

# CASTORONE

PIPELAYING DP 3 VESSEL



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## PIPELAYING DP 3 VESSEL

### VERSATILITY

S-LAY FROM SHALLOW  
TO ULTRA-DEEP WATERS

### 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
- Piplaying 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, E, AMS, ACCU, DPS-3, RRDA, EHS-P, UWILD, TCM, PMP+, CRC, Ice class AO, Ice class 1A, Helidk (SRF)

#### PROPULSION SYSTEM

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

### CAPABILITY

PIPELAY/ROV

#### DYNAMIC POSITIONING

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

#### ACCOMMODATIONS

- Total: 702 persons
- Client offices
- Conference rooms
- Hospital
- Gymnasium
- Galley mess room
- Coffee bar
- Cinema
- Recreation rooms
- Satellite television

#### DECK EQUIPMENT

- Main crane: 600 t @ 30 m, 350 t @ 46 m
- Pipe handling cranes: 2 x gantry cranes 110 t @ 42 m
- Pedestal crane: 30 t @ 30 m
- Knuckle boom crane: 35 t
- MacGregor crane: 10 t
- S-lay stern ramp: 120 m long hinged stinger composed of 3 articulated and adjustable sections
- Tensioners: 3 x 250 t
- A/R winch: 910 t (6" diam. x 4,003 m length)
- Working stations: 4 welding + 4 completion  
Triple joint fabrication shop below deck

### RELIABILITY

DP 3, ICE-CLASS, HELIDECK

#### CARGO/TANK CAPACITY

- Deck area: 4,300 m<sup>2</sup>
- Fuel oil: 8,098 m<sup>3</sup>
- Fresh water: 1,400 m<sup>3</sup>
- Ballast water: 36,000 m<sup>3</sup> - 20,000 t pipe storage in cargo holds

#### ROVs

- 2 x 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