

# PRESS RELEASE

## ATLAS A-CLASS

NEW WTIV TAILORED FOR LARGE-SCALE WIND FARM INSTALLATIONS

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The latest addition to KNUD E. HANSEN's Atlas series of wind turbine installation vessels, the Atlas A-class is able to carry four new-generation 14 megawatt wind turbines and is tailored for cost-effective installation of large-scale wind farms.

The vessel is specifically dimensioned for transporting and assembling wind turbines on top of pre-installed foundations. This is predicated on the idea that growth in the offshore wind sector creates more opportunities for specialized vessels. The foundations, which are heavy but do not require jacking, can be efficiently installed from a heavy-lift vessel. As a result, the Atlas A-class can be entirely optimized for the jacking operation, with a 1600-2500 tons crane and minimal system weight for the jacking equipment.

In keeping with the philosophy of the Atlas series, the A-class design can be highly customized by selecting cranes, thrusters, generators and jacking systems according to the specific requirements of the client, as well as availability from the manufacturers. This offers important competitive advantages over less flexible, off-the-shelf designs.

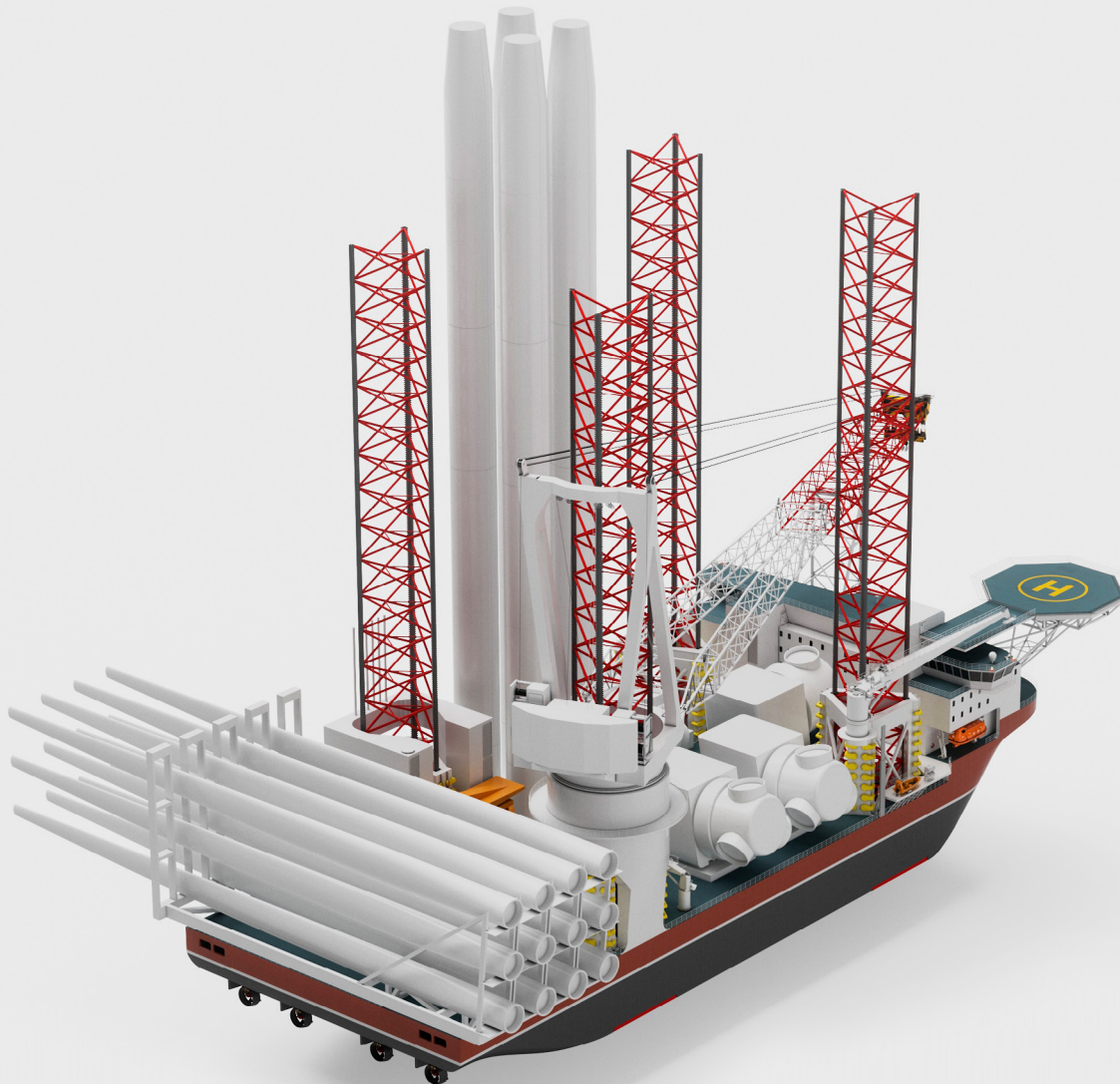
The powering of the vessel is provided by eight generators connected to a DC grid and a battery pack, allowing the engines to run at variable speed for fuel efficiency while also utilizing load leveling and peak shaving. The batteries not only provide instant power, avoiding unnecessary spinning reserve power from the generators, but also make it possible to recover approximately 60% of the energy used for jacking, ►

when the jacking units are reversed on the way down. Furthermore, the high-speed electrical rack-and-pinion jacking system is designed for 5,000 load cycles, ensuring that the legs and components will withstand wear throughout the life of the vessel, avoiding costly and resource-heavy replacements along the way.

The main deck of the accommodation block includes an operations center consisting of offices and meeting rooms as well as a hospital, day room, TV room, change room, and workshop. Above this is a large galley with spacious mess as well as ample provision rooms.

The three decks above include a total of 114 cabins for contractors, crew and officers. The top deck consists of a bridge with center and wing consoles and a large helicopter deck. Below the main deck is a gymnasium, cinema, TV room, games room, and sauna as well as a laundry room and store rooms.

The ATLAS A-Class has been developed completely in-house, by the experienced staff of naval architects, mechanical engineers and designers at KNUD E. HANSEN who place the utmost importance on safety, efficiency and design ingenuity and have been doing so for over 80 years.







## MAIN PARTICULARS

Length Overall (excluding helideck)	155,40 m
Breadth moulded	57,40 m
Depth to Main Deck	12,50 m
Draught, moulded @ 14,000 t deadweight	6,50 m
Speed @ 6.20 m draught incl. 10% s.m.	12 kts

## FOR MORE INFORMATION, PLEASE CONTACT

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## ABOUT KNUD E. HANSEN

KNUD E. HANSEN is one of the world's leading independent marine consultancies with more than 80 years of experience in ship design, with a proven track record in providing unique and cutting-edge solutions to the maritime industry. KNUD E. HANSEN employs about 100 naval architects and mechanical engineers in Denmark, Australia, Canada, the Faroe Islands Greece, Spain, United Kingdom and USA.

Our approach is based on a combination of continuous innovation, the free exchange of ideas with our clients, and experience derived from many years spent working with every kind of vessel and maritime operator. Using these, we apply fresh thinking to each new project and tailor solutions that are both state-of-the-art and practical to meet the exact needs of each individual customer.

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