



M/V PIONEER

DP2 SUBSEA SUPPORT VESSEL

The *M/V Pioneer* is a Dynamically Positioned (DP-2) offshore subsea support vessel, well equipped for offshore construction, ROV and Diving support roles. Built in 2011, the vessel is fully SPS compliant, with an overall length of 82 meters and breadth of 20 meters, and provides over 700 square meters of clear deck space and over 1,000 tons of cargo carrying capacity.

The *Pioneer* has a 50-ton constant tension subsea crane, and accommodation for 120 people, including marine crew.

The *Pioneer* is equipped with a Helideck and is fitted with a 5.4m x 5.2m moon-pool.

* This vessel specification is given in good faith and assumed to be accurate at the time of print.
 ** Owners will not be liable for errors, omissions or misprints published. Owners reserve the rights to amend this specification without notification.

MAIN DATA

Length Overall	82.20 m
Length Waterline	81.90 m
Breadth Moulded	20.40 m
Depth Moulded	7.00 m
Draft (max)	5.50 m
Built	2011, PT Jaya Batam
GRT/ NRT	4,399 / 1,319
Class	DNV-GL
Notation	+A1(E) Offshore Support Vessel +AMS +DPS-2 SPS 2008 Compliant
Flag	Malaysia

ACCOMMODATION

Total	120 pax
Configuration	8 x 1 berths 8 x 2 berths 24 x 4 berths
	Sick Bay 1 x 2 berth cabins
Client Office	2 x client offices available

LIFE SAVING EQUIPMENT

Life Rafts	2 x 16men davit launched type (SOLAS)
Lifeboats	2 x 60men totally enclosed lifeboat (SOLAS)
Rescue Boat & Davit	1 x 6men c/w 40hp outboard motor

RADIO AND NAVIGATION EQUIPMENT

GMDSS	Furuno RC-1800T (Area 3)
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PERFORMANCE

Maximum Speed	12.66 kts, approximate
Economy Speed	11.0 kts, approximate
Type of Fuel	Marine Gas Oil
Fuel Consumption	14m ³ /24hours in DP mode (Heavy Weather) 12m ³ /24hours in DP mode (Light Weather)

POWER AND PROPULSION

Main Engines	2 x 2,206kW at 750rpm Niigata 8L28 HX
Propulsion	2 x Niigata ZP-41 CP stern steerable thrusters
Shaft alternators	Main Engine front PTO, 1,000kW 440V/3pH.60Hz @ 0.8 P.F., 1,800rpm
Main Generators	4 x 910kW Caterpillar 3508B DITA with Stamford alternator 440V/3pH.60Hz @ 0.8 P.F., 1,800rpm
Emergency Generator	1 x 350kW Caterpillar 3412C with Stamford alternator 440V/3pH.60Hz @ 0.8 P.F., 1,800rpm
Bow Thruster	3 x 680kW electric-driven Kawasaki KT-88B3 double skin tunnel thruster, CPP, abt. 10.5t thrust each

DYNAMIC POSITIONING

DP Classification	DP-2
DP System	Kongsberg Maritime DP-21
Reference Systems	1 x HiPAP 500, 1 x Laser Cyscan 1 x RADius, 2 x DGPS Independent c-Joystick System Taut wire system (500m)

CARGO CAPACITY

Deadweight	3.200 tonne, approx. at 5.50 m draft
Deck Cargo	1,000 tonne, approx.
Deck Strength	10.0t/m ²
Clear Deck Area	700 m ² , approx..
Fuel Oil	900 m ³ , approx.
Fresh Water	800 m ³ , approx.
Ballast	1,700 m ³ , approx.
Freezer/ Chiller	50 m ³ / 47 m ³

DECK EQUIPMENT

Anchor Windlass & Mooring Winch	1 x electro hydraulic, Mentrade
Drum	200 m x dia 40 mm
Drum pull	5T x m/min
Gypsies	For 054 mm U2 rated pull 13T at 0-9 m/min
Warping Drum	400 mm
Anchors	2 x 2,835 kg high holding power
Chains	522.5 m (L) x 054 mm U2
Capstan	2 x 5T @ 15 m/min electro hydraulic
Deck Crane Main	Electro-hydraulic knuckle boom, main boom lifting capacity 50T @ 5m-12m / 20T @ 30 m (DAF 1.6), with constant tension function TTS GPCKO 2000-5-30
Deck Crane Auxiliary	Electro-hydraulic telescopic, Nor Crane 5.9T @ 1.7m-6.9m / 2.2T @ 12.2m
Helideck	Aluminium type, suitable for Sikorsky S92

MISCELLANEOUS

Search Lights	3 x 2,000kW
Flood Lights	5 x 1,000kW
Water Maker	2 x 30m ³ /day reverse osmosis type
Oily Water Separator	1 x 1m ³ /h DVZ
Sewage Treatment Plant	1 x 120 men EVAC or equivalent
Incinerator	1 x 500 kcal/h cap., sludge oil burning cap. 65l/h, Teamtec

INTERCOMMUNICATION SYSTEM

PA Talkback System	
Self-Powered Telephone	
Integrated Telephone System	

FIRE SUPPRESSION SYSTEM

Fixed Fire Extinguishing CO2 System in Engine Room	
Local Water Mist Fire Fighting System in Engine Room	
Fire Detection & Alarm System	
Water Sprinkler & Foam System for Helideck	

CARGO PUMPS

Fuel Oil	1 x 100 m ³ /h at 75 m head, Azcuc
Freshwater	1 x 100 m ³ /h at 75 m head, Azcuc

MOONPOOL

1 open bottom, approx. 5.4 m x 5.2m with damping swash bulkheads ford & aft & air vents
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