



CRUZ MARTINS & WAHL, LDA.

Fundição de Aços e Ferros Ligados

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4760-648 LOUSADO **PORTUGAL**

Cruz Martins & Wahl, Lda (CMW) is a foundry company founded in 1981, located in Lousado, Vila Nova de Famalicão, about 30 km northeast of the city of Porto, Portugal. Since 2000 we own, also, a foundry in Abrantes, the MDF Tramagal.

CMW is a Portuguese and German capital shared company, in equal amounts, with the German partner being the Vautid GmbH company, with headquarters in Stuttgart.

CMW has specialized in the production of castings that are components of machines suffering a hard wear in work by effects of abrasion and/or corrosion, using, for that, special materials, such as high alloy white irons, stainless and heat resistant steels, as well as carbon steel and gray or nodular irons.

With an installed production capacity of 7500 tons per year we are leaders in the markets where we are present, namely for the industries of, cement, mining, quarrying, biomass, recycling, ceramics, machine tools, power plants, automotive, petrochemical, etc.

In the factory of Lousado we have 2 production units, CMW1 and CMW2, where we can produce parts of ferrous alloys, all kinds of steel and iron, between 1 Kg and 3000 Kg with the following production facilities:

- 8 electric induction melting furnaces with capacities ranging from 850 Kg up to 4000 Kg
- 2 automatic moulding systems, one Georg Fischer for green sand and a IMF for resin bonded sand
- 1 line manual moulding process.
- 3 heat treatment furnaces, operating on natural gas, with capacities of about 10 tons each
- Means of quenching as fans for forced air, water tank and polymer tank

In the MDF Tramagal plant, which is especially prepared to produce large parts, about 15 tons a piece, we have the following production facilities:

- 1 electric arc melting furnace of 6 tons capacity
 - 2 electric induction melting furnaces of 6 tons capacity each
 - 2 sets of semi-automatic moulding systems, resin bonded sand, of which one of them has platforms for moulds up to 4 x 2 meters
 - 1 manual moulding process for large parts
 - 1 heat treatment furnace, natural gas fired, for up to 20 tonnes
 - 1 heat treatment furnace for natural gas with a capacity of 4 tons
 - Means of quenching as fans for forced air, water tank and polymer tank
- Horizontal and vertical shot blast machines for parts up to 5 x 5 meters
- Machining shop

In each one of our plants we have a pattern shop and quality control laboratories.

The entire manufacturing process is guaranteed by the Quality System Certification according to EN ISO 9001 along with other certifications i.e. AD Merkblatt W0 TRD100, EN 10213-4 and PED 97/23/EC.

Lousado, January 2010

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