

DP3 3500 Tons Heavy Lift Pipe Laying Vessel



Vessel name:

SAPURAKENCANA 3500

SapuraKencana 3500 is an ABS DP3 Self Propelled Heavy Lift Pipe Laying vessel equipped with 3500 Metric Tonnes Crane. The vessel is capable of pipe laying in deep and shallow waters.

Principal Dimensions

Classification	: ABS A1 Offshore Support Vessel (Pipe Lay/Heavy Lift, SPS), AMS, (E), ACC, DPS-3, BWT, ENVIRO, HELIDK, GP
Length overall	: 156.50 m
Length between perpendiculars	: 146.05 m
Breadth, moulded	: 44.80 m
Depth to work deck, Moulded	: 16.80 m
Depth to tweendeck (freeboard)	: 9.80 m
Draft (sailing)	: 7.40 m
Draft (scantling)	: 7.50 m
Gross Tonnage	: 40845 MT
Net Tonnage	: 12253 MT
SPS compliant, including Safe Return to Port	

Main Crane

Crane type	: Counter weight Type, all ratings after DAF correction
Main hook capacity, tie back	: 3500 MT @ 35 m radius
Main hook capacity, stationary	: 3000 MT @ 30 m radius
Main hook capacity, revolving	: 2000 MT @ 35 m radius
Aux. hook capacity	: 700 MT @ 55 m radius
Whip hook capacity	: 100 MT @ 70 m radius
Man riding	: ABS Certified

*A Frame, folding incorporated for passage of Suez Canal, Panama Canal and Bosphorus Bridge

Pipe-lay Capability:

Pipe size	: 6" to 60" including concrete coating
Tensioners	: 390 MT (3 @ 130 MT)
Main A & R Winch Capacity	: 400 MT
Aux. A & R Winch Capacity	: 150 MT
Welding stations	: 6 nos.
NDT stations	: 1 no.
Field coating stations	: 2 nos.
Stinger	: 95 m in 3 sections; Hinged Articulated
Pipe handling cranes	: 2 x 50 MT @ 40 M radius

Deep Water Lowering Capability

Lowering depth	: Up to 2000 m (Upgradable)
Maximum weight	: Up to 400 MT (with A&R winch)

Propulsion

Economical speed	: 11 knots
Maximum speed	: 13 knots
DP Capability	: DPS 3
Thrusters	: 8 nos. (Rolls Royce, motors & drives Siemens)
Stern thrusters	: 2 x 4500 KW
Retractable thrusters	: 5 x 2300 KW
Bow thruster	: 1 x 1500 KW (CPP)

10 Point Mooring System

Mooring Winches	: 150 MT x 10 nos.
Mooring Anchors	: 12.5 MT high holding type
Mooring Wire Ropes	: 63.5 mm Dia. x 1500 m

Engine Room

Main power plant capacity	: 2nos. (Fwd & Aft)
Main Engines	: 30.24 MW (6 x 5040 KW)
Alternators	: MAN 9L 32-440 CRDI
HV/LV switch boards,	: Siemens
PMS, VMS	: Siemens

Ancillary Machineries

Emergency generator	: 1 x 1000 KW
Working air compressors	: 2 x 1500 CFM @ 8 bar
Pipe-lay air compressors	: 3 x 300 CFM @ 16 bar
Fresh water makers	: 2 x 72 tons/day
Ballast water treatment system	: 2 x 850 Cu M/hour
Navigation anchor windlass	: Provided with 2 anchors and 1 spare, complete with chain locker, chain stopper etc.
Refrigeration plant	: For 60 day storage
Incinerator and waste compactor	: installed

PUMPS

Ballast pumps	: 2 x 850 Cu M/hour
Anti-heeling pumps	: 6 x 2000 Cu M/hour
Fuel oil transfer pumps	: 4 x 35 Cu M/hour

Safety Equipments

Life boats	: 4 x 75 persons (Fat Boy type)
Rescue boats	: 2 Nos.
Main Fire pump	: 2 Nos. with Jockey pumps
Emergency fire pump	: One fire pump, connected to Emer. Generator
Foam pump	: Helideck
Water mist system	: For generators and Incinerators
CO ₂ Fire fighting system	: For engine rooms, Emer. Gen Room etc.

Tank Capacities

Ballast tanks	: 19282 Cu M
Fresh water tanks	: 2090 Cu M
Fuel oil storage tanks	: 3335 Cu M
Fuel oil settling tanks	: 2 x 57.0 Cu M
Fuel oil service tanks	: 6 x 19.0 Cu M
Lub. Oil storage tank	: 88.7 Cu M

Communication and Navigation equipments

- 2 Nos DGPS for DP reference system
- 2 Nos RADIUS DP reference system
- 1 No HIPAP DP reference system
- DGPS System for Navigation
- Gyrocompass and Steering system
- Steering control system/Autopilot
- Wind sensors
- MULTIPORT ARPA X-band
- MULTIPORT ARPA S-band
- 2 Nos ECDIS SYSTEM MONITORS
- Position finder, GPS, Decca, Loran, Omega, Radio deflection finder etc.
- Radio plant, GMDSS
- VHF/UHF Telephones
- Calling/command/crew call telephone plants, Walkie talkies
- VSAT Telephone and Data

Accommodation

Accommodation	: 300 persons in cabins with ensuite toilets
Mess hall	: for 150 persons
Recreation rooms	: 2 Nos. with TV and entertainment systems
Training room	: 1 No. with Video equipment
Gymnasium	: 1 No.
Prayer room	: 1 No.
Hospital	: 3 beds
Helicopter arrival/departure room	: 1 No.
Helideck	: MH 101 14.6 tonne Helicopter
Accommodation class	: HAB + (ABS)

** This vessel specification is given in good faith & assumed correct. Details given are without guarantee.

** Owners reserve the right to amend the specifications without notification.

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