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# Seven Waves

## Vessel Info

*Full specification overleaf*

**Seven Waves** is a construction / flex-lay vessel capable of operating in water depths of up to 2,500m.

- Length 145.9m x breadth moulded 29.9m
- Service Speed 13.0 knots
- Accommodation 120 persons
- Special Purpose Ship Code Compliant
- 550t top tension VLS
- AHC crane: 400t at 16.5m
- 2x work-class ROVs

## Fast Facts

- Proven track record operating in water depths up to 2,500m in Brazil and US (Gulf of Mexico) for pre-salt area projects
- Work-class ROVs rated to 3,000m for pipelay and ROV support operations
- 400mt AHC mast crane and a large deck capable to handle heavy and complex equipment installation
- ECO Lloyds notation at design/service
- Vertical Lay System rated to 550t top tension capacity for flexible products and moonpool designed to hang off products (flexible and rigid) up to 600t load capacity



Seven Waves

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## General Information

Classification	<b>Lloyds Register, Pipe Laying Vessel, Helicopter Landing Area, +100A1, WDL(10t/m<sup>2</sup> FR.15-49, 5t/m<sup>2</sup> FR.10-15 and FR.49-119), +IWS, ECO, +LMC, UMS, ICC, DP(AA), NAV1, IBS, CAC3, Shipright (SERS, BWMP(S), MPMS (CM), ThCM, IHM-EU+), EDD.</b>
Flag State Authority Port of Registry:	<b>Brazil Government Rio de Janeiro</b>

## Principal Dimensions

Length Overall	<b>145.9m</b>
Breadth moulded	<b>29.9m</b>
Depth to maindeck	<b>13.0m</b>
Draught (design)	<b>7.2m</b>
Draught (summer)	<b>8.3m</b>
Deadweight (operational)	<b>7,025t</b>
Deadweight (max)	<b>11,312t</b>
Max displacement	<b>27,013t</b>
Gross Tonnage	<b>17,283t</b>
Net Tonnage	<b>5,185</b>
Air draft (with TLS vertical)	<b>66.9m at 6.6m draught</b>
Air draft (with TLS inclined)	<b>47.4m at 6.6m draught</b>

## Main Deck

Deck strength	<b>10t/m<sup>2</sup> partially on aft deck, 5t/m<sup>2</sup> elsewhere</b>
Deck area	<b>approx 1,200m<sup>2</sup></b>

## Tank Capacities (100%)

Marine Gas Oil	<b>2,208m<sup>3</sup></b>
Potable Water	<b>997m<sup>3</sup></b>
Ballast Water	<b>4,704m<sup>3</sup></b>
Anti-Heel tanks	<b>1,525m<sup>3</sup></b>
Technical FW (in WB tanks)	<b>633m<sup>3</sup></b>

## Power and Propulsion

Service Speed	<b>13 knots (approx)</b>
Main Engines / Generators / Propulsion (Wartsila)	<b>6x 3,690kW (Diesel electric) 3x 2,950kW stern azimuth thrusters 2x 2,400kW retractable bow azimuth thrusters 2x 2,200kW bow tunnel thrusters</b>

## Vessel Speeds and Fuel Consumption

Maximum Speed	<b>13.5 knots</b>
Economic Speed	<b>10.0 knots</b>
Economic Speed Fuel Consumption	<b>30.9m<sup>3</sup>/day</b>

## DP Systems

DP Classification	<b>DP (AA) - Class II</b>
DP System	<b>KPOS DP22 dual redundancy</b>
Reference Systems	<b>3x DGNSSs (3x Veripos LD 900) 2x HiPAP 501 1x Cyscan MK4 (1x Laser Units) 2x Radius 1000 (2x Radius Interrogators) 3x MGCs (Kongsberg R3) 4x Wind Sensors (4x Gill US)</b>
Environmental Sensors	

## Cranes

<b>Huisman Mast Crane</b>	
Main line (AHC)	<b>400t</b>
Whip line (man riding)	<b>40t at 58m</b>
<b>Cargotec auxiliary knuckle boom crane</b>	
Main line (AHC)	<b>25t</b>
Whip line (man riding)	<b>10t</b>
<b>HS Marine Service Crane on the TLS tower</b>	
Main line (man riding)	<b>25t</b>
Port side	<b>5t</b>
Starboard side	<b>4t harbour lift</b>

## Pipelay Systems

The vessel is fitted with two underdeck storage carousels, with a capacity for 2,500t and 1,500t of product. A vertical (tiltable) lay system (550t top tension capacity) is permanently installed for deployment of a range of flexible products with a diameter from 100 to 630mm. The lay tower can operate at up to 10° and is fitted with two tensioners, each of 275t capacity which can be retracted clear of the firing line, and with two wire centralisers. Two A&R winches are fitted of 613t and 200t, both with 2,500m of wire. The moonpool is designed to hang off products up to 605t and is fitted with a mechanism to allow the product to be rotated under full load. There are two 30t deck loading tensioners on the stern of the vessel - one on each side.

## ROV Systems

The vessel is fitted with two over side launched work-class Hercules type ROVs rated to 3,000m.

## Helideck

D value	<b>22.2m</b>
T value	<b>12.8t</b>

The vessel is fitted with an approved and certified helideck suitable for Sikorsky S92 and Super Puma operations.

## Comms Systems

The vessel is fitted with an extensive communications system including a dual KU /C Band Vsat satellite communication system, WIFI entertainment system, 2x Inmarsat C and Inmarsat F systems.

## Accommodation

120 persons	
Single cabins (with dayroom)	<b>4</b>
Single cabins	<b>40</b>
Double cabins	<b>38</b>
Hospital (not included in total)	<b>3</b>



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