subsea 7

Our Values

Safety

Integrity

Sustainability

Performance

Collaboration

Innovation

Seven Rio

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

Seven Rio

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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**
Built / Delivery	**Merwede Shipyard, The Netherlands / 2015**
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)	**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	**13 knots (approx)**
Main Engines / Generators	**6x 3,840kW (Wartsila diesel electric)**
Propulsion	**3x 2,950kW stern azimuth thrusters (Wartsila)**
	2x 2,400kW retractable bow azimuth thrusters (Wartsila)
	2x 2,200kW bow tunnel thrusters (Wartsila)

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**
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 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.

ROV Systems

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

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 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.

client.enquiry@subsea7.com

www.subsea7.com

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.

Our Differentiators

Culture   Creativity   Relationships   Reliability   Solutions