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Primetals Technologies to upgrade continuous slab caster for China Steel Corporation in Kaohsiung, Taiwan

- **Molds and associated equipment will be thoroughly modernized**
- **Technology packages will increase flexibility, product quality and minimize breakouts**

In June, Primetals Technologies received an order from Taiwanese steel producer China Steel Corporation (CSC) to upgrade the continuous slab caster S6 at the company's Kaohsiung plant. The project includes the replacement of obsolete or redundant features via the modernization of the mold and the installation of proven technology packages. The aim is to increase flexibility, product quality and to minimize breakouts. The upgrade will also consider possible additional enhancement features in future. Start-up of the modernized caster is expected in mid-2018.

China Steel Corporation (CSC) is the leading flat steel producer in Taiwan with an annual production capacity of around 9.9 million metric tons per year. Around two thirds of the production is for the domestic Taiwanese market, the rest is exported. The CSC plant in Kaohsiung includes two BOF shops with a total of seven 2-strand slab casters and three 4-strand bloom casters. The slab casters mainly produce carbon and low alloy steels.

The two-strand continuous slab caster S6 originally started up in 1996 and is equipped with a straight mold. The machine radius is around 9 meters and the metallurgical length is around 44.7 meters. It produces slabs with a thickness of 250 millimeters with widths ranging from 750 to 1,880 millimeters. Grades cast include ultra-low and low carbon steels, peritectic and high-strength low-alloy (HSLA) steels, micro alloyed and low alloyed steels as well as pipe grades.

Primetals Technologies will equip the caster with three new technology packages, namely the DynaWidth hydraulic mold width adjustment to allow accurate slab width change during or between casting, the Mold Expert breakout prevention and mold monitoring system to minimize the possibility of breakouts, and the DynaFlex hydraulic mold oscillation with a new frame type oscillator which gives

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

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

complete flexibility over oscillation control during casting to maximize as cast product surface quality. Primetals Technologies will be responsible for design and supply, and will also provide advisory services during erection and commissioning. New mold parts and a new frame type DynaFlex oscillator will be manufactured in Taiwan by CSC-owned China Steel Machinery Corporation (CSMC). The casters S4 and S5 in the same shop were revamped by Primetals Technologies in 2005.



Continuous slab caster at the Kaohsiung plant of Taiwanese steel producer China Steel Corporation (CSC). Primetals Technologies will upgrade the casting machine S6 at the same location.

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

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Primetals Technologies, Limited headquartered in London, United Kingdom is a worldwide leading engineering, plant-building and lifecycle services partner for the metals industry. The company offers a complete technology, product and service portfolio that includes integrated electrics, automation and environmental solutions. This covers every step of the iron and steel production chain, extending from the raw materials to the finished product – in addition to the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a joint venture of Mitsubishi Heavy Industries (MHI) and Siemens. Mitsubishi-Hitachi Metals Machinery (MHMM) - an MHI consolidated group company with equity participation by Hitachi, Ltd. and the IHI Corporation - holds a 51% stake and Siemens a 49% stake in the joint venture. The company employs around 7,000 employees worldwide. Further information is available on the Internet at www.primetals.com.