

Press information

Liebherr heavy-duty crane loads monopiles

- **First project for the TCC 78000 heavy-duty crane successfully completed**
- **The interest in the handling service with the TCC 78000 grows beyond the borders of Rostock, Germany**
- **Heavy-duty crane TCC 78000 has already completed a follow-up order for the Rostock based company Krebs Korrosionsschutz**

Successful project completion: The new TCC 78000 heavy-duty gantry crane from Liebherr-MCCtec Rostock GmbH loaded 72 foundation piles for Denmark's largest wind farm between May and September 2020.

Rostock (Germany) November 2020 - This was the first external loading for the Liebherr TCC 78000 heavy-duty gantry crane, commissioned by EEW Special Pipe Constructions GmbH in cooperation with Vattenfall. Since 2008, the Rostock-based company EEW SPC has been a pioneer in the production of monopiles, which serve as foundation piles for offshore wind turbines. With the production of more than 1,900 monopile foundation piles, the offshore wind specialist has become the market leader for the production of this type of foundation.

Successful completion of the loading activities

Due to the flexible operating periods of the TCC 78000, the 72 monopiles were loaded using the new rail-mounted gantry crane. Delivery of the monopiles to the construction site had to be carried out just in time. This means that the assembly cycle of the installation ship 'Svanen' on the high seas set the pace for the loading in Rostock. *"We are pleased about the successful completion of the loading activities of the monopiles for the Baltic Sea wind farm Danish Kriegers Flak. In Liebherr we have a strong and reliable partner at our side and are convinced that we will continue to move great things together in the Rostock seaport in the future,"* says Heiko Mützelburg, Managing Director of EEW Special Pipe Constructions GmbH.

Loading the monopiles was not an everyday job even for the experienced heavy lift team of the TCC 78000. This was because the pipes were loaded directly into the water at berth 15

in Rostock's overseas port and then towed by two tugs to the wind farm construction site. The floatability required for this was produced on a specially provided 7,640m² area, the so-called Plug Installation Area (PIA), on the Liebherr site. The two open sides of the tube are sealed with specially manufactured sealing caps, so-called plugs. The company Van Oord Offshore Wind Germany GmbH carried out the plug installation. Van Oord is also responsible for the construction of the wind farm on the site.

Afterwards, the sealed, now floatable monopiles were transported to the berth and loaded into the water with the TCC 78000 over the quay wall. The slinging of the load on the TCC 78000 was carried out with the professional support of Liebherr employees, in the form of instructors and crane drivers under the supervision of the Liebherr Lifting Supervisor. The slightly conical monopile construction and the centre of gravity shifted in the longitudinal direction by the plug weights require exact planning as well as a precise sense of proportion and a lot of experience of the team. Despite the highest safety precautions, it sometimes takes only 60 minutes from the moment the monopile is attached until the load weighing hundreds of tons floats in the water. Afterwards a deep-sea tug pulls the floating monopiles about 70 nautical miles in the direction of "Kriegers Flak". In total, two sea tugs were in constant rotation.

EEW SPC GmbH, based in the Rostock overseas port, is the first cooperation partner to use the TCC 78000 and its experienced staff for cargo handling. However, interest in the TCC 78000 is also growing beyond Rostock's borders: *"The lifting capacity of the gantry crane in conjunction with the optimum conditions for heavy-duty handling at our location is in demand. We are also increasingly handling supra-regional and international customer enquiries,"* says Udo Wosar, Head of Heavy Lift Management at Liebherr-MCCtec Rostock GmbH.

Follow-up order from the Krebs Group

At the beginning of October, the Heavy Lift Team around the TCC 78000 was able to book its second external order. A steel construction weighing 260 tons was lifted from a ship onto a barge for the company Krebs Korrosionsschutz, also based in the Rostock overseas port.

Video

<https://www.youtube.com/watch?v=GpN6UaXmUzE>

Pictures



liebherr-TCC-78000-monopile.jpg

Almost cautiously, the TCC 78000 lays one of 72 monopiles, each weighing about 800 tons, into the Rostock harbour basin.



liebherr-tcc-78000-heavy-lift-rostock-germany-1.jpg

The second order for the TCC 78000: For the Krebs Company, a stinger weighing 260 tons was lifted from a ship onto a barge.

Website

<https://www.liebherr.com/en/deu/products/maritime-cranes/heavy-lift-handling-in-rostock-germany-tcc-78000/tcc-78000.html>

About Liebherr-MCCtec Rostock GmbH

Liebherr-MCCtec Rostock GmbH is one of the leading European manufacturers of maritime cargo handling technology. The range includes ship, mobile harbour and offshore cranes. The product portfolio also includes reachstackers and components for container cranes.

About the Liebherr Group

The Liebherr Group comprises over 140 companies on all continents and employs more than 48,000 people. In 2019 Liebherr generated a consolidated total turnover of over 11.75 billion euros. As a globally positioned, family-run technology company, the Liebherr Group is not only one of the largest manufacturers of construction machinery in the world, but is also recognised in many other areas as a provider of technically sophisticated, benefit-oriented products and services. Liebherr was founded in 1949 in Kirchdorf an der Iller in southern Germany.

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