VIND1 will be amongst the largest selfpropelled jack-up installation vessels in the world.

Designed specifically to transport and install the next generations of offshore wind turbines and XL monopile foundations, to the highest environmental standards.

The vessel will be capable of installing wind turbine components in water depths of 65m, to a height of up to 182m above the sea and will feature a telescopic leg-encircling crane with a maximum lifting capacity of 2,500t in retracted mode and 1,600t in extended mode.

The vessel will be equipped with well-balanced DP2 capability and VSD driven jacking systems, providing a controlled ramp-up/rampdown, speed and torque control, for frequent, fast and secure jacking operations.

Special emphasis has been placed on providing a classleading environmental footprint by way of energy and heat recovery, battery hybrid solutions as well as a sophisticated electrical and control system, reducing CO₂ emissions by 20% compared to similar units. The vessel will be prepared for hydrogen fuel cells which will cut emissions even further when such technology becomes available.

VIND1 will be delivered Q2 2023.
MAIN CHARACTERISTICS

Hull length: 142.0m
Hull width: 50.0m
Hull depth: 11.0m
Draft (max.): 6.5m
Dynamic positioning: DP2
Accommodation: 130 persons
Helideck: suitable for Sikorsky S92/S61 (12.8t - 22.2m)
Variable load (max.): 9,800t
Deck load capacity main deck: 10t/m²
Free deck space (approx.): 4,600m²
Leg length under hull (max.): 84m
Leg type: x4 triangular open truss
Overall length: 109m
Spud can area (approx.): OR ≈ 160m²
Water depth: > 65m

MAIN CRANE

Type: GLTC-2500/1600-ED telescopic truss boom
Location: Starboard aft leg

Retracted mode:
Lifting capacity (max.): 2,500t
Lifting height above deck (max.): 116.5m (at 30m radius)
Lifting height above LAT (max.): 142.5m (with 15m air gap) (at 30m radius)

Extended mode:
Lifting capacity (max.): 1,600t
Lifting height above deck (max.): 155.4m (at 38.5m radius)
Lifting height above LAT (max.): 182m (with 15m air gap) (at 38.5m radius)

Auxiliary hoist:
Lifting capacity (max.): 250t
Lifting height above deck (max.): 166m (at 26.6m radius)

AUXILIARY CRANES

Type: Pedestal mounted knuckle boom
Crane capacity: 20t at 35m radius
15t at 40m radius
Type: Pedestal mounted telescopic boom
Crane capacity: 15t at 30m radius
/ 7.5t at 45m radius

POWER SYSTEM

Main generators:
6 water cooled generator sets. Combined output 15MW. Emission class IMO Tier III
Energy storage system:
batteries rated at 4,000kWh
Regenerative energy recovery system
LOHC fuel system prepared
Full DC electrical system
Shore power hook up

PROPULSION

Thruster type: Azimuth and tunnel thrusters
Thruster power: 3x 3,500kW + 3x 3,000kW
Transit speed, empty deck: 10 knots

CLASSIFICATION, REGULATIONS

DNV Self-elevating unit
IMO MODU code:
SNAME-RP T&R 5-5A and/or ISO 19905-1
Flag: Norwegian International Ship (NIS)

JACKING SYSTEM

Model: GLL-U2110-105-L
Type: Opposed rack and pinion
Number of pinions: 4 layers of 24 pinions
Jacking speed (max. hull lifting): 0.8m/min
Jacking speed (max. leg handling): 1.2m/min
Drive: Electric, individual, VSD

DELIVERY

VIND1: Q2 2023
VIND2: TBA

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