



First reverse cold mill worldwide upgraded to Hyper UC-mill by Primetals Technologies started up at Masteel

In August, the first coil was produced on a reverse cold mill (RCM) modernized by Primetals Technologies at the cold rolling plant of Chinese steel producer Magang (Group) Holding Co (Masteel).

The mill at the Maanshan production site represents the first upgrade to a Hyper Universal Crown (UC)-mill worldwide and was officially inaugurated later that month. Hyper UC-mills employ smaller diameter work rolls, thus reducing rolling loads. This allows for the production of harder and thinner materials with improved product quality. In addition, the mill concept saves investment and maintenance costs. The upgrade enables Masteel to meet the growing demand for electrical steels spurred by increasing requirements for end uses in e.g. vehicle electrification. Primetals Technologies had received the order to revamp the RCM in April 2017. Masteel is a large-sized iron and steel complex in China's Anhui Province which was founded in 1958.



The company's production amounted to 19.7 million tons (2017). Their iron and steel business is mainly engaged in ferrous metal smelting, rolling and processing as well as product sale and support services. Masteel owns top production lines for thin strip cold-rolling and thin strip hot-rolling, strip hot-galvanizing, strip color coating, silicon steel, H-beam, high-quality wire and rod, train wheel, etc.

Primetals Technologies' main scope of supply for the RCM upgrade included the project block, mill rolls, roll chocks, drive spindle and drive gear box. In addition,

Primetals Technologies was responsible for the supervision of erection and commissioning. The upgraded mill processes silicon steel grades with product thicknesses between 0.3 and 0.65 millimeters in a width range of 900 to 1,280 millimeters.

The Hyper UC-mill was recently developed by Primetals Technologies to achieve high performances of strip gauge and flatness control for High Strength Steel (HSS) rolling. This technology is also applicable for rolling high grades of non-grain oriented silicon steel and thin products. The technology is based on an optimized roll diameter combination (small work, intermediate and back-up rolls), a "work roll driven system" to achieve high flatness controllability, and the development of a high strength small diameter spindle to drive the work roll. HYPER UC-MILL is a registered trademark of Primetals Technologies in certain countries. ■

NISCO orders KOCKS RSB 5.0 including TMR equipment



Chinese state owned company Nanjing Iron & Steel Co Ltd. (NISCO) has placed an order with Friedrich KOCKS GmbH & Co KG, Hilden, Germany, for the supply of a RSB@ 500++/4 in 5.0 design including roll shop equipment and supervision services. Owing the full process

responsibility within this modernisation scope, KOCKS is also responsible for the thermo mechanical rolling process including five water boxes and full automation package.

NISCO was founded in 1958 and ranks among the 40 largest steel producers in the world at around 10 million tons per year. NISCO is already operating in its small bar mill a Reducing & Sizing Block of KOCKS since 2013. To consolidate and further expand their market share in the SBQ market, NISCO decided also to modernize their

800.000t/a medium bar mill with the latest technology of Friedrich KOCKS GmbH & Co KG.

The RSB@ 500++/4 will operate as the finishing unit for the production of straight bars within a dimensional range from Ø 50 to Ø 160mm. The low temperature rolling process will be applied for sizes up to Ø 130mm.

The commissioning is scheduled for end of 2019. KOCKS rolled@ products stand for an extraordinary quality – made to consistently high standards by commissioning. ■

This section is a compilation from various company press releases, business dailies, trade publications and Industry Websites.