



M/V Pacific Avenger

- ▶ **Brake Horsepower** 6220 BHP
- ▶ **Clear Deck Space** 735 m²
- ▶ **Deadweight** 3118-3255 tonnes
- ▶ **Deck Cargo Capacity** 1600 tonnes

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Brake Horsepower	6220 BHP	Clear Deck Space	735 m2
Deadweight	3118-3255 tonnes	Deck Cargo Capacity	1600 tonnes

General Information

Built:	Pan United Shipyard / Drydocks World (Singapore), March 2008
Flag:	Singapore
Call Sign:	9VGE9
IMO No.:	9386275
Classification:	DNV-GL +1A1 DYNPOS(AUTR) E0 SF

Dimensions

Length, overall:	73.4 metres
Length, BP:	66.8 metres
Breadth, moulded:	16.0 metres
Depth, main deck:	7.0 metres
Maximum draft midship:	5.9 metres
Design draft:	5.0 metres
GT:	2218
NT:	955

Capacities

Deadweight (maximum):	3236 tonnes
Clear Deck Area:	735 m2 (49 x 15 m)
Deck Strength:	5 tonnes / m2
Deck Cargo:	1600 tonnes
Fuel:	950 m3 (dedicated) 1910 m3 (including optional tanks)
Potable Water:	743 m3 (Stab tank not included)
Ballast Water:	862 m3
Brine / DMA / Glycol / Liquid	
Mud:	344 m3
Liquid Mud:	912 m3
Dry Bulk:	306 m3

Machinery

Main Engines:	2 x Bergen diesel engines each 2320 kW = 4640 kW (6220 bHP)
Propulsion:	2 x RRM CP propeller system 600 AGSC-KP-66 P1/4T-2900
Bow Thrusters:	2 x 600 kW (2 x 804 BHP) Kamewa/RRM
Stern Thrusters:	2 x 600 kW (2 x 804 BHP) Kamewa/RRM
Shaft Generators:	2 x 1600 kVA x 440V x 60Hz
Auxiliary Generators:	1 x 325 kVA, 440V, 3-Phase 60Hz Caterpillar
Emergency Generators:	1 x 325 kVA, 440V, 3-Phase 60Hz Caterpillar

Deck Machinery

Tuggers:	2 x 10 tonnes each, hydraulic
Capstans:	2 x 10 tonnes each, hydraulic
Windlass:	1 x 10 tonnes, hydraulic

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Crane Capacity: 1 x 1.5 tonnes, 10 metre Fixed Boom

Electronics

Main Radar:	Furuno FAR-2137S, S-band (10 cm), ARPA, 20 ins display
Auxiliary Radar:	Furuno FAR-2117, X-band (3 cm), ARPA, 20 ins display
Auto Pilot:	Tokimec PR 6000 ZL
Gyro Compass:	3 x Tokyo Keiki TG-8000, with repeaters
Magnetic Compass:	Tokimec SHB-165A
Echo Sounder:	Sperry Marine ES 5100
DGPS :	2 x Veripos LD5
Anemometer :	2 x Gill Ultrasonic WindObserver II / Young Marine wind tracker 06206
Speed Log:	Furuno DS 80
Communications:	Furuno G.M.D.S.S (Global Maritime Distress & Safety System) 1 x SSB 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Navtex
Watch System:	2187.5 kHz FURUNO
Weather Fax:	2187.5 kHz FURUNO
Satellite Communication:	FBB: Sailor 500
AIS:	Furuno
VRU:	SMC IMU-108 /SMC IMU-007 / TSS RP-30

Discharge Pumps

Fuel Oil:	100 m3 / hr - 7.0 bar
Base Oil:	150 m3 / hr - 7.0 bar
Potable Water:	150 m3 / hr - 7.0 bar
Drill Water:	150 m3 / hr - 7.0 bar
Liquid Mud:	75 m3 / hr - 18.0 bar
Brine / Mud:	75 m3 / hr - 18.0 bar
Dry Bulk:	80 m3 / hr - 5.6 bar, 80 psi, 2 compressors
Hose Connections :	Fuel - 4" (TODO) Potable Water - 4" (WECO) Drill Water - 4" (WECO) Mud - 4" (TODO) Dry Bulk - 5" (WECO) Adapters 4"-5"

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Performance

Speed / Fuel Consumption:	14.5 knots maximum speed
	@ 12 knots, fuel consumption is 15.0 tonnes per day
	@ 10 knots, fuel consumption is 8.6 tonnes per day
	@ 100% MCR (4640 kW), fuel consumption is 24.0 tonnes per day

Dynamic Positioning

Type:	GE Duplex Dynamic Positioning System, C-Series
Reference Systems:	2 x Veripos LD5 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) / ROV Follow (Requires Acoustic)
Joystick:	GE Independent Joystick

External Fire Fighting

Capacity:	2 x 1500 m3 / hr pumps = 3000 m3 / hr
Monitors:	2 x 1200 m3 / hr Jet / Foam / Spray on wheelhouse roof remotely operated from wheelhouse
Throw Length:	120 m
Throw Height:	50 m

Standby Rescue Equipment

1. 1 x Jiangin Neptune Marine NPT60RB, 15 persons, SOLAS approved FRB with inboard diesel waterjet propulsion. Speed with 3 persons approx. 20 knots. Davit for quick launch and recovery.
2. Rescue zone on both Port and Starboard side main deck

Anti-Pollution

Dispersant Tank:	10.8 m3
Spray Booms:	2 x 6 m

Accommodation

Berths:	6 x 1 berths
	7 x 2 berths
	2 x 4 berths
	28 berths Total
	1 x 4 berths in hospital

Environmental Features

1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and dedicated recirculation

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2. Cargo load / discharge stations with save all to inboard tank
3. 1 x 15 ppm oily water separator
4. 1 x sewage plant, extended aeration type
5. Low residue design bulk tanks

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 Fuel Oil.
3. Fitted with 2 Halogen searchlights, each 2000W, wheelhouse top and electrically operated from inside wheelhouse, 4 x 1000W flood-lights, for cargo deck.
4. Deck power supplies:
 - 1 x 1000A x 440V x 3ph
 - 3 x 63A x 440V x 3ph
 - 2 x 32A x 220V x 1ph
5. Wood sheathed main deck throughout with deck loading of 5 tonnes per m2.
6. Base Oil tank capacity of 200 m3, 2 tanks - separate pipelines and pump.
7. Welding and cutting equipment and lathe in workshop.
8. Fresh water ultra violet sterilizer.
9. Fire detection system fitted to the accommodation, engine room and all other machinery spaces.
10. CO2 fire extinguishing system fitted to cover the engine room, paint locker, hydraulic pump room and galley vent trunking.
11. Fixed H2S gas monitoring system with 4 sensor locations.
12. Dacon Rescue Scoop fitted forward of starboard rescue zone.