**Classification and Rules**

- **Vessel type:** Gusto MSC NG9800C-HPE
- **Class:** DNV +1A1, Self-elevating Crane unit Wind turbine installation unit Clean(Design) Crane-offshore DYNPOS(AUTR) E0 HELDK NAUT(OSV(A)) OPP-F
- **Delivery:** 2012/2013
- **Yard:** Lamprell PLC, Dubai
- **Flag:** Republic of Malta

**Principal Dimensions**

- **Hull length o.a. [m]:** 132
- **Hull breadth mid [m]:** 45
- **Hull depth [m]:** 9
- **Min. draft (light) [m]:** 4.25 (+0.8 to spud can tip)
- **Draft at max. variable load [m]:** 5.8 at elevated 22,700t (+0.8 to spud can tip)

**Cargo Capacity**

- **Max variable load (t):** 9,000
- **Deck area [m²]:** 3,600
- **Uniform deck loading [t/m²]:** 5-10
- **WTG capacity (typical):** 5 x 8MW or 4 x 10MW or 3 x 12MW

**Propulsion, Manoeuvring and Positioning**

- **Aft propulsion:** 3 x 3,800 kW Voith Schneider propellers
- **Fwd manoeuvring:** 3 x 1,750 kW Wartsila Lips tunnel thrusters
- **Max speed [knots]:** 12
- **Positioning:** DP2

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Jack-up System
Type: MSC continuous hydraulic double-acting system
Effective jacking capacity per leg [t]: 5,830
Pre-loading capacity total [t]: 9,800
Holding capacity per leg [t]: 9,800
Jack-up lifting / lowering speed [m/min]: 0.4 / 0.5
Leg handling speed [m/min]: 0.6

Legs and Spudcans
Number & type: 4 cylindrical
Diameter [m]: 4.5
Length [m]: 92.4
Max leg length below ship baseline [m]: 70.5
Spudcan area \( \text{m}^2 \): 106

Safety Systems
Fire and safety systems: Compliant with DNV Offshore Standards, IMO MODU Code and SOLAS/SPS Code, North Sea Standard
Fire & Gas detection: Shipwide integrated system
Fire extinguishing: Fire ring main, Ultra fog water mist system
Life saving: 1 x 100% complement fully enclosed lifeboats and inflatable rafts
MOB: high speed rescue boat + CrewFinder system

Access
Helicopter deck D22m, 12.8t (CAP437)
Hydraulic gangway to foundation or quay
Man-riding cranes
Hydraulic boat landing for CTV
SOV transfer bracket

Accommodation and Facilities
Total complement: 80 persons in 68 cabins
Cabins equipped with en suite bathroom, Sat TV/video
Client offices and workshops, fitness room, laundry, TV room etc.

Leg retrieval system (jetting)
Capacity: 50m\(^3\)/h @ 30bar per pump
Capacity: 150m\(^3\)/h @ 10bar per pump

Fuel consumption
Transit speed of 10 knots [t/24h]: 50
Elevated, standby [t/24h]: 5-6
Elevated, crane work [t/24h]: 6-8

Operational Limitations
All year survival water depth range\(^1\) [m]: 7.5 - 55
Transit fully loaded: up to wave 3.5m Hs
Jacking: up to wave 1.8m Hs

Main Crane
Type and location: Huisman LEC 65500 around aft port leg
Capacity: 1,600t at 31m outreach at 157.5 above deck
Aux. Hook: 400t (166.5m above deck)

Deck Cranes
2 cranes of type 20t SWL, 27m max radius. Certified for man-riding
1 Palfinger hydraulic knuckle boom crane, DKF 500 - 10t@27m/7t@35m. Certified for man-riding and offshore rated

Power generation
4 diesel electric Wärtsila generators:
1 x 12v32 5,760kW, 1 x 6L32 2,880kW, 2 x 9L32 4,230kW
Harbour (emergency) generator. CAT 3512B 1,400kW
Output range: 60 Hz, 230-690V
50 Hz on-deck power supply

1 Depending on site conditions