

Platform Supply Vessels - Pacific Aurora

The A Class vessels have a large back deck that can be loaded with up to 1,600-tonne of deck cargo. Below deck, there are over 300 m³ of bulk cargo capacity and additional tanks for fuel, water, brine and liquid mud. These vessels have been designed with a moonpool, ensuring versatility for future roles in ROV support, well testing or production support activities.

The A Class vessels are:

- Pacific Askari
- Pacific Assegai
- Pacific Aurora
- Pacific Avenger

Top Features

1. Large liquid & dry bulk capacity.
2. Excellent station keeping.
3. Fuel efficient during all operations.
4. Comfortable accommodation for crew / passengers.

Key Specifications

- Free Deck Area - 680 m²
- Brake Horsepower - 6220 bHP
- Deadweight - 3243 t
- Deck Load Capacity - 1600 t



General Information	
Vessel Name	Pacific Aurora
Built	Pan United Shipyard (Singapore), September 2008
Flag	Singapore
Call Sign	9VGX4
IMO No.	9386287
Classification	
Class Notation	DNV-GL +1A1 Fire fighter(I) DYNPOS(AUTR) E0 SF
Dimensions	
Length (LOA)	73.4 m
Beam	16.0 m
Summer Draft	5.89 m
Deadweight @ SummerDraft	3243 t
GT	2213
Deck Capacities	
Deck Load Capacity	1600 t
Deck Strength	5 t/m ²
Free Deck Area	680 m ²
Length x Width	50.3 x 13.5 m
Tank Capacities	
Base Oil	200 m ³ (Multi usage tanks)
Brine / Mud	Brine = 345 m ³ (Multi usage Tanks) Mud = 913 m ³ (Multi usage tanks)
Drill / Ballast Water	378 m ³ (Dedicated tanks) 862 m ³ (Multi usage tanks)
Dry Bulk	306 m ³ in five dedicated tanks
Fresh Water	743 m ³ (Dedicated tanks), 883 m ³ (Multi usage tanks)
Fuel Dedicated	1181 m ³
Fuel Total	2094 m ³ (Multi usage tanks)

Tank Capacities Details	Refer to Tank Capacities Table
Ship Fuel Dedicated	1181 m ³
Ship Fuel Total	2094 m ³ (Multi usage tanks)
Ballast Water	378 m ³ (Dedicated tanks) 862 m ³ (Multi usage tanks)
Drill Water	378 m ³ (Dedicated tanks) 862 m ³ (Multi usage tanks)
Propulsion	
Main Generator	2 x Bergen diesel engines each 2320 kW = 4640 kW (6220 bHP)
Thruster	2 x bow tunnel 600 kW / 804 bHP 2 x stern tunnel 600 kW / 804 bHP
Deck Equipment	
Capstans	2 x 10 t pull at approx. 0-19 m/min, Light line @ 0-24 m/min
Tugger Winches FWD	2 x Duty drum nominal pull 10 t @ 0-19 m/min
Provision Crane	SWL 2 t at 2.1 m - 10 m
Performance & Economy	
Economical Speed	Approx. 11 m ³ /day @ 10 knots
DP<20%	Approx. 8 m ³ /day
DP>35%	Approx. 9 m ³ /day
Standby in Field	Approx. 7 m ³ /day
Standby in Port	Approx. 1.2 m ³ /day
Note	Performance & Economy figures are given at mean vessel draft of 5.0 m (2300 t deadweight) & Beaufort Scale 2
Dynamic Positioning System	
Type	Alstom A series Duplex DP System

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Reference Systems	1 x Cyscan 2 x Veripos DGPS 1 x USBL portable Hydro reference system
Motion Reference Units	2 x VRU 2 x Ultrasonic Anemometers 3 x Gyros Compasses
Rescue Boat	
1. 1 x Maritime partner Seabear 23 MKII, 10 person, SOLAS approved FRB with inboard diesel waterjet	
Accommodation	
Person Capacity	Total = 32 6 x 1man cabins 7 x 2man cabins 3 x 4man cabins (including hospital)

Tank Capacities Table

A Class Tank Capacities @ 100%							
Tank	Volume	WB/DW	FW	FO	Mud	Brine	Base Oil
1 Forepeak	32.7	32.7					
2 DB/Wing Tk 1S	120.5		120.5				
3 DB/Wing Tk 1P	107.7		107.7				
4 DB/Wing Tk 2S	64.1	64.1					
5 DB/Wing Tk 2P	47.5	47.5					
6 DB/Wing Tk 3S	134.8			134.8			
7 DB/Wing Tk 3P	153.4			153.4			
8 DB/Wing Tk 4S	144.7			144.7			
9 DB/Wing Tk 4P	144.6			144.6			
10 DB/Wing Tk 5S	101.9			101.9			101.9 ((0))
11 DB/Wing Tk 5P	101.9			101.9			101.9 ((0))
12 DB/Wing Tk 6S	143.5			143.5			
13 DB/Wing Tk 6P	143.5			143.5			
14 Wing Tk 7S	74.5		74.5				
15 Wing Tk 7P	74.4		74.4				
16 Wing Tk 8S	172.7		172.7				
17 Wing Tk 8P	172.7		172.7				
18 DB Tk 7	20.4		20.4				
19 Mud Tk 1S	87.7	87.7		87.7	87.7	87.7	
20 Mud Tk 1P	87.7 (0)	87.7 (0)		87.7 (0)	87.7 (0)	87.7 (0)	
21 Mud Tk 2S	84.6	84.6		84.6	84.6	84.6	
22 Mud Tk 2P	84.6	84.6		84.6	84.6	84.6	
23 Mud Tk 3S	84.6			84.6	84.6		
24 Mud Tk 3P	84.6			84.6	84.6		
25 Mud Tk 4S	99.8			99.8	99.8		
26 Mud Tk 4P	99.8			99.8	99.8		
27 Mud Tk 5S	99.8			99.8	99.8		((99.8))
28 Mud Tk 5P	99.8			99.8	99.8		((99.8))
29 Stability Tk 1	139.7	139.7	139.7				
30 FO Service Tk S	39.1			39.1			
31 FO Service Tk P	39.1			39.1			
51 Top Wing Tk 7S	50.9	50.9					
52 Top Wing Tk 7P	50.9	50.9					
53 FO Settling Tk	34.2			34.2			
54 Aft Peak Tk S	65.8	65.8					
55 Aft Peak Tk P	65.8	65.8					
Dedicated Tanks:	@ 100%	377.7	742.9	976.9 ((1180.7))			
With Multiuse Tanks:	@ 100%	862 (774.3)	882.6	2093.7 (2006)	913 (825.3)	344.6 (256.9)	203.8 ((199.6))
		WB/DW	FW	FO	Mud	Brine	Base Oil
Bulk Capacity of 306.3 m ³ in five dedicated tanks							
Pacific Askari Bulk Capacity of 259.2 m ³ in four dedicated tanks							
() = Pacific Askari Variations, (()) = Pacific Aurora & Pacific Avenger Variations							