



VESSELS

Construction /
Flex-lay

Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation



subsea 7

Seven Cruzeiro

Vessel Info

Full specification overleaf

Seven Cruzeiro 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 depth 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 Cruzeiro

subsea 7

General Information

| | |
|----------------------|--|
| Classification | Lloyds Register, 100A1 PIPE LAYING SHIP, HELICOPTER LANDING AREA, WDL(5TS/ M2 FR.-10 TO FR.15 AND FROM FR.49 TO FR.119, 10TS/M2 FR.15 TO FR.49), *IWS, ECO. |
| Built | Merwede Shipyards, the Netherlands |
| Delivery | 2016 |
| Flag State Authority | Isle of Man Government |

Principal Dimensions

| | |
|-------------------------------|------------------------------|
| Length Overall | 145.95m |
| Length between perpendiculars | 135.31m |
| Breadth moulded | 29.94m |
| Breadth extreme | 29.98m |
| Depth to maindeck | 13.0m |
| Depth moulded | 13m |
| Draught (operational) | 7.2m |
| Draught (max) | 8.3m |
| Deadweight (operational) | 7,025t |
| Deadweight (max) | 12,667t |
| Max displacement | 27,012t |
| Gross Tonnage | 18,602 |
| Net Tonnage | 5,580t |
| 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 | 1,200m² approx |

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 |

Power and Propulsion

| | |
|---|---|
| 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 |
|---|---|

Vessel Speeds and Fuel Consumption

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

DP Systems

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

Cranes

| | |
|--|---------------|
| MacGregor Offshore Knuckle Boom Crane | |
| Main line (AHC) | 100t |
| Wire length | 3,500m |
| 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.

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 System

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.

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.

