



Anchor Handling Tug Supply Vessels - Pacific Discovery

Built to Clean Class Design, Dynamic Positioning (DP AUTR), SPS 2008, Ice C notation and equipped with a 500/400-tonne anchor handling, towing and secondary RRM Brattvaag winches, Anchor Recovery Frame (ARF), Safe Working Deck AH Cranes and enhanced station-keeping with an independent drop-down Azimuth Thruster, the D Class vessels are powered to safely support the latest generation semi-submersible rigs operating in harsh deep water environments. These vessels have sufficient cargo capacity and clear deck space for a wide range of offshore applications including but not limited to ROV mezzanine installations for ROV work, and oversize offshore equipment. The large chain carrying capabilities and winch configuration allows for a range of wire configurations to complement their ability to conduct complex composite mooring system installations that may be found on subsea mooring and pre-lay systems in the offshore sector.

The D Class vessels are:

Pacific Defiance	Pacific Dolphin
Pacific Diligence	Pacific Dove
Pacific Discovery	Pacific Dragon
Pacific Dispatch	Pacific Duchess

Top Features

1. Ready for installation of ROV in dedicated hangar
2. 300-tonne anchor recovery frame for torpedo anchors
3. Low fuel consumption on field standby
4. High speed & capacity winch system

Key Specifications

- Bollard Pull - 235.58 t
- Free Deck Area - 648 m²
- Brake Horsepower - 17614 bHP
- Winch Line Pull - 500 t



General Information	
Vessel Name	Pacific Discovery
Built	PaxOcean, Singapore, March 2014
Flag	Singapore
Call Sign	9VFL8
IMO No.	9456202
Classification	
Class Notation	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing) Clean DYNPOS(AUTR) E0 Ice(C) SPS
Dimensions	
Length (LOA)	92.0 m
Beam	22.0 m
Summer Draft	7.5 m
Deadweight @ SummerDraft	4448.92 t
GT	6641
Deck Capacities	
Deck Load Capacity	1500 t
Deck Strength	10 t/m ²
Free Deck Area	648 m ²
Length x Width	36 x 18 m
Tank Capacities	
Base Oil	454 m ³
Brine / Mud	860 m ³ (reflects 90% filling level of the tanks)
Drill / Ballast Water	2965 m ³
Dry Bulk	236 m ³ (8334 cubic feet) (in 4 tanks)
Fresh Water	1355 m ³
Fuel Dedicated	1172 m ³

Fuel Total	1940 m ³ (including combination BO, Mud tanks)
Tank Capacities Details	Refer to Tank Capacities Table
Propulsion / Bollard Pull	
Main Engines	4 x MAN 9L-27/38 each 3285 kW = 13140 kW (17614 bHP) 2 x MAN CPP propellers in KORT nozzles, with Hi-lift flap rudders
Thrusters	2 x bow tunnel 883 kW / 1184 bHP 2 x stern tunnel 883 kW / 1184 bHP 1 x azimuth 883 kW / 1184 bHP
Bollard Pull	235.58 t at 100% MCR 246 t with independent driven azimuth thruster
Deck Equipment	
AH / Towing Winch	2 x 400 t RRM Brattvaag waterfall type - 20 m/min 1st layer Wire capacity of: 1 x 3200 m 76 mm dia 1 x 4100 m 76 mm dia
Special Handling Winch	1 x 500 t RRM Brattvaag waterfall type - 15 m/min 1st layer Capacity of: 1 x 13600 m 76 mm dia wire or 1 x 1900 m 203 mm (8") dia rope
Secondary Winch	2 x 170 t RRM Brattvaag - 24 m/min 1st layer Rope capacity of: 2 x 2500 m 160 mm (6") dia rope or 2 x 1600 m 203 mm (8") dia rope
Chain Lockers	4 x 156 m ³ Chain capacity of: 4 x 2000 m 76 mm chain or 4 x 1600 m 84 mm chain

All the information in this document are provided in good faith without any guarantee. No warranty is made, and no liability is assumed, in respect of the accuracy or completeness of any information in this document, which may be subject to change without prior notice. Please contact Swire Pacific Offshore Operations Pte Ltd to verify the information in this document prior to using or relying on any of the information in this document.

Rev 8.0 27/11/2019

Anchor Recovery Frame	1 x RRM 200 t Max Wire Tension
Towing Pins	4 x RRM 400 t MWL
Shark Jaws	2 x RRM 800 t SWL
Centering Device	2 x RRM 45 t SWL
Stop Pins	2 x Karmoy 100 t SWL
Stern Roller	2 x RRM 3.0 x 4.5 m @ 750 t MWL @ 90 deg wire angle
Capstans	2 x RRM 15 t
Tugger Winches	2 x RRM 24 t fwd main deck + 1 x 17 t fwd main deck center
Tugger Winches FWD	Capacity of 600 m of 26 mm wire each for the 24 t; Locally, remote, portable-wireless control. Capacity of 200 m of 25 mm wire for the 17 t; Locally, remote, portable-wireless control.
AH Crane	2 x RRM 5 t @ 10 m with tool for AH operations
Provision Crane	1 x knuckle type, capacity 5 t @ 15 m radius. Winch hook travel of up to 1000 m
Chain Gypsies	2 x 76 mm + 2 x 84 mm
Performance & Economy	
Economical Speed	24 m ³ /day @ 10 kts 32 m ³ /day @ 13 kts
DP<20%	13.9 m ³ /day on 2 Mes
DP>35%	27.5 m ³ /day on 4 Mes
Standby in Field	4.6-6.9 m ³ /day @ 1-4 kts
Standby in Port	1.8 m ³ /day
Note	Performance & Economy figures are given at mean vessel draft of 6.5 m (2800 t deadweight) & Beaufort Scale 2.
Dynamic Positioning System	
Type	GE C-Series DPS-21 Duplex DP
Reference Systems	2 x Sonardyne HPR prepared 2 x Veripos DGPS 2 x CyScan Guidance
Motion Reference Units	3 x Gyro Tokimec TG8000 3 x Wind Sensor Gill Wind Observer Ultrasonic 3 x VRU, 2 x TTS DMS-10 / 1 x SMC IMU 107
Rescue Boat	
1. 1 x Maritime Partner MP660 Springer, 10 person, SOLAS approved FRB with inboard diesel waterjet.	
Accommodation	
Person Capacity	Total 37 29 in 1man cabin & 8 in 2man cabins

Tank Capacities Table

D Class Tank Capacities @ 100%								
Tank	Volume	WB/DW	FW	FO	Brine	Mud	Base Oil	Glycol
1 WB/DW	285.228	285.228						
2 WB/DW	291.642	291.642						
3 WB/DW	291.819	291.819						
4 FO	206.075			206.075				
5 FO	206.075			206.075				
8 FW	169.905		169.905					
9 FW	104.412		104.412					
14 FW	196.033		196.033					
15 FW	203.793		203.793					
17 WB/DW	154.786	154.786						
18 WB/DW	154.975	154.975						
20 WB/DW	210.968	210.968						
21 WB/DW	210.968	210.968						
22 WB/DW	62.765	62.765						
23 FW	183.262		183.262					
24 FW	183.262		183.262					
29 FW	59.175		59.175					
30 FW	59.175		59.175					
33 FO	133.275			133.275				
34 FO	133.275			133.275				
35 WB/DW	96.707	96.707						
40 WB/DW	82.451	82.451						
41 WB/DW	82.451	82.451						
57 FO Service	31.752			31.752				
58 FO Service	31.752			31.752				
59 FO Settling	26.074			26.074				
60 FO Settling	26.074			26.074				
61 FO/BO	112.467			112.467			112.467	
62 FO/BO	112.467			112.467			112.467	
63 FO/BO	114.921			114.921			114.921	
64 FO/BO	114.921			114.921			114.921	
66 MUD/BRINE/GLY	83.547				83.547	83.547		83.547
67 MUD/BRINE/GLY	83.547				83.547	83.547		83.547
68 MUD/BRINE/GLY	82.595				82.595	82.595		82.595
69 MUD/BRINE/GLY	82.595				82.595	82.595		82.595
72 RCL/WB/DW	156.33	156.33						
73 RCL/WB/DW	156.33	156.33						
74 MU/BR/GLY/RCL	156.33				156.33	156.33		156.33
75 MU/BR/GLY/RCL	156.33				156.33	156.33		156.33
76 FO/MU/BR/GLY	156.33			156.33	156.33	156.33		156.33
77 FO/MU/BR/GLY	156.33			156.33	156.33	156.33		156.33
81 WB/DW	96.666	96.666						
82 WB/DW	96.666	96.666						
86 FO	98.698			98.698				
87 FO	114.762			114.762				
104 WB/DW	96.707	96.707						
155 FW	98.098		98.098					
156 FW	98.098		98.098					
157 WB/DW	149.743	149.743						
158 WB/DW	149.743	149.743						
159 FO	82.114			82.114				
169 FO	82.114			82.114				
161 WB/DW	69.121	69.121						
162 WB/DW	69.121	69.121						
Dedicated Tanks:	@ 100%	2965.187	1355.213	1172.04				
With Multiuse Tanks:	@ 100%			1939.476	957.604	957.604	454.776	957.604
		WB/DW	FW	FO	Brine	Mud	BO	Glycol
Bulk Capacity of 235.9 m ³ in four dedicated tanks								
NB: RCLs 72, 73, 74 & 75 cannot be used for chain & product at the same time								

All the information in this document are provided in good faith without any guarantee. No warranty is made, and no liability is assumed, in respect of the accuracy or completeness of any information in this document, which may be subject to change without prior notice. Please contact Swire Pacific Offshore Operations Pte Ltd to verify the information in this document prior to using or relying on any of the information in this document.