Seven Waves

Vessel Info

- **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
The Subsea 7 fleet comprises of vessels that have exceptional versatility, capable of operations worldwide including; pipelay, construction, survey, remote intervention, diving support, heavy lifting operations, renewables and decommissioning.

### General Information

- **Classification:** Lloyds Register, +100A1, +LMC, UMS, DP(AA), CAC(2), EP, ICC, IBS, *IWS, NAV-1, UD strengthened for load of 10t/m² and 5t/m², Helicopter Landing Area
- **Built / Delivery:** Merwede Shipyard, The Netherlands / 2014
- **Flag State Authority:** Isle of Man Government

### Principal Dimensions

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

### Main Deck

- **Deck strength:** 10t/m² partially on aft deck, 5t/m² elsewhere approx 1,200m²
- **Deck area:** approx 1,200m²

### Tank Capacities (100%)

- **Marine Gas Oil:** 2,206m³
- **Potable Water:** 997m³
- **Ballast Water:** 4,704m³
- **Anti-Heel tanks:** 1,525m³
- **Technical FW (in WB tanks):** 633m³

### DP Systems

- **DP Classification:** DP (AA) - Class II KPOS DP22 dual redundancy
- **DP System:** 2x Veripos DGPS
- **Reference Systems:** 1x Seapath DGPS, 1x HiPAP 500, 1x Radius, 1x Cyscan, 2x Cyscan MK4, 2x RADIUS 1000

### Power and Propulsion

- **Service Speed:** 13 knots (approx)
- **Main Engines / Generators / Propulsion:**
  - 6x 3,690kW (Wartsila diesel electric)
  - 3x 2,950kW stern azimuth thrusters (Wartsila)
  - 2x 2,400kW retractable bow azimuth thrusters (Wartsila)
  - 2x 2,200kW bow tunnel thrusters (Wartsila)

### Cranes

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

### Accommodation

- **120 persons**
  - Single cabins (with dayroom): 4
  - Single cabins: 40
  - Double cabins: 38
  - Hospital (not included in total): 3

### Helideck

- **D value:** 22.2m
- **T value:** 12.8t

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.

### 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.