

Anchor Handling Tug Supply (AHTS) Vessel

KPV Kapas



Classification & Flag

ABS Class, Maltese Cross + A1+ FiFi Class 1, + AMS, Circle E, AH/Offshore Support & Towing Vessel for restricted services. DPS-1 Enable

Name/Registry/Flag/Built

KPV KAPAS/Port Klang/Malaysia/2009
IMO NUM : 9537824 Call-sign : 9MLD2

Principle Dimensions

Length O.A :	60.00 m	Length W.L :	58.74 m
Beam MLD. :	16.00 m	Depth MLD. :	6.00 m
Draft MLD./Max :	5.10 m	Deck Area :	390 m ²
Deck Loading :	5 MT/m ²	Speed :	Max. 13 knots
Bollard Pull :	73 MT	Endurance :	Min. 22 days
Fuel Type :	MDO	GRT :	1,704 T
NRT :	511 t	DWT :	1,798.60 T

Tank Capacity

Portable Water/FW :	480 m ³	Fuel Oil :	530 m ³
Sludge :	2.1 m ³	Base Oil :	185 m ³
Drill Water (DW) :	478 m ³	Mud :	200 m ³
Foam Tank :	10 m ³	Dispersant Tank :	10 m ³
Sewage Holding Tank :	12 m ³	Bilge Holding Tank :	10 m ³

Pumps

Fuel :	1 x 100 m ³ /hr at 75 m head
Potable Water :	1 x 100 m ³ /hr at 75 m head
Fresh Water :	1 x 100 m ³ /hr at 75 m head
Drill Water :	1 x 100 m ³ /hr at 75 m head
Dry Bulk Delivery :	2 x 14 m ³ /hr at 5.67 bar
Liquid mud/Brine :	2 x 80 m ³ /hr at 75 m head
GS & Fire/Detergent :	50 m ³ /hr at 57 m head

Bulk Handling System

Suitable for carriage of Cement, Barite and Bentonite with max. density of 2.5.
Total Capacity : 4 x 1,375 ft³ (156 m³) approx.
Working pressure : 80 psi (5.6 bar)

Main Machineries

Main Engine & Propulsion System

2 x 2,610 BHP @ 750 rpm approx. c/w. CPP reduction gear box c/w. P.T.O. at front for FiFi Pump per engine & @ gear box P.T.O. for the shaft generator of 1000 kW, 415/3/60, 3 wires.

Thrusters (electric motor driven by shaft generator)

Bow Tunnel Thrusters CPP, - thrust of 8 MT,
Stern Tunnel Thrusters CPP, - thrust of 6 MT

Steering Gear & Rudder

2 x High Lift 45° Rudder c/w Flap
2 x Independent Electro-Hydraulic Steering Gear for each rudder

Power Plant

Diesel Generator :	2 x 280 kW, 415/3/50, 3 Wire System, Diesel Driven Alternators
Shaft generators :	2 x 1,000 kW, 415/3/50
Emergency :	1 x 90 kW, 415/3/50 Generator

Deck Machinery

Anchor Handling Cum Towing Winch

Electro-Hydraulic Driven Twin Drums in Waterfall Configuration,
1,000 m x 58 mm dia. wire

Brake Holdings - 250 MT (1st layer)/spring loaded hyd. release Dynamic lowering @ 25 MT @ 0 to 36 m/min (1st layer) Remote control in Wheelhouse and local control at site

Towing Pins

2 x 200 T SWL, Equip with rotating liners c/w turntable flaps & hydraulic cylinders for lifting and lowering

Shark Jaws

1 set Hydraulic operated retractable lock jaw of 300 MT SWL. Stopper is suitable for wire and chain of size from 1 ¼" to 3 ½"Ø

Stern Roller

1.8 m dia. X 4.2 m length with SWL of 375 MT

Reefer Point

4 no. x 16 Amp, 415/3/50 and 4 no. x 32 Amp, 230/1/50

Others

Capstan 2 x 5 m/tonnes @ 15 m/min
Tugger Winch 2 x 10 m/tonnes @ 15 m/min
Storage Rope Reel 1 x 10 m/tonnes @ 0 to 15 m/min @
Capacity : 1,000 mL x 58 mm dia steel wire rope
2 x 45 kW Hydraulic operated with local controls

Fire Fighting Equipment

External Fire Fighting System

ABS FiFi Class 1 c/w 2 x Fire Monitors with throw length 120 m delivering 2400 m³/hr (Water/Foam) and with all round Fixed Water Spraying System

Fixed Fire Protection System

Fixed CO₂ System for Engine Room & Bow Thruster Room

Fire Alarm & Detection System

As per ABS rules and SOLAS requirements

Communication / Navigational Equipment

Communication System

GMDSS A1 to A3, PA/Talk back and Sound Powered Telephone system
Iridium satellite comm. System with email & voice capability

Navigational Aids Equipment

Echo Sounder, Radars x 2, GPS Navigator (IMO), SART (2), 406 MHz EPIRB, Gyro Compass, Auto Pilot, AIS, SSAS, Speed Log, Navtex Receiver, Magnetic Compass, Anemometer

Searchlights

2 x 2,000,W, Searchlights c/w remote controls (1 fwd & 1 aft)

Accommodation

All accommodation spaces and engine control room are fully air-conditioned
Accommodation Layout:

1 berth Cabin x 4 =	4 men
2 berth Cabin x 2 =	4 men
4 berth Cabin x 8 =	32 men
Total = 40 men	
Sickbay =	1 man

** This vessel specification is given in good faith @ assumed correct. Details given are without guarantee.