

TECHNICAL SPECIFICATIONS

Wind Turbine Installation Vessel (WTIV)

Wind Orca



CADELER

TECHNICAL SPECIFICATIONS

Wind Turbine Installation Vessel (WTIV)

Wind Orca

PRINCIPAL DIMENSIONS

Length hull	161.3 m
Breadth, moulded	49.0 m
Depth to main deck	10.4 m
Draught hull, max VDL	~6.0 m
Max. design speed	~13.0 kn

GENERAL

Delivery	2013
Shipbuilder	Samsung Heavy Industries
Flag	Denmark

OPERATING CONDITIONS - ELEVATED

Payload, jacking up to	~11,000 t
Water depth	~8 - 60 m

ACCOMMODATION

Max. Capacity	111 People Onboard
Cabins	110 Single Berth Cabins
Recreation Facilities	Cafeteria with seating for 68 personnel, 2 Day Rooms Fitness Centre, 2 TV Lounges
Offices	Operations Office, 2 Conference Rooms, 4 Multi-use Offices

CLASS

DNV
1A Self-elevating Crane unit Wind turbine installation unit, Clean Crane-offshore DPS(2) E0 HELDK, PMS(M, CBM) Clean

TANK CAPACITIES

Marine gas oil	~4,400 m ³
Fresh water - potable	~1,500 m ³
Water ballast	~12,000 m ³

LEGS & JACKING SYSTEM

Leg Length	105 m
Max. Leg below hull	80 m
Number of legs	6 sets of 3-chord truss type
Jacking System	High Speed Rack & Pinion
Speed	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 @ 92 m
Utility Hoist SWL	15 t (man-riding)

AUXILIARY CRANES

Aux Crane 1- main winch	35 t @ 30 m (man-riding)
Aux Crane 1 - aux winch	10 t @ 41 m
Aux Crane 2	25 t @ 35 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
------	-----

CARGO AREA

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

HELICOPTER LANDING DECK

D-value	22 m
Max Weight	12.8 t