

PRESS RELEASE

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New TCF® Dual-Chamber Melting Furnace for Aluminum Scrap Recycling Replaces Two Old Plants at E-MAX Billets, Kerkrade, NL

Duisburg, December 12, 2022 – Tenova LOI Thermprocess, one of the leading companies in supplying industrial furnace systems for the heat treatment of metals, has successfully completed the production optimization of a new **Twin-Chamber Melting Furnace TCF®** at **E-Max Billets** in Kerkrade, **The Netherlands**. The furnace achieved the agreed performance parameters and is now the sole melting unit for higher contaminated scrap at the plant.

Tenova LOI Thermprocess was awarded a contract for the engineering, supply, erection and commissioning of another **Twin-Chamber Melting Furnace TCF®** (TFC) and a **Melting and Casting Furnace** (MCF) for the production upgrade and modernization of the customer's plant.

The previously operating two-chamber melting furnaces, which were supplied and installed also by Tenova LOI Thermprocess in 1990, were successively removed from current production and are now being demolished after 32 years of operation and 1,500,000 t of molten aluminum.

The new TCF® achieves a **daily output of 150 t of liquid aluminum**, reduces metal loss, and specific natural gas consumption per ton of molten aluminum by more than 20 percent.

Moreover, compared with former installations, the efficiency of the modern TCF® technology allows for the **treatment of higher contaminated scraps**.

Regarding the remaining scope of work of the contract, the tiltable MCF will also be operating starting in spring 2023. As a new technology, this MCF can melt scraps with light contaminations of organics in a single furnace chamber. Special processing **ensures less metal loss and safe integrated post-combustion, thereby reducing overall emissions**, granting a sustainable and economic production of liquid aluminum.

About LOI Thermprocess GmbH

Tenova LOI Thermprocess GmbH is one of the leading companies in supplying industrial furnace systems for the heat treatment and melting of metals. Clients all over the world 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 trademark 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 – also through the well-known TAKRAF and DELKOR brands – in the mining industries. Tenova leverages a workforce of over 2,200 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.

For more information, visit www.tenova.com