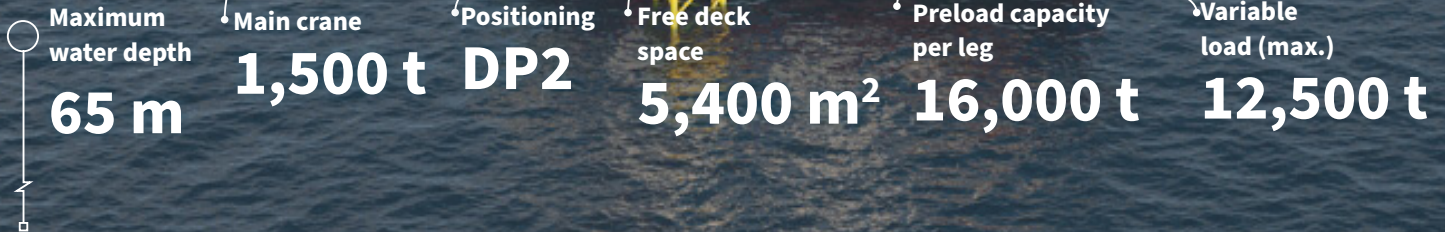


NG-16000X

Next Generation Wind Turbine Installation



NG series self-propelled jack-up

The NG's are a series of multi-purpose self-propelled jack-ups capable of undertaking autonomous transit and positioning offshore.

The NG-16000X-TIV is intended for the next generation wind turbine installation work, having sufficient variable load and deck area.

The NG-16000X-TIV is intended for use in water depths of up to 65 m in a harsh North Sea type of environment. This unit is equipped with well-balanced DP2 capability and a VSD driven jacking system, providing a controlled ramp-up / ramp-down, speed & torque control, for frequent, fast and secure jacking operations.

The main feature of the unit is the Leg encircling crane having a high reach and full envelope on deck to reach WTG components with a capacity of 1,500 t @ 40 m at ± 161 m hook height above main deck or 1,250 t @ 47.5 m at ± 155 m.

Features

- Autonomous transit and positioning
- Designed for survival
- Telescopic leg encircling crane: high capacity, high reach
- VSD controlled rack & pinion jacking system
- Fast, secure and controlled jacking and preloading
- High number of jacking moves
- Large free deck space & high variable load
- Optimized deck coverage and high hoisting heights

The NG series can be fully customized to owner's specific requirements



Stable installation of next generation WTG's. High height reach for max. 161 m



Sufficient deck space, variable load and outreach & hook height

Main characteristics

| Hull | |
|------------------------------|---|
| Hull length | 148.0 m |
| Hull width | 56.0 m |
| Hull depth | 11.5m |
| Hull draft | 8.8 m |
| Accommodation | up to 130 persons |
| Helideck | suitable for Sikorsky S92/S61 (12.6 t - 22.2 m) |
| Variable load (max.) | up to 12,500 t |
| Deck load capacity main deck | 10 t/m ² |
| Free deck space | 5,400 m ² |
| Legs | |
| Type | triangular open truss |
| Overall length (max.) | 109 m |
| Leg length under hull (max.) | ± 84 m |
| Crane | |
| Main crane | 1,500 t @ 40 m/1,250 t @ 47.5 m |
| Auxiliary crane | 30 t @ 45 m |

Power plant

| | |
|-----------------|-----------|
| Main power | 23,000 kW |
| Emergency power | 1,250 kW |

Propulsion

| | |
|----------------|----------------------------------|
| Thruster type | Azimuthing and tunnel thrusters* |
| Thruster power | 4 x 3,500 kW + 3 x 3,500 kW |
| Transit speed | 11 knots |

* alternative propulsion arrangement optional

Classification, regulations

| |
|--------------------------------------|
| DNV or ABS Self-elevating unit |
| IMO MODU code |
| SNAME-RP T&R 5-5A and/or ISO 19905-1 |

Design conditions

| Elevated conditions (survival) | | |
|--------------------------------|----------|----------|
| Water depth | 65.0 m | 55.0 m |
| Max. wave height | 20.0 m | 20.0 m |
| Surface current | 1.0 m/s | 1.0 m/s |
| Wind velocity (1 min.) | 34.0 m/s | 38.0 m/s |
| Spudcan penetration | 3.0 m | 3.0 m |
| Air gap | 14.0 m | 15.0 m |

GustoMSC supplied equipment

| Jacking system | |
|---|---|
| Model | GLL - 105/8 |
| Type | Floating opposed rack & pinion |
| Number of pinions | 4 layers of 24 pinions |
| Jacking speed (max. hull lifting) | 0.65 - 0.8 m/min |
| Jacking speed (max. leg handling) | 1.2 m/min |
| Drive | Electric, individual, VSD |
| Telescopic leg crane | |
| Model | GLC-1500-ED |
| Main hoist (Hoisting height above deck) | 1,500 t @ 40 m ± 161 m @ 30 m or 1,250 t @ 47.5 m at 155 m height |
| Auxi hoist capacity | 250 t |

GustoMSC services

- Providing the basic design package including all services required to obtain Class approval.
- Delivery of the jacking system and leg crane.
- Commissioning support for the jacking system and leg crane.
- Operational Support System applications for controlled and safe operations.
- Customer Service throughout the lifetime of the jack-up. This includes spare parts, consultancy, engineering support, SSA's, etc.

References NG-16000X

- Eneti, TBN (2025)
- Eneti, TBN (2024)
- Dominion Energy, Charybdis (2023)

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