



JACK-UP INSTALLATION VESSEL BRAVE TERN - NEW CRANE



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 Wärtsila Lips tunnel thrusters
Max speed [knots]: 12
Positioning: DP2



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Operational Limitations

All year survival water depth range¹ [m]: 7.5 - 55
 Operation water depth range¹ [m]: 5.5 - 60
 Transit fully loaded: up to wave 3.5m Hs
 Jacking: up to wave 1.8m Hs

Main Crane

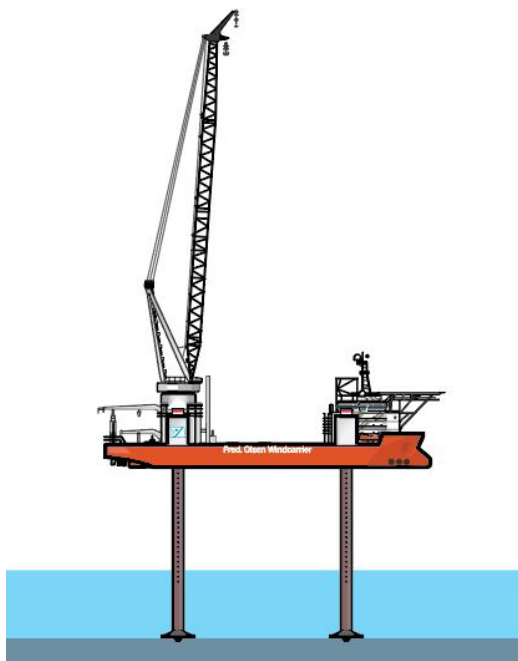
Type and location: Huisman LEC 65500 around aft port leg
 Capacity: 1,600t at 31m outreach at 157.5 above deck
 Aux. Hook: 400t (166.5m above deck)

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 Wärtsilä 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



Jacking 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 [m²]: 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]: 50
 Elevated, standby [t/24h]: 5-6
 Elevated, crane work [t/24h]: 6-8

¹ 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.