

# CASE

# STUDY

Severstal (Russia)



In the second half of 2015, Severstal awarded one contract to CMI, to undertake the new continuous coating line (CCL), 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: 200.000 Tn/year.
- Incoming material: Cold rolled steel galvanised steel.
  - \*Width: 900-1320 mm.
  - \*Thickness: 0,3 - 1,0 mm.
  - \*Int. diameter: 610 mm.
  - \*Outer diameter: 2.200 mm.
  - \*Weight: max. 30 Tn.
- Outgoing material: Building industry, general industry, white goods.
  - \*Coating: 1  $\mu\text{m}$  (wet coating per side minimum).
- Line process speed: 120 mpm.

The following supplies and works will be carry out by Ingeteam Power Technology S.A. for the electrical equipment of the Continuous Coating 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: Sticker, Gauges, RTO Incinerator, Primer/Finish 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 Coating Line

# Control Diagram

