

Rolling mill stands and drives upgrade at Gerdau Wilton

Engineers from AIC North America have successfully commissioned the first phase of drive upgrading at Gerdau Wilton (Iowa, USA).

The intervention has centred on replacing stands 1, 2, 3 and 11 drives, as well as starting up new converters for stands and shears. Shears (SH1 & SH3) drives and control, approach roller table to stand 2, pinch roll 3 and VF0 roller table drives were all part of the project.

Shears controls as well have been completely migrated from obsolete axis control to the new ControlLogix platform with motion controls and Safety PLC has been installed to improve the safety LOTO procedures at the site; everything interfaced with the Rolling Mill Control system platform installed at the site.

This is the first step of a 2 steps installation for the complete revamp of the rolling mill, remaining rolling mill stands will be installed during the Thanksgiving period this year.



Figure 1&2 – The project's main components.

AIC Capitanio Tailored Automation is a global system integrator that designs, manufactures and commissions turn-key plants worldwide, providing advanced and tailored automation and mechatronics solutions for the steel industry, with the aim to continuously improve both efficiencies, competitiveness and safety of the production processes. With more than 1500 applications worldwide and more than 45 years of history, AIC can boast a unique experience in both greenfield and revamping projects, especially in meltshops and long products rolling mills.

Gerdau's North American business division focus on long steel and special steel products including beams and piling, merchant bar quality, rebar, special bar quality and wire rod products. The Gerdau steel plant in Wilton, IA, is focused on steel rebar, angles & flats.

For more information:



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