

# PW RELIANCE

## 41.8M 3600 BHP ANCHOR HANDLING TUG



### PRINCIPAL PARTICULARS

Year Built	2009
Flag	Singapore
Call Sign	9V7525
Builders	Jiangsu Wuxi Shipyard Co., Ltd
Official No	394396
Classification	ABS+A1 Circle E+AMS

### DIMENSIONS

Length Overall	41.8 m
Length BP	37.4 m
Beam Moulded	10.0 m
Depth Moulded	4.6 m
Design Draft	3.2 m
Working Deck Area	100 m <sup>2</sup>
Gross Tonnage	573 tonnes
Net Tonnage	172 tonnes

### PERFORMANCE DATA

Max Speed	12 knots
Bollard Pull	approx 47 tonnes

### TANK CAPACITIES

Fuel Oil	270 m <sup>3</sup>
Fresh Water	77 m <sup>3</sup>
Lube Oil	7 m <sup>3</sup>

### MACHINERY & EQUIPMENT

Main Engines & Gearboxes	2 x Yanmar 8N21A-EN water cooled, diesels engines, rated 1800 ps (1324Kw) @ 900 rpm
Steering Gears	Electro-hydraulic, remote controlled from wheelhouse
Propellers	4 bladed KA-4 in fixed Kort nozzles
Bow Thruster	1 electric motor driven, min 3.6 tonnes
Generators:	3 x Volvo Penta engines ampere abt 200kW, Stamford alternator @ 1500rpm
Anchors	2 x 675kg HHP anchors
Chain Cables	357.5m long 24mm dia, Grade U3 steel, stud link chain

### MACHINERY & EQUIPMENT (cont'd)

Anchor windlass	1 electro hydraulic anchor windlass/winch of 2.3tonnes pull at 10m/min suitable for 24mm dia chain
Tow ing Winch	1 unit electro hydraulic towing winch 150 tonnes brake holding, 100 tonnes pull at 6m/min at 1 <sup>st</sup> layer on main deck. 750m x 48mm on tow ing drum and on anchor handling drum wire IWRC. 1 pipe cage built at winch
Stern Roller	4m length x 1.8m dia
Capstan	1 unit variable speed hydraulic capstan with under slung motor, pull 3 tonnes at 10m/min on aft main deck, port
Tugger Winch	1 unit electro-hydraulic tugger winch 5 tonnes pull towards forward end of main deck, on starboard side, powered by anchor handling/tow winch power pack with local controls
Tow Pins & Sharkjaws	200T SWL
Deck Crane	1 unit electro-hydraulic knuckle boom crane 4 tonnes SWL, about 6m outreach fitted on starboard side
Rescue Workboat	1 x 6 men semi-rigid dinghy c/w 25hp-outboard motor
Reefer Points	4 x AC 415 V, 3 Phase, 50Hz, 32 Amp
Fresh Water Maker	3 tons per day
Oily Water Separator	0.5 m <sup>3</sup> /hr pump and 15ppm alarm installed in bilge system
External Fire Fighting System	1fire pumps driven from independent diesel engine @ 1500m <sup>3</sup> /hr, 2 x Foam/H <sub>2</sub> O fire monitor with remote control
Oil Dispersant System	2dispersant spray boom5m length with 5 nozzles @ 125 litre/min 5kg/cm <sup>2</sup> from each nozzle

### EXTERNAL FIRE FIGHTING & OIL SPILL EQUIPMENT

### CABIN ARRANGEMENT

Complement - 18 men