DRI PLANT EXPANSION

Equipamientos KÜTTNER, S.A

Introduction

In october, 1996, were ended the works for the construction of the first Mill to produce hot steel coil installed in Europe. This productive unit of the company ArcelorMittal Sestao incorporates the CSO technology (Compact Strip Production) of the company Schlöeman Siemag and control and automation systems supplied by Ingeteam Power Technology, S.A. Industrial Systems Division.

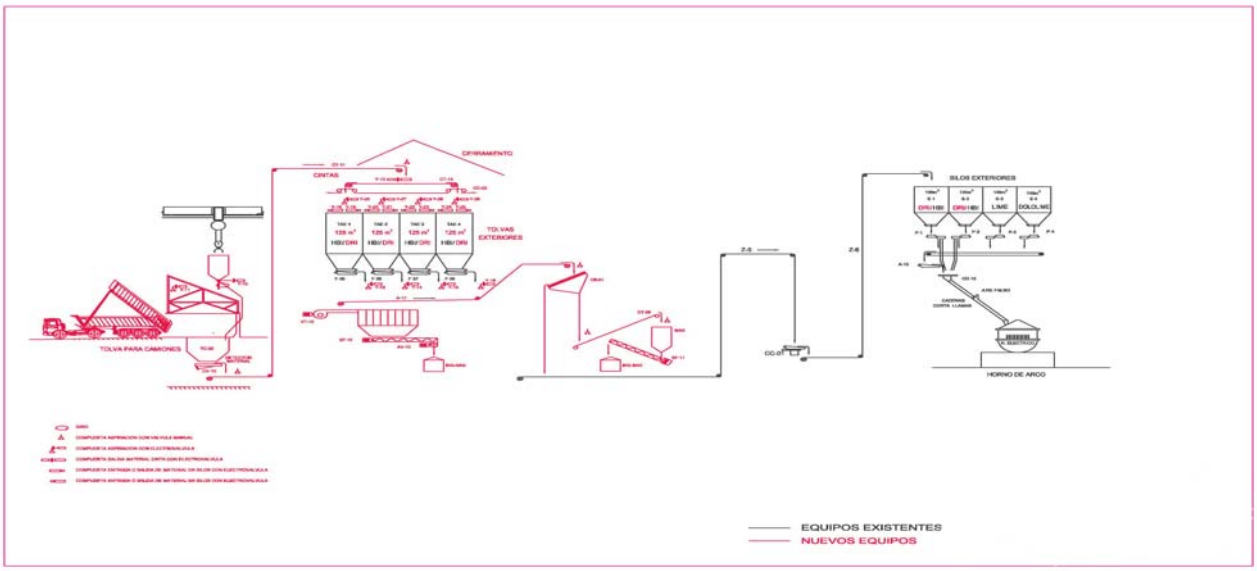
During the 2010, ArcelorMittal Sestao awarded and electrical-mechanical order to Küttner for the load expansion of the DRI (Ferric Prereduced). Küttner awarded the order corresponding to the electrical supply to Ingeteam Power Technology, S.A. Industrial Systems Division, for the new load of DRI.

With the present plant expansion ArcelorMittal Sestao intends to use DRI as raw material jointly with scrap. The prereduced -DRI- is an iron ore that has been submited to a heating process and its use allows the following advantages:

- Obtain higher quality steels which have been prodeced from scrap.
- Reduction of C and N content in the melt of the electric furnace.
- Improves the added value of the final product.

The scope of supply, engineering documentation, electrical installation and comissioning related with the new load it was made at the end of 2010.

Process Diagram



Scope of Supply

Ingeteam Power Technology, S.A. Industrial Systems Division is responsible of the following supplies and services:

- Project management.
- Basic and Detail engineering.
- Scope of the following equipments:
    * New AC MCC for the new additive supply.
    * Modifications in the existing additive AC MCC.
    * Local control panels.
    * New additinal hardware for the existing PLC (Sisteam M).
- Modifications in the existing PLC software to include the new additive supplies.
- Modifications in the existing HMI software.
- Electrical erection.
- Electrical erection supervision.
- Commissioning.

Control Diagram