

AIC has been awarded a new project from Steel Dynamics Inc. Roanoke Plant.

AIC has been chosen for the supply of two BAT, bundle robotic tagging applications.

AIC robotic islands will automate the tagging process for steel bundles on both rolling mill outlets, incorporating several advanced features to ensure efficiency and accuracy.

The robot applies printed tags to the bundle head using metallic studs, with a 3D vision system that identifies the optimal spot for tagging.

An optional second tag or a sticker tag for specific products is also included in one of the two islands to be supplied. Both islands include QR code readers to verify the printed tag data against the tracking system of the plant, ensuring consistency. Additionally, the system includes a dispenser for applying up to six colored tags to identify special bundles, such as defected ones, end of a heat and so on.

To prevent operational stoppages, the two robotic islands are equipped each with two thermal transfer printers in a backup configuration, capable of handling up to 10,000 tags when using external rolls. The system achieves a maximum cycle time of 20 seconds per bundle for double tagging and 30 seconds when both a stud tag and a sticker are applied to the bundles.

The system ensures high efficiency, accuracy, and adaptability for steel bundle tagging.



About Companies:

AIC Group is a technological partner with extensive experience and deep know-how and stands itself as a global power control supplier and system integrator designing, manufacturing, and implementing automation systems, process control, and mechatronic solutions for both greenfield and revamping projects. Focusing on the steel and metals industries for long and flat products, the Group provides cutting-edge technical solutions by handling complex project schedules and thus establishing satisfactory and remarkable partnerships through its 6 international offices.

More than 45 years of modernization for endless reliability processes.

Steel Dynamics Inc. is one of the largest and most diversified domestic steel producers and metals recyclers in the United States, with an estimated steelmaking and coating capacity of approximately 13 million tons, and facilities located throughout the United States and in Mexico. SDI operate using a circular manufacturing model, producing lower-carbon-emission, quality steel using electric arc furnace (EAF) technology with recycled ferrous scrap as the primary input. Our circular economy is powered by our three primary operating platforms: steel, metals recycling, and steel fabrication.

For more information:

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