

McDERMOTT | VESSELS

# North Ocean 102

*Fast-transit, dynamically positioned (DP 2) vessel with a horizontal lay system for Subsea needs across a wide variety of water depths*



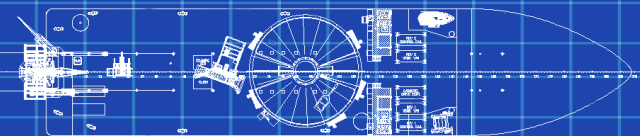
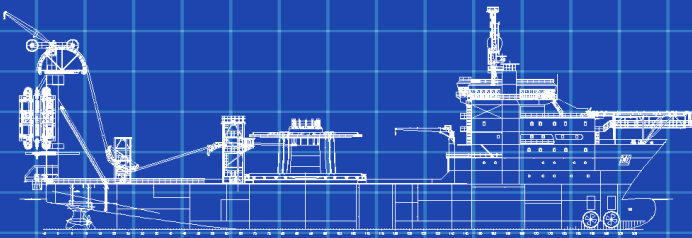
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## Highlights

- Modern reel pipelay vessel designed for global operations
- Pipelay capability (flex-lay) from 2 to 16.5 inches
  - 6,600 ST reel payload (subject to deck loading conditions)
- Pipelay tower with 330 ST tensioner



## Vessel Information

Official Flag: Malta

Built/Year: Spain - 2009

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

### HULL

Dimensions:

LOA: 438 ft

Beam: 89 ft

Depth: 32 ft

Max. Operating Draft: 22.5 ft

Moon Pool: 24 ft x 24 ft (sealed)

Mini Moon Pool: 2 @ circular, 3 ft diameter

Deck Area: 25,833 ft<sup>2</sup> @ 11 ST/ft<sup>2</sup>

### 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 500; 2 @ DGPS; 1 @ Tautwire;

1 @ Fanbeam

### POWER

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

Main Generator: 4 @ 3,330 kW

Emergency Generator: 1 @ 600 kW

Shore Connection: 440 V, 3 @ 250 A



## COMMUNICATION & NAVIGATION

Communication: email / fax / phone  
Radio: Inmarsat B- complies with DNV NAUT OSV (A). Radio area A1, A2, A3, worldwide  
Radar: 2  
Gyro Compass: 4  
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

## PROPULSION

Main Propeller: 2 @ 3,500 kW Azipull thrusters  
Bow Thrusters: 1 @ 1,500 kW swing up azimuth; 2 @ 1,500 kW tunnel  
Speed: 12 kts (economical); 15 kts (max)

## SAFETY

Life Boat: 2 @ 106-person  
Life Raft: 8 @ 25-person

MOB: 1  
Rescue Boat: 1  
Safety System: meets flag and regulatory body requirements

## TANKS

Fuel: 528,344 usg  
Ballast Water: 1,408,037 usg  
Potable Water: 366,143 usg

## CRANES

Carousel Crane: 10 ST telescopic 49.2 ft reach  
Knuckle Boom Crane: 1 @ 110 ST @ 49 ft / 28 ST @ 105 ft AHC 7,218 ft wire, 1 @ 275 ST AHC Port aft crane, max radius 120 feet (Main Hoist), 130 feet (Whip Line) 10,000 feet wire  
Provision Crane: 2 @ 2.2 ST @ 39 ft reach





## PIPELAY EQUIPMENT

Control Systems: fully integrated central control room for all lay components with local remote intervention  
Horizontal Carousel Reel: 7,716.2 ST capacity  
Min OD: 2 in  
Max OD: 16.5 in  
Tension Machine: 2 @ 264 kip 4 track (2-track optional) low squeeze load capable  
Tension Capacity: 528 kip  
Tensions: 2 @ 22 ST with 2 track low sq.cap.  
Compensator: product tension 1 to 22 ST with 9.5 ft stroke HC  
A & R Winch: 33.1 ST; will be upgraded to 220.5 ST  
A & R Hoist (Traction Winch): 308 kip  
Min Water Depth: 33 ft  
Max Water Depth: 3,937 ft current configuration; 10,000 ft planned configuration by Dec 2011

## EQUIPMENT

Water Maker: 2 @ 18,756 usg / day max fresh water  
Helideck: Compatible with Super Puma AS 332/Sikorsky S 92A  
Anti-pollution Equipment: per class requirement

