

PRESS RELEASE

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Continuous caster successfully started in Japan

Tokyo Steel grants acceptance for SMS Siemag-supplied slab caster

Just four months after the first cast of the two-strand slab caster and following the successful conclusion of all performance tests, Tokyo Steel Mfg. Co. Ltd., Tahara, Japan, granted SMS Siemag, Germany, its acceptance.

The vertical-bending caster with 16 segments and a metallurgical length of 35 m is designed for a maximum casting speed of 2.2 m/min and an annual production of 2.4 million t of steel slabs. The new continuous caster will produce high-quality slabs primarily for utilization in automotive manufacturing.

SMS Siemag's supply scope consisted of the Basic and Detail Engineering, all mechanical core components and the entire X-Pact[®] electrical equipment and automation system. Training of the customer personnel and the supervision of erection and commissioning were also included in the scope of SMS Siemag's services.

The equipment of the caster includes several Intelligent Slab Casting (ISC[®]) modules which determine quality and production.

The hydraulically operated resonance oscillator and the remote-controlled mold narrow faces for width change during casting allow the casting width to be altered as required between 800 and 1,625 mm during operation.

Dynamic Soft Reduction and the variable Spot Cooling as well as the width-dependent air-mist secondary cooling system and the technological process model Dynamic Solidification Control ensure the production of slabs with a high inner quality.

The roller table in the exit section of the two-strand slab caster allows conventional cooling in the slab store or a direct transfer to the rolling mill. The surface quality of the slabs increasingly allows direct charging, which also saves energy for reheating.

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