

TECHNICAL SPECIFICATIONS

Windfarm Installation Vessel (WIV) Wind Orca

PRINCIPAL DIMENSIONS

Length over all	160.90 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
Maximum 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, 4 Multi-use Offices



TECHNICAL SPECIFICATIONS

Windfarm Installation Vessel (WIV) Wind Orca

CLASS

DNV GL
100 A5 Self elevating unit Offshore service vessel (SPS, WTIS) BWM
Operation according to operating manual
MC AUT DP(2) EP-D HELIL

FLAG

Danish

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 (incl. DAF 1.1)

Main Hoist SWL in tandem	1,200 T @ 31 m (2 x 600 tonne hoists)
Auxiliary Hoist	500 T @ 60 m
Whip Hoist	50 T @ 113 m (man-riding)
Max Operating Wind Speed	20 m/s
4 Load Control Hoists	25 T SWL each
3 Block Control Tuggers	25 T SWL each

AUXILIARY CRANES (incl. DAF 1.1)

One Aux Crane

Main hoist SWL	35 T @ 30 m (man-riding)
Aux hoist SWL	25 T @ 40 m
Knuckle Boom Crane	4 T @ 14 m, 1 T @ 30 m (man-riding)

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
------	-----

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