

DP3 3500 Tons Heavy Lift Pipelaying Vessel

Sapura 3500



Principal Dimensions

Classification :	ABS A1 Offshore Support Vessel (Pipelay/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 :	40,845 MT
Net Tonnage :	12,253 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 :	3,500 MT @ 35 m radius
Main Hook Capacity, Stationary :	3,000 MT @ 30 m radius
Main Hook Capacity, Revolving :	2,000 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
Pipe Handling Davits :	5 x 50 MT 150m water depth

Deep Water Lowering Capability

Lowering Depth :	Up to 2,000 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 4,500 KW
Retractable Thrusters :	5 x 2,300 KW
Bow Thruster :	1 x 1,500 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
• Wind sensors	

Engine Room :

Main Power Plant Capacity:	2 nos. (Fwd & Aft) 28.8 MW (6 x 4800 KW)
Main Engines :	MAN 9L 32-440 CRDI
Alternators :	Siemens
HV/LV Switch Boards, PMS, VMS :	Siemens

Ancillary Machineries

Emergency Generator :	1 x 1,000 KW
Working Air Compressors :	2 x 1,500 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 :	19,282 Cu M
Fresh Water Tanks :	2,090 Cu M
Fuel Oil Storage Tanks :	3,335 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
- 1 No. Taut Wire as DP Reference System
- DGPS System for Navigation
- Gyrocompass and Steering system
- Steering control system/Autopilot
- MULTIPOINT ARPA X-band
- MULTIPOINT ARPA S-band
- 2 nos. ECDIS SYSTEM MONITORS
- Position GPS, Decca, Loran, Omega, Radio finder etc.
- Radio plant, GMDSS
- VHF/UHF Telephones
- Calling/command/crew call telephone plants, walkie talkies
- VSAT Telephone and Data

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 tonnes
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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