

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

Min. draft [m]: 4.25 (+0.8 to spud can tip) Max draft [m]: 5.80 (+0.8 to spud can tip)

Max elevated weight [t]: 22,700

Carrying Capacity

Max variable load [t]: 9,000 Deck area [m2]: 4,000

Uniform deck loading [t/m2]: 5-10

WTG capacity (typical): 4 x 8-11MW 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]: 6.7 - 60 Transit without WTG components: up to 3.5m Hs Jacking: up to wave 1.8m Hs

Main Crane

Type and location: Huisman LEC 1600 around aft port leg Capacity: 1,600t at 31m outreach at 157.5m above deck

Aux. hook: 450t (166.5m above deck)

Deck Cranes

1 crane of type 20t SWL, 27m max radius

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]: 6,270 Pre-loading capacity total [t]: 9,800 Holding capacity per leg [t]: 9,800

Jack-up lifting / lowering speed [m/min]: Up to 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]: 72

Spudcan area [m2]: 106

Safety Systems

Reinforced spud can structure for standing on bed rock

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

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.