

PRESS RELEASE

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New Tenova Walking Beam Furnace for Slabs at Cosipa (USIMINAS GROUP)

Genoa, February 2008. COSIPA and Tenova LOI Italimpianti, signed in the last December a contract for a New Walking Beam Furnace for Slabs to be installed in the new mill of the COSIPA Plant in Cubatão, Brazil.

The walking beam furnace, having a production of 400/440 t/h, has been designed accordingly to the last innovation concepts of LOI Italimpianti in the field of high production reheating furnaces.

The innovative criterion consists in the optimization of the furnace profile to get the best application of the FlexyTech technology, this latter representing a new developed platform in terms of quality of the reheating and protection of the environment.

Main features of this new technology:

- The flameless burners assure a lesser flame temperature, by delaying the mixture fuel-air combustion, giving a reheating process with a best transfer uniformity heating .in the slab. The special burners design ensures also a very low NOx emission.
- The installation of lateral/frontals and roof burners permits the input of the heating where required and distributes it according to the position and dimension of the charge inside the furnace.
- The frontal burners by the overlapping of the on-off sequential and the modulation controls allow the heat input in the soaking zones, (this distribution being different burner to burner), in combination with the appropriate special design of the riders allow to minimize the cold spots created in the heating zones
- Level 2 by FlexyTech mathematical model for off-line simulation and on-line control optimization of the furnace

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