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**PRESS RELEASE**

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Continued trust

**Hoa Sen Group, Vietnam, orders twin-stand cold rolling mill from SMS group**

Hoa Sen Group is building a new cold rolling mill complex at Vinh City, Nghe An Province in Central Vietnam, to expand their production capacity. For this project, Hoa Sen Group has placed an order with Esmech Equipment Pvt. Ltd., an Indian joint venture company of SMS group, for the supply of a twin-stand reversing cold mill (CCM®).

With this order, Hoa Sen Group is confirming their trust in plant technology from SMS group ([www.sms-group.com](http://www.sms-group.com)). Esmech had earlier supplied a six-high CVC® plus (Continuously Variable Crown) reversing cold mill to Hoa Sen, which has been in operation since 2015 in their plant at Phu My in South Vietnam. SMS group in Germany will provide the core technological components of the rolling mill. The total supply scope also includes an extensive X-Pact® electrical and automation package. The CCM® will be equipped with the advanced X-Shape flatness measurement and control system, level-2 automation, a system for automatic flatness control, and adaptive physical models for pass schedule calculation.

The CCM® will be designed for low-carbon steel strips with a maximum width of 1,250 millimeters and minimum final gages down

to 0.11 millimeters, at an annual production capacity of up to 400,000 tons. In combination with other proven rolling technologies, SMS group's CVCplus® technology will ensure strip production in premium quality. The six-high mill stands will be equipped with small-diameter work rolls allowing high reductions per pass. Rolling will take place at rolling speeds of up to 1,400 meters per minute. The CCM® will come with one pay-off and two reversing reels, allowing the finished coils to be removed at the entry or exit side as needed. The reversing reels will be designed to produce finished strip coils of up to 27 tons. Both tension reels will be equipped with belt wrappers for careful coiling of thin-gage strips onto the sleeves. Work and intermediate roll changing will take place automatically.

SMS group will supply the complete electrics and automation systems including levels 1 and 2. Adaptive models based on physical data, for example for providing descriptions of the strip shape, roll gap and roll setting, form the basis for optimized pass schedule designing and ideal process parameter input for the thickness, tension and flatness control systems. This enables the mill to react extremely flexibly to any changes in the rolling process and reliably achieve the required product quality. The X-Shape flatness measurement and control system ensures excellent flatness results. SMS group will supply two X-Shape flatness measuring rolls, one for the entry and one for the exit side. These measuring rolls are characterized by a very sturdy design, excellent measuring precision and failure-free signal transmission.

Also included in the supply are fluid and media systems, such as high and low-pressure hydraulics and the emulsion plant, which comprises a selective spraying system for roll cooling and a separate spray header for roll gap lubrication. The mill will also be equipped with COANDA nozzles at the mill entry and exit, which will ensure most efficient removal of coolant.

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A similar twin-stand cold rolling mill from SMS group.

The SMS group is a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. Its 14,000 employees generate sales of over EUR 3.3 bn.