireplaces



102 kg



OUTDOOR FURNITURE

Strength and durability of the materials.
Large dimensioning up to 1800mm.

Pole, crossbars, fittings



4 kg



COOKWARE

Alimentary use and high quality enameling.
Flexible logistics adapted to the demand elasticity.

Grill, plancha, griddles, woks



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