

## **AIC has supplied advanced drive and automation system upgrade for rolling mill modernization for CMC Tennessee.**

AIC has successfully completed on time and on the requested schedule the modernization of the rolling mill, to improve drive systems, automation, and operator safety.

The project included the supply of main AC drive panels for the stands, along with a DC bus supply module. In addition, AIC has supplied new pumps and fans for the water treatment drives covering the entire process from engineering and design to manufacturing, internal testing, delivery, commissioning, and installation documentation.

As part of the modernization, AIC has provided a complete suite of automation and safety systems, including:

- Safety PLC panels,
- Local safety control stations.

The existing **HMI** system has also been upgraded to fully integrate control and monitoring of the new drives. The system update includes alarm integration and interface improvements.

The **IBA** system has also been modified to include all I/O signals from the new equipment using the existing license and communication drivers, ensuring seamless integration without additional hardware.

The **PLC** software has been upgraded to:

- Enable network control of drives,
- Adapt HMI functions to the new systems,
- Retune impact compensation and tension control algorithms.

Integration with the existing engineering station has been completed using the Drive Composer Tool, and the scope of supply also included a newly equipped control room.

To ensure effective adoption, training for plant personnel and remote support services for the first six months after start-up have also been included.

This project confirms AIC's ongoing commitment to delivering customized, high-performance automation and drive solutions that elevate efficiency, safety, and process control in rolling mill operations.



### 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 7 international offices, Italy, USA, Germany, Brazil, India, China and Czech Republic. 50 years of modernization for endless reliability processes.

**CMC Commercial Metals Company (CMC)** is a company specialized in the sustainable recycling, production and fabrication of steel and building solutions. Founded in 1915, CMC operates through a network of more than 200 facilities in the United States, United Kingdom, Central Europe and Asia, employing more than 13,000 people. CMC is a leading manufacturer of reinforcing steel (rebar) and offers a wide range of long steel products, such as merchant bars and wire, used in infrastructure, commercial and residential buildings, energy, manufacturing, and agriculture.

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