

DP Pipelay Support Vessel

Sapura Esmeralda



Principal Dimensions :

| | |
|--|-----------------|
| Flag: | Brazil |
| Classification: | Lloyds Register |
| Notations: | 100A1 |
| Pipelaying Ship, Helicopter Landing Area, WDL (10t/m2 from fr.-10 to fr.100), LI, *IWS, +LMC, UMS, ICC, DP(AA), NAV1, IBS, CAC3/ | |
| Length Overall: | 133,81 m |
| Length Between PP: | 121,15 m |
| Breadth Moulded: | 24,00 m |
| Depth Main Deck: | 10,0 m |
| Summer Draught (Max): | 6,75 m |
| Draught Scantling: | 6,75 m |
| Deadweight at Design Draught: | 6143 MT |

Main Crane

Crane Type NOV 50t:
compensated electro - hydraulic driven, Knuckle Boom
Main Hook 50t @ 20m, Hs = Om
33 m max radius
Auxiliary Hook, 10t @ 35m

Tower Top Crane

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

Flexible Pipelay Capability

| | |
|---|---------------------------|
| Tower Height: | 48 m |
| Location: Forward edge of Moon pool | |
| Tower Design Loading: | |
| • 300t peak dynamic product along product axis for flexible pipes | |
| • 375t peak dynamic product load along product axis for braking | |
| • 340t peak A&R load along ring line | |
| Product Range: | 100 to 630 mm |
| Tensioner Capacity: | 1 x 300t, SAS |
| A&R Winch Capacity: | 340t SWL and 100t SWL |
| Friction Clamp Capacity: | 610t (1) |
| Carousels: | 1 x 2500t and 1 x 500t |

Deep Water Lowering Capability

| | |
|-----------------------------------|-------------|
| <u>Lowering Depth</u> | |
| Crane, ROV's and pipe lay system: | 2500 meters |

Propulsion

| | |
|------------------------|-------------|
| DP capability: | DP 2 |
| Thrusters: | 6 units |
| Stern Thrusters: | 3 x 2500 kW |
| Retractable Thrusters: | 1 x 2400 kW |
| Bow Thrusters: | 2 x 1500 kW |
| Estimate Trial Speed: | 13,17 knots |

Electrical

| | |
|----------------------------|---|
| Main Power Plant Capacity: | 14.40 MW |
| Main engines: | 2 x 3360 kW, Wartsila W7L32, 2 x 3840 kW, Wartsila W8L32 |
| Alternators: | AVK |
| HV Switch Boards: | 6600 V |
| LV Switchboards: | 440 V, 230 V, 115 V, 24 V |
| Emergency Generator: | 1 x 761 kW |

Ancillary Machineries

| | |
|-------------------------|------------------------------|
| Working Air Compressor: | 2 x 618 m ³ /hour |
| Fresh Water Makers: | 2 x 25 m ³ /day |

Pumps

| | |
|--------------------------|-------------------------------|
| Ballast Pump: | 2 x 300 m ³ /hour |
| Anti-heeling Pumps: | 1 x 1000 m ³ /hour |
| Fuel Oil Transfer Pumps: | 2 x 20 m ³ /hour |

Helideck

Aluminum, 22m, S92

ROV

2 x 150 HP ROV
TMT Typhoon
2500 m depth capability

Tank Capacities

| | |
|------------------------------|--------------------|
| Heeling Tanks: | 392 m ³ |
| Fresh Water Tanks: | 630m ³ |
| Water Ballast Tank: | 2757m ³ |
| Fuel Oil Tank: | 1223m ³ |
| Technical Fresh Water Tanks: | 1125m ³ |

Safety Equipment

| | |
|--------------|----------------------------------|
| Lifeboats: | 2 x 100 persons capacity |
| Life Rafts: | 8 x 25 person & 1 x 10 person |
| Rescue Boat: | 1 x 8 persons GRP + 1 x 6 person |

Communication And Navigation Equipments

DGPS and GPS system
HIPaP 500
CyScan MK4
Gyro and magnetic compass system
ARPA X-Band
ARPA S-Band
Autopilot system
Automatic Identification system (AIS)
Wind sensors
Echo sounder system

Accommodation

Capacity: 100 persons
• 59 Suites
• 21 x 2 - person cabins
• 38 x 1 - person cabins
Mess Hall: For 56 - person
Recreation Spaces:
• Lounge / video room: Seating for 26 persons
• Smoking lounge: N/A
• Internet lounge: For 4 persons
• Gymnasium: Outfitted with 2 x bicycle, 2 x treadmill,
1 x multi-gym machine

Workshops

Electrical, Mechanical, ROV, Pipe Lay, Welding