

AIC completed the revamping of the Rolling Mill T460B at Acciaierie Valbruna (Italy).

Recently, Automazioni Industriali Capitanio (AIC) has commissioned the revamping of the Rolling Mill T460B at Acciaierie Valbruna (Vicenza, Italy) with the focus on the modernization of mechanical (supplied by Primetals) and electrical equipment.

AIC's turn-key electrical and automation (E&A) supply included parts from MV cells up to field connections, such as:

- New electrical installation, including cables and cable trays;
- Together with the customer, a new control room was built. Completely isolated from the system, it includes a new flooring with REI insulation level and with all the floors;
- The whole system is connected to the network. This provides the ability to monitor the system from a supervisor on a virtualized and remote platform with HMI & diagnostics tools;
- The installed PLC platform is a new TIAportal V15.1 PLC, while Ignition was installed for the supervision;
- The main drives are Siemens S120 in multidrive configuration with 12-pulse regenerative DC bus. This significantly reduces the harmonics and recovery of energy during the braking of the main drives;
- The supplied AC motors are Siemens: two motors rated 310kw air cooled for the Saw and Edger stand and the one motor for the mill rated 1900kw water cooled, all dimensioned with strong overloads up to 180%;
- The auxiliary drives have been replaced by Siemens G120;
- All the Roller tables of the open mill have been installed with self-protecting electronic motor-switches that help to avoid the intervention of electric technicians for the recovery of the system in case of its failure. This solution allows an almost complete abolition of the interventions to restore the motor-protection;
- Personalized RACS system was made with a special shooting control between the Edger and 3-Hi, tailored according to the customer's requests.

It should be taken into account that some of the customer's benefits of the upgrade are:

- E&A parts are completely new;
- New AC Motor rated 1900 kw controlled by inverter to increase plant performances;
- New ergonomic pulpits have been created for a greater comfort of the operator;
- Now, it is possible to speed up the stop time by 15 times thanks to new motors. Consequently, this significantly reduces the waiting time for operators and increases their safety through improved process and access control to the machines;
- The advanced platform with integrated architecture ensures faster and more effective troubleshooting and the reliability of the system which was designed with a high level of flexibility for its future development.

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)



Founded in 1925, Acciaierie Valbruna S.p.a. is a private company with 2.500 employees and an annual output of approx. 200.000 tons of specialty steels. Production is primarily focused on Stainless Steels and Specialty Alloys, available in blooms and billets, ingots, round, square, flat, hexagonal and angle bars, wire rod, wire, reinforcement bars and threaded rods, with the expressed goal of satisfying the most sophisticated needs of the customer. Today, Valbruna's production is utilized in various industrial sectors, such as: food and pharmaceutical, aerospace, automotive, chemical and petrochemical industries, construction, energy, mechanical, medical, naval and many others.

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 boost a unique experience in both greenfield and revamping projects in meltshops and long products rolling mills.

This press release is available at

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

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