

CASE STUDY

Novolipetsk Steel (Russia)



In the middle of 2014, Novolipetsk Steel awarded one contract to Ingeteam Power Technology, S.A., to undertake the electrical revamping (strip transport equipment and control / visualization system's) of the Hot Dip Galvanizing Line N°1 (Russia). CMI (Belgium) has been awarded as mechanical supplier for the revamping of the line.

Main technical characteristics:

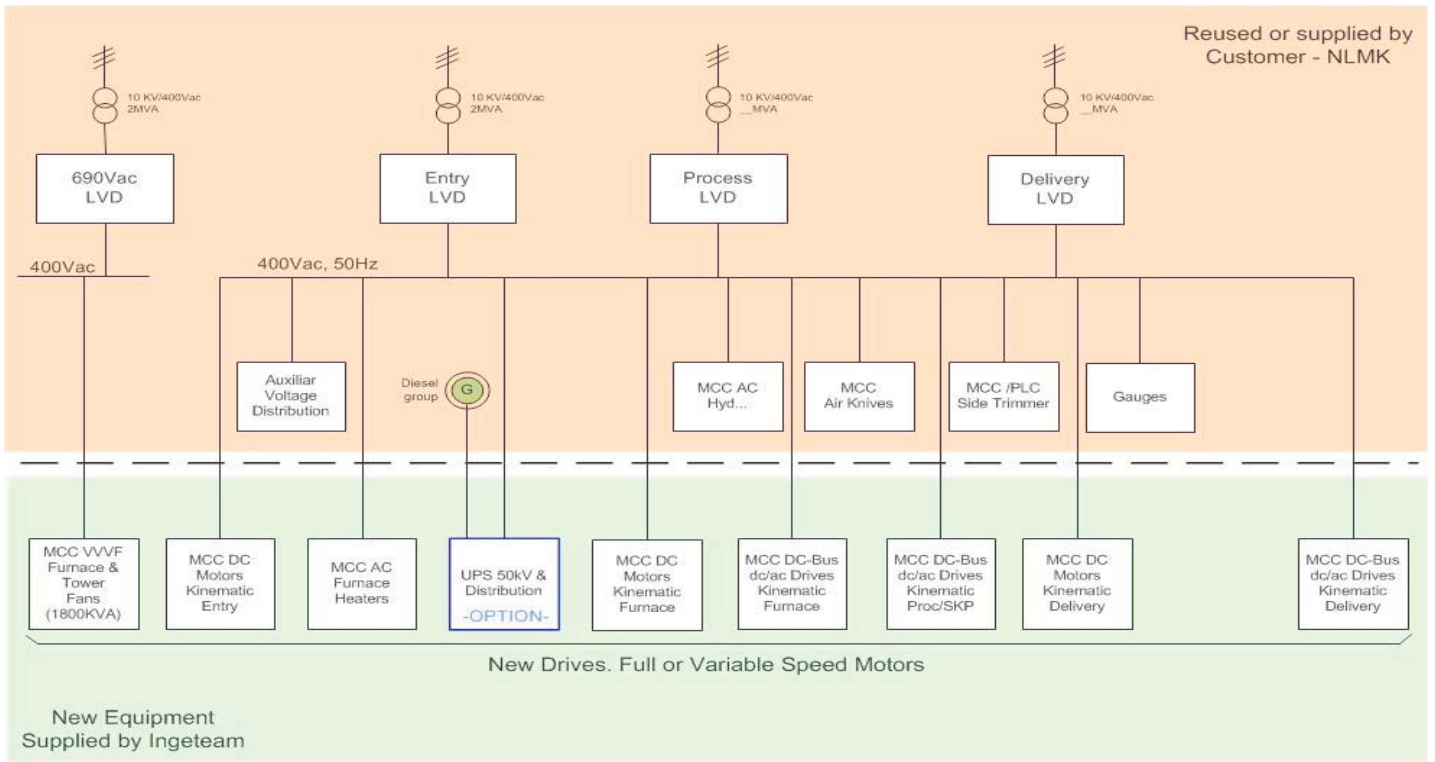
- Production capacity: 500.000 Tn/year.
- Incoming material: Low carbon and low alloyed cold rolled steel.
 - *Width: 900-1850 mm
 - *Thickness: 0,38-1,99 mm
 - *Int. diameter: 1200 mm
 - *Ext. diameter: 2200 mm
 - *Weight: máx. 45 Tn
- Outgoing material: Hot dip galvanized steel.
 - *Coating weight: 100/305 g/m² total both sides.
 - *Oiling machine: 0,3-2 g/m² each side.
- Line process speed: 180 rpm.

The following supplies and works were carried out by Ingeteam Power Technology S.A. for the electrical revamping of the Hot Dip Galvanizing Line:

- UPS and UPS voltage distribution.
- Strip transportation equipment.
- Sensors and peripherals.
- Control desks and panels.
- Line control systems (PLC's), remote units and safety PLC.
- HMI supervision systems (HMI).
- Interfaces with other subsystems.
- Basic and detail engineering.
- Commissioning.
- Training.

Electrical Revamping Hot Dip Galvanizing N°1

Line Diagram



Control Diagram

