

## DENZAI Introduces 2500-ton Crawler Crane

17 April 2024 - DENZAI K.K. (President and CEO: Kohki Uemura; Headquarters: Minato-ku, Tokyo; Head Office: Muroran City, Hokkaido) will introduce a 2500-ton crawler crane (LR12500-1.0) manufactured by Liebherr in Germany this year.

The LR12500 is a state-of-the-art crawler crane. With this introduction, DENZAI will be the first company owns LR12500 in Japan and APAC. It will be shipped from the plant in Germany in July 2024, and will start operation in October at S-OIL's Shaheen Project in Ulsan, South Korea. After that, we plan to operate it in Japan and overseas.



LR12500-1.0 (Photo; Liebherr)

### Background of 2500t Crane Introduction

As amount of electricity generated by offshore wind increases, the height and weight of offshore wind turbines are becoming larger and larger. The construction of even larger offshore wind turbines is expected to become impossible with the 1350-ton crawler crane, which is the largest crane we currently own. In the Round 1 and Round 2 offshore wind turbine construction projects currently underway in Japan, the weight of the towers will be different from the European specifications, and the Japanese specifications are expected to be even heavier.

In addition, the working radius of the cranes is expected to be larger than in Europe, because some Japanese ports have less strong wharves than those in Europe, and the cranes must be installed further away from the wharves.

Furthermore, if the nacelle weight exceeds 800 tons, it will be impossible to lift the nacelle at the far side of the vessel with a single 1350-ton crane, and we estimate that two 1350-ton cranes will be required. On the other hand, the LR12500 to be introduced this time can lift up to 951 tons with a working radius of 48m, thus satisfying the requirement with only one crane. The decision was made to install the crane to meet the height and weight requirements for offshore wind power in Round 1 and Round 2, and to assemble and construct offshore wind components with the crane for the floating offshore wind farm that is expected to follow.



(Photo; Liebherr)

**About DENZAI**

Since its foundation in Muroran, Hokkaido, in 1972, the DENZAI Group has been one of Japan's largest companies of engineered heavy lifting and specialized heavy transport. Our vision is to "become the world's premier company in heavy lift and specialized transportation engineering" with the purpose of "To respond to our client's needs to move "Big Things" with the best solutions". In 2020, the DENZAI Group welcomed Huatong Holdings, a leading Singaporean crane company, into the group. DENZAI currently has nine group companies in Japan. In addition to Singapore, DENZAI has offices in Taiwan, Bangladesh, Denmark, Vietnam, South Korea, India, UAE, Thailand, the Philippines, Saudi Arabia and the USA. The DENZAI Group continues to provide a one-stop solution [DENZAI SOLUTION] to meet evolving customer needs, and we will continue to contribute to the success of customers and actively work for the development of renewable energy through various initiatives, such as the expansion of offshore wind power generation business.

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