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Primetals Technologies modernizes twin electric arc furnace at Baosteel in Shanghai, China

- **Improved power efficiency reduces production costs**
- **Greater flexibility in the use of raw materials**
- **Increased anode durability to more than 1,500 melts**
- **Production with a hot metal content of up to 90 percent possible.**

Primetals Technologies has won an order from China's Baoshan Iron & Steel Co. Ltd. (Baosteel) to modernize a more than 20-year old DC twin electric arc furnace at its Shanghai plant. The project involves redesigning both the upper and lower vessels and installing new anodes in each case. Improved power efficiency reduces production costs and raw materials can be used more flexibly. It will therefore be possible in future to operate the electric arc furnace with a hot metal content of up to 90 percent. Modernization work is scheduled for completion by the end of 2016.

The Baosteel Group is one of the largest iron and steel companies in the world. In 2014, the company's annual steel production was more than 43 million metric tons. Baosteel manufactures high-quality products for the domestic and international markets. The twin electric arc furnace has a tapping weight of 150 metric tons and is part of a production line on which billets and long products are manufactured for use as structural steels.

Under the modernization project Primetals Technologies will be engineering, manufacturing and supplying essential components. The upper vessels with their water-cooled wall panels will be completely redesigned, and the lower sections will each be equipped with a new, air-cooled FIN anode. The guaranteed anode durability is more than 1,500 melts. Overall, electric power efficiency levels and thus productivity will improve. New burner systems will also be installed. In future, it will be possible to operate the twin electric arc furnace with a hot metal content of up to 90 percent. The hot metal will be charged in future not only into the open furnace, but also via the side wall. Primetals Technologies is likewise responsible for monitoring the installation and commissioning work.

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150-metric-ton twin electric arc furnace at Baosteel in Shanghai, China. The furnace will be modernized by Primetals Technologies by the end of 2016.

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.

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