

Anchor Handling Tug Supply (AHTS) Vessel



Vessel name:

MV GEMIA

CLASSIFICATION

Built : 2009
 Class : ABS Class, Maltese Cross + A1 + FiFi Class 1 with fixed water spray + DPS 2 + AMS Circle E, AH/Offshore Support & Towing Vessel unrestricted service

NAME/REGISTRY/FLAG/BUILT

GEMIA/Port Klang/Malaysia
 IMO NUM : 9473042 Call-sign : 9ML19

PRINCIPLE DIMENSIONS

Length O.A	: 65.50 m	Length W.L	: 63.50 m
Beam MLD.	: 16.00 m	Depth MLD.	: 6.50 m
Draft MLD./Max	: 5.80 m	Deck Area	: 435 m ²
Deck Loading	: 5.5 mt/m ²	Speed	: Max. 14 knots
Bollard Pull	: 100 mt	Endurance	: 25 days
Fuel Type	: MDO	GRT	: 2146 t
NRT	: 644 t	Deadweight	: 1713 t

TANK CAPACITY

FW/DW/SWB	: 258 m ³	Lube Oil. (ME)	: 7 m ³
FW	: 434 m ³	Lube Oil. (Gen)	: 7 m ³
Liquid Mud/ Brine/DW	: 322 m ³	Dirty Oil Tank	: 7 m ³
Brine/DW/SWB	: 320 m ³	Dispersant Tank	: 15 m ³
Foam Tank	: 15 m ³	Bilge Holding Tank	: 7 m ³
Sewage Holding Tank	: 16 m ³	Hydraulic Oil Tank	: 7 m ³
Fuel Oil	: 640 m ³		

PUMPS

Fuel	: 1 x 150 m ³ /hr at 90 m head
Potable Water	: 1 x 150 m ³ /hr at 90 m head
Fresh Water	: 1 x 150 m ³ /hr at 90 m head
Drill Water	: 1 x 150 m ³ /hr at 90 m head
Dry Bulk Delivery	: 2 x 14 m ³ /hr at 5.67 bar
Liquid mud/Brine	: 2 x 100 m ³ /hr at 80 m head
GS & Fire/Detergent	: 60 m ³ /hr at 60 m head

BULK HANDLING SYSTEM

Suitable for carriage of Cement, Barite and Bentonite with max. density of 2.5.
 Total Capacity : 4 x 215.3 m³ approx.
 Working pressure : 80 psi (5.6 bar)

MAIN MACHINERIES

Main Engine & Propulsion System

2 x MAK 9M25, 4040 HP @ 750 rpm air start, c/w. RRM reduction gear box and Ulstein Kamewa CPP, P.T.O. at front for FiFi Pump per engine & PTO @ gear box for the shaft generator of 1450 kW, 440/3/60,

Thrusters

Bow Tunnel Thrusters CPP, - thrust of 10 mt, (electric motor driven)
 FWD retractable thrusters FPP - 13 mt (diesel driven, Cummins KTA38M1, 1000 HP @ 1800 RPM)
 Stern Tunnel Thrusters CPP, - thrust of 10 mt (electric motor driven)

Steering Gear & Rudder

2 x independent electro-hydraulic Wagner steering gear c/w with DPS-2 and Joystick control system
 2 x High Lift Becker Rudder operating with maximum rudder angle of about 45°

POWER PLANT

Diesel Generator	: 2 x 485 kW, 440/3/60, 3 wire system Prime Mover, Cummins KTA19DM1, Alternators: Stamford
Shaft generators	: 2 x 1450 kW, 440/3/60, 08 PF 3 wire (PTO from M/E)
Emergency Generator	: 1 x 99 kW, 450/3/60

DECK MACHINERY

Anchor Handling Cum Towing Winch

Electro-Hydraulic Driven Twin Drums in Waterfall Configuration, 1500 m x 64 mm dia. Wire, Remote control in Wheelhouse and local control at site
 Pull-250 mt (anchor handling drum @ 1st layer)
 Brake Holdings - 300 mt (1st layer - Towing)

Towing Pins

2 x 200 t SWL (@min 400 t workload), Equip with rotating liners c/w turntable flaps & hydraulic cylinders for lifting and lowering

Shark Jaws

2 x set Hydraulic operated retractable lock jaw of 300 mt SWL. Stopper is suitable for wire and chain of size from 1 1/4" to 4"Ø

Stern Roller

2.0 m dia. X 4.8 m length with SWL of 500 mt

Reefer Point

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

Others

Capstan 2 x 10 m/tonnes @ 18 m/min
 Tugger Winch 2 x 10 m/tonnes @ 20 m/min
 Storage Rope Reel 1 x 7 m/tonnes @ 0 to 29 m/min @ Capacity : 1800 mL x 64 mm dia steel wire rope, 3 x 45 kW Hydraulic motor 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 1200 m³/hr (Water/Foam) and with all round Fixed 300 m³/hr 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

DPS-2 System

Equipment : CONVERTEAM System consist of Joystick, DP control computer, Laser Reference System, DGPS, Wind sensor, Vertical Reference unit, Printer for alarm logging

Searchlights

2 x 2000W, Searchlights c/w remote controls (1 fwd & 1 aft)

Accommodation

All accommodation spaces and engine control room are full air-condition Accommodation Layout:

1 berth Cabin x 2	=	2 men		
2 berth Cabin x 2	=	8 men		
4 berth Cabin x 6	=	28 men		
1 x 2 berth (sickbay)	=	2 men		
			Total	= 38 men

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

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