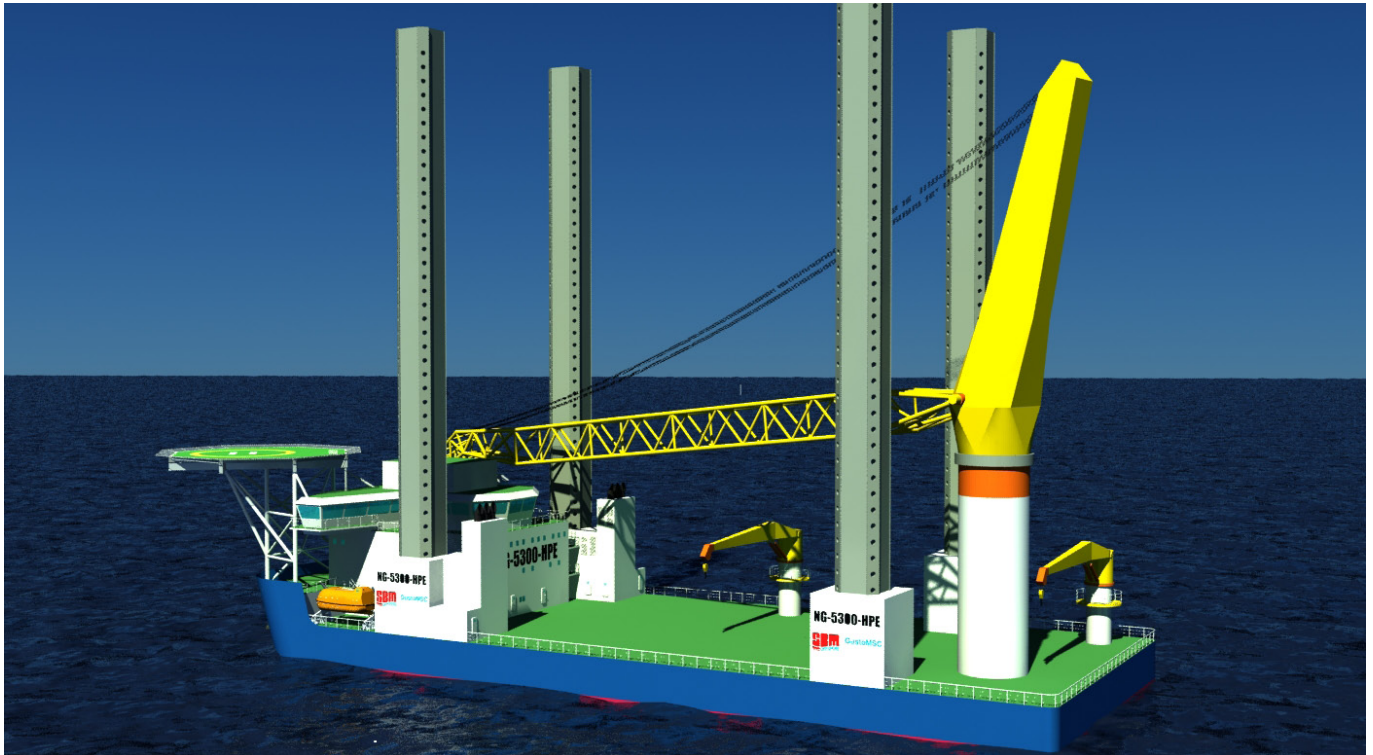


NG series jack-up vessels

Type NG-5300



Description

The GustoMSC NG series is a range of multi-purpose self propelled jack-up vessels. The NG-5300 vessel undertakes voyages and positioning for jacking operations and is equipped with a DP-2 dynamic positioning system.

The four legs with the High Performance Elevation system and the diagonal pre-loading allow for easy and a faster installation. The NG-5300 is intended for use in water depths of up to 45 m in a North Sea environment and for economical installations of wind farms where vessel sailing speeds, jacking system capacity & speed and crane capacity & outreach are important factors.

The NG-5300 is equipped with a 500 t heavy duty offshore crane developed by GustoMSC for the Wind Turbine Installation market. The GCC-500-HD crane combines a high capacity & high outreach with a short minimum radius, is located on the aft deck and revolves 360° unrestricted. 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.

Principal dimensions

Hull length	93.00 m
Hull width	36.00 m
Hull depth	7.40 m
Hull draft	3.50 m
Leg length max. (incl. spud-can)	71.00 m

Classification

✕ 1A1 Self-elevating Crane Unit CLEAN DESIGN NAUT-OSV(A)
OPP-F DYNPOS-AUTR EO HELDK

Power generation

4 diesel generator sets of ± 2,600 kW
1 emergency diesel generator set of 500 kW

Propulsion

Propulsion for transit is provided by two propulsion azimuth thrusters of 1,750 kW. Together with another two azimuth thrusters of 1,750 kW, these provide thrust for station keeping with a DP-2 dynamic positioning system.

Speed

Transit speed 7-9 kn

Payload and Storage

Payload	± 1,800 t
Deck load	5 – 10 t/m ²
Deck area	± 2,000 m ²

Accommodation

An accommodation deckhouse suitable for 50 persons is located on the forward end of the vessel.

The Netherlands

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Helideck

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

Design criteria

Jacking Design Condition

Significant wave height (Hs)	1.8 m
Wave peak period (Tp)	3.0 – 18.0 s
Wind velocity (1 min mean @ 10 m) (Vwind)	14.0 m/s
Current velocity (Vcur)	1.6 kn

Jacked Survival Design condition

Significant wave height (Hs)	5.4 m
Wave peak period (Tp)	3.0 – 18.0 s
Wind velocity (1 min mean @ 10 m) (Vwind)	32.0 m/s
Current velocity (Vcur)	1.6 kn

Water depth

Maximum water depth for jacking operations	45.0 m
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Jacking System

The vessel is equipped with a High Performance Elevation system. The GustoMSC GHJS-2650-HPE is a hydraulic positive engagement system and has high leg handling speeds, reducing overall jacking operations. Optionally the Mooring System and or hydraulic Piling Hammer could be powered by one of the HPU's.

- Max. Jacking capacity 2,650 tf per leg
- Max. Holding capacity 5,300 tf per leg

High Performance Speeds

(Effective speeds incl. re-cycling strokes)

- Platform lifting speed	21 m/hr
- Platform lowering speed	27 m/hr
- Leg handling speeds up to	25 - 35 m/hr
- Optional leg handling speed	86 m/hr
- Cylinder speed under full load	60 m/hr

Main Crane

The vessel is equipped with a hydraulic driven column crane made by GustoMSC. The GCC-500-HD crane is located on the aft deck and powered by the HPU of the Jacking System.

Main hoist	500 t @ 31.0 m
Minimum outreach	14.0 m
Hoisting heights (ref. main deck)	99/121 m

Auxiliary hoist	160 t @ 70.0 m
Minimum outreach	16.0 m
Hoisting heights (ref. main deck)	104.0 m

Whip hoist	10 t @ 88.9 m
Minimum outreach	17.7 m
Hoisting heights (ref. main deck) (man-riding capacity 3t)	106.0 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.

