



Anchor Handling Tug Supply Vessels - Pacific Retriever

Built to an advanced UT738 design, the R Class vessels are multi-purpose anchor handlers, designed to support jack-up rigs and offshore installations. With a large accommodation capacity, plenty of clear back deck space, as well as Dynamic Positioning (DP) capabilities, these vessels have proven to be versatile in a number of offshore applications including ROV operations.

The R Class vessels are:

- Pacific Raider
- Pacific Rapier
- Pacific Retriever

Top Features	Key Specifications
<ol style="list-style-type: none"> <li>1. Large accommodation.</li> <li>2. Ideal for towing &amp; supporting jack-up rigs.</li> <li>3. Good station keeping during operations.</li> <li>4. Ideal for ROV operations.</li> </ol>	<ul style="list-style-type: none"> <li>• Bollard Pull - 76 t</li> <li>• Free Deck Area - 414 m<sup>2</sup></li> <li>• Brake Horsepower - 7200 bHP</li> <li>• Winch Line Pull - 150 t</li> </ul>

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Rev 7.0 22/09/2021



General Information	
Vessel Name	Pacific Retriever
Built	INP Heavy Industries Co. Ltd, Ulsan, South Korea, April 2002
Flag	Singapore
Call Sign	S6GS4
IMO No.	9236810
Classification	
Class Notation	DNV +1A1 Tug DYNPOS(AUTR) E0 SF
Dimensions	
Length (LOA)	64.3 m
Beam	15.0 m
Summer Draft	5.70 m
Deadweight @ SummerDraft	2117 t
GT	1864 t
Deck Capacities	
Deck Load Capacity	930 t
Deck Strength	5 t/m <sup>2</sup> (General Deck) 10 t/m <sup>2</sup> (After A/H Deck)
Free Deck Area	414 m <sup>2</sup>
Length x Width	34.5 x 12 m
Tank Capacities	
NLS	See brine/mud
Brine / Mud	140 m <sup>3</sup> Brine (Multi usage tanks) 562 m <sup>3</sup> Mud (Multi usage tanks, dedicated 422 m <sup>3</sup> )
Drill / Ballast Water	565 m <sup>3</sup>
Dry Bulk	187 m <sup>3</sup> (In 4 dedicated tanks)
Fresh Water	579 m <sup>3</sup>
Fuel Dedicated	496 m <sup>3</sup> (Dedicated)
Fuel Total	918 m <sup>3</sup>

Tank Capacities Details	Refer to Tank Capacities Table
Drilling Brine	See brine/mud
Ballast Water	565 m <sup>3</sup>
Drill Water	565 m <sup>3</sup>
Propulsion / Bollard Pull	
Main Engines	2 x Bergen diesel engines each 2685 kW = 5370 kW (7200 bHP), 2 x CPP propellers in KORT nozzles, with Hi-lift flap rudders
Thrusters	2 x Bow tunnel 590 kW / 791 bHP 2 x Stern tunnel 590 kW / 791 bHP
Bollard Pull	76 t @ 100 % MRC
Deck Equipment	
Anchor Handling Winch	1 x AH winch 150 t 1st layer @ 0-5.7 m/min Wire capacity 1400 m of 56 mm dia.
Towing Pins	2 x Karmoy 160 t SWL
Shark Jaws	1 x Karmoy 300 t MBL
Stern Roller	RRM 2.0 m x 4.0 m @ 250 t SWL
Capstans	2 x RRM 10 t @ 0-20 m/min, Light line 0-22 m/min
Tugger Winches	2 x RRM 6 t @ 0-17 m/min Storage capacity 250 m of 18 mm dia. Wire Light line 0-55 m/min
Provision Crane	Electric Hydraulic, Fixed Boom Capacity 2 t @ 10 m
Chain Gypsies	1 x 76 mm mounted on work drum
Performance & Economy	
Economical Speed	Approx. 10.7 m <sup>3</sup> /Day @ 10kts
DP<20%	Approx. 7.6 m <sup>3</sup> /Day

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DP>35%	Approx. 11 m <sup>3</sup> /Day
Standby in Field	Approx. 4 m <sup>3</sup> /Day (one engine running)
Standby in Port	Approx. 1.2 m <sup>3</sup> /day
Note	Performance & Economy figures are given at mean vessel draft of 5.0 m (1525 t deadweight) & Beaufort Scale 2
<b>Dynamic Positioning System</b>	
Type	Alstom Dual Redundant ADP 21 DP System
Reference Systems	2 x Veripos LiD5 DGNSS 1 x Cyscan 1 x Sonardyne
Motion Reference Units	2 x Gyro Compasses 2 x Ultrasonic Wind sensors 2 x VRU
<b>Rescue Boat</b>	
1. 1 x Maritime Partner MP660 Springer, 6 person, SOLAS approved FRB with inboard diesel waterjet	
<b>Accommodation</b>	
Person Capacity	Total 29 9 x 1man cabin 10 x 2man cabins (Including hospital)

**Tank Capacities Table**

R Class Tank Capacities @100%						
Tank	Volume	WB/DW	FW	FO	Brine	Mud
1 Forepeak	71.2	71.2				
2 DB/Wing Tk 1P	120.4		120.4			
3 DB/Wing Tk 1S	139		139			
4 DB/Wing Tk 2P	51.8	51.8				
5 DB/Wing Tk 2S	55.9	55.9				
6 DB/Wing Tk 3P	96			96		
7 DB/Wing Tk 3S	66.7			66.7		
8 FO Service Tk Port	24.6			24.6		
9 FO Service Tk Stbd	24.6			24.6		
10 DB/Wing Tk 4P	124.8			124.8		
11 DB/Wing Tk 4S	124.8			124.8		
12 DB/Wing Tk 5P	120.5	120.5				
13 DB/Wing Tk 5S	130.8	130.8				
14 DB/Wing Tk 6P	45.9		45.9			
15 DB/Wing Tk 6S	45.6		45.6			
16 Stability Tank	134.6	134.6				
17 Wing Tk 7P	79.7		79.7			
18 Wing Tk 7S	79.7		79.7			
19 Aft Peak P	33.7		33.7			
20 Aft Peak S	34.8		34.8			
21 FO Settling Tk	34.4			34.4		
22 Glycol Tk 2	69.9				69.9	69.9
23 Glycol Tk 1	69.9				69.9	69.9
24 Mud Tk 2	70.3			70.3		70.3
25 Mud Tk 1	70.3			70.3		70.3
26 Mud Tk 4	70.3			70.3		70.3
27 Mud Tk 3	70.3			70.3		70.3
28 Mud Tk 6	70.3			70.3		70.3
29 Mud Tk 5	70.3			70.3		70.3
<b>Dedicated Tanks:</b>	@ 100%	564.8	578.8	495.9		
<b>With Multiuse Tanks:</b>	@ 100%			917.7	139.8	561.6
		WB/DW	FW	FO	Brine	Mud
<b>Bulk Capacity of 186.8 m<sup>3</sup> in four dedicated tanks</b>						

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