

Automazioni Industriali Capitanio received FAC for the modernization of the rolling mill at Acciaierie Venete in Odolo, Italy.

After 15 years of collaboration and the renovation projects carried out at the plants in Dolcè (VR), Mura (BS), Sarezzo (BS) and also in Odolo (BS), formerly owned by Leali Steel and recently acquired, the contract with AIC aims to update the state-of-the-art of the automation system for long product rolling mill.

The bar mill in Odolo was established in the second half of the 1990s. The main activity was the production of merchant bars: flat, square, round. After the period of financial difficulties, the rolling mill was renovated and returned to full production thanks to the intervention of Acciaierie Venete.

AIC covered the entire supply of the basic and detailed engineering, the replacement of the existing equipment, Level 1 and 2 software development, cold tests, hot tests and production assistance.

Representing more than 40 years of experience in the world of rolling mills for long products, AIC installed the Rolling mill Automation & Control System (RACS) to improve the efficiency of the plant and the reliability of the equipment, reduce downtime and increase the efficiency of analysis and problem-solving systems. The production performance was increased thanks to algorithm optimization, tension control, a continuity check, greater configuration flexibility of operations and the increased speed of the finish line.

The scope of supply of the project includes the complete renovation of the rolling mill part from the furnace exit to the cooling bed and the auxiliary parts. It includes:

- Modification to the drives of the stands and shears for the interface via profibus of the converters with the new automation dismantling the existing remote-slave system
- A new master PLC for the cascade control, loops and tension to replace a microprocessor system on the VME bus
- A new PLC with axis control for the control of the three start/stop shears for head, tail, cropping, dividing cutting and the mathematical models for optimization and pre-optimization cutting to replace a dedicated card system
- A new Rockwell L82E and L81E PLCs cabinets for services, fluids, change of stands and auxiliaries control to replace an obsolete Siemens S5 PLC
- A new main pulpit with two touch control panels that allow multiple clients control the system.
- The predisposition for the access management security system
- A new HMI system in a client\server configuration with the virtualized architecture;
- The management of recipes and the material tracking with the database management system for detailed tracking of historical production data.
- The interface with the existing systems of the reheating furnace and the packing area based on PLC S5

The modernization was completed within the previously established deadlines. The production has started at full capacity since day one.



AIC Automazioni Industriali Capitanio sites:

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



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.

Acciaierie Venete first began producing steel in 1957 operating in the field of commodities: ingots, billets and rebars. At the beginning of the 1980s, the company began to move towards the production of high-quality long products, a process which led to it becoming one of Europe's leading producers in the engineering steel market.

The company has not only grown and developed internally (by investing in human resources, technology, processes and products) but also externally (with the acquisition in 2003 of the Sarezzo, Mura and Dolcè plants and more recently the Odolo plant).

This press release is available at

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

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