



M/V Pacific Raider

- ▶ **Bollard Pull** 76-87 tonnes
- ▶ **Brake Horsepower** 6997-7105 BHP
- ▶ **Clear Deck Space** 278-408 m²
- ▶ **Winch Line Pull** 150 tonnes

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Clear Deck Space	278-408 m ²	Winch Line Pull	150 tonnes

General Information

Built:	INP, Ulsan, South Korea, September 2002
Flag:	Singapore
Call Sign:	S6GS9
IMO No.:	9246425
Classification:	DNV-GL +1A1 Tug DYNPOS(AUTR) E0 SF

Dimensions

Length, overall:	64.3 m
Length, BP:	57.3 m
Breadth, moulded:	15.0 m
Depth, main deck:	6.7 m
Design draft:	5.1 m
Maximum draft midship:	5.7 m
GT:	1864
NT:	560
Length between P.P.:	57.25 m
Breadth:	15 m
Draft maximum:	Summer draft at 5.7 m

Capacities

Deadweight (maximum):	2117 tonnes
Clear Deck Area:	34 m x 12 m = 408 m ²
Deck Strength:	General deck - 5 tonnes/m ² Aft A/H deck - 10 tonnes/m ²
Deck Cargo:	900 tonnes
Fuel:	507.2 m ³ (dedicated tank only)
Ship Fuel:	MGO
Potable Water:	582.6 m ³
Ballast Water:	557.6 m ³
Brine / DMA / Glycol / Liquid	
Mud:	Dedicated Brine 70 m ³ @ 2.5sg (each for 2 tanks)
Liquid Mud:	Dedicated Mud 420 m ³ @ 2.5sg (6 tanks)
Dry Bulk:	186.8 m ³ (6596.8 ft ³)
Ship's Stores:	Cooler: 11.3 m ³ approximately Freezer: 13.3 m ³ approximately Dry Stores: 27 m ³ approximately

Machinery

Main Engines:	2 x 2650 kW = 5300 kW (7105 BHP) Bergen BRM-6
Propulsion:	2 x CPP Propellers in Kort nozzles 2 x Ulstein high lift independent rudders 2 x Electro-hydraulic steering gear
Bow Thrusters:	2 x 515 kW = 1030 kW (1380 BHP) - 823A @ 8.25 tonnes each

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Stern Thrusters:	2 x 515 kW = 1030 kW (1380 BHP) - 823A @ 8.25 tonnes each
Shaft Generators:	2 x Newage AVK generators 1600 kVA, 2053A, 450 V, 60 Hz
Auxiliary Generators:	2 x DG Output approx. 2 x 325 kVA, 440 V, 60 Hz
Emergency Generators:	1 x DG Output approx. 1 x 70 kW, 440 V, 60 Hz

Towing and Anchor Handling

Bollard Pull:	83 metric tonnes, continuous
Main Winch:	1 x Brattvaag SLI50-B2T low pressure hydraulic, in fully enclosed winch house with tension and line out metres
Load Capacity:	Towing A/H drum 1st layer 150 tonnes pull at 0 - 5.7 m/min 70 tonnes pull at 0 - 8.5 m/min 20 tonnes pull at 0 - 17.0 m/min Lowering at 0 - 18.0 m/min
Brake Capacity:	250 tonnes on towing drum 1st layer 250 tonnes on A/H drum 1st layer
Tow Drum Wire Capacity:	1080 m x 64 mm diameter
Work Drum Capacity:	1400 m x 56 mm diameter
Chain Gypsy Cable Lifter:	1 x cable lifter for 3" (76 mm) rig chain
Stern Roller:	SWL approximately 250 tonnes Length 4 m x 2 m diameter
Tow Pins / Guide Pins:	2 x retractable Karm guide pins with horizontal locking tops
Wire Chain Stopper:	2 x retractable Karm Fork, SWL 300 tonnes
Spare Reel Capacity:	1 x Hydraulic Brattvaag with spare tow wire 1100 m x 64 mm diameter fitted

Deck Machinery

Tuggers:	2 x 6 tonnes Brattvaag
Capstans:	2 x 10 tonnes Brattvaag
Windlass:	9 tonne pull Brattvaag, 1600 kg high holding anchors 330 m x 36 mm chain each side, plus 1 spare anchor
Bow Mooring:	2 x mooring drums capacity 60 m x 64 mm synthetic rope
Smit Towing Bracket:	1 x 200 tonnes SWL located on fo'c'sle
Crane Capacity:	2 tonnes at 10 m outreach Wire Length: 10 mm dia x 90 m

Electronics

Main Radar:	Furuno FR28375 colour S-Band ARPA, 26" display
Auxiliary Radar:	Furuno FR2127 colour X-Band ARPA, 28" display with remote display at aft console
Auto Pilot:	Tokimec PR 6000
Gyro Compass:	3 x GYRO TOKIMEC TG-6000
Magnetic Compass:	Tokimec HB 165A-5
Echo Sounder:	Skipper GDS101
DGPS :	2 x Veripos LD5

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Anemometer :	2 x Young Wind Tracker
Speed Log:	Furuno, Model: DS-830
Direction Finder :	1 x Taiyo TD-L1550A
Communications:	G.M.D.S.S. (Global Maritime Distress and Safety System) Area A3 SSB radio - 1 x Furuno FS 25710 VHF-DSC Duplex radios - 2 x VHF DSC (Sailor RT4822 & RT4722) Inmarsat C Transceivers - 2 x Furuno INM-C FELCOM 18 VHF portable radios - 3 x Sailor SP 3520 SART 9 ghz transponders - 2 x Sailor RT-9 406mhz EPIRB - 1 x Jotron Tron 40S
Watch System:	2187.5 kHz and DSC Sailor
Navtex Receiver:	1 x ICS NAV 5
Weather Fax:	Furuno Fax-214
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	Furuno FA-100
Satellite Navigation:	Furuno GPS Navigator GP-80-D
VHF:	2 x Sailor RT 4822 VHF DSC
VRU:	TSS CMS RP-25
BNWAS:	Martek Marine NAVGARD

Discharge Pumps

Fuel Oil:	2 x 100 m ³ /hr - 8.0 bar
Dirty Oil:	1 x 2 m ³ /hr - 4.0 bar
Potable Water:	1 x 150 m ³ /hr - 9.0 bar
Ballast Water:	1 x 150 m ³ /hr - 9.0 bar
Drill Water:	1 x 150 m ³ /hr - 9.0 bar
Liquid Mud:	1 x 75 m ³ /hr - 18.0 bar
Brine / Mud:	1 x 75 m ³ /hr - 18.0 bar
Dry Bulk:	80 m ³ /hr, 5.6 bar, 80 psi, 2 compressors
Cargo Flow Meters :	Fuel Oil and Fresh Water / Drill Water
Hose Connections :	Fuel - Stbd-TODO 5" + 3" Port-Camlock Potable water - P-side 3" / Stbd 4" Camlock Drill water - 4" Camlock Liquid Mud - 4" Camlock Dry Bulk - 4" WECO Various Adapters available 3", 4" to 5"

Performance

Speed / Fuel Consumption:	Max. speed 15.5 knots, approximate consumption 24 metric tonnes per day
Economical Speed:	Cruising speed 11 knots approximate consumption 12 metric tonnes per day
Consumption Under Towing:	14 tonne / day
In Port:	1 tonne / day
DP Speed:	7 m ³ / day

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Dynamic Positioning

Type:	3 x GYRO TOKIMEC TG-6000
Reference Systems:	USBL HPR with remote hydraulic deployment (in-built hull penetrations for two hydrophones), DGPS, Cyscan Laser, two Vertical Reference Systems, two Interface Position Measuring Systems, one of which will be an Artemis IV / V (for Charterer's Supply)
Control Modes:	Auto sail / track / ROV follow. Up to 200 pre-programmable way points in track-follow mode
Joystick:	Poscon - electronic control system joystick, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

External Fire Fighting

Capacity:	2 x 1200 m ³ /hr = 2400 m ³ /hr
Monitors:	2 x Jet / Foam / Spray monitors on wheelhouse top, remotely operated from inside wheelhouse
Throw Length:	120 m
Throw Height:	50 m
Foam Tank :	17.3 m ³

Standby Rescue Equipment

1. 1 x Maritime Partner MP660 Springer, 10 persons, SOLAS approved FRB with inboard diesel waterjet.
2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.
3. Lifesaving Equipment
 - Lifebuoys: 2 x manoverboard smoke floats, 4 x with lights, 2 x with buoyant, 2 x Life buoy only
 - Lifejackets: Solas 35 total onboard
 - Inflatable Liferafts c/w Hammer Hydrostatic Release: 6 x 20 person (3 x port side / 3 x starboard side)

Anti-Pollution

Dispersant Tank:	12.9 m ³
Spray Booms:	2 x 6 m

Accommodation

Berths:	9 x 1 berths
	9 x 2 berths
	27 berths Total
	1 x Ship's office (GYM)
	1 x Hospital (2 berths)
	1 x Messroom
	1 x Galley

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Environmental Features

1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and fixed agitators.
2. Fixed Butterworth type mud tank cleaning system with hot water wash, fitted to all mud tanks and with slop tank reception.
3. Low residue design bulk tanks.
4. 1 x 15 ppm oily water separator.
5. 1 x sewage plant, extended aeration type.
6. Remote digital fuel economy computer readout in wheel house, of main engine fuel consumption / vessel speed.
7. Garbage compactor and mascerator.

Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 74, with amendments in force and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel".
2. All cargo systems are controlled by a Tanktender system with discharge printer for FO and FW/DW.
3. Fitted with 3 remote cameras in winch-house for anchor-handling/towing operations with 1 TV monitors in wheelhouse.
4. Fitted with 2 Halogen searchlights, each 2,000 W, on the wheelhouse top and electrically controlled from inside wheelhouse, 4 x 1,000 W flood-lights, for cargo deck.
5. Deck Power supplies
5 pcs x 63A x 440V
3 pcs x 32A x 440V
6. Wood sheathed main deck except for aft area, which is steel plated for anchor handling.
7. Welding and cutting equipment and lathe in workshop.
8. Fresh water ultra violet sterilizer.
9. Ulstein passive roll damping system.
10. Fire detection system fitted to the accommodation, engine room and emergency generator spaces.
11. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room.
12. Statutory liferafts, life-jackets, pyrotechnics.