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PRESS RELEASE

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Successful in Vietnam: Cold rolling technology made by

SMS group

Hoa Sen Group orders third compact cold mill

In September 2017, Vietnamese cold strip producer Hoa Sen Group again placed confidence in SMS group (www.sms-group.com) as supplier of high-performance and efficient cold rolling mills and ordered the fourth reversing cold mill within three years. The order covers a twin-stand CCM[®] (Compact Cold Mill) and hence the third plant of this type on the whole.

Placing the current order with Esmech Equipment Pvt. Ltd., a member of SMS group, Hoa Sen Group is pushing on the expansion of cold strip production. The third CCM[®] in a row is dedicated to the new facility in Nhon Hoi in southern Vietnam. As in the previous supplies, the quality determining core components of the rolling mill, as e.g. the CVC[®]plus technology, will be provided by SMS group from Germany. The comprehensive X-Pact[®] electrics and automation will be part of the overall supply scope just like the required auxiliaries.

The CCM[®] will be designed for the rolling of low-carbon steel strips with maximum widths of up to 1,250 millimeters and final gauges of minimum 0.11 millimeters. The annual production capacity will add up to 350,000 tons, depending on the product mix. The CVC[®]plus

technology by SMS group in combination with other proven rolling technologies will ensure high-grade strip quality. The mill stands in six-high design will be equipped with slim work rolls permitting high pass reductions to be achieved. Rolling will take place at a maximum rolling speed of 1,400 meters per minute. The CCM[®] will be provided with one pay-off and two reversing reels, so the finished coils can be removed from entry or exit side as needed. The reversing reels will be designed to wind up finished strips to coils with a maximum weight of 30 tons. Further, both reels will be equipped with belt wrappers for easy coiling of thin strips onto sleeves. Work and intermediate roll changes will be performed automatically.

SMS group is to supply the entire electrical equipment and the automation including level 1 and 2. Adaptive physical models, e.g. for the description of plastic yielding, roll gap and roll setting, are a precondition for the optimum roll pass schedule as well as the ideal presetting of process parameters for thickness, tension und flatness control. This makes the plant react very flexibly to changes in the rolling process and helps achieve reliably the demanded product quality. Excellent flatness results are ensured by the X-Shape flatness measurement and control system. Part of the supply scope will be one SMS group flatness measurement roll each on the entry and exit sides. These rolls are characterized by their robust design and, at the same time, by highly precise measurement accuracy and trouble-free optical signal transmission.

Also included in the supply will be fluid and media systems like high- and low-pressure hydraulics as well as the emulsion plant, consisting of roll cooling with selective spraying system as well as roll gap lubrication with separate spray bar. Further, the rolling mill will be equipped with entry- and exit-side strip blow-off systems for highly efficient coolant removal.

Production start is scheduled for autumn 2018.

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Since June 2017, Hoa Sen Group has been operating in Vinh City in Central Vietnam the first CCM[®] by Esmech Equipment Pvt. Ltd.. It is the technical model for the new mill. Commissioning of the second CCM[®], also supplied by Esmech, followed shortly thereafter in September 2017.

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.