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PRESS RELEASE

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Higher plant availability and better product quality through the use of optical fibers in the mold

ArcelorMittal Ostrava orders HD mold^{FO} from SMS group

ArcelorMittal Ostrava, Czech Republic, has placed an order with SMS group (www.sms-group.com) for an HD mold^{FO} (FO: Fiber Optics) for use in a continuous round bloom caster for bloom diameters of 350 and 400 millimeters. The SMS group scope of supply comprises two mold tubes, each with twelve optical fibers, for a total of 180 temperature measurement points per mold.

ArcelorMittal Ostrava also ordered the HD mold^{FO} software with assistance functions. They serve to protect the machine and to improve quality and yield, and provide support in the development of new steel grades.

SMS Concast is to supply two new Convex[®] molds that will be prepared for the use of HD mold^{FO}. Commissioning is scheduled for 2018.

With the HD mold^{FO}, SMS group offers a significant improvement in online signal acquisition through the use of fiber optics. With more than 200 possible measurement points on continuous casters for long products, the measurement density is significantly higher than when using thermocouples. The measurement points can be distributed over the whole height of the mold, and the positions of the

measurement points can be freely selected. Only the use of the HD mold^{FO} will make online visualization of the local strand shell thickness and of the thicknesses of the liquid and solid mold powder layers possible.

SMS Concast is also to supply CONCOR rollers for segment 1 and the Dynamic COOL (online and offline) Level 2 technology package for optimization of the secondary cooling zones.

ArcelorMittal Ostrava a.s is the largest steel producer in the Czech Republic. The integrated steel plant produces three million tons of steel per year. Apart from the Czech market, ArcelorMittal Ostrava sells its products in more than 40 countries worldwide.

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Higher product quality of round blooms through the use of HD mold^{FO} in a continuous round bloom caster.

SMS group is a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. It has some 13,500 employees who generate worldwide sales of more than EUR 3 billion. The sole owner of the holding company SMS GmbH is the Familie Weiss Foundation.