



## Danieli Commissions Revamped Slab Caster

In a period of just 17 months Danieli designed, built, installed and commissioned revamped equipment. The plant is designed to produce special steel grades (such as carbon - manganese HIC-S355, chrome molybdenum grades boiler construction A387, HLE grades, as well as stainless steel grades - austenitic 304 - 316 - duplex steels) up to 355 mm thickness and 2.200 mm width.

The main components are a mold equipped for casting 355 x 2,200 mm slab sizes, a segment 0, the modified segments of the existing caster, including the supply of all related clamping cylinders, and three horizontal withdrawal segments.

In addition to above, Danieli supplied the new segment support frames and removal guides for the new segments, as well as the whole hydraulic system for segment 1 to 12.

The complete dismantling and



construction activities were performed by a Danieli Engineering team within the four-week shut-down period agreed with the customer.

In terms of technological packages for slab caster, the following improvements developed by Danieli Automation have been provided:

> Q-CORE and Q-PULSE - dynamic soft reduction hydraulically controlled via position transducer;

> Q-COOL - high-efficiency strand temperature control.

This revamping project has allowed AM Industeel to increase its production capacity and broaden its production range to include larger sizes (up to 355-mm thickness and 2,200-mm width), and to enhance its product quality thanks to the newly installed soft reduction system.

After the successful start-up and on-time completion of the industrial commissioning, both AM Industeel and Danieli are looking forward to casting the first 355-mm stainless steel slab, which will be the thickest stainless steel slab in the world.



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E-mail : circulation@steelworld.com Web : www.steelworld.com