SWIRE PACIFIC OFFSHORE



M/V Pacific Phoenix

- ▶ Bollard Pull 62-68 tonnes
- ▶ Brake Horsepower 4,825 5,149 BHP
- ▶ Clear Deck Space 324-330 m2
- ▶ Winch Line Pull 150 tonnes





Bollard Pull 62-68 tonnes Brake Horsepower 4,825 - 5,149 BHP

Clear Deck Space 324-330 m2 Winch Line Pull 150 tonnes

General Information

Built: Qingdao Qianjin Shipyard, June 2011, China

Flag: Singapore Call Sign: 9V7612 IMO No.: 9503419

Classification: ABS Class +A1, Towing Vessel, +AMS, E + OSV

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 GRT: 1329 Tonnes NRT: 484 Tonnes

Capacities

Deadweight (maximum): 1550 tonnes

Clear Deck Area: $30m \times 11m = 330 \text{ m2}$ Deck Strength: General deck - 5 t/m2

Aft AH deck - 19 mm steel plate

Deck Cargo: 500 tonnes

Fuel: 566.286 m3 (dedicated)

Potable Water: 396.73 m3 Ballast Water: 371.866 m3

Brine / DMA / Glycol / Liquid

Mud: 147.264 m3 or 5200 ft3 (2 tanks dual-use Brine/Mud/DMA)

Liquid Mud: 184.432 m3 or 6513 ft3 (4 dedicated tanks)

331.696 m3 or 11713 ft3 (including 2 dual-use tanks)

Dry Bulk: 135 m3 or 4750 ft3 in 2 x 2 tank independent systems.

Cement density max 2.35 t/m3 and fineness 4,000 Blaine.

Machinery

Main Engines: 2 x 2500 BHP (1865 kW) = 5000 BHP Yanmar 6EY26

Propulsion: 2 x CPP propellers in Kort nozzles 2 x Electric-hydraulic steering gear

Bow Thrusters: 1x 670 BHP (500 kW) producing 7.9 tonnes (77.5 kN) thrust Stern Thrusters: 1 x 670 BHP (500 kW) 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





Bollard Pull 62-68 tonnes Brake Horsepower 4,825 - 5,149 BHP

Clear Deck Space 324-330 m2 Winch Line Pull 150 tonnes

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: 5 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
AIS: Furuno FA 150

Discharge Pumps

Fuel Oil: 1 x 100 m3/hr - 7.0 bar





Bollard Pull 62-68 tonnes Brake Horsepower 4,825 - 5,149 BHP Clear Deck Space 324-330 m2 Winch Line Pull 150 tonnes

 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

Dynamic Positioning

Type: Joystick, suitable for upgrading to DP 1

External Fire Fighting

Capacity: $2 \times 1200 \text{ m}3/\text{hr} = 2400 \text{ m}3/\text{hr}$

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

- 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

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
- 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





Bollard Pull 62-68 tonnes Clear Deck Space 324-330 m2

Brake Horsepower Winch Line Pull

4,825 - 5,149 BHP 150 tonnes

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

Anti-Pollution

Dispersant Tank: 9.190 m3

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

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)

- 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.
- Fire detection system fitted to the accommodation, engine room and throughout the vessel
- 11. Statutory liferafts, life-jackets, pyrotechnics
- 12. Removable crash rail sections on main deck (PS & SB) to facilitate R.O.V. operation





Head Office

Swire Pacific Offshore Operations (Pte) Ltd

300 Beach Road, #15-01 The Concourse, Singapore 199555 Tel: (65) 6309 3600 Email: info@swire.com.sg

Offshore Support

Swire Pacific Offshore Operations (Pte) Ltd

300 Beach Road #15-01 The Concourse Singapore 199555 Tel: (65) 6309 3600 Fax: (65) 6396 6484

Email: info@swire.com.sg

Swire Pacific Offshore Pty Ltd

2nd Floor Queensgate Centre Cnr Newman & William Street Fremantle, Western Australia 6160

Tel: (61) 8 9430 5434 Fax: (61) 8 9430 7849

Email: spopty@spopty.com.au

Swire Pacific Offshore NZ Ltd

c/o Shell Todd Oil Services Ltd

Cnr Paritutu Road & Port View Crescent, New

Plymouth New Zealand Tel: (64) 6 751 3200

Fax: (64) 6 751 0137

Email: sponze@swire.co.nz

Swire Bahagia (B) Sdn Bhd

Lot 4272 Spg 381-4 W8

Jalan Maulana, Kuala Belait KA2931

Negara Brunei Darussalam Tel: (673) 3342901 / 3342782

Fax: (673) 3334898 Email: spobru@brunet.bn

Wira Swire Sdn Bhd

2nd Floor Bangunan TH No 5 Jalan Bersatu 13/4 46200 Petaling Jaya (PO Box 1094, 46870 Petaling Jaya)

Selangor, Malaysia

Tel: (6) 03 7956 4722 Fax: (6) 03 7956 0511 Email: w_swire@tm.net.my

Swire Pacific Offshore (Dubai) LLC

3rd Floor, Office Block "B" Mazaya Centre Sheikh Zayed Road (After 1st Interchange) P O Box 8127

Dubai.

United Arab Emirates Tel: (971) 4 321 2022 Fax: (971) 4 321 2803 Email: info@swire.ae

Swire Pacific Offshore (Caspian) LLC

38A Natiq Alivev street, AZ1025

Baku, Azerbaijan

Tel: (994) 12 4641021/22 Fax: (994) 12 4641258

Email: info.caspian@swire.com.sg

Swire Pacific Offshore (Dubai) LLC c/o Darwish Marine

Darwish House

3rd Floor Doha Airport West,

Building No. 87604 Area 48 (Beside Sharif Tower),

Doha, Qatar Postal Address: c/o Darwish Marine P.O. Box 889, Doha, Qatar

Tel: (974) 4462 6796 Fax: (974) 4462 0656

Email: spoqatar@qatar.net.qa

Swire Pacific Offshore Operations (Pte) Ltd

India Branch Office. 105, Mahinder Chambers,

1st Floor, Waman Tukaram Patil Marg,

Opp. Pepsi Factory, Chembur, Mumbai 400 071

India

Tel: (91) 22 6758 2700 Fax: (91) 22 6758 2704

Email: info.india@swire.com.sg

Swire Pacific Offshore Africa S.A.

SDV Oilfield Base. Naval Base Road. P.O. Box 15508. Douala, Cameroon Tel: (237) 3342 2433

Fax: (237) 3342 2822

Email: info.waf@swire.com.sg





Swire Pacific Offshore Operations (Pte) Ltd

House 16C, Coco Palms Villas Annex, 4th Circular Road, Cantonments,

Accra, Ghana

Tel: (233) 302 730 338 Fax: (233) 302 730 338

Email: info.ghana@swire.com.sg

Swire Servicos Marítimos Lda

Monumental Building, n 290 2nd Floor, Street Major Kanhangulo Ingombota, Luanda Angola

Tel: (244) 222 392 510

Email: info.angola@swire.com.sg

Swire Pacific Offshore Operations (Pte) Ltd

Nairobi Business Park, Unit B Off Ngong Road, PO Box 10222 Nairobi 00400

Kenya

Tel: (254) 700 934 121

Email: info.kenya@swire.com.sg

Swire Pacific Offshore (North Sea) Ltd

Salvesen Tower, Suites 8 & 9, Level 4, Blaikies Quay, Aberdeen AB11 5PW, Scotland, United Kingdom

Tel: (44) 1224 576 930 Fax: (44) 1224 576 939 Email: info@swireabz.com

Swire Pacific Offshore Canada Limited

Office: 130 Southside Road, St. John's, NL, A1E 0A2

Canada

Mail: P.O.Box 5131, Station C St. John's, NL, A1C 5V3

Canada

Tel: 1 (709) 730 3370

Email: info.canada@swire.com.sg

Swire Pacific Navegação Offshore Ltda

Rua Lauro Muller 116 Sala 3401 Botafogo Rio de Janeiro RJ 22290-160

Brazil

Tel: (55) 21 97185 8237

Email: info.brazil@swire.com.sg

Swire Pacific Offshore (Malabo Operations Office)

Carretera Aeropuerto

Abayak 2

Malabo, Equatorial Guinea Tel: (240) 222 530 749 (mobile)

Email: portcaptain.malabo@swire.com.sg

Seismic Survey Support

Swire Pacific Offshore Operations (Pte) Ltd - Survey Services Division

300 Beach Road #15-01 The Concourse Singapore 199555 Tel: (65) 6496 8280 Fax: (65) 6496 8270

Email: survey.services@swire.com.sg

Marine Salvage

Swire Salvage Pte Ltd

300 Beach Road, #15-01 The Concourse Singapore 199555

Tel: (65) 6309 3600 / 24-Hour Hotline: (65) 6309

3699

Fax: (65) 6294 3211

Email: salvage@swire.com.sg

Oil Spill Preparedness & Response

Swire Emergency Response Services (Pte) Limited

3rd Floor, Office Block "B", Mazaya Centre

Sheikh Zayed Road

Dubai

Postal Address:

P.O. Box 8127, Dubai, United Arab Emirates

24-Hour Hotline: (971) 50 6564 900

Tel: (971) 4 321 2022 Fax: (971) 4 321 2910 Email: info@swire-ers.com www.swire-ers.com





Offshore Windfarm Installation & Decommissioning

Swire Blue Ocean A/S

Winghouse Orestads Boulevard 73, 9th Floor DK-2300, Copenhagen S, Denmark

Tel: (45) 32 463100

Email: info@swireblueocean.com www.swireblueocean.com

Integrated Logistics Solutions

Altus Logistics Pte Ltd

Loyang Offshore Supply Base

Block 107, TOPS Avenue 1, Singapore 508988

Mail: 25 Loyang Crescent, Mailbox 5120, Singapore

508988

Tel: (65) 6422 2500 Fax: (65) 6323 2656

Email: info.sg@altuslogistics.com

www.altuslogistics.com

Subsea / ROV Support

Swire Seabed A/S

Nedre Aastveit 12 NO-5106 Øvre Ervik Norwav

Tel: +47 5518 1830

Email: post@swireseabed.com

www.swireseabed.com

Joint Ventures

Offshore Solutions

PO Box 846 New Plymouth New Zealand

Tel: (64) 6 751 3200 Fax: (64) 6 751 0137

Email: info@offshoresolutions.co.nz

www.offshoresolutions.co.nz

SCF Swire Offshore Pte Ltd (Russian Branch Office)

Office 404, Stolitsa Business Centre 259-B Komsomolskaya Street Yuzhno Sakhalinsk 693023 Russian Federation

Tel: (7) 4242 499 130 Fax: (7) 4242 499 131

Email: info@scfswire.com.sg

Manning Establishment

Swire Pacific Ship Management Ltd (Singapore Branch)

300 Beach Road #15-01 The Concourse Singapore 199555 Tel: (65) 6309 3600

Email: recruitment@swire.com.sg

Anscor Swire Ship Management Corporation

G/F, Two-Ecom Center (Tower B) Harbor Drive corner Bayshore Avenue Mall of Asia Complex. Pasay City 1300

Metro-Manila, Philippines

Tel: (63)2 8472033, (63)2 8472055 Email: info@anscorswire.com

Swire Pacific Ship Management (Australia) Pty Ltd

2nd Floor Queensgate Centre Cnr Newman & William Street Fremantle, Western Australia 6160 Australia

Australia

Tel: (61) 8 9430 5437 Fax: (61) 8 9430 7849

Email: spopty@spopty.com.au

Training Centre

Swire Marine Training Centre (SMTC)

1 Loyang Way 4 Singapore 507028 Tel: (65) 6309 3750 Fax: (65) 6309 3760

Email: training@swire.com.sg