

DP 3000 Tons Heavy Lift Cum Pipe Laying Vessel



Vessel name:
SAPURA 3000

Sapura 3000 is an ABS DP2 Self Propelled Heavy Lift Pipe Laying vessel equipped with 3000 Short Tons Revolving Mast Crane. The vessel is capable of pipe laying in deep and shallow water projects.

Main Particulars:

Overall Length	: 151.2 m
Breadth molded	: 37.8 m
Depth to work deck, molded	: 15.0 m
Depth to freeboard deck, molded	: 9.1 m
Draft, maximum loaded	: 6.5 m
Classification	: A1 (E) AMS DPS-2 Heavy Lift/Pipe Laying Vessel
Flag	: Nassau
Helideck	: Suitable for Sikorsky S61N
Accommodation capacity	: 330
Transit speed	: 8 - knots
Deck load capacity, work deck	: 10 MT/sq.m
Free deck area	: 2000 sq.m

Accommodation

All cabins have integrated toilet facilities equipped with vacuum system.
 10 x 1 - person cabin
 50 x 2 - person cabins
 55 x 4 - person cabins
 Fully air-conditioned accommodation equipped with offices for clients, recreation rooms, gymnasium, video rooms, helicopter arrival/departure room, prayer room etc.

Power Generation

Main diesel generators	: 6 x 4000 kW
Emergency diesel generator	: 1 x 1000 kW

Propulsion & Dynamic Positioning

Non-retractable azimuth thrusters (stem)	: 2 x 2400 kW
Retractable azimuth thrusters	: 5 x 2400 kW
Kongsberg SDP22 CLASS II system	

Auxiliary Equipment

- Water makers : 2 x 60T/day capacity
- Sewage treatment system : Suitable for full complement
- Oily water separator

Safety Equipment

Lifeboat	: 4 x 85 persons capacity
Life raft	: 100% capacity

- Sprinkler system in accommodation
- Fire detection system in accommodation and machinery spaces
- Water mist system in engine room
- CO₂ fire fighting system
- Foam system for heli-deck

Telecommunication Equipment

VSAT with 256 kbps data link
 GMDSS
 INMARSAT B

Heavy Lift Capability

Heavy lift Mast Crane	
Capacity, main hoist ($\pm 25^\circ$ over stern)	3000 S.T at 27 m radius
Capacity, main hoist revolving	2200 S.T at 31 m radius
Capacity, auxiliary hoist	800 S.T at 53 m radius
Capacity, whip hoist	200 S.T at 91 m radius

- Whip hoist is suitable for 2000 m of hook travel in single part reeving.
- Whip hoist and auxiliary hoist can be reeved to achieve subsea lifting capability of approx 300 S.T for 1000 m hook travel or approx. 700 S.T. for 500 m of hook travel.

Anti-heeling system for crane operations

Dedicated Pumps	: 1 x 1600 cum/hr
	: 3 x 1200 cum/hr

Subsea Structure Installation

- Using main crane
- Using A&R winch via A-frame over port or starboard side

Pipelay Capability

Pipe size	: 6" to 36" diameter plus concrete coating
No. of Work stations	: 10 stations total 6 each welding stations + 2 each NDT/ repair stations + 1 each stations for corrosion /blasting + 1 each field joint coating.

Center-Lay Firing Line S-Lay System Consisting of:

- Pipe handling cranes on the work deck
- Pipe storage on work deck
- Endo conveyor line to the beveling station on work deck
- Beveling station with transverse conveyor and transfer vehicle on work deck
- Pipe elevator loader and elevator for transport of the pipe to the freeboard deck through pipe loading hatch
- Endo conveyor line for transport to the ready rack transverse chain conveyor on the freeboard deck
- Transverse chain conveyor & transfer vehicles on freeboard deck
- Line up station with seam rollers on freeboard deck

- Pipe support rollers in firing line on freeboard deck
- 3 each tensioners and A&R winch
- Movable work station in firing line
- Stinger & stinger handling system
- Transfer vehicle for transport of rejected joints to the kick out endo conveyor line on freeboard deck and subsequent removal through kick out hatch by pipe handling crane

Tensioners	: 3 x 80 MT
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A&R Winch

Line pull, max	: 360 MT
Wire capacity	: 3000 m of 109 mm wire

Pipe Davits

	: 6 x 50 MT capacity (Can be installed on port or starboard side)
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Stinger

Total length	: 90 m (adjustable geometry in three sections)
Minimum overboard radius	: 70 m
Maximum pipe departure angle	: 87 deg
	Equipped with load cells, seabat sonar system, underwater cameras etc. Stinger handling tackle capable of adjustment of the stinger from survival condition to the minimum over bend radius. Handling system is equipped with backup tackle. Stinger can be installed/removed using main crane.

Pipe handling cranes

	: 1 each on port side & 1 each on stbd side
	Capacity - 40 St at 29 m radius
	Maximum outreach of 45m.
	Both cranes certified for man riding
	Equipped with anti-collision system

Optional Operations:

J-Lay System

- System is installed on starboard side when required
- Designed for rapid installation and removal with main crane
- Using 360 MT A&R winch
- Pipe size up to 20" diameter
- Double joint installation
- Installation of SCRs and flowlines

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

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