

Press release

ANDRITZ delivers new walking beam furnace for wire mill at Swiss Steel AG

Graz, December 13, 2017. International technology group ANDRITZ has received an order from Swiss Steel AG, Switzerland, for the supply, installation, and startup of a new walking beam furnace with an output of 150 t/h for heating the continuous-cast billets at the Emmenbrücke plant, Switzerland. Start-up is scheduled for the fourth quarter of 2019.

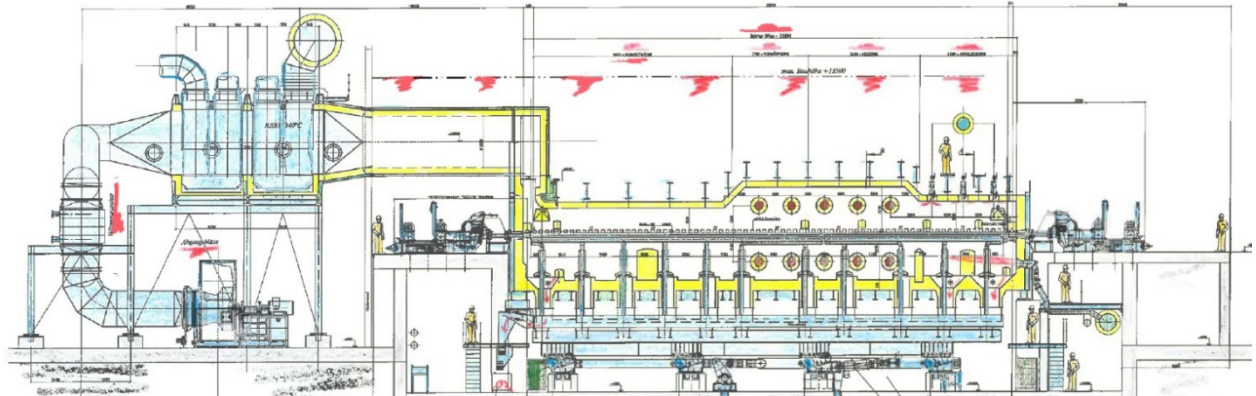
The turnkey furnace plant delivered by ANDRITZ Maerz, headquartered in Düsseldorf, essentially comprises the refractory lining, the transport system, the inlet and discharge machinery, the combustion plant, and the I&C equipment, as well as the mathematical furnace model to optimize the various thermal furnace operating modes. The furnace is preceded by a buffer bed with separating system as well as a feed conveyor with automatic billet identification and possible removal of faulty billets. The feed conveyor between the furnace and the rolling mill is also part of the scope of supply.

Billets of different dimensions and qualities are heated in the walking beam furnace and then rolled into wire of different gages in the rolling line. The heating technology was designed such that scaling and surface decarburization are as low as possible, heat consumption is kept to a minimum in spite of the need for high temperature uniformity, and the NOx and CO emissions are reduced to the maximum possible extent.

A complete cooling plant with an emergency cooling plant and a heat recovery system that make best use of the residual heat from the waste gas will be supplied to cool the transport system in the furnace. An additional filtering plant installed in the waste gas system reduces dust emissions to a minimum.

Swiss Steel AG is an affiliate of SCHMOLZ + BICKENBACH AG, Lucerne, which is one of the leading suppliers of long products made of special steel. In the European market for long products made of steel, Swiss Steel AG is one of the leading suppliers of high-grade steel, engineering steel, and free-cutting steel grades.

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▲ Project drawing of the walking beam furnace, showing the mechanical part and the related waste gas system

Press release and photo available for download

Press release and photo are available for download at <http://www.andritz.com/news>. The photo may be published free of charge if the source is stated: "Photo: ANDRITZ".

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The ANDRITZ GROUP

ANDRITZ is a globally leading supplier of plants, equipment, and services for hydropower stations, the pulp and paper industry, the metalworking and steel industries, and for solid/liquid separation in the municipal and industrial sectors as well as for animal feed and biomass pelleting. Other important business segments include automation and service business. In addition, the international Group is also active in the power generating sector (steam boiler plants, biomass boilers, recovery boilers, and gasification plants) and in environmental technology (flue gas cleaning plants) and offers equipment for the production of nonwovens, dissolving pulp, and panelboard as well as recycling plants. The publicly listed technology Group is headquartered in Graz, Austria, and has a staff of approximately 25,700 employees. ANDRITZ operates more than 250 sites in over 40 countries.

ANDRITZ METALS

ANDRITZ METALS is the technology and global market leader in metal forming technology through the Schuler Group, in which ANDRITZ has a stake of more than 95%. Schuler offers presses, automation solutions, dies, process know-how, and services for the entire metal working industry. Its customers include car manufacturers and their suppliers, as well as companies in the forging, household appliances, packaging, energy, and electrical industries. Schuler is also the market leader in coin minting technology and offers system solutions for the aerospace industry, rail transport, and manufacture of large-diameter pipes. In addition, ANDRITZ METALS is one of the leading global suppliers of complete lines for the production and processing of cold-rolled strip made of stainless steel, carbon steel, aluminum, and non-ferrous metal. The lines comprise equipment for pickling, cold rolling, heat treatment, surface finishing, strip coating and finishing, punching and deep drawing, and the regeneration of pickling acids. The business area also supplies turnkey furnace systems for the steel, copper, and aluminum industries, as well as welding systems for the metal working industry.