



**Anchor Handling Tug Supply Vessels - Pacific Patriot**

The P Class vessels offer excellent value to clients because of the fuel efficient design. As with the majority of the fleet, these vessels are equipped with a high specification 150-tonne line pull anchor handling and towing winch system. These lower horsepower offshore vessels offer the versatility to carry out a wide range of tasks, from supporting tanker offtakes, ROV spreads to FPSO positioning and construction support.

The P Class vessels are:

Pacific Panda	Pacific Patriot	Pacific Phoenix
Pacific Papillon	Pacific Peacock	Pacific Porpoise
Pacific Parakeet	Pacific Pelican	Pacific Python
Pacific Parrot	Pacific Petrel	

### Top Features

1. High specification winch and line pull.
2. Ideal for field support and towing operations.
3. Full DYNPOS AUT classification.

### Key Specifications

- Bollard Pull - 61.86 t
- Free Deck Area - 324.5 m<sup>2</sup>
- Brake Horsepower - 4826 bHP
- Winch Line Pull - 150 t



General Information	
Vessel Name	Pacific Patriot
Built	Labroy Shipbuilding & Engineering Pte Ltd, August 2004
Flag	Singapore
Call Sign	9VCT8
IMO No.	9314480
Classification	
Class Notation	DNV-GL +1A1 Fire fighter(I) Tug DYNPOS(AUT) SF
Dimensions	
Length (LOA)	56.0 m
Beam	13.5 m
Summer Draft	5.14 m
Deadweight @ SummerDraft	1356 t
GT	1215
Deck Capacities	
Deck Load Capacity	510 t
Deck Strength	5 t/m <sup>2</sup> - General Deck
Free Deck Area	324.5 m <sup>2</sup>
Length x Width	29.5 x 11 m
Tank Capacities	
NLS	See brine/mud
Brine / Mud	107 m <sup>3</sup> Brine (Multi usage tanks) 215 m <sup>3</sup> Mud (Multi usage tanks)
Drill / Ballast Water	453 m <sup>3</sup> (multi usage tanks, 131 m <sup>3</sup> dedicated)
Dry Bulk	122 m <sup>3</sup> (In 4 dedicated tanks)
Fresh Water	415 m <sup>3</sup>
Fuel Dedicated	528 m <sup>3</sup>
Fuel Total	850 m <sup>3</sup>

Tank Capacities Details	Refer to Tank Capacities Table
Drilling Brine	See brine/mud
Propulsion / Bollard Pull	
Main Engines	2 x Bergen C25:33L6P diesel engines each 1800 kW = 3600 kW (4826 bHP), Twin CPP propellers in KORT nozzles with Hi-lift flap rudders
Thrusters	1 x Bow tunnel 500 kW / 670 bHP 1 x Stern tunnel 500 kW / 670 bHP
Bollard Pull	61.86 t @ 100% MCR
Deck Equipment	
Anchor Handling Winch	1 x AH winch 150 t 1st layer @ 0-7.2 m/min Wire capacity 1200 m of 64 mm dia.
Towing Pins	2 x Karmoy 160 t SWL
Shark Jaws	1 x Karmoy 300 t SWL
Stern Roller	RRM 2.0 m x 4.0 m @ 250 t SWL
Capstans	2 x capstans with 1 x fixed wrapping 410 mm x 575 mm @ 6 t at 0-35 m/min
Tugger Winches	1 x 10 t pull at approx. 0-18m/min, 250 m of 18 mm wire
Provision Crane	Electric Hydraulic, telescopic Boom SWL 3.5 t Maximum boom out reach 7 m (0 Degrees) minimum out reach 1.9 m
Chain Gypsies	1 x 76 mm mounted on work drum
Performance & Economy	
Economical Speed	Approx. 10.5 m <sup>3</sup> /Day @ 10 knots
DP<20%	Approx. 4 m <sup>3</sup> /Day

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Rev 5.0 02/01/2020

DP>35%	Approx. 6.5 m <sup>3</sup> /Day
Standby in Field	Approx. 4 m <sup>3</sup> /Day
Standby in Port	Approx. 1 m <sup>3</sup> /Day
Note	Performance & Economy figures are given at mean vessel draft of 4.5 m (925 t deadweight) & Beaufort Scale 2
<b>Dynamic Positioning System</b>	
Type	GE DPS-11 Simplex DP System
Reference Systems	1 x Fanbeam 1 x Veripos DGPS
Motion Reference Units	1 x VRU 2 x Anemometers 2 x Gyros Compasses
<b>Rescue Boat</b>	
1. 1 x Maritime Partner Weedo 17, 6 person, SOLAS approved Rescue boat with 2 x petrol outboards	
<b>Accommodation</b>	
Person Capacity	Total 22 4 x 1man cabin 5 x 2man cabins (Including hospital) 2 x 4man cabins

**Tank Capacities Table**

<b>P Class (UT Design) Tank Capacities @ 100%</b>						
<b>Tank</b>	<b>Volume</b>	<b>WB/DW</b>	<b>FW</b>	<b>FO</b>	<b>Brine</b>	<b>Mud</b>
1 Forepeak	42.5		42.5			
2 DB/Wing Tk 1S	72.6		72.6			
3 DB/Wing Tk 1P	72.1		72.1			
4 DB/Wing Tk 2S	25.4	25.4				
5 DB/Wing Tk 2P	27.6	27.6				
6 DB/Wing Tk 3S	37.3			37.3		
7 DB/Wing Tk 3P	36.8			36.8		
8 DB/Wing Tk 4S	32.9			32.9		
9 DB/Wing Tk 4P	28.9			28.9		
10 DB/Wing Tk 5S	69.8			69.8		
11 DB/Wing Tk 5P	69.8			69.8		
12 DB/Wing Tk 6S	59.7			59.7		
13 DB/Wing Tk 6P	59.7			59.7		
14 DB/Wing Tk 7S	47.2			47.2		
15 DB/Wing Tk 7P	47.2			47.2		
16 DB/Wing Tk 8S	31.9		31.9			
17 DB/Wing Tk 8P	31.9		31.9			
18 DB/Wing Tk 9S	82		82			
19 DB/Wing Tk 9P	82		82			
20 Aft Peak S	39	39				
21 Aft Peak P	39	39				
22 Tk 1S	53.7	53.7		53.7	53.7	
23 Tk 1P	53.7	53.7		53.7	53.7	
24 Tk 2S	53.7	53.7		53.7		53.7
25 Tk 2P	53.7	53.7		53.7		53.7
26 Tk 3S	53.7	53.7		53.7		53.7
27 Tk 3P	53.7	53.7		53.7		53.7
29 FO Settling Tk	12.5			12.5		
30 FO Service Tk S	12.8			12.8		
31 FO Service Tk P	13.2			13.2		
<b>Dedicated Tanks:</b>	<b>@ 100%</b>	<b>131</b>	<b>415</b>	<b>527.8</b>		
<b>With Multiuse Tanks:</b>	<b>@ 100%</b>	<b>453.2</b>		<b>850</b>	<b>107.4</b>	<b>214.8</b>
		<b>WB/DW</b>	<b>FW</b>	<b>FO</b>	<b>Brine</b>	<b>Mud</b>
<b>Bulk Capacity of 122.4 m<sup>3</sup> in four dedicated tanks</b>						

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