



# 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]: 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]: 8750

Deck area [m<sup>2</sup>]: 3750

Uniform deck loading [t/m<sup>2</sup>]: Up to 10

WTG capacity (typical): 4 x 9.0MW

### 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]: 5.5 - 65

Operation water depth range (1) [m]: 5.5 - 73

Jacking: Up to wave 2,0m Hs

### 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 [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

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 Cranes

### Accommodation and Facilities

Total complement: 144 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

### Leg retrieval system (jetting)

Capacity HP: 40 bar @ 25m<sup>3</sup>/hr

Capacity LP: 5 bar @ 300m<sup>3</sup>/hr

### Fuel consumption

Transit speed of 6 knots [t/24h]: 44

Elevated, standby [t/24h]: 5

Elevated, crane work [t/24h]: 12

(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.