

DP Pipelay Support Vessel

Sapura Diamante



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	
36 m max radius	
Auxiliary Hook, 10t @ 40m	

Tower Top Crane

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

Flexible Pipelay Capability

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

Deep Water Lowering Capability

<u>Lowering Depth</u>	
Crane, ROV's and pipe lay system :	3000 meters

Propulsion

DP capability :	DP 2, DP 3 upgrade ready
Thrusters :	7 units
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

Anciliary Machineries

Working Air Compressor :	2 x 1100 m ³ /hour
Fresh Water Makers :	2 x 40m ³ /day

Pumps

Ballast Pump :	2 x 400m ³ /hour
Anti-heeling Pumps :	2 x 1000m ³ /hour
Fuel Oil Transfer Pumps :	2 x 20m ³ /hour

Helideck

Alumium, 22m, S92

ROV

2 X 150HP WROW	
TMT Typhoon	
3,000 m depth capability	

Tank Capacities

Heeling Tanks :	1000 m ³
Fresh Water Tanks :	1020 m ³
Water Ballast Tank :	5100 m ³
Fuel Oil Tank :	2000 m ³
Technical Fresh Water Tanks :	650 m ³

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