

HEA WIND LIFT

A versatile self-elevating jack up barge designed for offshore wind farm construction and maintenance operations. The vessel combines a four-legged jack-up system with DP1 capability, enabling safe and efficient operations in water depths of up to 50 m. Equipped with a heavy-lift offshore crane with a lifting capacity of up to 500 t, approximately 1,750 m² of usable deck space, and accommodation for 50 personnel, the vessel is well suited for turbine installation, heavy lifting, offshore construction, and long-term maintenance campaigns.

General Information

Type:	Self-elevating jack up barge
Design:	Gusto MSC
Built:	2010
Builder:	UAB VAKARU KONSTRUKCIJOS Klaipeda, Lithuania
Class & Notations:	ABS A1, Self Elevating Unit, AMS, ACCU, DPS-2, CRC(I)
Flag:	Portugal (Madeira)
IMO:	9516686

Principle Dimensions

Length overall LOA:	87.48 -114.87m
Hull length:	85.11m
Hull breadth:	36m
Total beam (BOA):	44.76m
Hull depth:	7.4m
Draft:	3.92m (m Incl. thrusters)
Variable load:	2000t
Load capacity:	5t/m2
Main deck area:	1700 m2

Helideck

Type/ Diameter:	Aluminium / 20m
Capacity:	9.3 Tons
Helicopter type:	Super Puma AS332L / CAP 437

Legs and Spud cans

Number/Type:	4 / Square-shaped
Leg length / Diameter:	72.04m / 3.945m
Spud can type:	Square
Spud can L x B x H:	6.8m x 6.8m x 1.5m
Spud can bearing area:	66.64 m2
Spud can bearing pressure:	80 t/m2

Jacking System

Type:	Hydraulic jacking system
Maker:	Gusto MSC
Locking pins:	8 pins/leg (32 total)
Elevating speed:	1.0m/min
Normal jacking:	2650 t/leg
Pulling capacity:	4000 t/leg
Holding capacity:	4395 t/leg
Preload capacity:	4835 t/leg

Generators and Machinery

Main generator:	4 x Wartsila 9L20, 1665 kW, 900 rpm
Emergency generator:	1 x MAN D2842 LE201, 500 kW, 1800 rpm
Water maker:	1 x 10 m3/day, 1 x 20 m3/day
STP:	100 POB

Cranes

Main crane	
Maker/ Model:	Gusto Model GCC-500-HD
Type:	Hydraulic offshore crane
Boom length:	Long: 108.72m, Short: 87.02m
Long boom capacities:	500t @ 16.14-31m, 57t @ 103.5m Aux - 160t @ 18.1-70m, Whip - 10t @ 20-110.6m
Short boom capacities:	500t @ 14-31m, 113t @ 81.8m Aux - 160t @ 15.9- 46m Whip - 10t @ 15.94-88.9m
Hooks above main deck:	Main hook: Long 121.5m, Short 99m Aux hook: Long 124.5m, Short 104m
Auxiliary crane	
Maker/ Model:	Davit international C-SH.200/4-20
Type:	Crane at SB side
Capacities:	4t @ 4.0-20m, Aux - 1t @ 3.6-18.6m

Safety Systems

Lifeboats:	2 x 50 POB
Life rafts:	4 x 25 Men
MOB/Fast rescue craft:	1 x 6 POB

Propulsion

AFT thrusters:	2 x 1100 kW HRP 7011WM Azimuth
FWD thrusters:	2 x 1100 kW HRP 7011WM Azimuth
Service speed:	7.8 knots

Tank Capacity

Fuel oil:	577 m3
Fresh water:	403 m3
Ballast water:	5200 m3
Endurance:	30 Days

Control Systems

DP System:	Wartsila Control System DP-2
Navigation and communication systems, according to IMO requirements.	

Operation Conditions

Criteria	Wind	Hs	Current
Field transit:	24m/s	2.5m	
DP:	32m/s	5.4m	0.82 m/s
Jacking:	14m/s	1.8m	0.82 m/s
Water depth:	50m		

Accommodation and Facilities

Configuration:	Current
1 Man cabins:	10 Cabins
2 Men cabins:	20 Cabins
4 Men cabins:	-
Total POB:	50 POB

Facilities

Galley, mess room, client offices, meeting room, recreation rooms, gymnasium, changing rooms, coffee rooms, sick bay, Helli reception/ departure facilities, laundry, stores, workshops, Starlink VSAT and DP-PRS