

TECHNICAL SPECIFICATIONS

Windfarm Installation Vessel (WIV) Wind Orca

PRINCIPAL DIMENSIONS

Length over all	161.30 m
Length between perpendiculars	155.60 m
Breadth, moulded	49.00 m
Depth to main deck	10.40 m
Draught, design	5.50 m
Draught, max.	6.00 m
Payload, jacking	up to 11,000 t
Max. Speed	13.0 kts

OPERATING CONDITIONS FOR JACKING

Service Restrictions when Jacking:

Wind Speed	20 m/s
Significant Wave Height	2.5 m
Leg Length	105 m
Max. Leg Protrusion	80 m below the hull
Current	Within DP Operating Envelope

ACCOMMODATION

Cabins	111 Single Berth Cabins (with ensuite bathrooms)
Recreation Facilities	Cafeteria with seating for 70 personnel, 2 Day Rooms, Fitness Centre, 2 TV Lounges
Offices	Operations Office, 2 Conference Rooms, 3 Multi-use Offices



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CLASS

DNV
1A Self-elevating Wind Turbine Installation unit Crane Unit, E0
DPS(2) HELDK

FLAG

Denmark

TANK CAPACITIES

Marine gas oil	4,200 m ³
Lube oil	32 m ³
Fresh water - potable	1,500 m ³
Water ballast	12,000 m ³ (approx.)
Sewage (black + grey)	630 m ³

LEGS & JACKING SYSTEM

Number of legs	6 sets of 3-chord truss type
Jacking System	High Speed Rack & Pinion
Speed	VFDs 0.1 - 2.4 m/min

MAIN CRANE

Main Hook SWL	1,600 t @ 40 m 1,200 t @ 50 m
Whip Hook SWL	425 t
Max. operating wind speed	16 m/s (1 minute mean, @ 10 m)
Utility Hoist SWL	15 t (man-riding)

AUXILIARY CRANES

One Aux Crane

Main hoist SWL	35 t @ 30 m (man-riding)
Aux hoist SWL	25 t @ 40 m
Deck Crane	25 t @ 30 m

THRUSTERS

Azipod Stern Thruster	4 x 3.4 MW
Bow Retractable Azimuth Thruster	2 x 2.2 MW
Bow Tunnel Thruster	2 x 2.2 MW

DYNAMIC POSITIONING SYSTEM

Type	DP2
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CARGO AREA

Main Deck Area	4,300 m ²
Deck Loading	15 t / m ²

HELICOPTER LANDING DECK

D-value (max.)	22 m
Weight (max.)	12.8 t