

MV JM PURNAMA



Anchor Handling Tug Supply Vessel
60 M S,220 BHP 74 MT Bollard Pull DP1



PRINCIPAL PARTICULARS

Length Overall	: 60.0 m
Length W.L	: 58.74 m
Breath Molded	: 16.00 m
Depth Molded	: 5.5 m
Draft Molded	: 4.85 m
Class	: Bureau Veritas
Flag/Port Registry	: Malaysian/Port Klang
Built / Delivery	: November 2011
Official No.	: 334387
IMO No.	: 9626637
Call Sign	: 9MPL3
Hull No.	: 20093
GRT/NRT	: 2669 / 500 MT
Place of Built	: Muhiabah Marine Eng.

PERFORMANCE

Performance Speed	: 13 knots
Economical Speed	: 11 knots
Endurance	: 22 days

CARGO CAPACITIES

Deck Cargo	: 600MT
Deck Strength	: 7mt/m ²
Cargo Deck Area	: 390 m ²
Potable Water Tank	: 500 m ³
Fuel Oil Tank	: 522 m ³
Drill Water / SWB Tank	: 625.90 m ³
Foam & Detergent Tank	: 10 m ³ each
Dry Bulk Tank	: 170 m ³ / 4 tanks
Liquid Mud Tank	: 177 m ³
Base Oil/Brine Tank	: 159 m ³

DISCHARGE RATES

Fuel Oil	: 100 m ³ /Hr @ 90m head
Portable / Drill Water	: 100 m ³ /Hr @ 90m head
Base Oil	: 100 m ³ /Hr @ 90m head
Liquid Mud	: 2 x 90 m ³ /Hr @ 90m head 150hp x 2900rpm for S.G 2.0
Bulk Cement	: 13.0 m ³ /min, normal working pressure 5.6 bar
Fresh Water Maker	: 5.5 m ³ /24hrs (240 lit/hr)

PUSPULSION SYSTEM

Main Engines	: 2 x 2610 BHP @ 750 rpm Yanmar 6EY26
Auxiliary Engines	: Caterpillar 3406 DITA, 2 x 245 Kw x 415V x 3ph x 1500 rpm
Shaft Alternator	: Lerco Somer, 2 x LSA M50, 154 4P, 700 kW 50 Hz
Bow Thrusters (Electric motor driven)	: 1 x HRP 4008 TTCP 8 mt thrust, 515 kW, 1500 rpm
Propellers	: 2 x CPP in fixed nozzle, Berg, BCP 690
Gear Box	: Reintjes, LAF 2346 K41
Emergency Generator	: 1 x Caterpillar, 86Kw, 415V 3 ph, 50 Hz @ 1500 rpm

DP1 DYNAMIC POSITIONING SYSTEM

DP System	: Kongsberg DP1 Dynapos AM 2 x Kongsberg Differential Position System 2 x Kongsberg Motion Reference Unit, 2 x Wind Sensor 1 x Digital Gyro Compass 1 x UPS 1 x cPos Operator Console & Station
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TOWING / ANCHOR HANDLING EQUIPMENT

Bollard Pull	: Average 74 MT, Max. 75 MT
Towing Winch	: Double drums waterfall type, 200 MT stall pull x 3000m x 58mm wire rope
Stern Roller	: 1.8 m dia x 4.0 m length, 200 SWL
Karm Fork	: 1 set Karmoy Ref: M330120 SWL 300 tons
Towing Pins	: SWL 160 MT
Storage Reel	: 1 x 5 ton @ C-20m/min

DECK EQUIPMENT

Capstan	: 2 x 6T @ 20 m/min
Tigger Winch	: 2 x 10T @ 15m/min
Deck Crane	: Type ATB 58/8.5 MT @ 8m outreach
Anchor Windlass	: 10T @ 0-12 m/min max duty, 45mm chain
Anchor	: 2 x HHP AC14 1590kg Anchors

ACCOMMODATIONS

Complement	: 46 mens
All cabin fully air-conditioned	
Walk-in freezer space	: 10.0 m ³
Walk-in Chiller	: 12.0 m ³

RADIO & NAVIGATION EQUIPMENTS

SSB	: 2 x JRC 150W MF/HF
SSB (additional)	: 1 x Furuno FS-1503 150W SSB/HF
VHF	: 2 x JRC-7705
Radar	: JRC, JMA-5312-6, 5210-6
Echo Sounder	: JRC, JFE-380
Gyro Compass	: Yokogawa CMZ 700B M 3
GMDSS	: Area 3
Magnetic Compass	: 1 x Lilliey & Gillie MK2000
Speed Log	: 1 x JRC, JLN-205
Auto Pilot	: 1 x Navitron PID, NT991G MKII
Navtex Receiver	: JRC, NCR-333
GPS Navigator	: 2 x JRC, NWZ-4570
Joystick	: 1 Integrated Joystick Control
EPIRB	: 1 set JMC MT403FF
AIS	: 1 x JRC, JHS-182
Fleet Broadband	: 1 set Thrane & Thrane FBB 250

FIRE FIGHTING EQUIPMENTS

Eternal	
Fire Pump	: Kvaerner, 2 x 1500 m ³ hr main engine driven
Fire Monitor	: 2 monitors (water, foam, manual and remote control)
Oil Dispersant Boom	: 2 x 6m spray boom
Internal	
CO2 System in engine room	: Fitted
Gas Detection System	: Fixed

LIFE SAVING & H.S.E. EQUIPMENTS

Search Lights	: 2 x 2000W halogen
Floodlights	: 6 x 1000W halogen, 2 x 500W halogen
Life Jackets	: 46 x 6 men
Liferafts	: 4 x 25 & 2 x 15 men
Lifebuoys	: 3 pcs SOLAS approved
Firemen Suits	: As per SOLAS requirement
Immersion Suits	: As per SOLAS requirement
Scrambling Net	: 2 pcs
Rescue Boat	: semi-rigid "Narwal" 6 person @ c/w 30 hp outboard motor
Slewing Devit	: As per SOLAS requirement

AUXILIARY MACHINERIES

G.S and fire pump	: 1 x 60 m ³ hr @ 60 mH, 18.5 kW Bombass Accue 8A WM-EM : 1 x 60 m ³ hr @ 60 mH, 18.5 kW Bombass Accue 8A WM-EM
Bilge and Ballast	: 2 x 800 l/h, Mitsubishi Kaisha, Model 5J0G self-cleaning
Lub Oil Purifier	
Sewage Treatment Plant	: DVZ, 30 men, marpol compliance
Oily Water Separator	: 1.0 m ³ , marpol compliance

OTHERS

Refereer points	: 4 x 22 amp 415/3/50Hz 4 x 16 amp 240V/1/50Hz
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JM PURNAMA GENERAL ARRANGEMENT PLAN

