



## VESSELS Construction

### Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation



subsea 7

# Seven Merlin

## Vessel Info

*Full specification overleaf*

**Seven Merlin** is a state-of-art DP 2 class, versatile multi purpose supply - light construction vessel, featuring an advanced heave compensated 250t crane and two work class ROVs, designed for operating at 3,000m depth.

- Length 113m x breadth 22m
- Deck area 1,200m<sup>2</sup>
- Heave Compensated Knuckle Boom 250t crane, for 3,000m depth operations
- Accommodation for 120 persons
- 2x work-class ROVs, 3,000m depth

## Fast Facts

- Clean design class notation, with arrangements for controlling and limiting operational emissions and discharges.
- BIS class notation, designed for in-water survey requirements.
- COMF-C(3)-V(3) Class Notation, designed for enhance crew comfort by improving indoor climate and reduce noise and vibration.



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### General Information

Classification	<b>DNV 1A1, E0, SF, DYNPOS AUTR, CLEAN DESIGN, NAUT AW, COMF-C(3)-V(3), HELDK-SH, BIS, SPS, HL(1.8), DK(+)</b> Design Company Havyard, Yard Number 115 Havyard, 2014
Built	<b>Liberia</b>
Flag State Authority	

### Principal Dimensions

Length Overall	<b>113m</b>
Breadth	<b>22m</b>
Depth (to main deck)	<b>10m</b>
Draught	<b>7.5m</b>
Gross Tonnage	<b>9,177t</b>

### Main Deck

Deck area	<b>1,200m<sup>2</sup></b>
Deck strength	<b>10t/m<sup>2</sup></b>

### Tank Capacities (100%)

Fuel oil, total	<b>1,880m<sup>3</sup></b>
Fresh water, total	<b>920m<sup>3</sup></b>
Water ballast	<b>5,600m<sup>3</sup></b>
LFL	<b>220m<sup>3</sup></b>

### Power and Propulsion

Main Engines	<b>5x Caterpillar 3516C-JTS (2,350kW each), total 11,750kW</b>
Emergency Generator	<b>1x Caterpillar C9 DITA (175kw)</b>
Supply System Voltage	<b>690V, 60Hz</b>
FWD Bow Thrusters	<b>2x Brunvoll Tunnel Thrusters FU100LTC2750 (1,500kW each)</b>
FWD Retractable Thruster	<b>1x Brunvoll Retractable Azi Thruster AR-80-LNC2100 (1,500kW)</b>
AFT Propulsion Thruster	<b>2x Steerprop Azimuth CRP Thrusters SP35 CRP (3,200 kW each)</b>

### Vessel Speeds and Fuel Consumption

Maximum Speed	<b>14.5 knots</b>
Economic Speed	<b>11-12 knots</b>
Economic Speed Fuel Consumption	<b>16.0m<sup>3</sup>/day</b>

### Cranes

Main Crane	<b>Macgregor Knuckle Boom Heave Compensated 250t at 13m outreach, 3,000m depth, c/w man riding, SB main deck</b>
Auxiliary Crane	<b>Macgregor Knuckle Boom Heave Compensated 20t at 10m outreach, 3,000m depth, c/w man riding, PS main deck</b>
Deck/Provision Cranes	<b>2x Palfinger Knuckle Boom 2t x 10m radius, PS and SB mezzanine deck</b>

### DP Systems

DP Classification	<b>Kongsberg</b>
DP System	<b>K-POS DP-21</b>
Reference Systems	<b>1x HiPAP 500 Kongsberg (1x spare HiPAP duct) 2x DGPS Veripos 1x Cyscan 3x Gyro Compasses Raytheon Anschutz, STD 22 Compact, Type 110 - 233 NG002 3x MRU-D-001 Kongsberg Seatex</b>

### Helideck

Helicopters	<b>Super Puma and Sikorsy S-92 with D value of 21m, DNV Class Notation HELDK-SH</b>
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### ROV Systems

ROVs	<b>2 WROW Centurion SP (CSP 06 and CSP 17) rated to work at 3,000m depth</b>
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### Moonpool

Single Moonpool Midship	<b>8m x 8m dimension</b>
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### Comms Systems

Radars	<b>1x S-Band/1x X-Band/1x Slave Radar Monitor</b>
Autopilot	<b>Raytheon Anschutz Nautopilot 5000 series</b>
Gyro	<b>3x TSS Brown</b>
GPS/DGPS	<b>2x Furuno GP-150</b>
Echo Sounder	<b>1x Navigation Echo Sounder/1x Dual Axis Doppler Log</b>
EI-Chart/ECDIS	<b>5x Raytheon Anschutz User Stations + 1 Raytheon Anschutz Planning Station (AVCS Charts)</b>
Voyage Recorder	<b>1x Furuno VD 30001 1x Furuno FA 150</b>

### Life Saving Appliances

Lifeboats	<b>2x Harding 70 POB (each side)</b>
Liferafts	<b>4x Survitec 25 POB (2x each side)</b>
Rescue Boat	<b>1x Stinger 630 Jet 6 POB</b>

### Accommodation

Berths	<b>26 double</b>
Berths	<b>28 single</b>



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