

PRESS RELEASE

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thyssenkrupp Steel Europe awards Order for the Revamping of Burner Technology in a Continuous Galvanizing Line to Tenova LOI Thermprocess

Essen, May 12, 2021 - **Tenova LOI Thermprocess**, a leading global company in the field of heat treatment plants, has received another order from **thyssenkrupp Steel Europe AG** (tkSE) for the revamping of burner technology at the continuous galvanizing line located in Bochum, Germany.

This modernization measure is an important cornerstone in enabling thyssenkrupp Steel to produce high-strength steels (AHSS) in Bochum in **the highest quality and with increased production capacity** for further use in the automotive industry. In order to meet market requirements and **reduce both emissions and energy consumption**, the furnace will be equipped with **new burners that meet even highest requirements by targeting the lowest possible NOx-emission levels** (lower than 140 mg/Nm³ (@3%O₂ reference)) during production. In addition, the heating system will be upgraded in order to increase the target strip temperatures to > 900°C.

For Tenova LOI Thermprocess, this is the third consecutive modernization order received for the continuous galvanizing line in Bochum, proving the company's **successful R&D development strategy**.

With an annual production capacity of 540,000 t of high quality galvanized steel it is one of the core production lines of thyssenkrupp Steel Europe for the production of car body parts and AHSS-steels.

The line was commissioned in 1992, and since 2014 major parts have been upgraded with the latest state-of-the-art technologies. In the first phase, the pre-heating and over-aging sections were modified to improve the annealing cycle in over-aging regarding larger heating capacity and improved temperature homogeneity. The energy recovery in the pre-heating section has nearly doubled and therefore **the carbon footprint of the line was significantly reduced**.

In 2017, a major step towards production of AHSS was realized through a substantial revamp of the fast cooling section. A new set of nozzle boxes, fans and heat exchangers were added to the existing equipment. The system is designed for highest heat transfer coefficients and lowest strip vibrations, even with enlarged strip length without roller support.

*"The modernization step that is now pending is important in order to meet our customers' upcoming requirements for hot-dip galvanised materials. We are also relying on Tenova LOI's experience and expertise in the field of burner technology for this project. The upgrade of our FBA7 is part of the modernization strategy at the Bochum site," explained **Dr. Carsten Groß**, team leader of FBA7 at thyssenkrupp Steel.*

*"Together with tkSE, we developed a well-defined modernization strategy with intense R&D effort in different steps", said **Sascha Bothen**, Head of Sales LOI Group. "This project proves that innovative revamping solutions can give an economic and technological benefit even for plants that have been in operation for a long time."*



Picture Tenova LOI Thermprocess: thyssenkrupp FBA7 in Bochum, Germany



Picture thyssenkrupp: plant in Bochum, Germany

About LOI Thermprocess GmbH

LOI Thermprocess GmbH is one of the leading companies in supplying industrial furnace systems for the heat treatment of metals. Worldwide clients from the steel, aluminum and automotive industries rely on the experience and technical solution competence of the traditional company representing the entire know-how in the field of material properties and secondary metallurgy. Tenova LOI Thermprocess is a brand of Tenova, a Techint Group company. www.loi.tenova.com

About Tenova

Tenova, a Techint Group company, is a worldwide partner for sustainable, innovative and reliable solutions in the metals and – through the well-known TAKRAF and DELKOR brands – in the mining industries. Tenova leverages a workforce of over 2,300 forward-thinking professionals located in 19 countries across 5 continents, who design technologies and develop services that help companies reduce costs, save energy, limit environmental impact and improve working conditions.

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