

NG series jack-up vessels

Type NG-9000C



Description

The GustoMSC NG series is a range of multi-purpose self-propelled jack-up vessels.

The NG-9000C vessel is especially designed for the Wind Turbine Installation market to be able to undertake high speed fully loaded voyages to the installation site, is equipped with a DP-2 dynamic positioning system for positioning at site and features a unique “around the leg” 800 t crane.

The four legs with the continuous speed GustoMSC jacking system and the diagonal pre-loading allow for easy and fast installation. The NG-9000C is intended for use in water depths of up to 45m in a North Sea environment.

The NG-9000C is equipped with an 800 t heavy duty offshore crane developed by GustoMSC for the Wind Turbine Installation market. The GLC-800-ED crane combines a high capacity & high outreach with a short minimum radius, is located on top of the portside aft Jack-house and revolves 360° unrestricted around the leg.

The main deck is locally reinforced for the transportation of wind turbine parts or other heavy components. In addition the vessel has the ability to work in the Offshore Oil & Gas sector.

Main particulars

Principal dimensions

Hull length	130.80 m
Hull width	39.00 m
Hull depth	9.00 m
Hull draft	5.60 m
Leg length max. (incl. spudcan, from base)	81.50 m

Classification

DNV ✕ 1A1 Self-elevating Wind Turbine Installation Unit CLEAN DESIGN, CRANE, DYNPOS-AUTR, EO, HELDK, NAUT-OSV(A), OPP-F

Power generation

4 diesel generator sets of 4,320 kW
1 emergency diesel generator set of 600 kW

Propulsion

Propulsion for transit is provided by three propulsion azimuth thrusters of 3,500 kW, together with another three tunnel thrusters of 1,750 kW. These provide thrust for station keeping with a DP-2 dynamic positioning system.

Speed

Transit speed approx. 12 kn

The Netherlands

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Variable load

Variable load	6,500 t
Deck load	5 - 10 t / m ²
Deck area	± 3,200 m ²

Accommodation

An accommodation deckhouse suitable for 90 persons is located on the forward end of the vessel.

Helideck

A helicopter landing deck suitable for a Sikorsky S92/ S61N or Super Puma AS 332L2 is provided on top of the deckhouse.

Units under construction

- Hull L208 at Drydocks World SEA, for delivery in 2012
- Brave Tern, at Lamprell, 2012
- Bold Tern, at Lamprell, 2012
- Sea Installer, at Cosco, 2012

Design criteria

Jacking design condition

Significant wave height	1.8 m
Current velocity	2.5 kn
Wind velocity (1 min. mean @ 10 m)	14.0 m/s
Max. elevated weight	abt 18,000 t

Elevated survival condition

Max. wave height	21 m
Wave peak period	13.8 s
Current velocity	2.5 kn
Wind velocity (1 min. mean @ 10 m)	41.0 m/s
Water depth	45.0 m
Airgap	15 m

Jacking system

The vessel is equipped with the GustoMSC 9000C continuous hydraulic positive engagement jacking system.

- Max. Jacking capacity	5,300 tf per leg
- Max. Holding capacity	9,000 tf per leg
- Platform lifting speed	24 m/hr
- Platform lowering speed	30 m/hr
- Leg handling speeds	up to 40 m/hr

Main crane

The vessel is equipped with an electric driven bogie crane made by GustoMSC. The GLC-800-ED crane is located on top of the port side aft Jack-house and revolves around the Jack-Up leg of the vessel.

Main hoist	800 t @ 24 m
Minimum outreach	18 m
Hoisting heights (ref. main deck)	approx. 102 m

Whip hoist (manriding)	50 t @ 90 m
Minimum outreach	21 m
Hoisting heights (ref. main deck) (man-riding capacity 3 t)	111 m

Metric system

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

Data presented in this product sheet is for information only and subject to change without notice.

