

Our Values

















Vessel Info

Full specification overleaf

Seven Rio 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
- Special Purpose Ship Code Compliant
- Accommodation 120 persons

- 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 and US (Gulf of Mexico) 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



subsea 7

General Information

Classification Lloyds Register, Pipe Laying Vessel, Helicoper 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** Rio de Janeiro Port of Registry:

Principal Dimensions

145.9m Length Overall Breadth moulded 29.9m Depth to maindeck 13.0m Draught (operational) 7.2m Draught (max) 8.3m Deadweight (operational) 14,207t Deadweight (max) 12,760t Max displacement 26.967t **Gross Tonnage** 18,602t 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

Service Speed Main Engines / Generators Propulsion (Wartsila)

13 knots (approx)

6x 3.840kW (Wartsila 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 34.8m3/day

DP Systems

DP Classification DP (AA) - Class II **KPOS DP22 dual redundancy** DP System Reference Systems 3x DGNSSs (3x Veripos LD 900) 2x HiPAP 501 (with Hain) 1x Cyscan MK4 (1x Laser Units) 2x Radius 1000 (2x Radius Interrogators)

1x SceneScan (1x Laser Units) **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

TTS Stores / Moonpool Handling Knuckle Boom Crane

Main line

TTS Stores / Moonpool Handling Telescopic Boom Crane

Main line

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.

Pipelav 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 637t 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.

Comms Systems

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) Single cabins 40 Double cabins 38 Hospital (not included in total)





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