



M/V Pacific Responder

- ▶ **Bollard Pull** 76-87 tonnes
- ▶ **Brake Horsepower** 6997-7105 BHP
- ▶ **Clear Deck Space** 278-408 m²
- ▶ **Winch Line Pull** 150 tonnes

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Clear Deck Space	278-408 m2	Winch Line Pull	150 tonnes

General Information

Port of registry:	Singapore
Built:	Pan United Marine Ltd, Batam (Indonesia), August 2006
Flag:	Singapore
Call Sign:	9V2958
IMO No.:	9340049
Classification:	DNV-GL +1A1 Fire fighter(I) Tug DPS(2) E0 SF

Dimensions

Length, overall:	64.3 metres
Length, BP:	57.25 metres
Breadth, moulded:	15.0 metres
Depth, main deck:	6.7 metres
Design draft:	5.1 metres
Maximum draft midship:	5.77 metres
GT:	1811
NT:	614

Capacities

Deadweight (maximum):	2148 tonnes
Clear Deck Area:	34 m x 12 m = 408 m2
Deck Strength:	General deck - 5 tonnes/m2 Aft A/H deck - 5 tonnes/m2
Deck Cargo:	900 tonnes
Fuel:	495 m3 at 95% (+378 m3 additional with 6 mud tanks)
Potable Water:	633 m3
Ballast Water / Drill Water:	480 m3
Brine / DMA / Glycol / Liquid Mud:	126.2 m3 (s.g. 2.5) (2 tanks)
Liquid Mud:	378.6 m3
Dry Bulk:	186 m3 (4 tanks)

Machinery

Main Engines:	2 x 2610 kW = 5220 kW (6997 BHP) Bergen C25:33L9P
Propulsion:	2 x CPP Propellers in Kort nozzles 2 x Ulstein high lift independent rudders 2 x Rolls Royce Tenjford Electro Hydraulic steering gear
Bow Thrusters:	2 x 500 kW = 1000 kW (1340 BHP) developing 8.05t each
Stern Thrusters:	1 x 500 kW (670 BHP) developing 8.05t
Shaft Generators:	2 (1 Port and 1 Starboard) x Newage AVK generators 1600kVA, 2053A, 60Hz, 450V
Auxiliary Generators:	1 x Newage International Limited 338kVA, 443.5A, 60Hz, 440V
Emergency Generators:	1 x Newage International Limited 338kVA, 443.5A, 60Hz, 440V

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Towing and Anchor Handling

Bollard Pull:	80.4 tonnes, continuous
Main Winch:	1 x Brattvaag SL150W-2T low pressure hydraulic, with tension and line out metres
Load Capacity:	Towing Anchor Handling Drum 1st layer 150 tonnes pull at 0 - 6.8 m/min 82 tonnes pull at 0 - 11 m/min 35 tonnes pull at 0 - 22 m/min Lowering at 0 - 23 m/min
Brake Capacity:	250 tonnes on towing drum 1st layer 250 tonnes on Anchor Handling drum 1st layer
Tow Drum Wire Capacity:	1200 m x 64 mm diameter
AH Drum Wire Capacity:	1500 m x 71 mm diameter
Work Drum Capacity:	1200 m x 56 mm diameter
Chain Gypsy Cable Lifter:	1 x cable lifter for 3" (76 mm) rig chain
Stern Roller:	SWL approximately 300 tonnes Length 4 m x 2 m diameter
Tow Pins / Guide Pins:	1 x retractable Karm guide pin with horizontal locking tops
Wire Chain Stopper:	1 x retractable Karm Fork, SWL 300 tonnes
Pennant Storage Reels:	2 x Hydraulic Braatvaag storage reels

Deck Machinery

Tuggers:	2 x 6 tonnes Rauma Brattvaag
Capstans:	2 x 6 tonnes Brattvaag
Windlass:	9 tonne pull Brattvaag, 1600 kg high holding anchors each side with 330 m (12 shackles) x 36mm chain, 1 spare anchor
Bow Mooring:	1 x mooring drum, 200m x 38mm rope capacity
Smit Towing Bracket:	1 x 200 tonnes SWL located on focsle
Crane Capacity:	1 x stores crane 2 tonnes @ 10m outreach,

Electronics

Main Radar:	Furuno FAR-2137S 21 INS, Colour LCD, S-Band ARPA
Auxiliary Radar:	Furuno FAR-2117S 21 INS, Colour LCD, X-Band ARPA
Auto Pilot:	Tokimec PR 6000
Gyro Compass:	3 x Tokimec TG8000
Magnetic Compass:	Tokimec
Echo Sounder:	Sperry Marine ES 5100
DGPS :	2 x Veripos LD 5 units GPS: 1 x Furuno GPS Navigator GP-150
Anemometer :	3 x Gill Ultrasonic Wind Observer II
Speed Log:	Furuno Model DS-80 Doppler

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Communications:	G.M.D.S.S. (Global Maritime Distress and Safety System) Area A3 1 x SSB 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Navtex PA System: Steenhans SPA-M4S
Navtex Receiver:	ICS NAV 5
Weather Fax:	Furuno FAX-207
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	Furuno Universal FA-100
VHF:	2 x Furuno Radiotelephone FM 8800 series
VRU:	1 x Teledyne DMS-10 2 x Teledyne DMS-RP30
BNWAS:	MARTEK NAVGUARD

Discharge Pumps

Fuel Oil:	1 x 100 m ³ /hr - 7.0 bar
Dirty Oil:	1 x 2 m ³ /hr - 4.0 bar
Potable Water:	1 x 150 m ³ /hr - 7.0 bar
Drill Water:	1 x 150 m ³ /hr - 7.0 bar
Mud:	1 x 75 m ³ /hr - 18.0 bar
Brine / Mud:	1 x 75 m ³ /hr - 18.0 bar
Dry Bulk:	4 x pods at 5 bar
Cargo Flow Meters :	Fresh Water / FO Flow meter
Hose Connections :	Fuel: Aft stbd TODO 4 inch male. Aft port Camlock 4 inch female. Midships port and stbd Camlock 4 inch female. Potable Water: Aft port and stbd side Camlock 4 inch female. Drill Water: 4 inch (Camlock) Mud: 4 inch female (Camlock) Brine: 4 inch female (Camlock) Bulk: 5 inch female (Camlock) Adapters: 4-5 inch

Performance

Speed / Fuel Consumption:	Max. speed (15.5 knots): Approximate consumption 24 metric tonnes/day Cruising speed (12 knots): Approximate consumption 12 metric tonnes/day Speed at 100% MCR: 14 knots Speed at 85% MCR: 12 knots
In Port:	1 metric tonne/day

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Dynamic Positioning

Type:	GE Duplex Dynamic Positioning System, C Series
Reference Systems:	2 x Veripos LD 5 DGPS / Fanbeam 5
Control Modes:	Joystick manual heading / Joystick auto heading / Dynamic positioning / Model control (Dead reckoning) / Simulation (For training purposes) / DP minimum power / Auto track / Auto pilot mode / Mixed axis mode / Ship follow (Fanbeam)
Joystick:	Poscon - electronic control system joystick, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

External Fire Fighting

Capacity:	2 x 1200 m ³ /hr, 1 x 600 m ³ /hour foam
Monitors:	2 x Jet/Foam/Spray, 1 x Foam, located on top of bridge and remotely operated from inside bridge
Throw Length:	120 m (for FFS 1200LB Monitors)
Throw Height:	50 m (for FFS 1200LB Monitors)
Drenching System:	Yes
Foam Tank :	16.6 m ³

Standby Rescue Equipment

1. Rescue Boat
Self righting with boat davit for quick launch and recovery, twin 30hp Yamaha petrol outboards with propeller guards, 25 knots top speed with light load, Rescue Zones Port and Starboard on main deck with scrambling nets and personnel transfer swing ropes
2. Life Saving Equipment
Inflatable Liferrafts: 6 x 20 person SURVIVA liferafts
Lifebuoys: 2 x lifebuoys with smoke, light and line, 2 x lifebuoys with light and line, 4 x lifebuoys with line
Lifejackets: 54 with light and whistle

Anti-Pollution

Dispersant Tank:	17.3 m ³
Spray Booms:	2 (1 port, 1 starboard), 6 nozzles each

Accommodation

Berths:	4 x 1 berths 10 x 2 berths (including hospital) 3 x 4 berths 36 berths total
	Galley: 1 (features chiller, refrigerator and freezer spaces)
	Messroom: 1
	Hospital: 1
	Offices: 1 x ship's office

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Environmental Features

1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and dedicated recirculation
2. Low residue design bulk tanks
3. 1 x 15 ppm oily water separator
4. 1 x sewage plant, extended aeration type
5. Garbage compactor and mascerator

Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 74, with amendments in force and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel"
2. F.O. and mud systems are controlled by a Tanktender system with discharge printer for FO
3. Fitted with 2 Halogen searchlights, each 2000 W, wheelhouse top and electrically operated from inside wheelhouse, 4 x 1000 W flood-lights, for cargo deck
4. Electrical Sockets -
Deck Power Supplies:
1 x 1000A - 440V Shore power
4 x 220V - 10A 1 phase
6 x 32A 3 phase
1 x 220V 3 phase
1 x 63A 440V
Inside Accommodation: 220V international sockets
5. Wood sheathed main deck except for aft area, which is steel plated for anchor handling
6. Welding and cutting equipment and lathe in workshop
7. Fresh water ultra violet steriliser
8. Fire detection system fitted to the accommodation, engine room and emergency generator spaces
9. CO2 fire extinguishing system fitted to cover the engine room, paint locker, hydraulic pump room and galley vent trunking
10. Statutory liferafts, life-jackets, pyrotechnics
11. Drenching System fitted.