

# New reel-lay vessel

Pipelay

subsea 7



Subsea 7's most capable reel-lay vessel is designed to install complex rigid flowlines including pipe-in-pipe systems and electrical trace heating, in water depths up to 3,000m.

- Length 149m x breadth 33m
- Reel total storage capacity of 5,600t
- Single pipe up to 20-inch
- Maximum dynamic top tension 600t
- Accommodation for 120 persons
- Heave compensated 250t crane
- 2 x work-class ROVs

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## General Information

Classification	Lloyd's Register of Shipping (LRS), 100A1 WDL (10 t/m <sup>2</sup> ) Strengthening of work deck 10 t/m <sup>2</sup> (aft of frame 69), Helicopter Landing deck, ECO (BWT, NOx3, LMC, SPS, UMS, DP(AAA), CAC(3), ICC, NAV-1, IBS Safe bridge, *IWS, Ice Class 1D, Winterisation H(-30) D(-30)
Built	Royal IHC, Netherlands 2020
Flag State Authority	Isle of Man

## Dimensions

Length Overall	149.2m
Breadth	33m
Depth to maindeck	13m
Draught design	8.3m
Deadweight	10,800t
Gross Tonnage	21,334t
Net Tonnage	6,400t

## Manoeuvring and Propulsion Systems

Main Engines / Generators	3 x 3,500kW 3 x 4,000kW
Propulsion	3 x 3,200kW stern azimuth thrusters 2 x 2,400kW retractable bow azimuth thrusters 2 x 2,200kW bow tunnel thruster

## Dynamic Positioning Systems

DP Classification	DP (AAA) - Class III
DP System	Kongsberg
Reference Systems	3 x DGPS 2 x HiPAP 1 x taut wire HPR interface Radius interface

## Speed / Bollard pull

Service Speed	Approximately 13 knots
Maximum bollard pull	100t (in DP3 failure mode)

## Tank Capacities (100%)

Marine Gasoil	2,900m <sup>3</sup>
Potable Water	725m <sup>3</sup>
Ballast Water	3,900m <sup>3</sup>
Technical FW (in WB tank)	1,680m <sup>3</sup>
Heeling/Stabiliser Tanks	1,200m <sup>3</sup>

## Cargo Deck

Deck Area (main deck)	800m <sup>2</sup> (approximately)
Deck Strength	10t/m <sup>2</sup>

## Cranes

Main crane	250t, 3,000m, AHC
Auxiliary deck crane 1	50t, 3,000m, AHC
Auxiliary deck crane 2	15t
Ramp top crane	20t

The auxiliary cranes are certified for man-riding operations, as is the main crane whipline.

## ROV Systems

The vessel is fitted with two permanently installed side launching work-class XLX-EVO ROV systems rated to 3,000 metres.

## Pipelay Systems

The vessel is fitted with two reels. The maximum storage capacity of the main reel is 5,600t and can stow products from 4" to 20" diameter. The secondary reel is 1,600t. The maximum combined capacity is 5,600t.

The maximum dynamic top tension is 600t. This is from the upper tensioner 162t, lower tensioner 318t and 120t back tension.

The system can deploy PLETs measuring 5m x 5m x 10m.

The system is fitted with two 325t abandonment and recovery winches. These can be used in a combined mode to recover a catenary weight of 650t.

Other parameters;

- Ramp angle 45-95 degrees
- Piggyback DEH and rigid
- Flexible pipe top tension 210t
- Aligner diameter - 21m
- 75t spooling-on tensioner
- Twin level work station
- Straightener for 14" x 18" pipe-in-pipe

## Accommodation

120 persons	
Suites	4
Single Cabins	42
Double Cabins	37

## Helideck

The helideck is approved for Super Puma, S61N, S76 and S92. Kongsberg HMS 100 is fitted.

## Communications Systems

The vessel is fitted with fleet broadband.

May 2018