

NORTH OCEAN 102

FLEX-LAY



Fast-transit, dynamically positioned (DP 2) vessel with a vertical lay system for flexible product installation across a wide variety of water depths

Official Flag: Malta

Built/Year: Spain - 2009

Class: DNV 1A1 HELIDK, DYNPOS-AUTR, EO, DK (+), CLEAN, COMF-(V3), NAUT-OSV(A)

Hull Dimensions

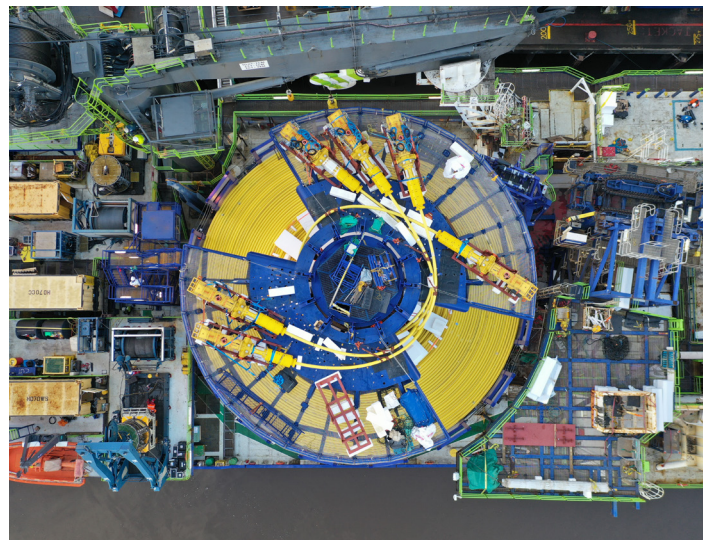
LOA: 133.6 m

Beam: 27 m

Depth: 9.7 m

Max. Operating Draft: 6.85 m

Deck Area: 2,400 m² @ 10 MT/m²



MCDERMOTT

Power

Distribution: 690 V, 440 V, 230 V, 60 Hz

Main Generator: 4 Wartsila @ 3,330 kW each

Emergency Generator: 1 Mitsubishi @ 600 kW

Shore Connection: 440 V, 3 @ 250 A

Propulsion

Main Propeller: 2 @ 3,500 Azipull thrusters

Bow Thrusters: 1 @ 1,500 kW swing up azimuth;

2 @ 1,500 kW tunnel

Speed: 12 kts (economical); 15 kts (max.)

Dynamic Positioning

System: Kongsberg, K-Pos Dual Dynamic Operating System

DP Class: Class 2, DNV Dynpos AUTR, also compliant with NMD

DP Reference System: 1 @ HIPAP 501; 2 @ DGPS;

1 @ Tautwire; 1 @ Fanbeam

Communication & Navigation

Communication: email / fax / phone

Radio: Inmarsat C- complies with DNV NAUT OSV (A).

Radio area A1, A2, A3, worldwide

Radar: 2

Gyro Compass: 3

Echo Sounder: 1

Doppler Speed Log: 1

Accommodation

Berths (air conditioned & heated): 199 persons total - 81 berths with private bathroom, CD/DVD player, TV and fridge

Medical: clinic with four beds

Other Facilities: galley, mess room, gym, sauna, recreation room, movie room, conference room, internet cafe, reception rooms, customer offices, survey offices, dedicated diving project office, workshops

Safety

Life Boat: 2 @ 106-persons

Life Raft: 8 @ 25-persons

MOB: 1

Rescue Boat: 1

Safety System: meets flag and regulatory body requirements

Tanks

Fuel: 2,000 m³

Ballast Water: 5,330 m³

Potable Water: 1,386 m³

Cranes

250MT NOV Knuckle Boom Crane: Main Block 250 MT AHC with 3000 m Water Depth, Max. Radius 36 m, Auxiliary Block 40 MT Double Fall or 20 MT Single Fall, Max. Radius 40 m

100MT MacGregor Knuckle Boom Crane: Main Block 100 MT AHC with 2,220 m Water Depth, Max. Radius 32 m, Auxiliary Block 10 MT Max. Radius 34 m

Provision Cranes: 2 Cranes rated at 2 MT, Max. Radius 12 m

Pipelay Equipment

Control Systems: fully integrated central control room for all lay components with local remote intervention

Lay System: Flex-Lay tower consisting of 300 MT single tensioner and 300 MT hang-off clamp, work platform complete with 2 @ 5 MT winches, 2 @ 5 MT gantry cranes

Basket/Bobbin Carousel: 4,000 MT capacity (including lay-tower on vessel); Level wind tower with 20 MT spooling tensioner and spooling platform

Min. Product OD: 50 mm

Max. Product OD: 620 mm

Winches: 30 MT; 20 MT and 2 @ 10 MT, 3 @ 5 MT tugger winches

Min. Water Depth: 10 m

Max. Water Depth: 3,000 m

Equipment

Water Maker: 2 @ 25 m³/day max. fresh water

Helideck: compatible with Super Puma AS 332/Sikorsky S 92A

Antipollution Equipment: per class requirement

Deck Equipment: deck chute, tools/spares container, compensated underbender and deck HPU

Contact

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