

PRESS RELEASE

Düsseldorf, April 24, 2014

Order for SMS Siemag from China

Angang orders hot-dip galvanizing line from SMS Siemag

Angang (Angang Steel Company), China, has placed an order with SMS Siemag (www.sms-siemag.com), Germany, for the supply of a continuous hot-dip galvanizing line. The line, designed to galvanize 450,000 tons per year of steel strip, will be installed in a new plant near the city of Guangzhou in the province of Guandong. Starting in the second half of 2015, the plant will produce mainly deep-drawing grades and high-strength steels, including modern dual-phase steels, for the automotive industry. Aside from structural components, also premium-surface strips for exposed vehicle parts will be made.

In addition to the design of the complete mechanical equipment and the manufacture of the core machines, the scope of supply also includes the supervision of installation and commissioning as well as the coordination of all key subcontractors. SMS Siemag will also supply all the electrical and automation systems.

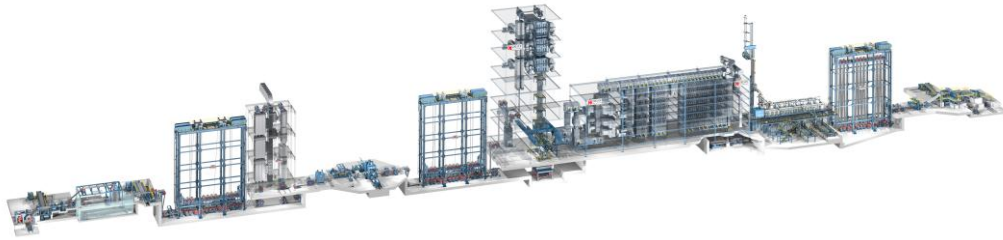
The line will be designed for strips in thicknesses ranging between 0.4 and 2.5 millimeters and widths between 800 and 1,880 millimeters. In the process section, the strip will be galvanized at a process speed of 160 m/min, while in the entry and exit sections speeds of up to 220 m/min will be attained. The steel grades to be processed will be CQ, DQ, DDQ, EDDQ, HS and DP. The strips will be galvanized and galvanized.

In the line, the cold-rolled strip will first be annealed and objectively cooled to achieve the desired material properties. By hot-dip galvanizing, the strip receives durable corrosion protection and an attractive appearance and becomes more resistant to mechanical loading.

To achieve high cooling rates, DREVER International will install a vertical radiant tube furnace. The furnace will have an oxidation chamber to increase the wettability of steel grades with high manganese and silicon contents through objective oxidation and subsequent reduction. Furthermore, a high-quality air-knife system from DUMA-BANDZINK will be integrated. Modern features such as a patented radial regulating device, an automatic lip cleaner and a width adjustment system for the air knife will achieve high-grade surfaces. DREVER International and DUMA-BANDZINK are both companies of the SMS group.

Essential components of the hot-dip galvanizing line include the entry section with two uncoilers, the entry accumulator, cleaning section, the DREVER radiant tube annealing furnace with oxidation chamber, two zinc pots, the DUMA-BANDZINK air-knife system, the galvannealing furnace, cooling section, intermediate accumulator, skin-pass mill, tension leveler, roll-coater with a drying and cooling system from DREVER, the exit accumulator, side trimmer with scrap chopper, inspection station, DUMA-BANDZINK oiling machine, flying shear and tension reel.

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Layout of the hot-dip galvanizing line from Angang.

Starting in the second half of 2015, the new hot-dip galvanizing line of Angang in Guangzhou will be able to produce 450,000 tons per year of high-quality galvanized cold-rolled strip for the automotive industry.