GE Selected by BUMA to supply Electrical Equipment for thyssenkrupp Steel hot rolling mill

GE Power Conversion has been selected by the Austrian mechanical supplier BUMA engineering & Anlagenbau GmbH (BUMA) for the installation of electrical equipment for a new descaling spray at thyssenkrupp Steel Europe's hot rolling mill WBW2 in Duisburg, Germany.

The effective removal of scale during the hot rolling of steel is essential for high material quality. In the hydro-mechanical descaling, the scale layer, formed in the hot rolling process, is removed with a high-pressure water jet. The intensity (impact) of this process is an important indicator for the descaling performance, ensuring that the required surface quality is achieved using as little water as possible to keep the temperature loss as low as possible.

BUMA is developing and installing a new descaling plant for thyssenkrupp Steel Europe which will replace the existing descaler ZW2 directly upstream of the 7-stand finishing mill. With the new plant, descaling can be carried out with a 3-fold higher water pressure.

BUMA selected GE Power Conversion as the partner for the electrical equipment, due to our long-term business relationship and experiences with the end customers' (thyssenkrupp Steel Europe) installed base. The contract for GE Power Conversion has a volume of ~$3.6 million USD.

The project will be realized in four steps:

1. Electrical installation, starting February 2022
2. Delivery and installation of pump house equipment, May 2022
3. Functional test of pump house equipment, June/July 2022
4. Final installation and commissioning of descaler ZW2, August 2022

During hot rolling, the incoming rough strip in front of the finishing mill is automatically detected and automation failures resulting in errors and downtime are a risk. A standstill in production causes considerable costs due to loss of material and time. This can lead to material being devalued - and in the worst case - removed from the plant. The installation of the new descaling system by BUMA and GE Power Conversion will help to significantly mitigate these risks, as the new system will considerably improve the surface quality of the strip and the process stability of the plant.

"We are proud that we have won the order for the delivery of the electrical equipment for the new descaling plant for thyssenkrupp Steel Europe. We look forward to the new partnership with Buma engineering & Anlagenbau GmbH and to the technical challenges we will overcome with our expertise and know-how." Jörg Nuttelmann, General Manager, GE Power Conversion Germany.

About BUMA

Buma engineering & Anlagenbau GmbH has over 20 years of experience in the development of plants and is a competent partner in steel and special machine construction. The latest software and powerful hardware enable Buma to process projects quickly and efficiently. The company is supported by long-standing and experienced employees. These enable innovative solutions to be developed and projects to be implemented from the first ideas right through to commissioning. http://www.buma.at/

About GE Power Conversion

GE Power Conversion applies the science and systems of power conversion to help drive the electric transformation of the world's energy infrastructure. Designing and delivering advanced motor, drive and control technologies that evolve today's industrial processes for a cleaner, more productive future, it serves specialized sectors such as energy, marine, industry and all related services.
https://www.gepowerconversion.com/

About GE

GE (NYSE:GE) drives the world forward by tackling its biggest challenges. By combining world-class engineering with software and analytics, GE helps the world work more efficiently, reliably, and safely. For more than 125 years, GE has invented the future of industry, and today it leads new paradigms in additive manufacturing, materials science, and data analytics. GE people are global, diverse and dedicated, operating with the highest integrity and passion to fulfill GE's mission and deliver for our customers. www.ge.com

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