

PRESSE-INFORMATION

Düsseldorf, July 8, 2010

The fourth continuous slab caster supplied by SMS Siemag is successfully commissioned at Salzgitter Flachstahl

SMS Siemag, Germany, has successfully commissioned the fourth X-Cast[®] continuous slab caster for Salzgitter Flachstahl GmbH (SZFG), Germany.

The single-strand caster, in circular-arc design, produces slabs in widths ranging from 1,100 to 2,600 mm and in thicknesses of 250 and 350 mm. The slab dimension of 350 x 2,600 mm currently represents the largest section size for continuous casters in Central Europe.

SMS Siemag's order scope comprised the basic and detail engineering, the supply of all mechanical components and the complete X-Pact[®] electrical and automation systems, including the technological control systems and process models. In addition, the supply scope included the solid structures and structural steelwork, a new water supply and treatment system as well as the erection, commissioning and supervision.

Salzgitter Flachstahl uses the caster for the production of highly demanding micro-alloyed steels, heavy-plate grades and sour gas-resistant tube and pipe grades according to the API-5L and HIC standards. SZFG is increasing its steelworks capacity by means of the new continuous caster with slab thicknesses of 250 and 350 mm.

In particular the 350 mm thickness option makes it possible to provide slabs for heavy-plate production in a hitherto completely new range of dimensions that are most attractive for future requirements. The equipment of the caster includes several Intelligent Slab Casting (ISC[®]) modules which determine quality and production. Among these are the hydraulically driven resonance oscillation system, remote-controlled mold narrow faces for width change during casting and the position-controlled CYBERLINK segments for performing Dynamic Soft Reduction. The production of slabs of a high internal quality is thus guaranteed through the above in combination with the width-dependent air-mist secondary cooling system and the technological Dynamic Solidification Control process model.

Also, in order to cast steel grades with critical crack susceptibility on the continuous caster in a reliable and productive manner, the machine has been designed as a circular-arc caster with a constant radius of 11.5 m. This design minimizes the stresses in the strand shell and enables excellent surface quality.

The three existing continuous casters SGA 1 to 3 at Salzgitter Flachstahl have also been supplied and put into operation by SMS Siemag.

X-Cast[®] is an SMS Siemag trademark from the Continuous Casting Division. It is the brand name for plants that set standards for the economical production of high-quality slabs.

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