



JACK-UP INSTALLATION VESSEL BLUE TERN



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]: 151
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): 7000
Deck area [m²]: 3750
Uniform deck loading [t/m²]: 10
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]: 8
Positioning: DP2



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Operational Limitations

All year survival water depth range¹ [m]: 0 - 65
 Operation water depth range¹ [m]: 65
 Jacking: 2 m Hs (wave period 6-8 sec, tide current 2 kts, wind velocity 15 m/sec)

Main Crane

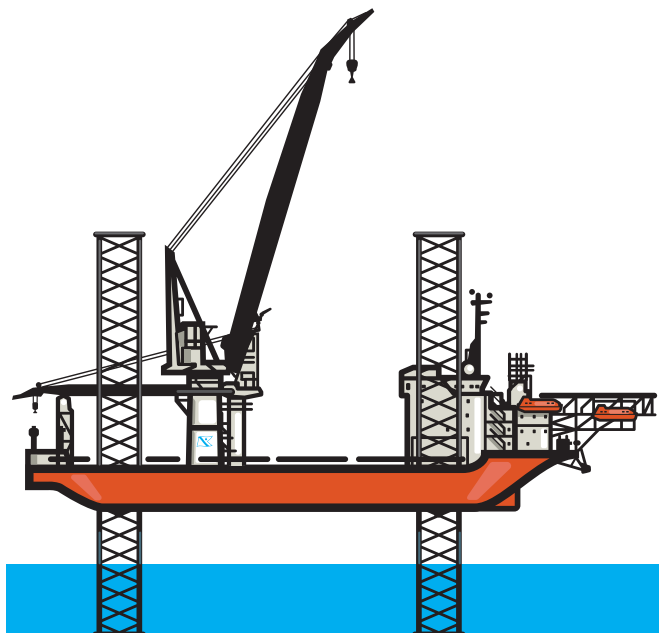
Type: Liebherr BOS 45000-800, 3 blocks, SWL: 800t @ 30m radius, - 200t/50t @86,8/110m
 Location: Forward of stbd aft leg
 Max main hook height above deck: 127m
 Max aux hoist above deck: 134m
 Mean wind limit [m/s]: 18
 Aux. crane: 50t

Deck Cranes

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

Power generation

4 x 3580 eKW, 11kV, AC-60HZ
 1 x 1840 eKW, 690 V, AC-60 HZ
 Emergency diesel generator: 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 – 1,4

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
 Life saving: 1 x rescue boat (FRC),
 4 x 75 person (98kg) lifeboats,
 6 x 25 person liferafts

Access

Helicopter deck D=23, 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
 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: 100 bar @ 25m³/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.