

AIC will upgrade rolling mill in the USA

AIC has received a new contract to perform the automation upgrade of a complete bar and wire rod mill in the USA for a major rebar and coil manufacturer. The project aims to reach the following targets:

- Automation reliability
- Improve diagnostics on automation
- Have a new open system that allows for modifications/ adjustments
- Reduce the maintenance cost (spare parts obsolete and replacing components are more expensive than new full components)
- Improve production consistency
- Sustain the mill's capacity and reduce unscheduled downtime

To achieve all these goals mentioned above, the scope of supply includes:

- Power control (Auxiliary drives cabinets)
- Automation & Control desks (PLC panels, Remote I/O panels, main and local control desks, wireless remote controllers, HMI system, PDA System (IBA), Recipe management system, QMOS interface)
- Safety system (Safety PLC, Safety boxes to grant safe accesses, Safety operator screens on HMI etc.)
- Sensors
- Spare parts
- Personnel Services:
 - Commissioning
 - Training
 - Remote support services
 - Certification
- Packing and shipping DDP to site of all the equipment

The proposal of AIC consists of the new automation & HMI control systems for the rolling mill, starting from first stand in the mill and going through the bar takeout of the cooling bed until the cold shear included and, for the wire rod line, the rod outlet up to cooling conveyors included. The new system will also include all auxiliary systems such as lubrication, hydraulics, water treatment plant, etc. All existing PLC platforms present at site will be replaced and be integrated into a new Allen-Bradley ControlLogix GuardLogix L8xES control system.

All new electrical equipment included in the scope of supply will be engineered and manufactured according UL standards and markings and will be designed according to the new rules and standards adopted by AIC and the customer for arc-flash detection and lock-out procedures. All the new supplied equipment will be SIL3.



Fig. 1 & 2 - Integrated safety/process desks (only for reference)

AIC Automazioni Industriali Capitanio sites:

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

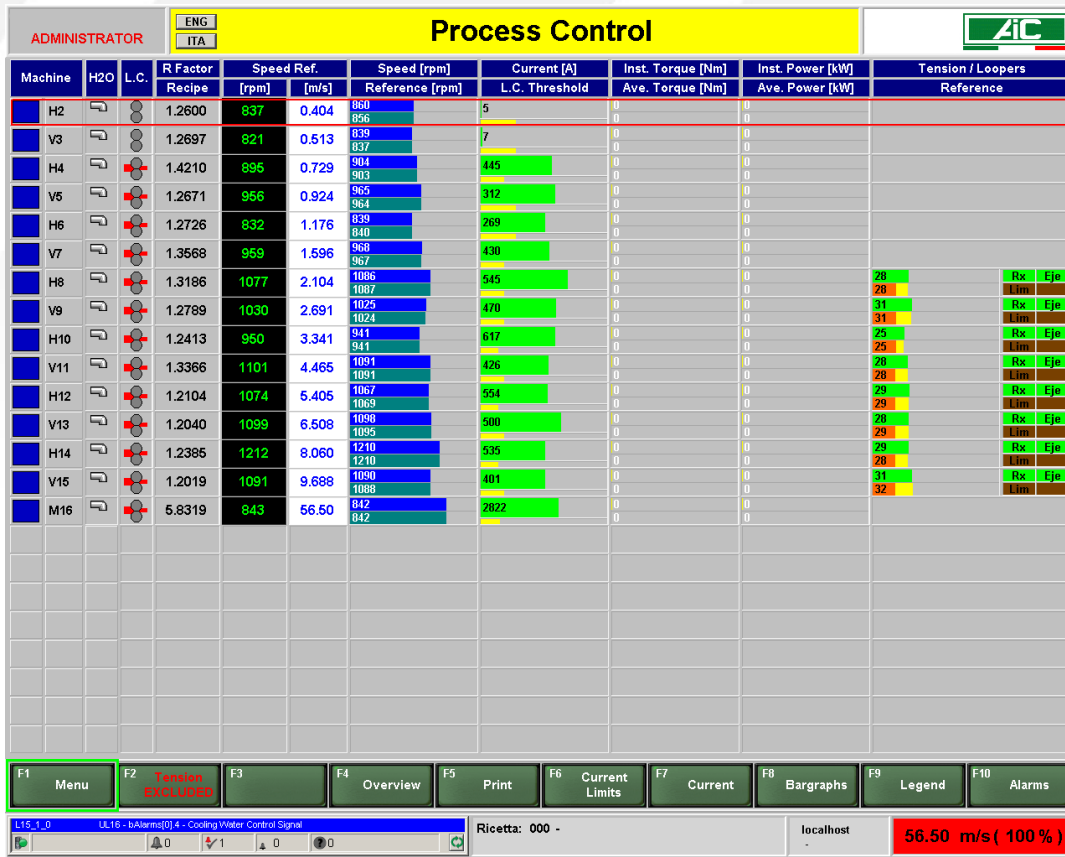


Fig. 3 - HMI screen example (only for reference)

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.

For more information:

- AIC Group: <http://www.aicnet.it/rassegna-stampa/>
- ATS Mechatronics: <https://www.ats.ud.it>
- Official LinkedIn page: <https://www.linkedin.com/company/automazioni-industriali-capitano>
- Official Facebook page: <https://www.facebook.com/AICnet.it>

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