

Steeltec: High processing flexibility and individuality with ABP's induction heater.

Swiss group relies on ABP technology for steel processing

Steeltec from Emmenbrücke in Switzerland, a member of the Swiss Steel Group, is increasing its flexibility in steel processing: ABP's ESS induction heater for bars will be installed there this summer.

The ESS induction heating system, which ABP is installing for Steeltec, consists of six coils and has a length of eight meters. The system is equipped with an IGBT multi-converter, which features a total power of 5,400 kW. ABP's IGBT technology stands for highest efficiency. Its modular design and plug & play modules makes the customer extremely flexible. ABP's zone control makes it possible to change the temperature curve according to different parameters.

The induction bar heating system is ideal for a variety of processes, such as continuous bar heating or a batch operation. The ESS type enables easy temperature adjustment to be performed for different steel grades while optimizing axial and radial temperature distribution: Driven rollers convey the bars through the induction coils and heat them to rolling temperature. Conveying speed and heater output are continuously adjusted to suit the respective production conditions.

What is special about the ABP development is its focus on efficiency and sustainability: for instance, each zone can be regulated individually and the temperature profile can be adjusted accordingly. The ESS boasts low energy consumption, and the coil design relies on a robust construction and a specially developed copper profile for high electrical efficiency. THERMPROF® simulation software is also used to simulate and optimize the temperature curve. The ESS control system can be linked to a Level 2 control system for this purpose. As a result, automation potentials can be fully exploited. The ESS control system also offers a wide range of functions to optimally adapt the intermediate heating to the rolling process.

With the heating system from ABP, Steeltec is ideally positioned to live up to its own claim as a leading supplier of individual solutions in the area of stainless steel long products. The group is one of the leading manufacturers in the global market for both tool steel and stainless long steel and is one of the two largest companies in Europe for alloyed and high-alloyed engineering steel.

About ABP Induction Systems GmbH

ABP is a leading manufacturer of induction furnaces and systems for inductive melting and holding for the metal and metalworking industries. ABP is an expert in melting, pouring, holding and heating iron, steel and non-ferrous metals with design, production, assembly and services for foundries, forges and steelworks. The ABP Induction Systems Group with over 400 employees has companies in the USA, Mexico, Sweden, Germany, South Africa, Russia, India, Thailand and China. It is represented by service and sales partners in most of the world's industrialized countries.

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