



VESSELS

Renewables

seaway⁷

VIND1

Vessel Info

Full specification overleaf

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.



VIND1

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/m ² |
| Free deck space (approx.) | 4,600m ² |
| Leg length under hull (max.) | 84m |
| Leg type | x4 triangular open truss |
| Overall length | 109m |
| Spud can area (approx.) | OR ≈ 160m ² |
| 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.) (at 30m radius) | 116.5m |

| | |
|--|--------|
| Lifting height above LAT (max.) (with 15m air gap) (at 30m radius) | 142.5m |
|--|--------|

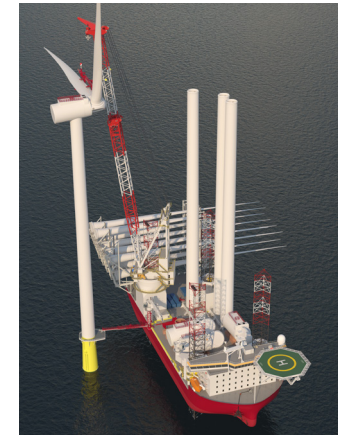
Extended mode:

| | |
|---|--------|
| Lifting capacity (max.) | 1,600t |
| Lifting height above deck (max.) (at 38.5m radius) | 155.4m |

| | |
|--|-----|
| Lifting height above LAT (max.) (with 15m air gap) (at 38.5m radius) | 182 |
|--|-----|

Auxiliary hoist:

| | |
|---|------|
| Lifting capacity (max.) | 250t |
| Lifting height above deck (max.) (at 26.6m radius) | 166m |



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 |
| Emergency generator | 750kW |

| | |
|-------------------------------------|-----------------------------|
| Energy storage system | batteries rated at 4,000kWh |
| Heat recovery system | |
| 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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