
London, February 18, 2020

Preliminary Acceptance Certificate awarded to Primetals Technologies by Beihai Chengde for 3-stand Power X-HI continuous tandem cold mill

- **Plant capacity is 600,000 tons of cold strip per year**
- **First application of Power X-HI with stainless steel black coils**
- **Relieves hot rolling mill and allows for additional thickness reduction**

In late October, Chinese steel producer Beihai Chengde Stainless Steel Co. (Beihai Chengde) achieved their full reduction program on their new Power X-HI 3-stand mill on HRAPL#5, exceeding 60 % reduction on 304 grades with white coil process, 55 % on series 200 black coil process. Subsequently, Beihai Chengde awarded Primetals Technologies with the Preliminary Acceptance certificate for the TCM only six months after rolling mill start-up. The 3-stand continuous tandem cold mill (TCM) was supplied to the Beihai plant in Guangxi Province. The rolling mill has a rated capacity of 600,000 tons of cold strip per year and is designed to produce 300 and 200 series steels as white and black coils. It is the first application of a Power X-HI mill for the direct processing of stainless black coils. The new mill relieves the hot rolling mill and allows additional thickness reduction. Mill has been in operation since mid-2019.

The company is using the new cold rolling mill to produce wider strip. The continuous rolling mill handles hot-rolled, black stainless steel. It is able to achieve exit thicknesses from 0.8 to 5.5 millimeters from entry thicknesses of between 2.0 and 8.0 millimeters. The width of the strip varies between 1,000 and 1,550 millimeters. Primetals Technologies was responsible for the complete engineering, the manufacture of key-components, the overall technical coordination, as well as supervision of erection and commissioning.

The rolling speed is 200 meters per minute. The scope of supply also included variable-speed drives with a total power of approximately 10,000 kilowatts, and the basic (level 1) and process (level 2)

automation. An HMI-solution handles operator control and monitoring tasks. It also enables distributed supervision and features easy-to-use diagnostic and alarm functions.

Beihai Chengde is active in nickel mining and the production of narrow stainless steel strip. It already operates a 5-stand Power X-HI continuous TCM with heavy laser welder supplied by Primetals Technologies, which produced the first coil at the end of 2015.

X-HI® is a registered trademark of Primetals Technologies in certain countries.



Beihai Chengde awarded the PAC for a 3-stand Power X-HI continuous tandem cold mill supplied by Primetals Technologies.

This press release and a press photo are available at www.primetals.com/press/

Contact for journalists:

Dr. Rainer Schulze: rainer.schulze@primetals.com

Tel: +49 9131 9886-417

Primetals Technologies, Limited
A joint venture of Mitsubishi Heavy Industries and partners
Communications
Head: Gerlinde Djumlija

Chiswick Park, Building 11, 566 Chiswick High Road
W4 5YS London
United Kingdom

Follow us on Twitter: twitter.com/primetals

Primetals Technologies, Limited, headquartered in London, United Kingdom, is a pioneer and world leader in the fields of engineering, plant building, and the provision of lifecycle services for the metals industry. The company offers a complete technology, product, and services portfolio that includes integrated electrics and automation, digitalization, and environmental solutions. This covers every step of the iron and steel production chain—from the raw materials to the finished product—and includes the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a joint venture of Mitsubishi Heavy Industries and partners, with around 7,000 employees worldwide. To learn more about Primetals Technologies, visit the company website www.primetals.com.