



## M/V Pacific Phoenix

- ▶ **Bollard Pull** 56-65 tonnes
- ▶ **Brake Horsepower** 4,826 BHP
- ▶ **Clear Deck Space** 324 - 330 m<sup>2</sup>
- ▶ **Winch Line Pull** 150 tonnes

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## General Information

Built:	Qingdao Qianjin Shipyard, China, June 2011
Flag:	Singapore
Call Sign:	9V7612
IMO No.:	9503419
Classification:	ABS *A1, Towing Vessel, Offshore Support Vessel, Circle E, *AMS

## 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 Tonnes
NT:	484 Tonnes

## Capacities

Deadweight (maximum):	1550.51 tonnes
Clear Deck Area:	30m x 11m = 330 m <sup>2</sup>
Deck Strength:	General deck - 5 t/m <sup>2</sup> Aft AH deck - 19 mm steel plate
Deck Cargo:	500 tonnes
Fuel:	566.286 m <sup>3</sup> (dedicated)
Potable Water:	396.73 m <sup>3</sup>
Ballast Water:	371.866 m <sup>3</sup>
Brine / DMA / Glycol / Liquid Mud:	147.264 m <sup>3</sup> or 5200 ft <sup>3</sup> (2 tanks dual-use Brine/Mud/DMA)
Liquid Mud:	184.432 m <sup>3</sup> or 6513 ft <sup>3</sup> (4 dedicated tanks) 331.696 m <sup>3</sup> or 11713 ft <sup>3</sup> (including 2 dual-use tanks)
Dry Bulk:	135 m <sup>3</sup> or 4750 ft <sup>3</sup> in 2 x 2 tank independent systems. Cement density max 2.35 t/m <sup>3</sup> and fineness 4,000 Blaine.

## Machinery

Main Engines:	2 x 1,800 kW = 3,600 kW (4,826 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 1250 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:	64 metric tonnes
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:	1440 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 1500 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:	1 x Tokimec TG-8000 with 4 repeaters
Magnetic Compass:	1 x Tokimec SH165A1
Echo Sounder:	1 x Furuno FE-700
DGPS :	1 x Furuno DG-150
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

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### Discharge Pumps

Fuel Oil:	1 x 100 m3/hr - 7.0 bar
Dirty Oil:	1 x 10 m3/hr - 2.0 bar
Potable Water:	1 x 150 m3/hr - 7.0 bar
Drill Water:	1 x 150 m3/hr - 7.0 bar
Liquid Mud:	1 x 75 m3/hr - 18 bar
Brine / Mud:	1 x 75 m3/hr - 18 bar
Dry Bulk:	2 x 78 m3/hr - 5.6 bar, 80 psi

### Performance

Speed / Fuel Consumption:	Maximum speed 13.5 knots free running at 100% MCR - approximate fuel consumption 19 m3 per day Economical speed 10 knots - approximate fuel consumption 10.5 m3 per day Idle at sea - approximate fuel consumption 2.3 m3 per day Idle in port - approximate fuel consumption 0.8 m3 per day
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### Dynamic Positioning

Type:	Joystick, suitable for upgrading to DP 1
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### External Fire Fighting

Capacity:	2 x 1200 m3/hr = 2400 m3/hr
Monitors:	2 x 1200 m3/hr mounted on wheelhouse top, remotely controlled from wheelhouse
Throw Length:	120 m
Throw Height:	50 m at 70 m distance

### Standby Rescue Equipment

1. FRC - 6-man self-righting water jet with 144 hp inboard diesel engine, 25 kn with 3 persons, single point, quick launching arrangement and offload release arrangement. Range 100 n.miles or 4 hours
2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes

### Anti-Pollution

Dispersant Tank:	9.190 m3
Spray Booms:	4 x spray nozzles (2 at each side), outreach: 12 m

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### 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

### 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 Omnipure 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. Hose connections:
  - Fuel - 4 inches (Camlock)
  - Potable Water - 4 inches (Camlock)
  - Drill Water - 4 inches (Camlock)
  - Liquid Mud - 5 inches (Camlock)
  - Dry Bulk - 4 inches (Camlock)
4. Fitted with 3 halogen searchlights (1 fwd, 2 aft), each 2000 W, on wheelhouse top and electrically operated from inside wheelhouse, 8 x 1000 W floodlights for cargo deck
5. Deck power supplies - 4 x 250 A, 440 V, 3 phase; 1 x 63 A, 440 V, 3 phase; 1 x 32 A, 220 V, single phase
6. Wood sheathed main deck for aft area, which is steel plated for anchor handling. Supplied with anchor grapnel
7. Welding / cutting equipment and lathe in workshop
8. Fresh water ultra violet steriliser
9. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room / emergency generator room. Independent CO2 system for Galley.
10. Fire detection system fitted to the accommodation, engine room and throughout the vessel

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11. Statutory liferafts, life-jackets, pyrotechnics
12. Removable crash rail sections on main deck (PS & SB) to facilitate R.O.V. operation