

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 Flag State Authority Port of Registry:	Lloyds Register, Pipe Laying Vessel, Helicoper Landing Area, +100A1, WDL(10t/m ² FR.15-49, 5t/ m ² 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. Brazil Government Rio de Janeiro
Principal Dimensions	
Length Overall Breadth moulded Depth to maindeck Draught (operational) Draught (max) Deadweight (operational) Deadweight (max) Max displacement Gross Tonnage Net Tonnage Air draft (with TLS vertical) Air draft (with TLS inclined)	145.9m 29.9m 13.0m 7.2m 8.3m 14,207t 12,760t 26,967t 18,602t 5,580t 66.9m at 6.6m draught 47.4m at 6.6m draught
Main Deck	
Deck strength Deck area	10t/m ² partially on aft deck, 5t/m ² elsewhere 1,200m ² (approx)
Tank Capacities (100%)	
Marine Gas Oil Potable Water Ballast Water Anti-Heel tanks Technical FW (in WB tanks)	2,197m ³ 998m ³ 4,696m ³ 1,525m ³ 633m ³
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

Vessel Speeds and Fuel Consumption			
Maximum Speed Economic Speed Economic Speed Fuel	13.5 knots 10.0 knots		
Consumption	34.8m ³ /day		
DP Systems			
DP Classification DP System Reference Systems	DP (AA) - Class II KPOS DP22 dual redundancy 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 Kr	nuckle 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.

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.	

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 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)	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.

2x 2,400kW retractable bow

2x 2.200kW bow tunnel thrusters

azimuth thrusters