

Lewek Constellation

Ultra deepwater Rigid & Flexible Pipelay / Heavy Lift / Construction Vessel / DP 3

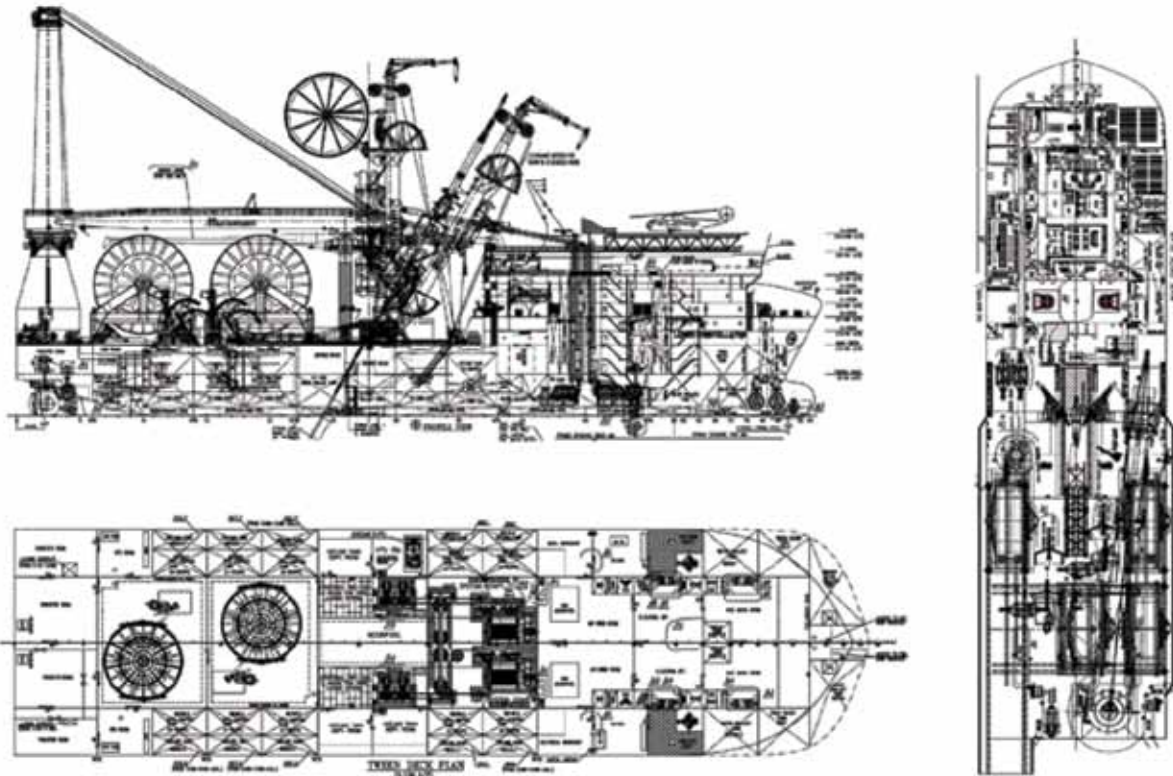


The **Lewek Constellation**, the latest addition to our world-class fleet of pipelay and construction vessels, is designed to deliver complex projects in a safe, efficient and reliable manner in water depths exceeding 3,000 metres. The **Lewek Constellation** is an ice classed, DP3, multi-lay vessel with heavy lift capabilities. It has superior maneuverability 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. The vessel is expected to be completed late 2013 for work in early 2014.

SPECIFICATIONS

LENGTH 178.0 m	HANG OFF CLAMP 900 mt
BREADTH 46.0 m	STORAGE Rigid: 4 no. Reels each 1,200 mt Flexible: 2 No. Carousels each 1, 250
DECK AREA 4,200.0 m ² without reels	A&R 2 x 600 mt traction winches tandem use, 3,000
DP Dynpos Auto (DP3)	ACCOMMODATION 239 men
CRANES 1 x 3,000 mt Huisman Offshore Mast Crane	HELIDECK Suitable for Sikorsky S-92 and S-61N CAP 437
PIPE LAY TYPE Rigid and Flex Systems, through moonpool	
PIPE LAY CAPACITY Rigid: 4" - 16" OD Flexible: 4" - 24" OD	
TOWER TENSIONERS 2 x 400 mt (retractable)	

Lewek Constellation General Specification



CLASSIFICATION

Det Norske Veritas
DNV 1A1 Ship Shaped Pipelaying Vessel, Dynpos Auto, ICE-1A, Clean

DESIGN

Held-SH, Crane, ECO, BIS, COMF (V3, C3), NAUT-OSV (A)

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

MAIN PARTICULARS

Length Overall 178.0 m
Breadth Moulded 46.0 m
Depth Moulded 15.6 m
Draft (Max)..... 9.75 m

TONNAGE

Deadweight 18,000 T
GRT 48,500 T
NRT TBA

MANEUVERING AND POSITIONING

Stern Azimuth Thruster Fwd 2 x Rolls Royce Aquamaster, 5,500 kW ea
Stern Azimuth Thruster Aft 2 x Rolls Royce Aquamaster, 2,000 kW ea
Retractable Thruster Fwd 2 x Rolls Royce Aquamaster, 3,000 kW ea
Bow Thrusters Tunnel Fwd 2 x Rolls Royce, 2,700 kW ea
Bow Thruster Tunnel Fwd 1 x Rolls Royce, 1,420 kW ea

DYNAMIC POSITIONING

DP 3 System KONGSBERG
DP Position Reference Interface
Taut Wire 1 x TBA
DGPS 2 x TBA
Laser Reference 1 x CyScan , 1 x RadarScan
Acoustic Reference 2 x TBA
Gyro 3 x TBA
Anemometer 3 x TBA
VRU 3 x TBA

* This vessel specification is given in good faith and assumed to be accurate at the time of print.
** Owners will not be liable for errors, omissions, or misprints published. Owners reserve the rights to amend this specification without notification.

ELECTRIC POWER GENERATOR

Main Generator	2 x MAK 12M32C : 5760 kW
Auxiliary Generator	6 x MAK 6M32C, 2880 kW 4 x PowerGen, 2200 kW
Emergency Generator	TBA

CARGO DECK

Deck Area	4,200 m ² (without reels)
Deck Strength	10.0 T/m ²

STORAGE CAPACITY

Fuel Oil	2,000 m ³
Potable Water	1,600 m ³
SWB	33,000 m ³
Industrial Water	500 m ³

ACCOMMODATIONS

Berth / Cabin	239 x 1 berth cabin
Total	239 men

AMENITIES

General Workshop - 1	Officer Recreation	Crew Mess Room - 1
ROV Workshop - 1	Room - 1	Gymnasium - 1
Conference Room - 1	Crew Recreation	Prayer Room - 1
Office - 12	Room - 1	Hospital - 1
Site Office - 3	Officer Mess Room - 1	Medic Room - 1

DECK EQUIPMENT

Crane	Huisman Offshore Mast Crane
Main hoist	3,000mt at 25m radius, 80m hook travel
Aux. hoist	1,200mt at 30m radius, 330m hook travel
Whip hoist	1-fall 80mt, 2,000m hook travel 2-fall 160mt, 1,000m hook travel
Handling Crane	1 x 100T(Static) / 70T(Dynamic) @ 6.1m

PIPE LAY EQUIPMENT

Type	Combined pipelay tower for reel lay and flex lay over a moonpool
Pipe Outer Diameter	Reel lay 4"-16" & Flex lay 4"-24"
Tensioners	2 x 400mt (Rigid) or 2 x 260mt
Hang-off Clamp	(flexible) 900mt
Pipe Storage	4 x 1,200mt reels for rigid pipe (removable) 2 x 1,250mt under-deck carousels for flexible pipe
A & R System	2 x 600mt traction winches, single or tandem use
Steel Wire Rope Capacity	3,800 m x 125 mm (Ø) each winch

ROV

2 Shilling HD work class systems, 150HP, launchable from ROV hangars with dedicated moonpools	
LARS	2 x launch and recovery systems inside the ROV hangars, water depth 3,000m

NAVIGATION AND COMMUNICATIONS EQUIPMENT

S-Band ARPA Radar	1 x Furuno FAR-2837S
X-Band Radar	1 x Furuno FAR-2827

X-Band Chart Radar	1 x Furuno FCR 2827
DGPS	1 x Furuno GP-150
Gyro Compass	1 x Anschutz Standard 22
Magnetic Compass	1 x Cassens & Plath Model REFLECTA 1
Autopilot	1 x Furuno FAP-2000
Echo Sounder	1 x Furuno FE-700
Dopper Speed Log	1 x Furuno DS-80
AIS	1 x Furuno FA-150
VDR	1 x Furuno VR-3000
Electronic Chart Display	1 x Furuno FEA-2807

Radio & Comms System

GMDSS Area 3	1 x Furuno RC-1800T
EPIRB	2 x McMurdo E5 Smartfi nd
SART	2 x McMurdo S4
GMDSS 2-Way Portable VHF	3 x McMurdo R2
Integrated Telephone System	1 shipset x Vingtor ACM
Sound Powered Telephone	1 shipset x Vingtor VSP
Public Address System	1 shipset x Vingtor SPA PA/GA
Talkback System	1 shipset x Vingtor ETB-5

HELICOPTER COMM EQUIPMENT

Non Directional Beacon	1 x Nautel VR125
VHF Airband Transceiver	1 x ICOM IC-A110#02
Portable Airband Transceiver	2 x ICOM IC-A6#22
Walkie Talkie / Handheld Radio	
Portable UHF Handheld	10 x Motorola GP-328
Nautical Equipment	
Navtex	1 x Furuno NX-700
Anemometer	1 x RM Young 05103-58
Weather Facsimile	1 x Furuno Fax-408
Mobile Internet / Telephone	
VSAT	TBA
GSM	1 x Ericsson G32 GSM

FIREFIGHTING EQUIPMENT

Pump (Main)	1 x 200 m ³ /hr @ 90 m head
Pump (GS / Fire)	2 x 200 m ³ /hr @ 90 m head
Pump (Helideck)	1 x 240 m ³ /hr @ 61 m head
Monitor (Foam/Water - Helideck)	3 x 360 m ³ /hr @ 5 bar

SAFETY EQUIPMENT

Life Boat	2 x 120 persons, Jiangyin NPT95, 10 x 25 persons
Life Raft	1 x 15 persons, Norsafe MAKO 6,55
Rescue Boat	FRB, Steyr 164HP,
Davit	NDM PRHE 30, SWL: 30kN

HELIDECK

Dimensions	27.5m x 277.5 m, (Sikorsky S-92/S-61N)
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MISCELLANEOUS

Oily Water Separator	TBA
Sewage Treatment	3 x 80 persons, Hamworthy, Super Trident, STC 20
Water Maker	3 x 60 T/day, AQUA-SEP Series 3

