



Blue Tern Technical specifications

Jack-up installation vessel Blue Tern *Specifications*

Classification and Rules

Vessel type: FELS MPSEP
Class: ABS + A1 SEU AMS ACCU DSP-2 CRC ENVIRO-OS
Delivery: Q3 2012
Yard: Keppel Fels Singapore
Flag: Malta

Principal Dimensions

Hull length o.a. [m]: 158
Hull length LBP [m]: 144,54
Hull breadth mid [m]: 50
Hull depth [m]: 9,75
Min draft (light) [m]: 5,20
Draft at max variable payload [m]: 5,8

Cargo Capacity

Max variable load (t): 8750
Deck area [m²]: 3750
Uniform deck loading [t/m²]: 10 (not for all deck area)
WTG capacity (typical): 4 x 8.3MW or 4 x 7.0MW

Propulsion, Manoeuvring and Positioning

Aft propulsion: 2 x 3000kW Azimuth
Fwd manoeuvring: 2 x 3000kW Retractable Azimuth
Max speed [knots]: 7
Positioning: DP2

Operational Limitations

All year survival water depth range (1) [m]: 0 - 65
Operation water depth range (1) [m]: 65
Jacking: 2 m Hs (wave period 6-8 sec, tide current 2 kts, wind velocity 15 m/sec)

Main Crane

Type: Liebherr BOS 45000-800, 3 blocks, SWL: 800t @ 30m radius, - 200t/50t @ 86,8/110m
Location: Forward of stbd aft leg
Max main hook height above deck: 127m
Max aux hoist above deck: 134m
Mean wind limit [m/s]: 18
Aux. crane: 50t

Deck Cranes

1 Liebherr BOS 4200 – 50, 50t @ 42m port side mid ship
1 Sormec Telescopic crane 10t @ 10m – 2.5 t @ 30m

Power generation

Main generator: 4 x 3580 eKW, 11kV, AC-60HZ
Auxiliary capacity: 1 x 1840 eKW, 690 V, AC-60 HZ
Emergency capacity: 1 x 480 eKW, 690 V, AC-60 Hz
Output range: 60 Hz, 230-690V

Jacking System

Type: Electric rack & pinion
Effective jacking capacity per leg [t]: 6120 (340 t/pinion)
Pre-loading capacity total [t]: 28080 (390 t/pinion)
Max Holding capacity total [t]: 58680 (815 t/pinion)
Jack-up lifting / lowering speed [m/min]: 0,7

Legs and Spudcans

Number & type: 4 x triangular open truss
Diameter [m]: 11,89
Length [m]: 106
Max leg length below ship baseline [m]: 88
Spudcan area [m²]: 110,8
Reinforced spudcan structure for standing on bed rock

Safety Systems

Fire and safety systems: ABS compliant
Standards, IMO MODU Code and SOLAS, North Sea Standard
Fire & Gas detection: Shipwide integrated system (incl. H2S)
Fire extinguishing: Fire ring main, High fog water mist system, foam system on helideck
4 x 75 person (98kg) lifeboats
12 x 25 person liferafts

Access

Helicopter deck D=22.8m, Suitable for Sikorsky S92 EH101
Capacity 14,6t (CAP437, BSL D 5-1, HCA Compliant)
Man-riding cranes: Main and Aux Bos Cranes

Accommodation and Facilities

Total complement: 150 persons
Cabins equipped with en suite bathroom, Sat TV/video on demand, wifi, Galley, Mess room, Stores, Recreation rooms, Gym, Change room, Sick bay, Conference room, Offices, HVAC, Internet room

Leg retrieval system (jetting)

Capacity HP: 40 bar @ 25m³/hr
Capacity LP: 5 bar @ 300m³/hr

Fuel consumption

Operational 14mt/day, Sailing 44mt/day

(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.