



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

General Information

| | |
|----------------------|--|
| Classification | Lloyds Register, +100A1, Pipe Laying Ship, Helicopter Landing Area, WDL(10t/ m2 Aft to Fr.120), *IWS, LI, ECO. LMC, UMS, OCC, DP(AA), NAV1, IBS, CAC3 , SPS |
| Built | Merwede Shipyard, the Netherlands |
| Delivery | 2016 |
| Flag State Authority | Isle of Man Government |

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 |

Speed / Consumptions

| | |
|---------------|-----------------|
| Service Speed | 13 knots |
|---------------|-----------------|

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 |

ROV Systems

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

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 |

Power and Propulsion

| | |
|--------------------------------------|---|
| 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) |
|--------------------------------------|---|

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.

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.

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.



client.enquiry@subsea7.com



www.subsea7.com



Our Differentiators



Culture



Creativity



Relationships



Reliability



Solutions

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.