

Special Services-Geotechnical/Offshore Support Vessel

Sapura Wira (Dynapos, AM/AT)



General

Built :	2010
Port of Registry :	Port Klang
Call Sign :	9MLJ2
Builder :	Sapor Shipyard, Malaysia
Class :	BV + Dynapos, AM /AT
Certificates :	Unrestricted Navigation
G.R.T. :	1,988 T
N.R.T. :	590 T
MGO :	500 m ³
Fresh Water :	370 m ³
Accommodation :	50 pax
Cargo Deck Area :	360 m ²
Sea Endurance :	45 days

Marine Specifications

Length :	61.20 m
Breadth :	16.00 m
Depth Moulded :	6.00 m
Draft Max. :	5.10 m
Draft Min. :	4.50 m

Machinery

Engine Propulsion :	2 x Cummins 1,600 HP Berg Propulsion CPP Type BCP
Speed :	7 - 10 knots
Bow Thruster Pull :	1 x Berg BTT 315 CPP Tunnel, Thruster 8 T
Stern Thruster Pull :	1 x Berg BTT 111 CPP Tunnel, Thruster 4, 4 T
Main Generator :	3 x Cummins 625 KVA, 500 kW
Shaft Generator :	2 x Stamford 300 kW
Emergency Generator :	1 x Cummins 80 kW
Crane :	Telescopic, 20 m @ 5 T max. reach

Positioning System

4 Point Mooring :	Four (4) x 2,000 m 38 mm with Four (4) x 4 T Delta Flipper Anchor
Dynamic Positioning :	MT Bridgemate, DP1

Communication

Mini V-Sat :	512 kbs download 256 kbps upload
Fleet77 (Data and Voice) :	Inmarsat

Derrick

Height :	24 m (drill floor to crown)
Static Hook Load :	80 T
Base Dimension :	4 m ²

Top Drive

Type :	F150T-20-Hydraulic
Capacity :	Static 150 T
RPM 1 st , 2 nd and 3 rd :	80/125/200
Torque 1 st , 2 nd and 3 rd :	29,000 lb/15,500 lb/7,760 lb
Quill Stern Bore Size :	5"

Travelling Block

Capacity :	60 T
Sheave Diameter :	36"
No. Sheaves :	4
Type :	Split, 1.5 m x 1.4 m x 4.0

Drill String

Size :	5 1/2" OD x 4 1/2" IDW/5 1/2"
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Drill String Compensator

Type :	Hydraulic PHC
Capacity :	60 T
Stroke :	4 m

Winches

Drawworks :	Single steel drum, hydraulic motor
Pull at 1 st layer :	18 T @ 0-5 m/min.
Pull at 1 st layer :	9 T @ 0-97 m/min.
Drum Capacity :	100 m x 28 mm
Headline :	Pullmaster, hydraulic motor, heavy duty planetary gear box 7,000lb-in
Pull at 1 st layer :	7,000lb-in
Drum Capacity :	49m x 14mm
Tailline :	Pullmaster, hydraulic motor, heavy duty, planetary gear box 4,000 lb-in
Pull at 1 st layer :	4,000 lb-in
Drum Capacity :	40 m x 12 mm
Sampling :	Hydraulic motor
Pull at 1 st layer :	1 T @ 0-30 m/min
Drum Capacity :	2,000 m x 8 mm

Seabed Frame :	Single steel drum, heavy duty planetary hydraulic motor, heavy duty gear box through hydraulic piston motor c/w automatic spooling device
Pull at 1st layer :	23T @ 0-25 m/min
Pull at Top layer :	10 T @0-57 m/min
Drum Capacity :	3,500 m x 28 mm

Mud System

Specifications

Max BHP :	215 (160KW)
Max RPM :	300
No. of Plungers :	3
Stroke of Length :	5" (127mm)
Plunger Load :	37,000 lbs (16,965 kg)
Discharge Hydrostatic Test :	Pressure 3,600 psi (1,633 kg/cm ²)

Mud Tank (2 Unit Systems)

Volume :	9,000 Gallons
Mud Mixing Tank Dimension :	23 ft x 8 ft x 8 ft (H)
Circulating Pumping System :	10 ft x 8 ft x 8 ft (H)

Seabed Frame

Type :	Self tension system frame mounted with Shear Ram, BOP and USBL Positioning
Dimension :	3.0 m x 3.0 m
Weight :	10 T
BOP :	Shaeffer Single - Shear Ram
Pressure Rating :	5,000 psi
Accumulator Type :	Triplex Hydraulic Pump

Downhole Sampling and Testing

Type :	WISON - APB
Rating :	1,500 m

Seabed Sampling and Testing

Type :	ROSON 40 kN
Rating :	Max. water depth 2,000 m
Type :	ROSON 100 kN
Rating :	Max. water depth 2,000 m

Optional

- Wireline MCB
- Piston Corer
- Large Piston Corer
- Vibrocorer
- Box Corer
- In-Situ Vane Shear
- Packer Test
- BAT Test
- Seismic CPT

** 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