DP3 3500 Tons Heavy Lift Pipelaying Vessel

Sapura 3500

Principal Dimensions

- Classification: ABS A1 Offshore Support Vessel (Pipelay/Heavy Lift, SPJ, AMS, E), ACC, DPA-3, BWT, ENViro, HELIDK, GP
- Length overall: 154.50 m
- Length Between Perpendiculars: 164.85 m
- Breadth, Moulded: 44.80 m
- Depth to Work Deck, Moulded: 16.30 m
- Depth to Tweendeck (Fireboard): 9.80 m
- Draught (Sailing): 7.40 m
- Draught (Standing): 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 Hoist Capacity, Tie Back: 3,500 MT @ 35 m radius
- Main Hoist Capacity, Stationary: 3,000 MT @ 30 m radius
- Aux. Hoist Capacity: 700 MT @ 55 m radius
- Whip Hoist Capacity: 100 MT @ 70 m radius
- Man Riding: ABS Certified
- ‘A Frame, folding incorporated for passage of Suez Canal, Panama Canal and Bosporus Bridge

Pipe Lay Capability

- Pipe Size: 6” to 60” including concrete coating
- Tensioners: 390 MT (3 @ 130 MT)
- Main A & X Winch Capacity: 400 MT
- Aux. A & X 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 @ 150 m water depth

Deep Water Lowering Capability

- Lowering Depth: Up to 2,000 m (upgradable)
- Maximum Weight: Up to 400 MT (with AIX winch)

Economical Speed: 11 knots
Maximum Speed: 13 knots
DP Capability: DP3
Thusters: 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 @ 10 nos.
- Mooring Anchors: 12.5 MT high holding type
- Mooring Wire Ropes: 63.3 mm Dia. x 1500 m
- Wind sensors

Engine Room:

- Main Power Plant Capacity: 28.8 MW (6 x 4800 KW)
- Main Engines: MAN 31-440 CkD
- 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 @ 6 bar
- Pipe Lay Air Compressors: 3 x 100 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 35 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: For generators and incinerators
- Water Mist System: For engine rooms, Emer. Gen. Room etc.
- CO₂ Fire Fighting System: For engine rooms, Emer. Gen Room etc.

Tank Capacities

- Ballast Tanks: 19,282 Cu.m
- Fresh Water Tanks: 2,000 Cu.m
- Fuel Oil Storage Tanks: 3,395 Cu.m
- Fuel Oil Settling Tanks: 2 x 570 Cu.m
- Fuel Oil Service Tanks: 8 x 190 Cu.m
- Lub. Oil Storage Tank: 82.7 Cu.m

Communication and Navigation Equipments:

- 2 nos. DGPS for DP reference system
- 2 nos. RADIUS DP reference system
- 1 nos. HAPI DP reference system
- 1 nos. Fact Wire as DP Reference System
- DGPS System for Navigation
- Gyrocompass and Steering system
- Steering control system/Autopilot

- MULTIPORT ARPA X-band
- MULTIPORT ARPA S-band
- 2 nos. ECDIS SYSTEM MONITORS
- Position GPS, Decca, Loran, Omega, Radio finder etc.
- Radio plant, GMDSS
- VHF/LFH Telephones
- Calling/command/crew call telephone plants, walkie talkies
- VSAT Telephone and Data

Accommodation: 100 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: 1 no.

Arrival/Departure Room: 1 no.

Helm: MT 101 14.6 tonnes

** 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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