

Press release

Liebherr's Ram Luffing cranes for German Baltic Sea coast

- Three Liebherr Ram Luffing 900 cranes are being prepared for 50Hertz Offshore substations in the Baltic Sea
- The cranes are equipped with the fully digital LiMain maintenance system, featuring remote maintenance capabilities and real-time condition monitoring
- The delivery of the cranes is planned within the year 2025

The Dutch-Belgian consortium HSI (HSM Offshore Energy, Smulders and Iv) has acquired three Liebherr Ram Luffing series (RL) cranes for 50Hertz Offshore Grid Connection projects. Two of the RL 900 cranes will be part of the platforms OSS Darß and OSS Zingst for the grid connection OST-6-1. An additional crane is planned for the Jasmund platform of the 50Hertz grid connection system Ostwind 3. All three platforms are currently under construction. The delivery of the equipment by Liebherr is scheduled for 2025 to the Dutch Construction sites. 50Hertz is the Transmission System Operator in the east and north-east of Germany.

Rostock (Germany), May 2025 – The energy transition is in full swing. According to the German government, the share of renewable energies in gross electricity consumption should increase to at least 80 per cent by 2030. Offshore wind power is expected to play a key role in the energy transition. The Ostwind 3 and OST-6-1 grid connection projects, which are progressing according to plan, will be supported by Liebherr's RL cranes in the future.

With the two platforms OSS Zingst and OSS Darß operated by 50Hertz and a total capacity for the OST-6-1-System of around 900 MW, this is currently the largest and most powerful offshore wind farm in the German Baltic Sea. Both platforms are under construction with HSI.

The cranes of the RL series are characterised by their weight-optimised and robust design, making them ideal for use on offshore platforms. The RL 900 convinces with a maximum lifting capacity of up to 30 tonnes and is primarily used for maintenance and supply work on platforms.

The OSS Jasmund, which is currently also under construction, is the third grid connection project of the Ostwind 3 project in the Baltic Sea. The offshore wind farm is located around 42 kilometres north-east of the island of Rügen off the German Baltic coast. The 25 square-kilometre wind farm area is expected to generate 300 megawatts of power in the future, enough to supply electricity for 260,000 households.

“We are proud to have an impact on the energy transition with our products and are aware that we are making a significant contribution to the success of our customers. We are therefore delighted that HSI has decided to realise this project together with Liebherr and that a locally produced product of the highest quality will be used off the Baltic coast of Mecklenburg-Vorpommern,” explains Stefan Schneider, Global Application Manager for General Purpose Offshore Cranes.

Optimal design enables reliable and flexible crane control

In addition to its compactness, the RL 900 from Liebherr impresses with other features. Its low construction height and small tail radius allow it to perform optimally even in confined spaces. The slewing column, as the base element of the crane, includes the main drive, the electronic control system, and the central hydraulic power pack. Liebherr’s combination of continuous research, favourable design, and customer experience sets the benchmark for today’s offshore industry.

Equipped with semi-automatic LiMain maintenance concept

The three RL 900 cranes will also be equipped with the LiMain maintenance concept. LiMain refers to the specially designed Liebherr maintenance system, which completely rethinks the approach to maintenance. Platform operators face challenges when it comes to maintaining their systems, which result from the prevailing environmental influences alone. The fully digital, remote-controlled, and semi-automated maintenance system enables increased autonomy for both manned and unmanned platforms. The benefits lie in a cost- and resource-saving solution that results in up to a 75 % reduction in mobilisation on unmanned platforms. As a product with modular system architecture, LiMain offers maximum flexibility to determine the degree of autonomy and the scope of intelligent maintenance.

With the delivery of three offshore cranes, Liebherr is actively contributing to the energy transition and, with LiMain, is also contributing to revolutionising offshore maintenance. This innovative approach supports the sustainable development of offshore wind farms and sets new standards for the future of intelligent maintenance in the maritime industry.

About 50Hertz Transmission GmbH

50Hertz operates the electricity transmission system in the north and east of Germany, which it expands as needed for the energy transition. Our extra high voltage grid has an electrical circuit length of more than 10,000 kilometres, or the distance between Berlin and Rio de Janeiro. The 50Hertz control area covers Brandenburg, Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt, and Thuringia, as well as the city states of Berlin and Hamburg. Within these regions, 50Hertz and its more than 2.100 employees ensure that 18 million people are supplied with electricity around the clock. 50Hertz is a forerunner in the field of secure integration of renewable energy. In our grid area, we want to integrate 100 per cent renewable energies securely into the grid and system by 2032 - calculated over the year. In this way, we supply affordable energy for a strong economy. The shareholders of 50Hertz are the Belgian holding Elia Group (80 per cent), which is listed on the stock exchange, and the KfW bank group with 20 per cent. As a European TSO, 50Hertz is a member of the European Network of Transmission System Operators for Electricity (ENTSO-E).

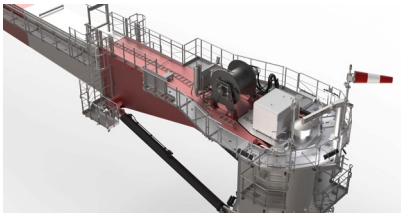
About Liebherr-Rostock GmbH

Liebherr-Rostock GmbH is one of the leading European manufacturers of maritime handling solutions. The product range includes ship, mobile harbour and offshore cranes. Components for container cranes are also included in the product portfolio.

About the Liebherr Group

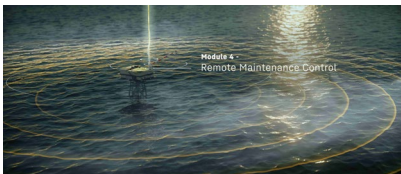
The Liebherr Group is a family-run technology company with a highly diversified product programme. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality, user-oriented products and services in a wide range of other areas. The Liebherr Group includes over 150 companies across all continents. In 2024, it employed more than 50,000 staff and achieved combined revenues of over 14 billion euros. Liebherr was founded by Hans Liebherr in 1949 in the southern German town of Kirchdorf an der Iller. Since then, the employees have been pursuing the goal of achieving continuous technological innovation, and bringing industry-leading solutions to its customers.

Images



liebherr-rl-900-crane-50hertz-1.jpg

The RL series cranes, known for their weight-optimised and robust design, are ideal for offshore platforms, with the RL 900 offering a maximum lifting capacity of 30 tonnes, primarily for maintenance and supply work.



liebherr-rl-900-crane-50hertz-2.jpg

LiMain empowers maintenance regardless of time or location. Platform operators have the flexibility to select from a range of modules, allowing them to customise the level of autonomy and the extent of intelligent maintenance for the crane.



liebherr-rl-900-crane-50hertz-3.jpg

The compactness of the RL series results in a reduced construction height and a small tail radius. The elimination of the machinery house allows the crane to operate in confined space conditions and environments.

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