

New upgrade project in San Zeno Naviglio (BS), Italy

Automazioni Industriali Capitanio has been chosen by Duferdofin-Nucor to accomplish the securing of the CC1 (Continuous Casting Machine #1) in San Zeno Naviglio (BS, Italy) in conformity to the most updated safety rules and following the guidelines defined into the risk analysis performed by the customer together with a consultant company.

The scope of the project includes:

- New safety PLC to overcontrol the CPUs of Casting Lines and Common Parts;
- Modification of the existing electrical equipment with new safety remote I/Os to collect safety signals inside the cabinets;
- Engineering and supply of a set of Safety RIO cabinets with the aim to collect the safety signals among the CC line and to interface the safety system with the auxiliary services (water, Vesuvius, valves...);
- Engineering of all the possible accesses to the casting line up to the billet delivery;
- Safety locks for each gate;
- Design and supply of set of safety boxes equipped with safety remote I/Os and released safety keys to allow the secure opening of the gates and the safety access to the machines according to the tasks to be accomplished;
- Remote controllers for the safety execution of maintenance activities or local controls/movements
- Engineering, updating of existing equipment wiring diagrams, new wiring diagrams and CE certification of new equipment;
- PLC and safety PLC software development for implementation of safety logics and access to the different areas;
- HMI supervision system update with integration in the existing platform of new SCADA screens for monitoring the safety conditions of the machines and the status of the gates/sensors installed.

AIC will also be involved in the site installation and commissioning phases with a schedule that includes different steps to perform activities with a minimum impact on the production schedule.

AIC is a global system integrator providing advanced and tailored automation and robotic solutions for the steel industry, with the aim to continuously improve both efficiency, competitiveness and safety of the production processes. With more than 1000 applications worldwide and more than 40 years of history, AIC can boast a unique experience in both greenfield and revamping projects in meltshops and long products rolling mills.

Duferdofin-Nucor manufactures beams and long products in Italy, Europe and North Africa. A smart combination of know-how, technologies and human resources has promoted a solid well-integrated system of companies. The Company, headquartered in San Zeno Naviglio (BS), has four production sites in San Zeno Naviglio, Giammoro, Pallanzeno and San Giovanni Valdarno, which include the complete production chain: from liquid steel to finished products.

This press release is available at

- <http://www.aicnet.it/rassegna-stampa/>

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AIC Automazioni Industriali Capitanio sites:

- Italy (Headquarters, Engineering & Workshops)
- United States of America (Sales & Service)
- India (Sales, Engineering & Service)
- Brazil (Sales, Engineering & Service)