

An aerial photograph of the Castorone PipeLaying DP 3 Vessel, a large offshore construction ship. The vessel is oriented vertically, showing its deck with various cranes, including two large blue ones at the top. A prominent blue vertical structure is visible on the left side. The ship is surrounded by smaller boats and is positioned in the middle of the sea.

CASTORONE

PIPELAYING DP 3 VESSEL

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VERSATILITY

S-LAY FROM SHALLOW
TO ULTRA-DEEP WATERS

CAPABILITY

DEPLOYMENT OF INLINE SPECIAL
STRUCTURES UP TO 3,000 M WD

RELIABILITY

DP 3, ICE-CLASS, HELIDECK

TECHNICAL SPECIFICATIONS

MAIN FEATURES

- Length overall (excluding ramp/stinger): 325 m
- Moulded breadth: 39 m
- Operational draft: min. 9.5 m, max. 10.6 m
- Transit draft: 10 m approx.
- Height (keel to top of mast crane pedestal): 67.5 m
- Gross tonnage: 102,032 t
- Max. speed: 14 kn
- Pipelaying capacity: triple joint 12 m or double joint 18 m
Pipe size up to 48" (60" including coating)

CLASSIFICATION

- American Bureau of Shipping (ABS)
✱A1, Crane Service, Pipe Laying Service, ©, ✱AMS, ✱ACCU, ✱DPS-3, (EHS-P), CRC, ENVIRO, HELIDK (SRF), Ice class A0, Ice class IA, PMP+, RRDA, TCM, UWILD

PROPULSION SYSTEM

- Main gensets: 8x 8,400 kW at 600 rpm each
- Emergency generator: 1,200 kW
- Power distribution: 2 separate switchboards 11 kV
- Main shafts: 2x 8,000 kW with 2 rudders
- Azimuthal retractable thrusters: 6x 92 t
- Bow tunnel thrusters: 2x 35 t
- Stern tunnel thruster: 35 t

DYNAMIC POSITIONING

- DP system: fully redundant, Class 3
- Reference system: 2x HIPAP 501 for 3,000 m of water depth; 4x DGPS; 2x Walking Taut Wire

ACCOMMODATIONS

- Total: 702 persons
- Client offices
- Conference rooms
- Hospital
- 2x gymnasium
- Galley mess room
- Briefing and ladies rooms
- Sauna and recreation rooms
- Satellite television

DECK EQUIPMENT

- Main crane: 600 t @30 m, 350 t @46 m
- Pipe handling cranes: 2x gantry cranes 110 t @ 42 m
- Pedestal crane: 35 t
- Knuckle boom crane: 25 t
- MacGregor crane: 10 t
- S-lay stern ramp: 120 m long hinged stinger composed of 3 articulated and adjustable sections
- Tensioners: 3x 400 t nominal tension (3x 600 t brake hold tension)
- A/R winch: 910 t (6" diam. x 4,003 m length)
- Working stations: 4 welding + 4 completion
Triple joint fabrication shop below deck
- PLET handling system 150 t 75-90°

CARGO/TANK CAPACITY

- Deck area: 4,300 m²
- Fuel oil: 8,098 m³
- Fresh water: 1,400 m³
- Ballast water: 36,000 m³ - 20,000 t pipe storage in cargo holds

ROVs

- 2x work class ROVs
- Rated for 3,000 m water depth

HELIDECK

- 12.8 t, 22.2 D-value
- Suitable for Super Puma and Eurocopter, Sikorsky S61N & Sikorsky 92

The flagship of Saipem's fleet, the Castorone is one of the most efficient pipelaying vessels in the offshore industry, due to its high production rate and the capability to lay in shallow to ultra-deep waters in S-lay configuration.

DID YOU KNOW?

CASTORONE IS ONE OF THE BIGGEST PIPELAYING VESSELS IN THE WORLD AND THE MOST TECHNOLOGICALLY ADVANCED