

LEIGHTON



# LEIGHTON ECLIPSE

Pipelay Accommodation Work Barge



- **Large shallow water pipelay barge with min. draft of only 3.2 m**
- **300 MT and 73 MT pedestal cranes with man riding capability**
- **Suitable for flexible and cable lay**
- **Accommodation for 260 pax with extensive office and conference facilities**





# Vessel Features

# Leighton Eclipse

## GENERAL

Class	ABS + A1, Pipelay / Accommodation / Work barge/ Crane service/ BWT/ Helideck/ SPS code 2008 Compliant
Flag	Singapore
Port of Register	Singapore
Year of Built	Nov.2009 (shipyard delivery Oct.2010)
Gross Tonnage	16'111 MT
Net Tonnage	4'833 MT
IMO No.	8357289
Official No./ Call Sign	395633 / 9V8339
Compliances	OVID & ISM: Interim DoC,SMC,ISPS, SVOC DMLC Director General Shipping, India compliant with SPL in place

## DIMENSIONS

LOA	130 m
Breadth	32 m
Depth	8.5 m
Draft (Minimum)	3.2 m
Draft (Maximum)	5.8 m
Draft (Operating)	5.1 m
Deck Loading Cap.	18 MT/m <sup>2</sup> and 15 MT/m <sup>2</sup>
Deck Frame Spacing	0.6 m
Deck Working Space	Approx. 1600 m <sup>2</sup> (1400 m <sup>2</sup> excluding the saturation diving platform)

## MOORING SYSTEM

Arrangement	8 point mooring system
Mooring Winches	8 x single drum electric VFD drive, 70 MT (mid drum) capacity, complete with 1500 m of 52 mm diameter wire ropes Make: PH Hydraulics & Engineering Model: 110Ton
Winch Control System	Local and remote control Fully integrated with pipelay system
Tension Monitoring System	Fully automatic with payout length and tension measurement
Anchors	8 x 8 MT Stevpris + 1x 8 MT spare Stevpris + 1x spare 10 MT Delta Flipper

## CRANEAGE / LIFTING

Main Crane	Huisman pedestal type rated at 300 MT (Sr. No. A08-53000)
Auxiliary Crane	Techcrane pedestal type rated at 73 MT (Model No. F200-100)
Pipe Handling Davits (Port Side)	4 x 50 MT hydraulic luffing type - fully centralized remote (control tower) and local control

## PIPELAY CAPABILITY

Tensioner	2 x 60 MT track tensioners at 25 m/min
Pipe Size Range	6" - 60" overall OD
Control System	Electro hydraulic with manual override joystick control, pay in and pay out
Work Stations	Total 8 stations including: 4 x weld stations, 2 x NDT / repair stations, and 2 x field joint stations
Welding System	Accommodates manual, semi-automatic and fully automatic
Abandonment and Recovery Winch with Auto Load Transfer	120 MT capacity single drum complete with 810 m of 64 mm diameter wire rope
Pipe Handling System	Hydraulic system including 2 units transfer chain conveyors, line up and transfer modules and elevating rollers
Stinger	Fixed type 40 m long, extendable with 20 m floating section
Stinger Winches	2 x 30 MT @ mid layer

## ACCOMODATION & HELICOPTER FACILITIES

Accommodation	Fully air-conditioned & furnished 260 Persons. (10 x 1 man, 27 x 2 man, 49 x 4 man cabins)
Helideck	Suitable for helicopter sizes Sikorsky S61 to S92; equipped with foam system, CAP437 9 <sup>th</sup> Edition compliance
Galley	Fully-equipped to cater 300 man, with cool room, freezer room, and dry store
Common Facilities	Fully-equipped & furnished gymnasium Recreation & cinema Laundry Phone room and internet room Common toilets Change room and locker room Stores
Control Room & Offices	10 dedicated offices IT/Server room Radio cum fully integrated control room Conference room Multi-purpose room
HVAC	Improved indoor air quality with UV-C light germicidal irradiator, sanitizing and destroying, bacteria, mold fungi, and virus
Workshop	Fully equipped mechanical, electrical, welding and common workshops



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## MACHINERY

Generators	7 x 1'040 kW Cummins KTA 50 DM1 - considerable additional genset capacity for positive future crane upgrade up to 900 MT Producing 3 phase 50Hz
Emergency Generator	Caterpillar 3412 DITA 500 kW
Air Compressors	2 x 475 cfm @ 10 bar (service air) 2 x 37 cfm @ 35 bar (line-up clamp) 1 x 102 cfm @ 10 bar (tensioner bags)

## SERVICE TANKS

Marine Diesel Storage	1'363 m <sup>3</sup> @ 98%
Fresh Water Storage	1'177 m <sup>3</sup> @ 100%
Ballast Water	11'078 m <sup>3</sup> , fully ballastable
Sewage Storage	91 m <sup>3</sup>

## AUXILIARY EQUIPMENTS AND PUMPS

Sewerage Treatment Plant	1 no Hamworthy model ST20 - 300 man capacity with pre-treatment macerator pumps, improved efficiency and additional UV-C light treatment reducing bacteria and E. Coli in the outflow
Water Maker	2 no x 50 m <sup>3</sup> /day seawater RO desalination plant with UV disinfection system
Bilge / Fire / Ballast Pump	2 x 150 m <sup>3</sup> /hr @ 80 m
Ballast Pump	2 x 300 m <sup>3</sup> /hr @ 30 m
Ballast Water Treatment System	1x Tech-Cross Electro-Clean System ECS300B
Machinery cooling / GS	2 x 200 m <sup>3</sup> /hr @ 30 m
Fuel Oil Cargo Pump	1 x 150 m <sup>3</sup> /hr @ 50 m
FW Cargo Pump	1 x 50 m <sup>3</sup> /hr @ 50 m
FW Domestic Pump	2 x 20 m <sup>3</sup> /hr @ 50 m
SW Domestic Pump	2 x 20 m <sup>3</sup> /hr @ 50 m
Sewage Discharge Pump	1 x 15 m <sup>3</sup> /hr @ 30 m
Sludge / Dirty Oil Discharge Pump	1 x 5 m <sup>3</sup> /hr @ 20 m
FO Transfer Pump	1 x 5 m <sup>3</sup> /hr @ 30 m
Lube Oil Transfer Pump	1 x 5 m <sup>3</sup> /hr @ 20 m
Hydraulic Oil Transfer Pump	1 x 2 m <sup>3</sup> /hr @ 20 m
Hot Water Circulating Pump	2 x 15 m <sup>3</sup> /hr @ 30 m

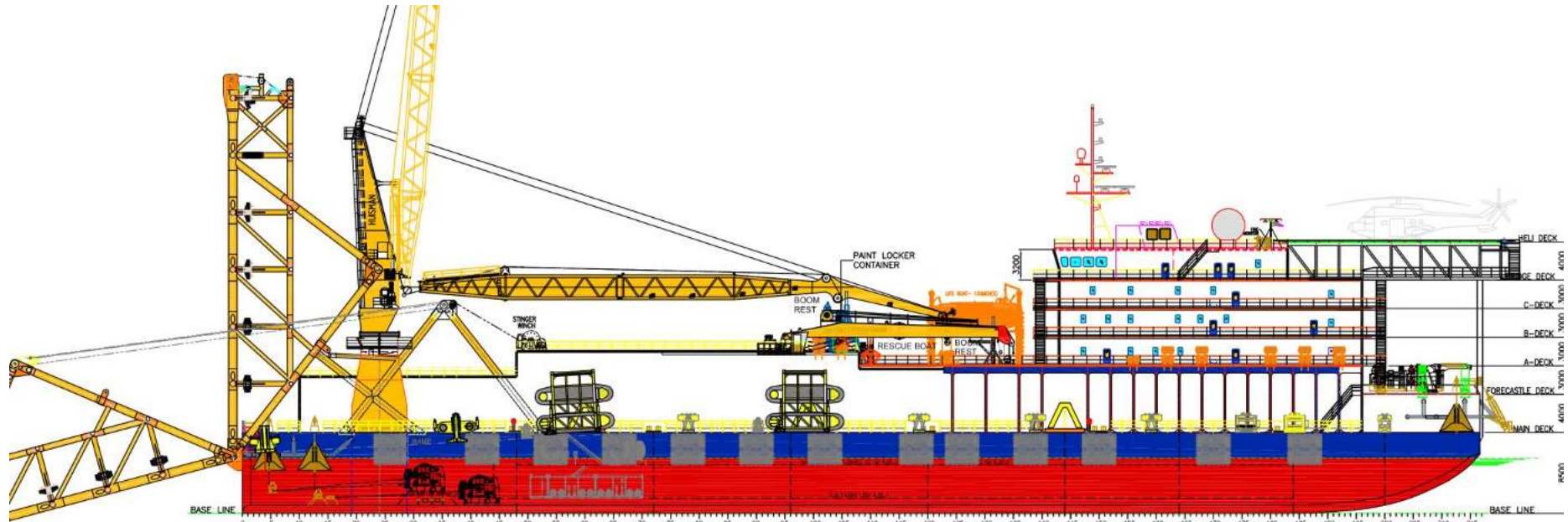
## COMMUNICATION & NAVIGATION

Communication System	2 – GMDSS MF / HF radio VHF DSC radio Inmarsat, Mini Sat-C Explosion proof IS portable VHF radio Aviation fixed & Portable transceiver Non-direction radio beacon SSAS EPIRB SART Distress safety system area KU band satellite system CCTV system Satellite TV antenna PA system & talkback system Integrated telephone system Sound powered telephone system LAN System
Navigation System	Radar, Kodon MDC 7912P GPS positioning Navtex AIS Compass Weather stations Searchlight, inclinometer and daylight Navigation lights Signaling lamp Fog horn / air horn

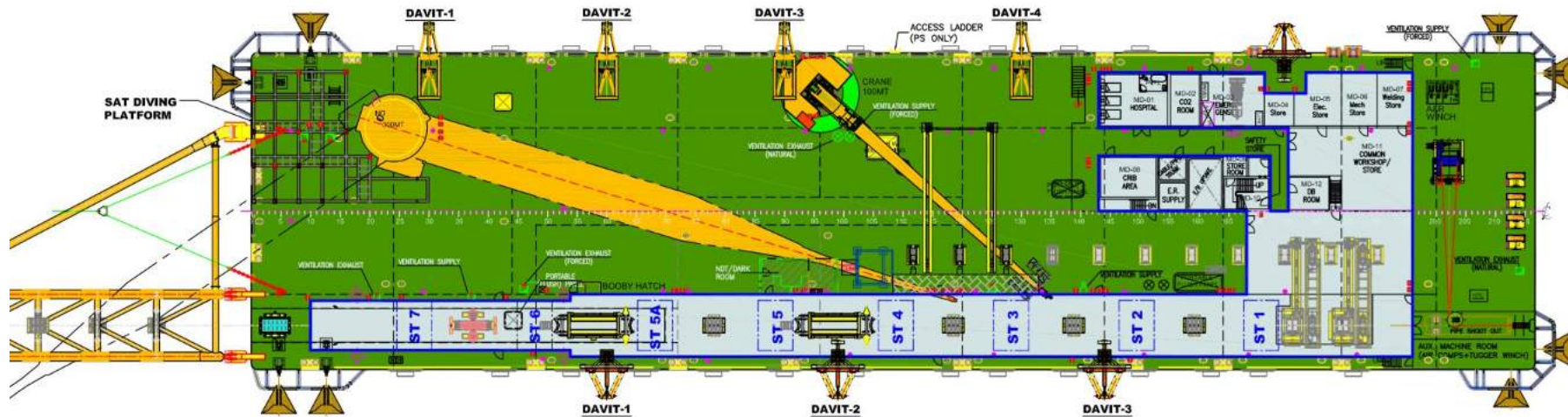
## SAFETY EQUIPMENT

Life Boats	2 x 130 person (SOLAS compliant, ABS class) with suitable gravity luffing type davits
Rescue Boats	2 x 40 HP rescue boats each suitable for 6 persons fitted with suitable davits
Navigation	COLREGS compliant arrangement
Life Rafts	23 x 25 person (SOLAS compliant)
Immersion Suit	264 (25x M, 167x L, 60x XL, 12x Adult 1.5to1.9m)
LifeJacket & Buoy	461x Life Jacket & 24x Buoy
Fire Detection, Alarm & Fighting	Fire detection & alarm system Water mist & sprinkler system Fire hydrants Portable & Non-Portable fire extinguishers CO <sub>2</sub> system Helideck foam system pump, flow 160 m <sup>3</sup> /hr @ 80 m Emergency fire fight pump, capacity 50 m <sup>3</sup> /hr @ 120 m





**STBD PROFILE**



**MAIN DECK**

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- Solid pipe and flexible lay track records
- Min. vessel draft of 3.2 m only
- Record production of approx. 3.8 km/day (308 pipe joints welds in a day)



- 4 x 50 MT Luffing davits
- Accommodation for 260 pax with a helideck



- Well suited for platform hook-up support works and riser stalk-on



- 300 MT Huisman crane
- Large deck area