



Brave Tern Technical specifications

Jack-up installation vessel Brave Tern *Specifications*

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
Draft at max. variable payload [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, 4 x 10MW or 3 x 12-15MW

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

Operational Limitations

All year survival water depth range (1) [m]: 7.5 - 55
Operation water depth range (1) [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 157.5m above deck
Aux. hook: 450t (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 at 27m / 7t at 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]: 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

Access

Helicopter deck D22.8m, 15.6t (CAP437)
Hydraulic gangway to foundation or quay
Man-riding cranes
Hydraulic boat landing for CTV
SOV transfer bracket

Accommodation and Facilities

Total complement: 104 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

(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.