

Handan Iron & Steel turns to Siemens VAI

# Three New Processing Lines

Siemens VAI has received an order from the Chinese company Handan Iron & Steel Corporation to supply the automation and electrical equipment for a new annealing line and two hot-dip galvanizing lines. This includes all the drives plus the basic and process automation systems. The strip processing lines are part of cold-rolling mill No. 2, which is currently being constructed and is scheduled to start production at the end of 2010.

**Handan plant view: the company boosted its production up to 10 million tons by 2008.**





Stone-laying ceremony for the new cold-rolling mill No. 2



**E**stablished in 1958 in Handan, a city in the Hebei Province, Handan Iron & Steel Corporation has an annual production of around nine million metric tons of steel. Since the middle of 2008, the company has been part of the Hebei Iron & Steel Group, the leading steel producer in China. The company boosted its production to 10 million tons last year, and will improve its value chain with an additional cold-rolling plant scheduled to go on line in 2010.

For the three processing lines of the new cold-rolling mill, Siemens is supplying all the drive technology and the basic automation, which includes technological control systems for the built-in skin-pass mills and stretch levelers as well as measuring and control equipment for strip cleaning and post-treatment. The project also encompasses process automation, control desks and HMI equipment with user-friendly process and plant diagnostic functions. Automation will be completely based on Simatic S7 programmable logic controllers, whereby standardized application modules will be used for the actual programming to facilitate commissioning and maintenance. The process-automation system and the HMI system for the almost fully automated production plants will contain standard server components with a partially redundant design to enhance plant availability. All the main and auxiliary drives are based on three-phase technology.

In order to ensure a uniformly high product quality, the annealing line is to be fitted with a fully automatic strip-surface inspection system (SIAS). Systems from third-party companies will be integrated in the two hot galvanizing lines. Siemens is also responsible for supervision of the installation work as well as for commissioning, acceptance-test support and customer training. Siemens VAI was awarded the contract primarily due to numerous reference projects for processing lines and the local Siemens presence, which will ensure speedy and efficient after-sales services. ■

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