

# TECHNICAL SPECIFICATIONS

## Windfarm Installation Vessel (WIV) Pacific 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 8,400 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



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## Windfarm Installation Vessel (WIV) Pacific 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

Cyprus

### TANK CAPACITIES

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

### 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 @ 6.5 to 30 m (man-riding)
Aux hoist SWL	25 T @ 6.5 to 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
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### CARGO AREA

Main Deck Area	4,300 m <sup>2</sup>
Deck Loading	15 T/m <sup>2</sup>

### HELICOPTER LANDING DECK

D-value (max)	22 m
Weight (max)	12.8 T