

Wind Lift I

Wind Turbine Installation Jack-up Vessel



Owner BARD Engineering GmbH, Bremen, Germany
Builder Western Shipbuilding yard, Klaipeda, Lithuania
Delivered 2010

Legs
 Leg length 71.00 m
 Number of legs 4 pcs

Description

This four-legged self-elevating and self propelled heavy lift crane vessel is an evolution of the GustoMSC NG series. The Wind Lift I undertakes voyages with high sailing speeds and positioning for jacking operations with good DP performance. The four legs and diagonal pre-loading allow for easy installation. Together with the High Performance Elevation system (GHJS-2650-HPE) the vessel jacking operation will be fast and secure. The vessel is equipped with a GustoMSC 500 t Heavy Duty / High Outreach Offshore crane (GCC-500-HD), for installation of wind turbine components.

Power generation

4 diesel generator sets of 1,600 kW
 1 emergency diesel generator set of 536 kW

Propulsion

Four azimuthing thrusters of 1,100 kW are provided for transit and for station keeping for a DP-1 dynamic positioning system.

Transit speed 8 knots

Accommodation 50 POB

Helideck Sikorsky S92/S61N

Main dimensions

Length hull 93.00 m
 Breadth hull 36.00 m
 Depth hull 7.40 m
 Design draft 5.50 m

Payload and Storage

Payload 2,000 t
 Deck load 5 - 10 t / m²
 Deck area ± 2,000 m²

Classification, regulations

GL, ⚡ 100A5 DP1 Self Elevating Unit ⚡ MC

Water depth

Maximum water depth for jacking operations 45.0 m

The Netherlands

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Jacking System

Make	GustoMSC
Model	GHJS-2650-HPE
Max. Jacking capacity	2,650 t
Max. Holding capacity	5,300 t
Hydraulic Performance Elevation speeds (Effective speeds incl. re-cycling strokes)	
Platform lifting speed	21 m/hr
Platform lowering speed	27 m/hr
Leg handling speeds	25 - 35 m/hr
Cylinder speed under full load	60 m/hr

Main Crane

Make	GustoMSC
Model	GCC-500-HD
Main hoist (DAF 1.10)	500 t @ 31 m
(DAF 1.40)	500 t @ 24 m
Hoisting height above main deck	99 or 121 m
Aux. hoist (DAF 1.15)	160 t @ 70 m
(DAF 1.40)	160 t @ 46m
Whip hoist (manriding 3t)	10 t @ all radii

GustoMSC services

GustoMSC provided basic design up to Class approval. GustoMSC provided the hardware delivery of the high performance Jacking System and Offshore Column crane. Furthermore, GustoMSC executed building survey and provided qualified assistance for commissioning and testing. GustoMSC provided the services required to obtain Classification.

Metric system

Weights [t] and forces [tf] are in the metric system.

Data presented in this product sheet is for information only. Unit specific specifications as provided by the Owner shall prevail.

