



M/V Pacific Wrestler

- ▶ **Bollard Pull** 133-148 tonnes
- ▶ **Brake Horsepower** 10,800 BHP
- ▶ **Clear Deck Space** 471 m²
- ▶ **Winch Line Pull** 300 tonnes

M/V Pacific Wrestler

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Clear Deck Space	471 m ²	Winch Line Pull	300 tonnes

General Information

Built:	INP Shipyard, Ulsan, South Korea, July 2003
Flag:	Singapore
Call Sign:	9V6216
IMO No.:	9270634
Classification:	DNV +1A1 Tug Fire Fighter I SF E0 DPS2 DK(+) TMON

Dimensions

Length, overall:	68.9 metres
Length, BP:	60.4 metres
Breadth, moulded:	15.5 metres
Depth, main deck:	7.0 metres
Design draft:	5.0 metres
Maximum draft midship:	5.9 metres
GRT:	2,332 Tonnes
NRT:	749 Tonnes

Capacities

Deadweight (maximum):	2,110 tonnes
Clear Deck Area:	36.8 m x 12.8 m = 471 square metres
Deck Strength:	General deck - 5 tonnes per square metre Aft A/H deck - 10 tonnes per square metre
Deck Cargo:	800 tonnes
Fuel:	780 cubic metres (dedicated) 1500 cubic metres (inclusive of optional tanks)
Potable Water:	448 cubic metres
Ballast Water:	930 cubic metres
Brine / DMA / Glycol / Liquid Mud:	312 cubic metres (s.g. 2.5) (3 tanks - separate from mud tanks) (in addition, 146 cubic metres in dual use Liquid Mud tanks)
Liquid Mud:	440 cubic metres (s.g. 2.5) (6 tanks)
Dry Bulk:	215 cubic metres (4 tanks)
Ship's Stores:	Cooler: 8.6 cubic metres Freezer: 8.6 cubic metres Dry Stores: 10.5 cubic metres approximately

Machinery

Main Engines:	2 x 5,400 BHP = 10,800 BHP
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 590 kW (791 bhp), 9.25 tonnes thrust each
Stern Thrusters:	1 x 590 kW (791 bhp), 9.25 tonnes thrust each
Shaft Generators:	2 x shaft generators 1200 kW (1600 kVA), 450 V, 60 Hz
Auxiliary Generators:	2 x diesel/gen output 320 kW (400 kVA), 450 V, 60 Hz

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Emergency Generators: 1 x diesel/gen output 65 kW (80 kVA), 450 V, 60 Hz

Towing and Anchor Handling

Bollard Pull:	133 tonnes, continuous
Main Winch:	1 x Brattvaag SL300W/2BSL300W low pressure
Load Capacity:	Towing A/H drum 1st layer 300 tonnes pull at 0 - 7.0 m/min. (based on 1st step) 172 tonnes pull at 0 - 12.0 m/min. 122 tonnes pull at 0 - 17.0 m/min. Lowering at 0 - 38.0 m/min.
Brake Capacity:	450 tonnes on towing drum 1st layer 450 tonnes on A/H drum 1st layer
Tow Drum Wire Capacity:	1500 m x 76 mm diameter
Work Drum Capacity:	2 x 1200 m x 76 mm diameter
Chain Gypsy Cable Lifter:	2 x cable lifters for 3 1/4" (84 mm) rig chain 2 x cable lifters for 3" (76 mm) rig chain
Rig Chain Locker:	187.7 cubic metres chain capacity
Stern Roller:	SWL 450 tonnes Length 5 m x 2.5 m diameter
Tow Pins / Guide Pins:	2 pairs x retractable Karmoy guide pins with horizontal locking tops
Wire Chain Stopper:	2 x retractable Karm Fork, SWL 450 tonnes Inserts for wire sizes 32-102 mm
Spare Reel Capacity:	2 x hydraulic Brattvaag 1500 m x 76 mm capacity
Wire Storage Reel:	1 x hydraulic Brattvaag 1500 m x 76 mm capacity

Deck Machinery

Tuggers:	2 x 10 tonnes Brattvaag
Capstans:	2 x 10 tonnes Brattvaag
Windlass:	9.5 tonne pull Brattvaag, 2000 kg high holding anchors 440 m x 38 mm chain each side, plus 1 spare anchor
Bow Mooring:	2 x mooring drums capacity 120 m x 40 mm synthetic rope
Smit Towing Bracket:	1 x 200 tonnes SWL located on fo'csle
Crane Capacity:	5 tonnes at 13 m radius

Electronics

Main Radar:	1 x Furuno colour S-band (10 cm), ARPA 28 ins display, complete with remote display at aft console
Auxiliary Radar:	1 x Furuno colour X-band (3 cm), 28 ins display
Auto Pilot:	1 x Tokimec
Gyro Compass:	1 x Tokimec 6000 with repeaters, 2 x Tokyo Keiki TG-8000

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Magnetic Compass:	1 x Tokimec
Echo Sounder:	Skipper Electronic A/S
DGPS :	2 x Veripos LD5
Anemometer :	1 x Gill Ultrasonic WindObserver II / 1 x R.M Young 09101 / 1 x Observator OMC-160
Speed Log:	Furuno
Direction Finder :	Taiyo Musen
Communications:	G.M.D.S.S (Global Maritime Distress and Safety System) Area A3 1 x SSB 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Navtex
Watch System:	2187.5 kHz and DSC Sailor
Weather Fax:	Furuno

Discharge Pumps

Fuel Oil:	1 x 150 cubic metres/hr - 14.0 bar
Dirty Oil:	1 x 10 cubic metres/hr - 2.0 bar
Potable Water:	1 x 150 cubic metres/hr - 14.0 bar
Drill Water:	1 x 150 cubic metres/hr - 14.0 bar
Liquid Mud:	1 x 75 cubic metres/hr - 18.0 bar (2 speed)
Brine / Mud:	1 x 75 cubic metres/hr - 18.0 bar (2 speed)
Dry Bulk:	80 cubic metres/hr - 5.6 bar, 80 psi, 2 compressors
Cargo Flow Meters :	Fuel Oil and Fresh Water

Performance

Speed / Fuel Consumption:	Max. speed 15.5 kts @ 5m draft, approximate consumption 40 cubic metres/day Economical speed 10-12 kts, approximate consumption 15 cubic metres/day Idle at sea: approximate consumption 5 cubic metres/day Idle in port: approximate consumption 0.8 cubic metres/day
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Dynamic Positioning

Type:	GE Duplex Dynamic Positioning System, C-Series
Reference Systems:	2 x Veripos LD5 DGPS / Cyscan MK IV
Control Modes:	Joystick Manual Heading / Joystick Auto Heading / Dynamic Positioning / Model Control (Dead Reckoning) / Simulation (for training purposes) / DP Minimum Power / Auto Track / Auto Pilot Mode / Mixed Axis Mode / Ship Follow (CyScan) / ROV Follow (Requires Acoustic)
Joystick:	Poscon - Ulstein, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

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External Fire Fighting

Capacity:	2 x 1,500 cubic metres/hr = 3,000 cubic metres/hr
Monitors:	2 x 1,200 cubic metres/hr monitors on wheelhouse roof, remotely controlled from within wheelhouse
Throw Length:	120 m
Throw Height:	50 m
Drenching System:	Installed
Foam Tank :	12.3 cubic metres

Standby Rescue Equipment

1. MOB-boat with self-righting inboard diesel engine with water jet propulsion, 25 knots (light load) with boat davit for quick launch and recovery
2. Rescue Zones on both Port and Starboard side main deck, with scrambling net and personnel transfer swing ropes

Anti-Pollution

Dispersant Tank:	5 cubic metres
Spray Booms:	2 x 6 m

Accommodation

Berths:	10 x 1 berths 4 x 2 berths (including hospital) 3 x 4 berths 30 berths Total 1 x ship's office 1 x charterer's office 1 x messroom 1 x galley All living space fully air-conditioned, design 45 deg C outside, 23 deg C inside All living space fully heated, design -5 deg C outside, 22 deg C inside
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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. Cargo load/discharge station with save all to inboard tank
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 maserator

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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. Fitted with Poscon electronic control system joystick, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass
3. All cargo systems are controlled by a Tanktender system with discharge printer for FO and FW/DW
4. Fitted with 5 remote cameras in winch-house for anchor-handling/towing operations with 2 TV monitors in wheelhouse
5. Hose connections:
 - Fuel - 5 inches (Avery - Hardol)
 - Potable Water - 5 inches (Camlock)
 - Drill Water - 5 inches (Camlock)
 - Mud - 5 inches (Camlock)
 - Bulk - 5 inches (Camlock)
 - Adapters 5"-4" and 6"-5"
6. Fitted with 2 Halogen searchlights, each 2,000 W, wheelhouse top and electrically operated from inside wheelhouse, 4 x 1,000 W flood-lights, for cargo deck
7. Deck Power supplies, 1 x 1000 A x 440 V x 3 ph, 1 x 63 A x 440 V x 3 ph and 1 x 32 A x 220 V x 1 ph
8. Wood sheathed main deck except for aft area, which is steel plated for anchor-handling
9. Welding and cutting equipment and lathe in workshop
10. Fresh water ultra violet steriliser
11. Ulstein passive roll damping system
12. Fire detection system fitted to the accommodation, engine room emergency generator space and all other spaces
13. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room / emergency generator room
14. Statutory liferafts, life-jackets, pyrotechnics