

PRESS RELEASE

HOYER Group develops the latest generation of titanium tanks

Engineers create innovative material concept

Hamburg, 26 January 2021

Under contract to a major chemical industry customer, HOYER Group engineers pooled their specialist knowledge and developed a new generation of titanium tank containers for highly corrosive dangerous goods. After two years of intensive development work and construction time, two units will be brought into operation in January 2021. The project team made a successful breakthrough by attaching the steel frame to the titanium tank; the ingenious heating system is another achievement.

As a logistics solutions provider with experts in various disciplines in its own ranks, including engineers and chemists, and with strong partners at its side worldwide, the HOYER Group accepts challenging problems brought to it by customers. For them, the company constantly develops the best possible logistics solutions, on which its role as an innovations leader in the market is based.

In order to guarantee the highest degree of quality, safety, reliability and sustainability, construction materials compatibility is always given top priority when developing tank containers for particular dangerous goods. The two new titanium tank containers were developed and built specifically to transport molten MCA (monochloroacetic acid). The HOYER Group leases the containers to a chemical industry customer with worldwide operations, for which it transports the highly corrosive product at elevated temperature. Because conventional rubberised or coated stainless steel tank containers do not withstand the product requirements and transport conditions, HOYER developed a customised solution made of titanium.

Hans Demarest, Engineering Director of the HOYER Group at its headquarter in Hamburg, says, "Corrosive dangerous goods are among the most challenging products from the logistics point of view. Managing the supply chain on the manufacturer's side, maintaining optimum transport conditions and delivery to the end customers on the haulier's side require special know-how and experience."

Attaching the titanium tank to the stainless steel frame was a challenge for the project team, because normally the two construction materials cannot be bonded together due to their properties. Together with well-known manufacturers, HOYER found a new way to successfully combine the tank bodies with the frame. Another key component is the specially-developed heating system with Ex approval, which ensures that the required cargo temperature is maintained until it is unloaded.

ABOUT THE HOYER GROUP

HOYER, a traditional independent family business, has been one of the world's leading bulk logistics providers since 1946. As a specialist, it has extensive know-how in the provision of complex services, and has special customer proximity. It develops and implements comprehensive solutions in European and worldwide bulk logistics, particularly in the chemical, food, gas and mineral oil industries. For this, about 6,100 employees in more than 115 countries support clients with well-thought-out logistics solutions to make them even more successful in their respective markets. HOYER owns around 2,200 trucks, 2,200 road tankers, 50,100 IBCs, 40,800 tank containers and numerous logistics installations with depots, cleaning plants and workshops.

PRESS CONTACT HOYER GROUP

HOYER GmbH Internationale Fachspedition
Andrea Schwabe
Wendenstrasse 414-424
20537 Hamburg | Germany
Tel.: +49 40 21044 359
Fax: +49 40 21044 455
presse@hoyer-group.com
www.hoyer-group.com

Like all the HOYER Group's newly-built tank containers, the two new acquisitions are also equipped with Smart Technology.

Titanium is not only resistant to corrosive products. Its durability is another of the metal's positive aspects. "In HOYER, we already included the first titanium tank containers into our fleet 30 years ago. The three units from the early days are still in use up to the present time." This also justifies their considerably higher procurement price.

For this project, HOYER Group worked hand-in-hand with an external tank container manufacturer and a renowned producer of titanium vessels. Their long years of experience and extensive know-how contributed to the development of an optimum solution. HOYER's project team prepared the tank container specifications, controlled the entire production operation from planning to delivery, and accompanied and were responsible for continuous quality assurance. Its experts are also the first point of contact for technical advice.