

FONDERIE OFFICINE MECCANICHE **S.AGOSTINO SPA**

S. AGOSTINO S.p.A is a private company leader in the field of rolls and rings for steel and non-ferrous industries since 1956.

The gained experience enables us to obtain and assure the most efficient and top quality rolls for rolling mills.

Our **manufacturing range** is the following:

- rolls for reinforced concrete round and wire rod mills (open and continuous design)
- rolls for section and bar mills (open and continuous design)
- rolls for billet, medium-size and large section mills
- rolls for flats in the line stands and continuous mills
- rollers for straighteners and pinch-rolls
- rolls for roll mills for piping
- rolls for calanders and mixing mills (rubber, resin, plastic, PVC, paint, soap, paper)
- shells for brick-kiln machines
- pistons

Our **production range** is :

- indefinite chill cast iron rolls/series AS
- clear chill cast iron rolls/series T.N.B.
- spheroidal graphite cast iron rolls/series ARMO
- spheroidal graphite cast iron rolls with acicular structure/series ARMOD-A and AFS
- alloyed hypereutectoid steel base rolls/series IPE
- graphitic steel base rolls/series GSB
- high chromium rolls HCr

Thanks to the competitiveness of our product, the sales network is expanding on the national and international market. Among our clients we count both the major steel producers and constructors of rolling mills for steel, rubber, plastic and brick-kiln-machines. Currently, more than 70% of our production is exported all over the World in the most important markets.

Our **Service Department**, available before and after sales, assures all the technical support which is necessary for the selection and best usage of rolls. It also focuses on the analysis and development of research topics intended to meet the growing and innovative requirements of rolling mills.

The Quality Certification obtained in 1994 (**UNI EN ISO 9001:2008** and the latest **UNI EN ISO 9001:2015**), along with the experience acquired over the years, assure the absolute constant quality of the product.

S.Agostino **Foundry** was the first in Italy to install electric induction furnaces designed to produce rolls. In particular, there are 3 electric induction melting furnaces for liquid preparation of 6 and 15 tons and gas furnaces for heat treatments: all furnaces are automatically controlled by PLC.

Only top quality raw materials are selected and used to feed melting furnaces.

We also use mechanized systems for the preparation of sands and automatic machines for flask moulding.

A modern system of spheroidization using cored wire, was the first of its kind to be used in the manufacture of rolling mills rolls. This system guarantees, thanks to computerized management, the maximum process accuracy as well as a constant high quality, with zero impact on the environment.

In support of fusion and casting, a sophisticated thermal analysis system, managed by plc, ensures optimal metallurgical structure of the various qualities of cast iron produced by S. Agostino.

The foundry productive capacity amounts to 8.000 as cast tons a year. It casts rolls weighing up to 15 Tons.

During the melting cycle process controls take place to verify the quality of the cast iron produced.

We have 2 **Mechanical Workshops** both provided with numerical control lathes, boring and grinding machines as well as knurling machines for rebar and perforating machines for central and peripheral holes which can supply Customers with rolls ready for use.

The productive capacity of roll shops is 5000 tons a year and is based on equipment which can produce rolls with a maximum diameter of 1400 mm.

Non destructive tests are carried out on each type of roll during the production cycle.

The **laboratory** has a spectrometer which enables real-time chemical analysis on the specimens taken during the preparation of the liquid in melting furnaces as well as on the samples taken from rolls for production control.

The spectrophotometer is used for special analysis and for characterization of ferroalloys; moulding sands are controlled by adequate devices.

Metallographic tests are carried out on produced materials by means of an optical microscope which can verify the conformity of structures.

The **final inspection** includes: dimensional controls, hardness, ultrasonic test, roughness, and any other control required by the Customer.

The roll number assigned at the beginning of the production cycle is now stamped on the roll so as to identify the product speedily and correctly.