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Primetals Technologies wins order for Mulpic intensive cooling system from Baosteel Zhanjiang

- **Higher cooling rates and accurate cooling control reduce flatness defects**
- **First system with individual header control for Direct Quench and Accelerated Cooling modes over entire length of cooling line**

Chinese producer Baosteel Zhanjiang Iron & Steel Co. Ltd. has ordered a new Mulpic (Multi-Purpose Interrupted Cooling) system from Primetals Technologies. The intensive cooling system will be installed in the company's existing plate rolling mill which is currently being re-located from Shanghai to Zhanjiang, Guangdong Province, and is scheduled to be operational in March 2016. The Mulpic system facilitates higher cooling rates and accurate cooling control, resulting in plates with uniform metallurgical properties and reduced flatness defects.

Baosteel Group Corporation is one of the largest iron and steel conglomerates in the world and was established in November 1998. Its annual steel production amounted to approximately 44 million metric tons in 2013. Baosteel produces high quality products for the domestic and international market. Baosteel Zhanjiang Iron & Steel Co. Ltd became part of the group in 2012.

The Mulpic system ordered by Baosteel is the most advanced supplied to date and will incorporate the latest Mulpic control software along with cutting-edge flow control valves developed by Primetals Technologies. The system will also be the first Mulpic to incorporate individual header control for both direct quenching (DQ) and accelerated cooling (ACC) modes of operation along the complete length of the cooling machine. The new Mulpic system will replace an existing accelerated cooling system that cannot achieve Baosteel's future requirements for the re-located plant and will provide increased cooling rates and more accurate cooling control.

Primetals Technologies will supply the complete mechanical, electrical and automation equipment for the new Mulpic system. The advanced actuators are an integral part of the machine and ensure uniform properties along the plate length, across the plate width and minimize the need for further processing.

This latest order further underlines the Mulpic system's position as the world's leading cooling technology and increases the number of Mulpic systems installed worldwide since 2001 to 22.

MULPIC is a registered trademark of Centre de Recherches Metallurgiques ASBL



Mulpic (Multi-Purpose Interrupted Cooling) system from Primetals Technologies

This press release and a press photo are available at

www.primetals.com/press/

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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 9,000 employees worldwide. Further information is available on the Internet at www.primetals.com.