



## 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 [m<sup>2</sup>]: 3750  
Uniform deck loading [t/m<sup>2</sup>]: 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 range<sup>1</sup> [m]: 0 - 65  
 Operation water depth range<sup>1</sup> [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 [m<sup>2</sup>]: 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

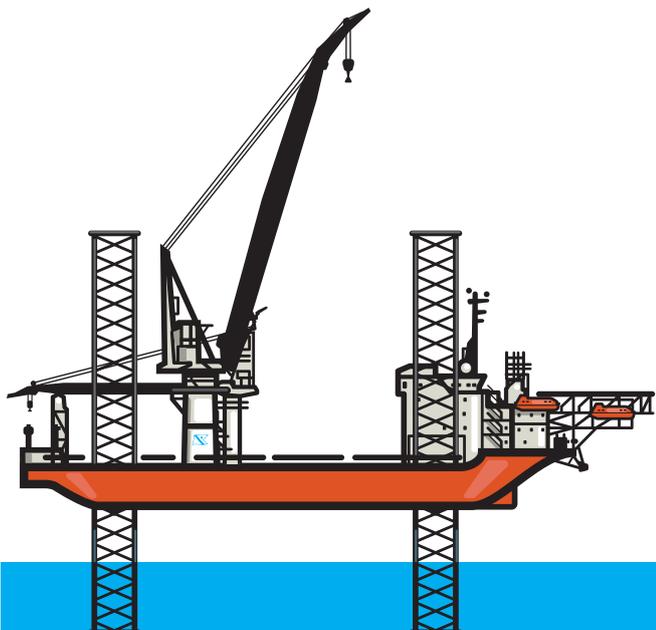
Total complement: 150  
 Cabins equipped with en suite bathroom, Sat TV/video on demand, wifi  
 Galley, Mess room, Stores, Recreation rooms, Gym, Change room, Sick bay, Conference room, Offices, HVAC, Internet room

## Leg retrieval system (jetting)

Capacity HP: 100 bar @ 25m<sup>3</sup>/hr

## Fuel consumption

Operational 14mt/day, Sailing 44mt/day



<sup>1</sup> 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.