

Deep Blue

Deepwater pipelay vessel



Owner Technip Offshore UK Ltd.
Builder Hyundai MIPO
Delivered 1999

Description

The Deep Blue is a DP deepwater pipe-lay vessel and capable of laying both rigid and flexible pipe in up to 2,500 m water depth. The vessel is self-propelled and dynamically positioned. For station keeping operations four (4) retractable azimuthing fixed pitch propellers in nozzles below keel level, of 3,000 kW each, and two (2) fixed pitch tunnel thrusters in the bow, of 1,300 kW each, are provided.

Two (2) non-retracting azimuthing fixed pitch propellers in nozzles at the stern, with a capacity of 5,500 kW each, achieve the service speed.

The vessel has been provided with a ramp tower over a moonpool (located just after amidships) for the deployment of rigid and flexible pipes and umbilicals. The ramp tower incorporates two tensioners of 275 tons each.

The laying angle of the tower can be adjusted from 60 to 90 degrees while in transit condition the tower is lowered on a cradle at an angle of 32 degrees.

A hang-off module in the moon pool guides the deployed pipe and provides a clamping device to hang-off pipes.

On the aft of the vessel free deck space is provided for eight (8) portable reels or triple pipe joint storage for J-lay operations.

For subsea installation activities two ROV intervention packages are provided, one is operated through the ROV moonpool, the other is handled over the side of the vessel.

Principal dimensions and main particulars

• Length overall	203.7 m
• Length between perpendiculars	191.8 m
• Breadth moulded	32.0 m
• Depth at side	17.8 m
• Scantling draught	10.0 m
• Displacement at scantling draught	50,000 t
• Deadweight at scantling draught	24,000 t
• Lightweight	25,500 t

Classification

The vessel, including her machinery, equipment and outfitting is designed under special survey of Det Norske Veritas to obtain the Class notation:

⊗I A I - Pipe Laying vessel DYNPOS-AUTR-EO-ICS

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Machinery

Power generation:

- Main diesel generators 6 x 5,600 kW
- Emergency diesel generator 1 x 1,000 kW

Propulsion and DP

- Main propulsion azimuthing thrusters 2 x 5,500 kW
- Retractable azimuthing thrusters 4 x 3,000 kW
- Tunnel thrusters 2 x 1,300 kW



Design criteria

Maximum operating conditions pipelaying

- Significant wave height (Hs) 4.0 m
- Wave period (Tp) 9.8 s
- Wind speed, 1 hour mean (Yw) 30 knots
- Current speed (Yc) 2 knots
- Forward thrust 55 t

Maximum operating conditions abandoning pipe

- Significant wave height (Hs) 8.5 m
- Wave period (Tp) 14.0 s
- Wind speed, 1 hour mean (Yw) 50 knots
- Current speed (Yc) 3 knots

Water depth

Pipe lay operations can be executed in maximum 2,500 meters water depth.

Tanks and storage capacities

- Fuel oil MDO 4,300 m³
- Potable water 775 m³
- Technical fresh water 1,300 m³
- Lubrication oil 2 x 70 m³
- Sludge and dirty oil 2 x 40 m³
- Hydraulic oil 2 x 15 m³
- Ballast water 17,500 m³
- Bilge water 160 m³

Transit conditions

In transit condition, unrestricted worldwide service is ensured. The service speed is over 13 knots.

Data presented in this product sheet is for information only. Unit specific specifications as provided by the Owner shall prevail.

