

Press Release

Wölfer wins large motor contract for offshore wind turbine installation vessels

German motor manufacturer Wölfer has won a large follow-up contract for various hoist applications on an offshore wind turbine installation vessel (WTIV) currently under construction. This is the second order from the same large international maritime engineering firm, with a third already in the books. The current order is for 45 motors with outputs up to 510 kW for various drive applications in the main hoist: main drive, boom, whip, slewing etc. Wölfer will supply all motors in marine design, many with brakes, encoders and various technologically demanding solutions. The WTIV market is expected to continue growing for years to come, with next-generation vessels to be equipped for larger wind turbines installed in deeper waters. Wölfer has set up its production to cater to this industry. In designing hoist motors for maritime applications, two sets of challenging requirements must be combined in order to achieve high-quality motors that ensure operator safety, overload capacity and efficiency over a long lifetime. Wölfer motors provide their rated performance over the full control range, thus ensuring full functionality of the entire system under harsh marine conditions.



Caption: Wölfer is completing a large motor order for various hoist applications on offshore wind turbine installation vessels

The rugged, steel-welded motor casings and dedicated rotor constructions are produced inhouse and the motors are fitted with a C5M surface finishing to

ensure full compliance with maritime and hoist requirements. Special features for the WTIV application include the innovative Altra caliper brake to realize extremely dynamic brake torques given the heavy payloads. Here, in contrast to existing solutions with enclosed brakes, the brake disk is mounted directly on the motor shaft and engaged by means of hydraulic shoe brakes. The motors are to comply with Det Norske Veritas (DNV) standards, which Wölfer will certify inhouse. The motor manufacturer performs all acceptance tests in its own state-of-the-art testing station: heat runs, vibration measurements, overload tests and no-load tests at full power. Tested standards and classifications include, but are not limited to, DIN EN 60034, UL – CSA, Bureau Veritas (BV), Lloyd's Register (LR), American Bureau of Shipping (ABS), Russian Maritime Register of Shipping (RMROS), China Classification Society (CCS), Korean Register of Shipping (KRS) and Nippon Kaiji Kyōkai (NK). With this global approach, Wölfer is excellently positioned as a reliable partner for the booming offshore renewable energy sector.

Image/s: woelfer_wind_vessel_hoist_motors

Characters: 2454

File name: 202110005_pm_woelfer_maritime_hoist_motors_en Date: 10-19-2021

About Wölfer

Franz Wölfer Elektromaschinenfabrik Osnabrück GmbH has been developing and manufacturing electric motors since 1945. The company based in Osnabrück, Germany, specializes on hoist motors and marine duty motors in the power range up to 2 MW and individually adapted drive solutions for customers worldwide. In its modern testing station, Wölfer performs checks according to numerous international standards including, but not limited to, DIN EN 60034, UL – CSA, Bureau Veritas (BV), Lloyd's Register (LR), American Bureau of Shipping (ABS), Russian Maritime Register of Shipping (RMROS), China Classification Society (CCS), Korean Register of Shipping (KRS) and Nippon Kaiji Kyōkai (NK).

Wölfer has been a member of the **Menzel Group** since 2019. Menzel Elektromotoren GmbH is a German manufacturer of large electric motors – induction motors up to 20 MW and DC motors up to 2 MW – and keeps an extensive stock ready for short-term customization for all kinds of industrial applications.

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