### SPECIFICATIONS:

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## **JACK-UP INSTALLATION VESSEL BRAVE TERN**



#### **Classification and Rules**

Vessel type: Gusto MSC NG9800C-HPE Class: DNV + 1A1 self-elevating crane unit wind turbine installation unit, CLEAN DESIGN NAUT(OSV(A)) OPP-F DYNPOS-AUTR EO HELDK 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 payload [m]: 5,8 at elevated 22.700t (+0,8 to spud can tip)

#### Cargo Capacity

Max variable load (t): 9000 Deck area [m<sup>2</sup>]: 3400 Uniform deck loading [t/m<sup>2</sup>]: 5-10 WTG capacity (typical): 4 x 9.5 MW, 3 x 12 MW

#### Propulsion, Manoeuvring and Positioning

Aft propulsion: 3 x 3800 kW Voith Schneider propellers Fwd manoeuvring: 3 x 1750 kW Wärtsila Lips tunnel thrusters Max speed [knots]: 12 Positioning: DP2





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#### **Operational Limitations**

All year survival water depth range<sup>1</sup> [m]: 7.5 - 55 Operation water depth range<sup>1</sup> [m]: 5.5 - 60 Transit fully loaded: up to wave 3.5m Hs Jacking: up to wave 1.8m Hs

#### Main Crane

Type and location: Huisman LEC-65500-1600 around aft port leg Long mode: 1600t at 30m outreach (max height 120m at min radius)

Auxilliary hook: 400t

Sling hoist: 15t (certified for man riding) Mean wind limit [m/s]: 16 (above 84 deg, 20 below 84 deg)

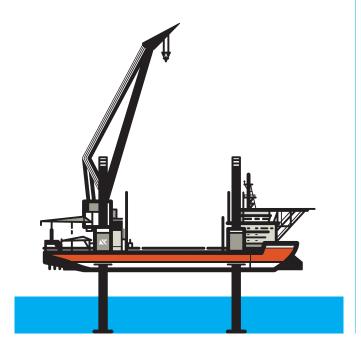
#### **Deck Cranes**

2 cranes of type 20t SWL, 27m max radius. Certified for manriding

1 Palfinger hydraulic knuckle boom crane, DKF 500 -10t@27m/7t@35m

#### **Power generation**

4 diesel electric Wärtsila generators: 1 x 12v32 5760kW, 1 x 6L32 2880kW, 2 x 9L32 4230kW Harbour (emergency) generator. CAT 3512B 1400kW Output range: 60 Hz, 230-690V 50 Hz on-deck power supply



#### **Jacking System**

Type: MSC continuous hydraulic double-acting system Effective jacking capacity per leg [t]: 6270 Pre-loading capacity total [t]: 9800 Holding capacity per leg [t]: 9800 Jack-up lifting / lowering speed [m/min]: 0.325 / 0.4 Leg handling speed [m/min]: 0.67

#### 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 [m<sup>2</sup>]: 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: 50m³/h @ 30bar per pump Capacity: 150m³/h @ 10bar per pump

#### **Fuel consumption**

Transit speed of 10 knots [t/24h]: 45 Elevated, standby [t/24h]: 5-6 Elevated, crane work [t/24h]: 6-8

<sup>1</sup> Depending on site conditions

The information included in this brochure is intended for general information only. All figures believed to be correct at time of printing.

