

German company Kocks, together with AIC and Morgårdshammar, has been awarded to revamp the SeAH plant in Changwon (South Korea)

SEAH CHANGWON INTEGRATED SPECIAL STEEL CORP. contracted FRIEDRICH KOCKS GmbH & Co KG, Morgårdshammar AB and AIC for a modernization project at its steel plant in Changwon, continuing decades of successful partnership with the Korean special steel producer.

The SeAH group acquired SEAH CHANGWON INTEGRATED SPECIAL STEEL CORP. (formerly known as POSCO Specialty Steel and Sammy Steel) in March 2015.

The company became Korea's only domestic producer of stainless steel rods and wires made from high-quality special steel materials. With an annual production capacity reaching 1.2 million tons of steel making and 1.0 million tons of steel products, SeAH CSS belongs to the global top ten of special steel manufacturers.

The existing KOCKS blocks – Precision Sizing Block (PSB) and 370/10 Pre-finishing Block will be replaced by two 2-high HV stands, three Looper, a Crob & Cobble Shear and a 370++ RSB SCS®.

The RSB SCS® is the latest milestone in reducing and sizing technology for SBQ products and offers SeAH CSS enhanced bar and wire quality, improved productivity, mill availability and economy as well as a simplified, safe and environmentally friendly operation.

At the core of the future-oriented RSB SCS® is the real-time closed-loop control system SCS® (Size Control System) acting in combination with 3-roll stands adjustable under load (AUL) and / or tension control. The SCS® operation is supported by a new innovative bar gauge called "4D Eagle" based on the light section principle and featuring the highest measuring frequency available in the industry.

These features remarkably further improve the rolled tolerances and their reproducibility and, at the same time, simplify the operation by means of an automated optimization of the process parameters for the rolled bars and wire rods either by roll gap adjustment or control of the tension between the stands.

RSB SCS® is designed for the production of steel bar and rod in coils with a finished size range from 16.0 to 100.0 mm Ø and any pre-sections for the wire mill with a size range from 5.5 to 16.0 mm diameter at a maximum rolling speed of 15 m / s.

Automazioni Industriali Capitanio srl will design and manufacture the electrical & automation equipment for both new Kocks RSB SCS® and new Morgårdshammar Stands and Shear, providing state of the art power control panels as well as new PLCs cabinet and AC motors.

The electrical scope of supply will include n°2 power control switchboards based on Siemens Sinamics S120 motor modules with fully regenerative DC Bus supplier (Active Front End), suited to drive new Siemens AC Motors sized according to the mechanical equipment designed by the partners of consortium.

AIC will be also in charge to manufacture n°1 Auxiliary AC Drives panel as well as a new PLC cabinet and control desks; the complete engineering for the whole electrical portion and PLC software development based on Siemens S7 platform will complete the supply of the Italian company.

AIC Automazioni Industriali Capitanio sites:

- Italy (Headquarters & Workshop)
- United States of America (Sales & Service)
- India (Sales & Service)



The signature of the agreement in Changwon plant

AIC is a global system integrator providing advanced and tailored automation solutions for the steel industry, with the aim to continuously improve both efficiency, competitiveness and safety of the production processes. With more than 800 applications worldwide and 40 years of history, AIC can boost an unique experience in both greenfield and revamping projects in long products rolling mills and continuous casting machines.

KOCKS is an independent, medium-sized family-owned company with a great tradition. Since 1946, the name Kocks has stood for innovation, quality and reliability. The company has conquered the technology and market leadership of mechanical equipment in special rolling mill fields by decisive unique selling points and a serious, long-term oriented company management

Morgårdshammar AB is a Swedish Company providing unique know how for engineering and service of long product rolling mills and guide systems since the middle of the 1800's.

SeAH Changwon Integrated Special Steel is Korea's only domestic producer of stainless steel rods and wires made from high-quality special steel materials. Stainless production runs the gamut of industries from automotive, energy, and machine, to shipbuilding and plant production.

This press release is available at

- <http://www.aicnet.it/rassegna-stampa/>

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