



M/V Pacific Panda

- ▶ **Bollard Pull** 53-66 tonnes
- ▶ **Brake Horsepower** 4826-5147 BHP
- ▶ **Clear Deck Space** 275-330 m²
- ▶ **Winch Line Pull** 150 tonnes

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Clear Deck Space	275-330 m ²	Winch Line Pull	150 tonnes

General Information

Built:	Qingdao Qianjin Shipyard, China, November 2010
Flag:	Singapore
Call Sign:	9V7609
IMO No.:	9503354
Classification:	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing) DPS(1)

Dimensions

Length, overall:	57.50 metres
Length, BP:	50.50 metres
Breadth, moulded:	14.00 metres
Depth, main deck:	6.00 metres
Design draft:	4.55 metres
Maximum draft midship:	5.10 metres
GT:	1329
NT:	484

Capacities

Deadweight (maximum):	1543.48 tonnes
Clear Deck Area:	30m x 11m = 330 m ²
Deck Strength:	General deck - 5 t/m ² Aft AH deck - 19 mm steel plate
Deck Cargo:	500 tonnes
Fuel:	566.286 m ³ (dedicated)
Potable Water:	400.746 m ³
Ballast Water:	371.866 m ³
Brine / DMA / Glycol / Liquid Mud:	147.264 m ³ or 5,200 ft ³ (2 tanks dual-use Brine/Mud/DMA)
Liquid Mud:	184.432 m ³ or 6,513 ft ³ (4 dedicated tanks) 331.696 m ³ or 11,713 ft ³ (including 2 dual-use tanks)
Dry Bulk:	135 m ³ or 4,750 ft ³ in 2 x 2 tank independent systems. Cement density max 2.35 t/m ³ and fineness 4,000 Blaine

Machinery

Main Engines:	2 x 1920 kW = 3840 kW (5147 BHP) Yanmar 6EY26
Propulsion:	2 x CPP propellers in Kort nozzles 2 x Electric-hydraulic steering gear
Bow Thrusters:	1 x 500 kW (670 BHP) producing 7.9 tonnes (77.5 kN) thrust
Stern Thrusters:	1 x 500 kW (670 BHP) producing 7.9 tonnes (77.5 kN) thrust
Shaft Generators:	2 x 1,250 kVA, 440 V, 60 Hz
Auxiliary Generators:	1 x 320 kW Caterpillar 3406 C with spark arrestor
Emergency Generators:	1 x 315 kW Caterpillar 3406 C with spark arrestor

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Towing and Anchor Handling

Bollard Pull:	66.3 MT @ 100% MCR
Main Winch:	1 x MacGregor-Plimsoll double drum, low pressure winch
Load Capacity:	Towing / A/H drums 1st layer 150 tonnes at 7.2 m/min 100 tonnes at 10.8 m/min 50 tonnes at 22 m/min
Brake Capacity:	250 tonnes (static) on towing drum 1st layer 250 tonnes (static) on AH drum 1st layer
Tow Drum Wire Capacity:	1200 m x 64 mm (2.5 inch) diameter
Work Drum Capacity:	1200 m x 64 mm (2.5 inch) diameter
Chain Gypsy Cable Lifter:	1 x 76 mm (3 inch) diameter chain
Stern Roller:	1 x 2 m diameter x 4 m width, SWL 250 tonnes
Tow Pins / Guide Pins:	1 x set hydraulic Karmoy, remotely controlled
Wire Chain Stopper:	1 x retractable Karmoy, SWL 250 tonnes, controlled from wheelhouse (32 - 76 mm chain)

Deck Machinery

Tuggers:	2 x 10 tonnes MacGregor-Plimsoll
Capstans:	8 x tonnes x 15 m/min MacGregor-Plimsoll ; Drum - 10 tonnes x 10 m/min
Windlass:	1,440 kg high holding power anchor, 412.5 m x 30 mm dia U3 chain
Bow Mooring:	1 x mooring drum capacity 220 m x 38 mm synthetic rope
Crane Capacity:	SWL 1,500 kg @ 8 m radius, make: Helia, model: HM25-8F

Electronics

Main Radar:	1 x Furuno X-band, 21 inch colour LCD, ARPA
Auxiliary Radar:	1 x Furuno S-band, 21 inch colour LCD, ARPA
Auto Pilot:	1 x Tokyo Keiki PR-6000-e
Gyro Compass:	2 x Tokyo Keiki
Magnetic Compass:	1 x Tokimec SH165A1
Echo Sounder:	1 x Furuno FE-700
DGPS :	1 x Veripos LID3G
Communications:	G.M.D.S.S. (Global Maritime Distress & Safety System) Area A3 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 1 x McMurdo E5 1 x Navtex
Weather Fax:	Furuno FAX 408
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	Furuno FA 150
BNWAS:	1 x Navguard

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Discharge Pumps

Fuel Oil:	1 x 100 m ³ /hr - 7.0 bar
Dirty Oil:	1 x 10 m ³ /hr - 2.0 bar
Potable Water:	1 x 150 m ³ /hr - 7.0 bar
Drill Water:	1 x 150 m ³ /hr - 7.0 bar
Liquid Mud:	1 x 75 m ³ /hr - 18 bar
Brine / Mud:	1 x 75 m ³ /hr - 18 bar
Dry Bulk:	2 x 78 m ³ /hr - 5.6 bar, 80 psi
Hose Connections :	Fuel - 4" Camlock
	Potable Water - 4" Camlock
	Drill Water - 4" Camlock
	Liquid Mud - 5" Camlock
	Dry Bulk - 4" Camlock

Performance

Speed / Fuel Consumption:	Maximum speed 13.5 knots free running at 100% MCR - approximate fuel consumption 19 m ³ per day
	Economical speed 10 knots - approximate fuel consumption 10.5 m ³ per day
	Idle at sea - approximate fuel consumption 2.3 m ³ per day
	Idle in port - approximate fuel consumption 0.8 m ³ per day

Dynamic Positioning

Type:	Converteam C series DP1 system
Reference Systems:	Veripos DGPS LID3-G1 and MDL Fanbeam
Control Modes:	Manual / DP / Joystick
Joystick:	Converteam Independent Joystick System

External Fire Fighting

Capacity:	2 x 1200 m ³ /hr = 2400 m ³ /hr
Monitors:	2 x 1200 m ³ /hr mounted on wheelhouse top, remotely controlled from wheelhouse
Throw Length:	120 m
Throw Height:	50 m at 70 m distance
Drenching System:	Fitted
Foam Tank :	18.5 m ³ online to FiFi No.1

Standby Rescue Equipment

1. 1 x Vanguard VG 6.0 FRW, 15 persons, SOLAS approved FRB with inboard diesel waterjet propulsion.
2. 1 x Maritime Partner Weedo 600RB, 15 persons, SOLAS approved Rescue Boat with inboard diesel waterjet propulsion.
3. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.

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4. Dacon Rescue Scoop - scoop working zone 6 m outreach SWL 1,500kg minimum.

Anti-Pollution

Dispersant Tank:	9.190 m ³
Spray Nozzles:	4 x spray nozzles (2 at each side), outreach: 12 m

Accommodation

Berths:	4 x 1 berths 5 x 2 berths 2 x 4 berths 22 berths in Total 1 x combined messroom/recreation room 1 x galley All living space fully air-conditioned, design 45 deg C / 70% RH outside, 25 deg C / 50% RH inside
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Environmental Features

1. Real time main engine fuel consumption monitoring, ensuring maximum fuel efficiency and emissions reduction.
2. Coffin 5 ppm oily water separator, effluent quality exceeds the 15 ppm current legislation requirements.
3. 1 x Ompipure sewage plant, complies with latest 2010 IMO Resolution MEPC 159(55).
4. Cargo load / discharge stations with saveall to inboard tank.
5. Low residue design bulk tanks.
6. Mud tanks with dedicated recirculation pumps.
7. Macerator fitted in galley. Provision for recycling of waste.

Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 1974, and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel".
2. Bulk systems remotely controlled from wheelhouse.
3. Fitted with 3 halogen searchlights (1 fwd, 2 aft), each 2000W, on wheelhouse top and electrically operated from inside wheelhouse, 8 x 1000W floodlights for cargo deck.
4. Deck power supplies:
4 x 250A, 440V, 3phase
1 x 63A, 440V, 3phase
1 x 32A, 220V, single phase
5. Wood sheathed main deck for aft area, which is steel plated for anchor handling. Supplied with anchor grapnel.
6. Welding / cutting equipment and lathe in workshop.
7. Fresh water ultra violet sterilizer.

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8. CO2 fire extinguishing system fitted in the engine room/ paint locker / hydraulic pump room / emergency generator room. Independent CO2 system for Galley.
9. Fire detection system fitted to the accommodation, engine room and throughout the vessel.
10. Statutory liferafts, life-jackets, pyrotechnics.
11. Removable crash rail sections on main deck (PS & SB) to facilitate ROV operation.
12. RO Water Maker Plant - Make Cathelco Seafresh Model T25.