



DP II Derrick Pipe Lay Vessel 'Sapura 3000'

Principal Dimensions

Length over the hull, excluding stinger	151.20	m
Length between perpendiculars	144.40	m
Breadth moulded	37.80	m
Depth moulded to Work Deck	15.00	m
Depth moulded to Freeboard Deck	9.10	m
Draught moulded.	6.50	m
Minimum operational draught	4.00	m
Clear working deck area	2 000	m ²

Lifting Characteristics

The vessel is fitted with one 3 000 short tons Huisman-Itrec Heavy Lift Mast Crane with the following characteristics

• Maximum SWL ($\pm 10^\circ$ over stern) at 27 m radius	3 000	short ton
• Maximum SWL (fully revolving) at 31 m radius	2 200	short ton
• Maximum SWL (auxiliary hoist) at 53 m radius	800	short ton
• Maximum SWL (whip hoist) at 91 m radius	200	short ton
• Minimum radius main hoist	15.5	m
• Maximum radius main hoist	72.0	m
• Maximum radius auxiliary hoist	81.0	m
• Maximum radius whip hoist	91.0	m

Pipelay capabilities

The vessel shall have the following pipelay capabilities:

- Conventional S-lay for shallow water.
- Steep S-lay or J-lay for deepwater and steel catenary riser installation.
- Water depth beyond 2 000 metres, depending on pipe specification.
- Range of pipe diameter between 4" and 60"

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VER project 04.095

Values are for presentation only

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Classification

The 'Sapura 3000' is classed by American Bureau of Shipping as a
✕A1 (E) Pipe Lay / Heavy Lift Vessel ✕AMS ✕DPS-2.

Machinery

Propulsion

* Wärtsilä azimuth thrusters at stern 2x 2 400 kW
* Wärtsilä retractable azimuth thruster 5x 2 400 kW

Wärtsilä type 8L32 diesel generator sets 6x 4 000 kW
Emergency generator set 1x 4 000 kW

Accommodation

In a separate accommodation block at the foreship, the vessel is able to accommodate up to 330 persons.
All cabins have an integrated wet space.

Helideck

On top of the accommodation deckhouse, a helicopter deck suitable for the large size Sikorsky S61-N helicopters, is situated .

VER scope of work

The design of the derrick pipe lay vessel 'Sapura 3000' was commissioned by the Sembawang - Huisman Consortium to Sea of Solutions. VER was contracted for a basic design package, to be made in close cooperation with the other parties.

'Sapura 3000' while outfitting



Testing of the Huisman-Itrec Heavy Lift Mast Crane



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