

# DP PIPELAY SUPPORT VESSEL



Vessel name:

## SAPURA DIAMANTE

Sapura Diamante is a DP 2 Self Propelled Pipelaying Vessel.

### PRINCIPAL DIMENSIONS :

Flag	: Panama
Classification	: Lloyds registry
Notations	: ✕ 100A1, UD
Strengthened Helicopter Landing Area, EP, ✕ LMC, UMS, ICC, DP (AA), CAC (3), NAV-1, IBS, *IWS	
Length Overall	: 145.99 m
Length between pp	: 134.52 m
Breadth moulded	: 29.94 m
Depth main deck	: 13.0 m
Summer draught (max)	: 8.30 m
Draught scantling	: 8.5 m
Deadweight at design draught	: 8350 MT

### MAIN CRANE

Crane type NOV 250t	: Active Heave compensated electro - hydraulic driven, Knuckle Boom
Main Hook 250t @ 14m, Hs = Om	
36m max radius	
Auxiliary Hook, 10t @ 40m	

### Tower Top Crane

HS Marine AKC 410/11 HE1	
Lifting Capacity	
• 20t @ 10.80m outreach	
• 10t @ 11.18m outreach	
• Man riding capacity	: 2.5t @ 11.18m outreach (which in single fall only)

### FLEXIBLE PIPELAY CAPABILITY

Tower height	: 51.26m
Location : Forward edge of Moon pool	
Tower design loading :	
• 550T peak dynamic product along product axis for flexible pipes	
• 600T peak dynamic product load along product axis for braking	
• 610T peak A&R load along firing line	
Product Range	: 100 to 630mm
Tensioner capacity	: 2 x 275T, SAS
A&R Winch Capacity	: 610T SWL and 200T SWL
Friction Clamp Capacity	: 610T (1)
Carousels	: 1 x 2500t and 1 x 1500t

### DEEP WATER LOWERING CAPABILITY

Lowering depth	: 3000 meters
Crane, ROV's and pipe lay system	

### PROPULSION

DP capability	: DP 2, DP 3 upgrade ready
Thrusters	: 7 nos
Stern Thrusters	: 3 x 2950 kW
Retractable Thrusters	: 2 x 2400 kW
Bow Thrusters	: 2 x 2200 kW
Estimate trial speed	: 13.6 knot

### ELECTRICAL

Main power plant capacity	: 22.14MW
Main engines. 6 x 3690 kW, Wartsila 8L32	
Alternators	: Hyundai
HV switch boards	: 6600V
LV switchboards	: 440V, 230V, 115V
Emergency generator	: 1 x 1500kW

### ANCILLARY MACHINERIES

Working air compressor	: 2 x 1100 m3/hour
Fresh water makers	: 2 x 40m3/day

### PUMPS

Ballast pump	: 2 x 400m3/hour
Anti-heeling pumps	: 2 x 1000m3/hour
Fuel oil transfer pumps	: 2 x 20m3/hour

### HELIDECK

Aluminium, 22m, S92

### ROV

2 X 150hp WROV	
TMT Typhoon	
3000m depth capability	

### TANK CAPACITIES

Heeling tanks	: 1000 m3
Fresh water tanks	: 1020 m3
Water ballast tank	: 5100 m3
Fuel oil tank	: 2000 m3
Technical fresh water tanks	: 650 m3

### SAFETY EQUIPMENT

Lifeboats	: 2 x 60 person capacity
Life rafts	: 4 x 15 person & 1 x 10 person
Rescue boat	: 1 x 6 person GRP rescue boat

### COMMUNICATION AND NAVIGATION EQUIPMENTS

DGPS and GPS system	
HIPaP 500	
Kongsberg Fan Beam	
Gyro and magnetic compass system	
ARPA X-Band	
ARPA S-Band	
Autopilot system	
Automatic Identification system (AIS)	
Wind sensors	
Echo sounder system	

### ACCOMMODATION

Capacity : 120 person	
• 5 Suites	
• 31 x 1 - person cabins	
• 42 x 2 - person cabins	
Mess Hall : for 60 - person	
Recreation spaces :	
• Lounge / video room : seating for 29 person	
• Smoking lounge : seating for 10 person	
• Internet lounge : for 6 person	
• Gymnasium : outfitted with 2x bicycle, 1x treadmill, 1x multi-gym machine	

### WORKSHOPS

Electrical, Mechanical, ROV, Pipe lay, Welding	
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