

Siemens VAI wins order for continuous slab caster from JSW Steel

Leading Indian steelmaker goes for DynaGap Soft Reduction technology again

Siemens VAI Metals Technologies has won an order from leading steel producer Jindal South West Steel Ltd. (JSW Steel) for a new continuous slab caster for its steel works in Toranagallu, Karnataka State, India.

The new casting plant will be equipped with DynaGap Soft Reduction. This solution enables the taper and thickness to be controlled automatically at every point of the strand guiding system to create the basic conditions for high internal slab quality. The continuous slab caster will have an annual production capacity of 1.4 million tons and is to be commissioned in the middle of 2013.

The new continuous slab caster for the JSW Steel Works in Toranagallu will be able to cast slabs with thicknesses between 220 and 260 millimeters, and widths between 800 and 1,600 millimeters. It will produce carbon steel, micro and low-alloy, as well as HSLA (high-strength low-alloy) steels, which will be further processed into sheets, strips and pipes. The slab caster equipped with DynaGap Soft Reduction will enable the casting of slabs from high-quality, line-pipe steel grades – such as X65 according to the API (American Petroleum Institute) standard and other micro-alloyed steels.

The design and equipment of the new continuous slab caster no. 4 are similar to those of caster no. 3, thus simplifying operation, maintenance and spare part stocking. Smart Segments are used to contain the strand. A number of technology packages ensure an optimal casting process, which produces slabs with both high surface and internal quality. The packages include the Mold Expert breakout detection system, the LevCon mold level control, the DynaFlex mold oscillator, and the VAI-Q inline quality assurance system.

JSW Steel is currently operating three continuous slab casters in steel works no. 1 in Toranagallu. Casters nos. 1 and 2 have been in production since 1999, and Siemens recently retrofitted them with mold level control and breakout prediction systems. Caster no. 3 has been equipped with the latest equipment since it went into operation at the end of 2006, and since modernization in 2009 was the first plant in India to be equipped with DynaGap Soft Reduction. The new continuous slab caster will increase the casting capacity of steel works 1 in Toranagallu to around 4.2 million tons of slabs per annum. The

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construction of the fourth casting plant is part of JSW Steel's broad-range expansion project.

Further information about solutions for steel works, rolling mills and processing lines is available at <http://www.siemens.com/metals>

A photo supplements this press release. Please see:
<http://www.siemens.com/mt-picture/IMT201112381>

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The **Metals Technologies Business Unit** (Linz, Austria), part of the Siemens Industry Sector, is one of the world's leading suppliers of plant construction and engineering in the iron and steel industry as well as in the flat rolling segment of the aluminum industry. The Business Unit offers a comprehensive product and service portfolio for metallurgical plants and equipment as well as integrated automation and environmental solutions covering the entire lifecycle of plants. For more information, visit www.siemens.com/metals.

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