



VESSELS
Construction /
Flex-lay

Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation



subsea 7

Seven Sun

Vessel Info

Full specification overleaf

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
- 100t AHC crane
- 25t AHC crane
- 2x work-class ROVs

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



Seven Sun

subsea 7

General Information

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Lloyds Register, Pipe Laying Vessel, Helicopter Landing Area, +100A1, WDL(10t/m² FR.15-49, 5t/m² 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, LI. |
| Flag State Authority | Brazil Government |
| Port of Registry: | Rio de Janeiro |

Principal Dimensions

| | |
|-------------------------------|------------------------------|
| Length Overall | 145.9m |
| Breadth moulded | 29.9m |
| Depth to maindeck | 13.0m |
| Draught (operational) | 7.2m |
| Draught (max) | 8.3m |
| Deadweight (operational) | 7,025t |
| Deadweight (max) | 11,312t |
| Max displacement | 27,012t |
| Gross Tonnage | 18,666 |
| Net Tonnage | 5,185t |
| 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 |

Vessel Speeds and Fuel Consumption

| | |
|---------------------------------|------------------------------|
| Maximum Speed | 13.5 knots |
| Economic Speed | 10.0 knots |
| Economic Speed Fuel Consumption | 34.3m³/day |

Power and Propulsion

| | |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Service Speed | 13 knots (approx) |
| Main Engines / Generators / Propulsion (Wartsila) | 6x 3,840kW (diesel electric) 3x 2,950kW stern azimuth thrusters 2x 2,400kW retractable bow azimuth thrusters 2x 2,200kW bow tunnel thrusters Total thruster power 18,050kW |

DP Systems

| | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| DP Classification | DP (AA) - Class II |
| DP System | KPOS DP22 dual redundancy |
| Reference Systems | 3x DGNSSs (3x Veripos LD 900) 2x HiPAP 501 (with Hain) 2x Cyscan MK4 (2x Laser Units) 2x Radius 1002 (2x Radius Interrogators) |
| Environmental Sensors | 3x MGCs (Kongsberg R3) 4x Wind Sensors (2x Gill US + 2x Mech) |

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 |

ROV Systems

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

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.

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.

Accommodation

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



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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.

