

Anthropomorphic robotic tagging station for Acindar's finishing end area in Argentina

ArcelorMittal Acindar and AIC team will integrate an automation robotic tagging station for the rolling mill finishing end area at the Villa Constitución site in Argentina.

Including an anthropomorphic 6-axis floor-mounted COMAU robot and equipped with different tools, each designed for a specific task, AIC solution is proven to enhance productivity, efficiency and manufacturing flexibility throughout the entire process.

Leveraging AIC's unparalleled expertise in robotics technologies, the artificial vision package embedded will identify the most suitable coordinates (nearby the center of the profile) for labelling and welding on the bundle tail. Moreover, exchanging data with PLC will be helpful in autonomously to decide the repositioning or any second welding, if tags will not fitted the set perimeter or will be missed. In the out-turn, product traceability and readability will be optimized, avoiding unnecessary manual operations, errors in tagging and plant shutdowns.

A safer operating area will be insured by the safety logic with smart electric locks linked to the automation system. In fact, the goal in adopting this solution is to reduce risk factors to a large extent: robots can handle the most tedious and dangerous manufacturing applications to keep your workers safe, ensuring a short cycle time in a compact footprint.

The first stages have been expected for Summer 2022 and it will be the first AIC robotic application for the South American market.

The automation industry is in an ongoing process that will necessarily pass through robotics, in an effort to reduce waste by improving quality and consistency, to make construction safe by handling large and heavy loads and to deliver products faster and with greater accuracy.

AIC, with its tailored-made solutions, studies and designs intensively the state-of-the-art novelty on the market to be flawless in improving the often-harsh conditions our customers operate in.

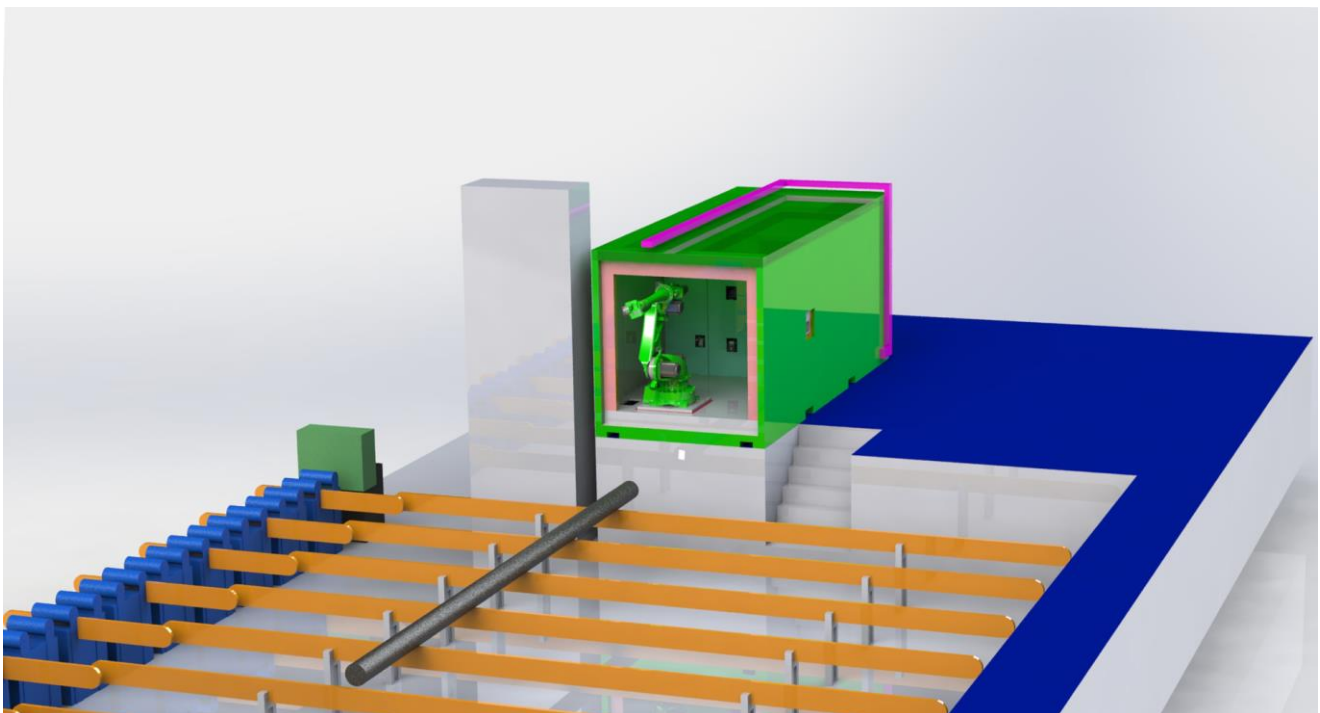


Figure 1 – AIC robot rendering for Acindar's project.

AIC Automazioni Industriali Capitano 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 45 years of history, AIC can boost a unique experience in both greenfield and revamping projects in meltshops and long products rolling mills.

Acindar Industria Argentina de Aceros S.A. is a steel company that produces long steel that supplies the civil construction, oil, energy, automotive, agricultural and industry sectors in general with the main goal of making steel more sustainable. With more than 75 years of history in the country, it has become a leader in its domestic market adding an international presence. Acindar also offers technical advisory services, along with cutting, bending and pre-assembling of steel parts according to the client's technical specifications. Acindar Argentina is a part of the ArcelorMittal Group, world leader in steel and mining production.

For more information:



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