



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 1,200m²
- 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.



Seven Merlin

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General Information

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

Principal Dimensions

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

Main Deck

Deck area	1,200m ²
Deck strength	10t/m ²

Tank Capacities (100%)

Fuel oil, total	1,880m ³
Fresh water, total	920m ³
Water ballast	5,600m ³
LFL	220m ³

Power and Propulsion

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

Vessel Speeds and Fuel Consumption

Maximum Speed	14.5 knots
Economic Speed	11-12 knots
Economic Speed Fuel Consumption	16.0m ³ /day

Cranes

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

DP Systems

DP Classification	Kongsberg
DP System	K-POS DP-21
Reference Systems	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

Helideck

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

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

Single Moonpool Midship	8m x 8m dimension
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Comms Systems

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

Life Saving Appliances

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

Accommodation

Berths	26 double
Berths	28 single



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The Subsea7 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.

