Seven Sun is a construction / flex-lay vessel capable of operating in water depths of up to 3,000m.

- Length 145.9m x breadth moulded 29.9m
- Service Speed 13.0 knots
- Accommodation 120 persons
- Special Purpose Ship Code Compliant

Full specification overleaf

Fast Facts

- Proven track record operating in water depths up to 3,000m in Brazil for pre-salt area projects
- Work-class ROVs rated to 3,000m for pipelay and ROV support operations
- 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, Pipe Laying Ship, Helicopter Landing Area, WDL(101/ m2 Aft to Fr.120), *IWS, LI, ECO, LMC, UMS, OCC, DP(AA), NAV1, IBS, CAC3*

**Built / Delivery**
Merweide Shipyard, The Netherlands / 2016

**Flag State Authority**
Isle of Man Government

**Port of Registry**
Douglas

### Principal Dimensions

- **Length Overall**: 145.9m
- **Breadth moulded**: 29.9m
- **Depth to maindeck**: 13.0m
- **Draught (operational)**: 8.3m
- **Deadweight (operational)**: 7,025t
- **Max displacement**: 27,012t
- **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
- **Deck area**: approx 1,200m²

### Tank Capacities (100%)

- **Marine Gas Oil**: 2,197m³
- **Potable Water**: 998m³
- **Ballast Water**: 4,696m³
- **Anti-Heel tanks**: 1,525m³
- **Technical FW (in WB tanks)**: 633m³

### DP Systems

- **Classification**: DP (AA) - Class II, KPOS DP22 dual redundancy
- **Reference Systems**: 3x Veripos DGPS, 2x HiPAP 501, 2x Cyscan MK4, 2x RADIUS 1,000

### Power and Propulsion

- **Service Speed**: 13 knots (approx)
- **Main Engines / Generators / Propulsion**:
  - 6x 3,840kW (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)
  - Total thruster power 18,050kW

### Cranes

- **MacGregor Offshore Knuckle Boom Crane**
  - Main line (AHC): 100t
  - Whip line (man riding): 10t

- **MacGregor 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

- **HS Marine Combined Knuckle Boom/Telescopic Stern Crane**
  - Main line: 30t

- **TTS Stores / Moonpool Handling Knuckle Boom Crane**
  - Main line: 5t

- **TTS Stores / Moonpool Handling Telescopic Boom Crane**
  - Main line: 10t

### 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 50 to 647.6mm. 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. The system has two A&R winches, one 600t capacity with 3,500m wire and one 200t capacity with 3,000m wire. The moonpool is designed to hang off products up to 600t and is fitted with a mechanism to allow the product to be rotated under full load.

### ROV Systems

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

### 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.

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