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China's Zenith Steel revamps complete rod outlet with Primetals Technologies

- **Product line expanded into high carbon market**
- **First Optimesh system installed in China for increased cooling**
- **Upgrade increases rolling speed to 110 m/s for greater production**

Zenith Steel (Changzhou Zhongtian Iron & Steel) in Changzhou, Jiangsu Province, China, has signed a contract with Primetals Technologies to revamp a complete wire-rod outlet to improve the quality and range of its products. For increased cooling capacity, the wire-rod mill project will include upgrading the existing Morgan Stelmor conveyor with the first Optimesh system in China to ensure cooling uniformity for high carbon products in fast cooling mode. The revamped mill will operate at an increased speed of 110 m/s. Located in Changzhou, the mill is expected to be commissioned in early 2016. This is the fifth contract with this customer for Primetals Technologies and its predecessor companies.

The Optimesh system controls the air distribution across the width of the Stelmor conveyor, ensuring uniform cooling of the rings for consistency of both mechanical properties and metallurgical structure. The contract's scope of supply also includes a prefinishing mill, shear, Morgan Vee No-Twist Mill, a Morgan Intelligent Pinch Roll, laying head and water boxes. The revamped mill for this privately-owned, midsized steelmaker will be able to roll rod ranging in diameter from 5.5 mm to 20 mm.

In addition, Primetals Technologies is providing an integrated solution with electric and automation upgrades for the mill.

No-Twist and Stelmor are registered trademarks of Primetals Technologies and/or its subsidiaries in some countries.



Morgan Stelmor Cooling Conveyor operating with Optimesh system from Primetals Technologies beneath nozzle deck. Optimesh ensures cooling uniformity for high carbon products in fast cooling mode. The system will be installed in a wire-rod outlet of Zenith Steel in China.

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Primetals Technologies, Limited, headquartered in Frimley, Camberley, United Kingdom, is a worldwide leading engineering, plant-building and lifecycle partner for the metals industry. The company offers a complete technology, product and service portfolio that includes the integrated electrics, automation and environmental solutions. This covers every step of the iron and steel production chain that extends 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 IHI Corporation - holds a 51% stake and Siemens a 49% stake in the company. The company employs around 9,000 employees worldwide. Further information is available on the Internet at www.primetals.com.