
London, September 30, 2015

Erdemir orders continuous galvanizing line from Primetals Technologies

- **Annual production capacity of 350,000 metric tons**
- **Line dedicated to produce automotive exposed parts**
- **Erdemir will be entering new market segment in the automotive industry**

Turkish steel producer Erdemir awarded Primetals Technologies an order to supply a turnkey, continuous galvanizing line for its Ereğli Plant on the Black Sea coast. The project includes erection and civil works and will be handled in an open consortium with a local Turkish company. The line will process 350,000 metric tons of IF steel and high-strength cold strip per year for use in the automotive industry with a focus on exposed parts. To this end, Primetals Technologies provides a special process know-how package. This opens up a new market segment for Erdemir. The project is scheduled to be completed in the second quarter of 2018.

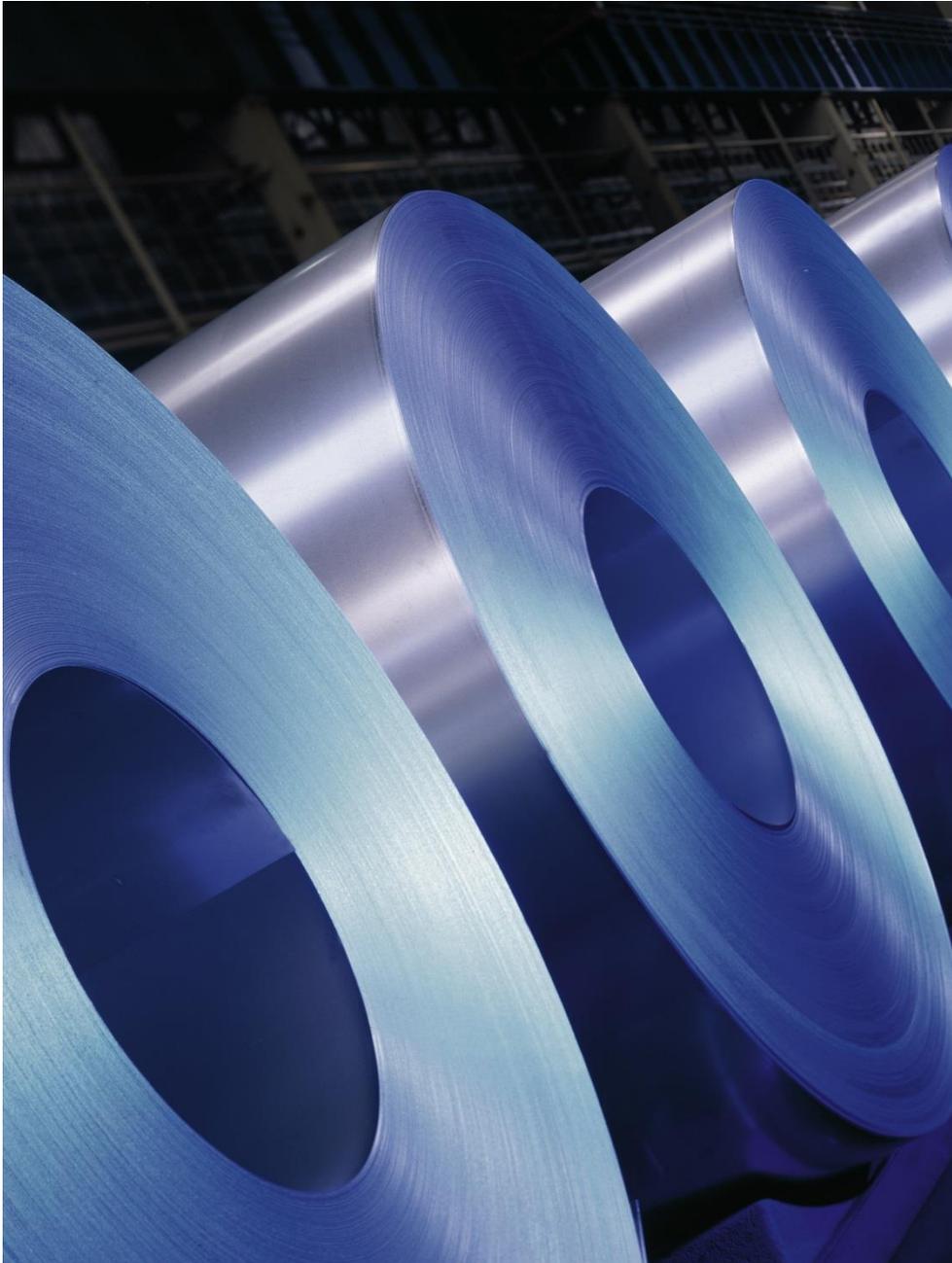
The galvanizing line will produce strip in thicknesses ranging from 0.4 to 2.0 millimeters, and widths from 700 to 1,900 millimeters. The steel grades spectrum include commercial grade, IF (interstitial free), high-strength, bake hardening, HSLA and dual-phase steel grades. Primetals Technologies will lead the project execution, engineer and supply the entire mechanical and electrical equipment, as well as the automation and process technology for Erdemir's continuous galvanizing line. This will give Erdemir a complete, end-to-end solution, which will enable high productivity, product quality and availability.

The scope of supply from Primetals Technologies includes the line equipment starting at the coil feeding and entry section with a double uncoiler, followed by a mash lap welder. This creates a continuous strip, which first passes into a vertical strip accumulator, then the strip goes through a cleaning section and the annealing furnace. The actual galvanizing takes place at a speed of 150 meters per minute. After leaving the zinc bath, the coated strip is cooled down in a water quench. The strip then goes through a 4-high skin-pass mill and a tension leveler. The strip then runs through a post-treatment section and an exit accumulator before being trimmed. This is followed by an inspection station, in which the fully automatic

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SIAS inspection system checks whether the strip has the required surface quality. The exit section consists of an electrostatic oiler, a rotary shear and a coiler, as well as coil handling, banding and weighing machines. Tools, such as TCOptimizer, monitor the process sequence. PropertyMon monitors the mechanical properties inline.



Galvanized coils. Primetals Technologies will supply a continuous galvanizing line to Turkish steel producer Erdemir for its Ereğli Plant.

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.