PACIFIC DUCHESS





HAVYARD 844-XL AHTS

Vessel Characteristics

Length, Overall:	301.8 ft	92 m				
Beam:	72.2 ft	22 m				
Depth:	29.5 ft	9 m				
Maximum Draft:	24.6 ft	7.5 m				
Freeboard:	4.9 ft	1.5 m				
Displacement:	9,950 lt	10,110 mt				
Deadweight:	4,470 lt	4,540 mt				
Clear Deck Space:	118 x 59 ft	36 x 18 m				
Clear Deck Area:	6,980 ft²	650 m²				
Deck Strength AFT:	2,050 lb/ft²	10 t/m²				
Class Notations:	DNV: +1A, Fire fighter(I), Offshore service vessel(Anchor handling, Towing), Clean, DYNPOS(AUTR), E0, Ice(C), SPS					

Capacities

Deck Cargo:	1,480 lt	1,500 t
Fuel Oil:	482,000 gal	1,820 m ³
Potable Water:	51,800 gal	200 m ³
Fresh Water:	306,000 gal	1,160 m ³
Drill/Ballast Water:	783,000 gal	2,970 m ³
Bulk Tanks (4 tanks):	8,340 ft³	240 m ³
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	5,410 bbl	860 m ³
Base Oil:	2,860 bbl	450 m ³
Oil Dispersant:	4,580 gal	17.3 m ³

TIDEWATER

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PACIFIC DUCHESS Further specifications



Machinery

Main Engines (4):		MAN 9L27/38				
Total HP:	17,600					
Propellers (2):			MAN CPP			
Gears (2):		RR	M SV650-FCP			
Kort Nozzles:			2			
Rudders (2):	RRM HIGH LIFT					
Primary Generators (1):	1,360 kw 440 v 60 h					
Driven by:			CAT 3512B			
Secondary Generators (2):	2,800 kw	440 v	60 hz			
Driven by:	MAIN ENGINES					
Emergency Generators (1):	350 kw	440 v	60 hz			
Driven by:			CAT C18			
Bow Thruster (3):		/OLL FU-80-LT(JNVOLL AR-63-	· · ·			
Driven by:	880KW ELECTRIC MOTORS					
Total Thrust:		44.2 st	40.1 mt			
Stern Thruster (2):	BRUNVOLL FU-80-LTC-2000 CP TT					
Driven by:		880KW ELECTRIC MOTORS				
Total Thrust:		29.5 st	26.8 mt			

Performance*

Fuel Consumption Vs Speed								
Maximum:	45 m³/day (500 gph) @ 14 knots							
Cruising:	32 m	³ /day (350 gph) @ 13 knots						
Economical:	24 m	³/day (260 gph) @ 10 knots						
Standby:	1.8 n	n³/day (19.8 gph) @ 0 knots						
Bollard Pull	250 st	230 mt						
Transfer Rates								
Fuel Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m						
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 92 m						
Drill/Ballast Water:	660 gpm @ 300 ft	150 m³/h @ 92 m						
Bulk:	34.7 cfm @ 190 ft	59 m³/h @ 57 m						
Liquid Mud:	330 gpm @ 660 ft	75 m³/h @ 180 m						
Base Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m						

Tow/Anchor Handling

Winch:	Double Drum Winch with Special Handling Drum (500T) (600T Brake)
Model:	RRM Brattvagg
Line Pull:	400 mt
Tow/AH Wire:	3,200 m / 4,100 m of 76 mm
Work Wire:	13,600 m of 76 mm
Secondary Winch (2):	RRM Brattvagg (210T Brake)
Line Pull:	170 mt
Tow Wire:	2,500 m of 160 mm
Pennant Reels (1):	1,500 m of 76 mm
Shark Jaw:	2 X RRM 600 T SWL
Tow Pins:	4 X RRM 400 T MWL
Chain Lockers (4):	8,000 m of 76mm chain
Chain Handler:	2X76 MM + 2X84 MM
Stern Roller:	2 X RRM (3 X 4.5 M); 750 mt SWL
Misc. Tow Equipment:	Stop Pins: 2xRRM 100 t SWL, 1x300 t Smit Towing Bracket; Centering Device: 2xRRM 45 t SWL

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Seeed Indicators:	3
Doppler Log:	1
Radio:	2 × VHF
Sat Com:	VSAT/FBB

Accommodations

No. of Berths:	37
Cabins:	29x1-man & 4x2-man
Certified to Carry:	37
Galley seating:	24
Hospital:	Yes

Deck Equipment

Anchors (2):	4320 KG SPEK TYPE
Anchor Chain:	380 m of 50 mm chain per side
Windlass:	RRM Windlass/Mooring Winch LBFMX22050
Crane (2):	5 t @ 10 m
Aux Crane (1):	5 t @ 15 m
Capstans (2):	15 t RRM
Tugger (2):	24 t RRM
Aux Tugger (1):	17 t RRM (FWD)

*Approximate values assuming Ideal Conditions

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PACIFIC DUCHESS Further specifications



Registration

Flag: SINGAPORE	Hon	ne Port: SINGAPORE				
Hull Number: 632		IMO Nº: 9631424				
Year Built: 2014	Call Sign: 9V9515					
Builder:	Singapore Tech	nnologies Marine Ltd.				
Tonnage (ITC):	6641 GT	1992 NT				

Special Equipment

Fire Fighting:	FIFI-1
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based
Mud Circulation System:	Yes
Rescue Zone:	Yes
Rescue Boat:	Maritime Partner MP660 Springer, 10-Man
SPS Compliant:	Yes
Misc:	ROV Garage (L x W x H: 9 x 5 x 5.5 m); 1x200 MT RRM Anchor Recovery Frame; MSD - 55 Persons; HiPAP Ready

*Approximate values assuming Ideal Conditions

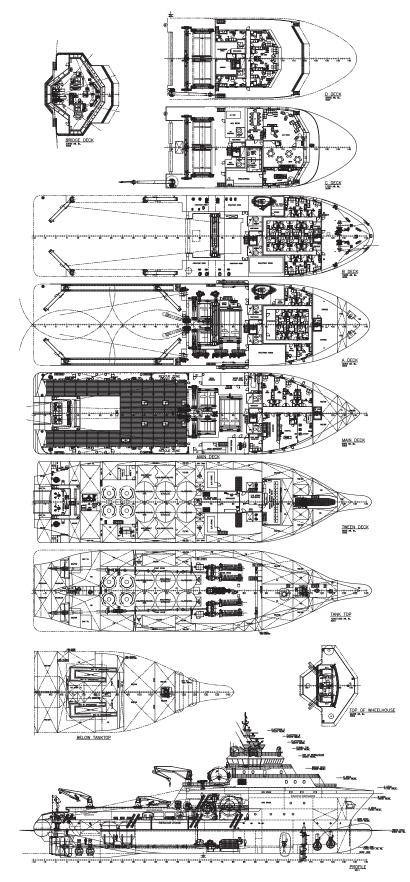
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PACIFIC DUCHESS

General Arrangement (Current configuration may vary.)





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PACIFIC DUCHESS Capacity Table



Tank	Contents	Volume	Base	Fuel	Dry	DW/WB	Potable	Fresh	Brine	Liquid	Methanol	Lube	Farm	Oil
Тапк	Contents	m ³	Oil	Oil	Bulk	DW/WB	Water	Water	Brine	Mud	Methanol	Oil	Foam	Disp.
1 DW/WB TK	DW/WB	285.2				285.2								
2 DW/WB TK	DW/WB	291.6				291.6								
3 DW/WB TK 17 DW/WB TK	DW/WB	291.8 154.8				291.8 154.8								
18 DW/WB TK	DW/WB	154.0				154.0								
20 DW/WB TK	DW/WB	211.0				211.0								
21 DW/WB TK	DW/WB	211.0				211.0								
22 DW/WB TK	DW/WB	62.8				62.8								
35 DW/WB TK	DW/WB	96.7				96.7								
40 DW/WB TK	DW/WB	82.5				82.5								
41 DW/WB TK	DW/WB	82.5				82.5								
72 CL/WB TK	DW/WB/CL	156.3				156.3								
73 CL/WB TK 81 DW/WB TK	DW/WB/CL DW/WB	156.3 96.7				156.3 96.7								
82 DW/WB TK	DW/WB	96.7				96.7								
104 DW/WB TK	DW/WB	96.7				96.7								
157 DW/WB TK	DW/WB	149.7				149.7								
158 DW/WB TK	DW/WB	149.7				149.7								
161 DW/WB TK	DW/WB	69.1				69.1								
162 DW/WB TK	DW/WB	69.1				69.1								
8 FW TK	FW	169.9						169.9						
9 FW TK	FW	104.4						104.4						
14 FW TK	FW	196.0						196.0						
15 FW TK 23 FW TK	FW	203.8 183.3						203.8 183.3						
23 FW TK	FW	183.3						183.3						
29 FW TK	FW	59.2						59.2						
30 FW TK	FW	59.2						59.2						
155 FW TK	SHIP'S FW	98.1					98.1							
156 FW TK	SHIP'S FW	98.1					98.1							
4 FO TK	FO	206.1		206.1										
5 FO TK	FO	206.1		206.1										
33 FO TK	FO	133.3		133.3										
34 FO TK	FO	133.3		133.3										
57 FO SERVICE TK	FO	31.8		31.8										
58 FO SERVICE TK 59 FO SETTLING TK	FO	31.8		31.8										
60 FO SETTLING TK	FO	26.1 26.1		26.1 26.1										
61 FO/BO TK	FO/BO	112.5	112.5	112.5										
62 FO/BO TK	FO/BO	112.5	112.5	112.5										
63 FO/BO TK	FO/BO	114.9	114.9	114.9										
64 FO/BO TK	FO/BO	114.9	114.9	114.9										
86 FO TK	FO	98.7		98.7										
87 FO TK	FO	114.8		114.8										
159 FO TK	FO	82.1		82.1										
160 FO TK	FO	82.1		82.1						00.5				
66 MUD TK 67 MUD TK	LM/BR/GLY LM/BR/GLY	83.5 83.5								83.5 83.5				
68 MUD TK	LM/BR/GLY	82.6								82.6				
69 MUD TK	LM/BR/GLY	82.6								82.6				
74 MUD/CL TK	LM/BR/GLY/CL	156.3								156.3				
75 MUD/CL TK	LM/BR/GLY/CL	156.3								156.3				
76 MUD/FO TK	LM/BR/GLY/FO	156.3		156.3						156.3				
77 MUD/FO TK	LM/BR/GLY/FO	156.3		156.3						156.3				
CEMENT TANK 1	DRY BULK	59.0												
CEMENT TANK 2	DRY BULK	59.0												
CEMENT TANK 3	DRY BULK	59.0												
CEMENT TANK 4 19 LO SPARE TK	DRY BULK LO	59.0 5.8										5.8		
32 LO BOW THR	LO	3.2										3.2		
39 LO STERN THR	LO	2.4										2.4		
53 LO MAIN ENG	LO	8.5										8.5		
71 LO STERN TUBE	LO	4.7										4.7		
44 DISP TK	DISP.	17.3												17.3
		3-	47.4	4.000.5		0.007.0	400.0	4.480.5		0.55		04.0		
		olume [m ³]			0.0		196.2		0.0	957.6	0.0	24.6	0.0	17.3
	Spec Sheet Total Vo				0.0	2,965.2	196.2	1,159.0	0.0	957.6	0.0	24.6	0.0	17.3

*Capacities shown are for lead vessel. Actual capacities may vary slightly.

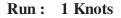
*Capacities shown in **RED** are excluded from the total volume.

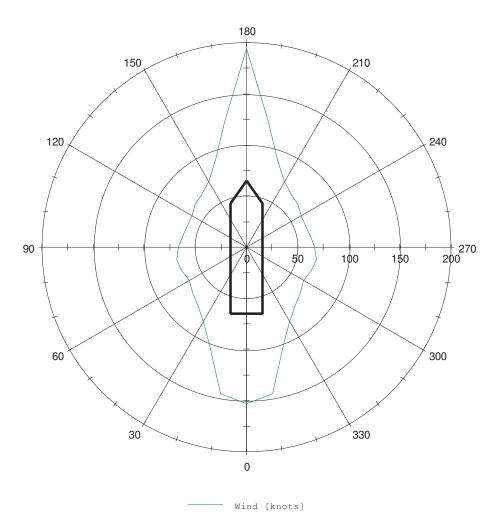
*Capacities shown in BLUE are included in another Tank's Capacity.

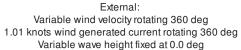
*Capacities shown in GREEN are counted for multiple Tank Capacities.

PACIFIC DUCHESS DP Capability Plot









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