

Lewek Constellation

Ultra Deepwater Rigid & Flexible Pipelay/
Heavy Lift/Construction Vessel/DP3



Lewek Constellation, the latest addition to our world-class fleet of pipelay and construction vessels, is designed to deliver complex projects in a safe, efficient and reliable manner in water depths exceeding 3,000 metres. *Lewek Constellation* is an ice class, DP3, multi-lay vessel with heavy lift capabilities. It has superior manoeuvrability and a high transit speed with a multi-lay system that can support both rigid and non-rigid pipelines. The vessel has a 3000mT heavy lift crane. Vessel delivery is scheduled for Q2 2013 and it will be ready for operation, after fitting the 3000mT crane and MLS, in Q2 2014.

SPECIFICATIONS

LENGTH

178.27 m

BREADTH

46.0 m

DECK AREA

4,200.0 m² without reels

DP

Dynpos Autro (DP3)

ACCOMMODATION

239 POB

STORAGE

Rigid: 4 X 1200mT
Reels with Cradles

Flexible: 2 X 1250mT
Below deck Carousels

HELIDECK

Suitable for Sikorsky S-92
and S-61N CAP 437

CRANES

1 x 3000 mT Huisman
Offshore Mast Crane

1X 80mT Deck Crane

7 x Knuckle Boom
Cranes

PIPE LAY CAPACITY

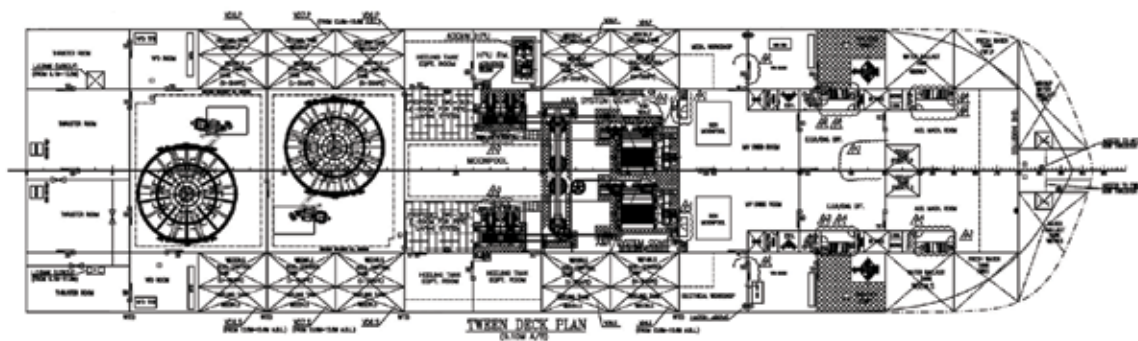
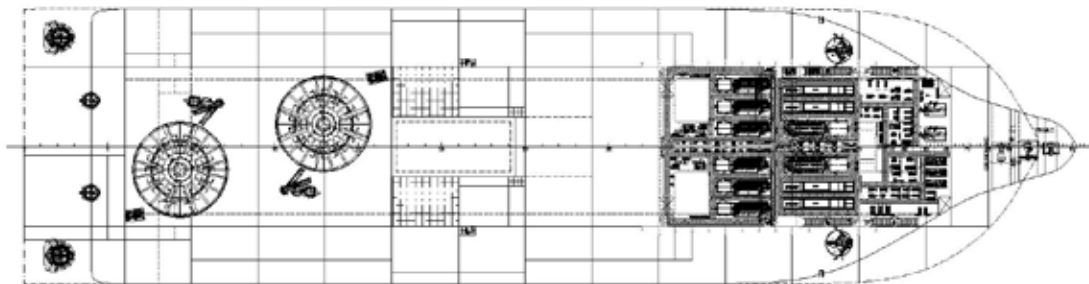
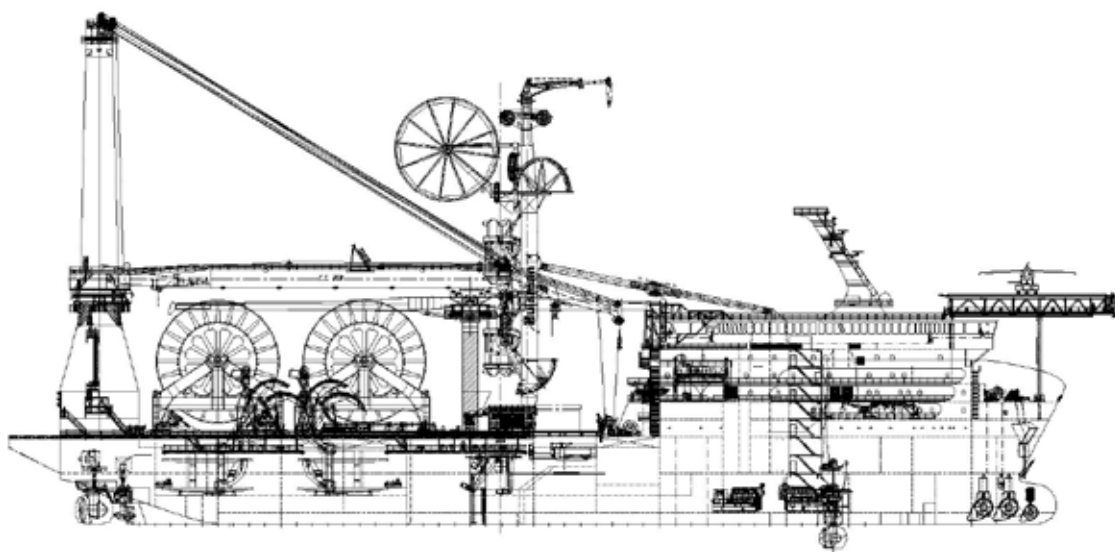
Rigid: 4" - 16" OD
Flexible: 4" - 24" OD

TOWER CAPACITY

Tensioners: 800mT
Hang-off Clamp: 900mT
A&R: 1200mT

Lewek Constellation

GENERAL SPECIFICATIONS



CLASSIFICATION

Det Norske Veritas (DNV)
 ✱ 1A1 ICE Pipe Laying Vessel COMF-V(3)C(3) HELDK-SH
 CRANE ECO DYNPOS-AUTRO NAUT-OSV(A) CLEAN DESIGN
 BIS

BUILDER

Builder.....SOFEL, Vung Tau (Vietnam)
 Year Built.....2013
 Flag.....Panama

MAIN PARTICULARS

Length Overall.....178.27 m
 Breadth Moulded.....46.0 m
 Depth Moulded.....15.6 m
 Draft (Max).....10.5 m

TONNAGE

GRT.....48,786 mT
 NRT.....14,636 mT

PERFORMANCE

Transit Speed.....12.5 knots

MANOEUVERING

Stern Azimuth Thrusters Outboard.....2 x Rolls Royce, 6,000 kW ea
 Stern Azimuth Thrusters Inboard.....2 x Rolls Royce, 2,000 kW ea
 Retractable Thrusters FWD.....2 x Rolls Royce, 3,000 kW ea
 Bow Thrusters Tunnel.....2 x Rolls Royce, 2,700 kW ea
 Bow Thruster Tunnel.....1 x Rolls Royce, 1,420 kW ea

DYNAMIC POSITIONING

DP 3 System.....K-POS (Kongsberg Maritime)

DP REFERENCE SYSTEMS

Gyro Compass.....3 x C.Plath Navigath x MK1
 Taut Wire.....1 x LT MK 15 / 500
 DGPS.....2 x Veripos, 1 x DGPS, GLONASS
 Laser Reference.....1 X CyScan
 Acoustic Reference.....1 x Sonardyne and 1 x Hipap 500
 Radar Reference.....1 x Radius 1000D

ELECTRIC POWER GENERATOR

Main Generators.....2 x MAK 12M32C: 5760 kW
6 x MAK 6M32C, 2880 kW
4 x Hyundai, 2565 kW
 Power Distribution.....4-split switchboard; 6.6kV
 Emergency Generator.....1 x Caterpillar C32, 790 kW

CARGO DECK

Deck Area.....4,200 m² (without reels)
 Deck Strength.....10.0 T/m²

ACCOMMODATION

Cabins.....239 Single Person Cabin
 Other.....Personnel Elevator
Owner/Client Offices and meeting rooms
Recreation Rooms/Smoking Rooms/Gymnasium

COMMUNICATIONS EQUIPMENT

Dual VSAT.....2 x VSAT KU band / C-Band
 High Bandwidth Internet.....2 x 2048kb/sec

SAFETY EQUIPMENT

Life Boat.....2 x 120 persons, NPT95F
 Life Raft.....12 x 20 persons
 Fast Rescue Boat.....2 x 21 persons, MAKO 655

HELIDECK

Dimensions.....27.5m x 27.5 m (Sikorsky S-92/S-61N)

MISCELLANEOUS

Water Maker.....3 x 60 T/day, AQUA-SEP Series 3

PIPE LAY EQUIPMENT

Huisman Multi Lay System - Combined pipelay tower for reel lay and flex lay through a centerline moon pool.
 Pipe Outer Diameter.....Reel lay 4"-16" & Flex lay 4"-24"
 Tensioners.....2 x 400mT (Rigid) or 2 x 260mT (flexible)
 Hang-off Clamp.....(Rigid) 900mT
 Pipe Storage.....6 x 1150mT reels for rigid pipe (removable)
2 x 1250mT carousels for flexible pipe (fixed)
 A & R System.....2 x 600mT traction winches
 Steel Wire Rope Storage Capacity.....4000m
 Future J-Lay Option

DECK EQUIPMENT

Main Crane.....Huisman Offshore Mast Crane
 Main Hoist.....3,000mT at 25m radius, 80m hook travel
 Aux. Hoist.....1,000mT at 50m radius, 330m hook travel
 Whip Hoist.....1-fall 80mT, 2,000m hook travel
2-fall 200mT, 1,000m hook travel
 Deck Crane.....TYH - 1 x 80mT @ 15.0m
 Miscellaneous Handling Cranes.....7 x Effer MP Cranes

ROV AND SURVEY EQUIPMENT

Moon pools (enclosed by hangar).....2 x 5m x 5m
 ROV's.....2 x 150 HP, Schilling HD Work Class ROV
Water Depth Rating: 4000m
 Launch and Recovery RAPP Hydema LARS system with 1600m TMS
 Hydrophone Trunks.....Sonardyne; Ranger 2, fusion 6G LBL
HiPAP 500



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AMERICAS

2103 Citywest Blvd. Ste. 500,
Houston, TX 77042, USA

T: (+1 832) 487 7300
E: emas.am@emas.com

EUROPE

Lilleakervn 2a 0238
Oslo, Norway

PO Box 247 Lilleaker 0216
Oslo, Norway

T: (+47) 2212 7500
E: emas.eu@emas.com

ASIA PACIFIC

15 Hoe Chiang Road
#28-01 Tower Fifteen
Singapore 089316

T: (+65) 6349 8535
E: emas@emas.com