

CASE

STUDY

Severstal (Russia)



In the second half of 2015, Severstal awarded one contract to CMI, to undertake the new continuous galvanizing line (CGL), in Cherepovets (Russia).

Ingeteam Power Technology was selected, in consortium agreement with CMI, as the main supplier of the electric and automation equipment, including Level II supply.

The main technical characteristics of the new line:

- Production capacity: 400.000 Tn/year.
- Incoming material: Low carbon and low alloyed cold rolled steel.
 - *Width: 900-1320 mm.
 - *Thickness: 0,25 - 2,0 mm.
 - *Int. diameter: 600 mm.
 - *Outer diameter: 2.200 mm.
 - *Weight: max. 30 Tn.
- Outgoing material: Hot dip galvanized steel / Zinc with normal spangles / Zinc without sangle.
 - *Coating weight: 10-20 mg/m² (each side)
 - *Oiling machine: 400 mg/m² (one side).
- Line process speed: 180 ppm.

The following supplies and works will be carry out by Ingeteam Power Technology S.A. for the electrical equipment of the Continuous Galvanizing Line:

- 10/0,4 kV Indoor Substation, Low power distribution.
- AC equipment: kinematic drives equipment with corresponding motors, AC/AC converters for auxiliary variable speed drives.
- Main control systems (S7-400) and safety PLC.
- Human machine interface (WinCC).
- Communication with other subsystems: Welder, Zinc Pot, Gauges, Air Knives, Chemical Coater, Marker, Oiler.
- Level II.
- Main operator desk and control panels.
- UPS + auxiliary voltage distribution.
- Auxiliary equipment: field sensors, etc.
- Interfaces with other subsystems.
- Basic and detail engineering.
- Commissioning.
- Training.

Continuous Galvanizing Line

Control Diagram

