



M/V Pacific Valhalla

- ▶ **Bollard Pull** 110-126 tonnes
- ▶ **Brake Horsepower** 8807 BHP
- ▶ **Clear Deck Space** 365-416 m²
- ▶ **Winch Line Pull** 255 tonnes

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Clear Deck Space	365-416 m2	Winch Line Pull	255 tonnes

General Information

Built:	Labroy shipyard, Batam, November 2007
Flag:	Singapore
Call Sign:	9V6790
IMO No.:	9361641
Classification:	DNV-GL +1A Offshore service vessel(Anchor handling, Towing) DPS(2) E0

Dimensions

Length, overall:	66.0 metres
Length, BP:	57.0 metres
Breadth, moulded:	16.0 metres
Depth, main deck:	7.3 metres
Maximum draft midship:	6.2 metres
Design draft:	6.2 metres
GT:	2147
NT:	644

Capacities

Deadweight (maximum):	2485 tonnes @ 6.2 m draft
Clear Deck Area:	416 m2 (32.5 x 12.8 m)
Deck Strength:	5t/m2
Deck Cargo:	870 tonnes
Fuel:	807 m3 (dedicated) 1,595 m3 (including the combined use Mud/Brine tanks and the combined use Rig Chain locker)
Ship Fuel:	807.54 m3
Cargo Fuel:	807.54 m3
Potable Water:	454 m3
Ballast Water:	945.24 m3
Drill Water:	945.24 m3
Ballast Water / Drill Water:	945.24 m3
Brine / DMA / Glycol / Liquid Mud:	128 m3 (in 2 dedicated tanks) 593 m3 (including the combined use Mud tanks - s.g. of 2.5)
Liquid Mud:	309.76 m3 (in 4 dedicated tanks)
Dry Bulk:	185 m3 (approximately 6,600 cubic feet) total capacity in 4 tanks
Base Oil:	154.88 m3 (in 2 dedicated tanks)
Ship's Stores:	Freezer (-25 degrees Celsius) - approximately 12 m3 Cooler (+4 degrees Celsius) - approximately 12 m3 Dry Stores - approximately 26 m3

Machinery

Main Engines:	2 x 3285 kW = 6570 kW (8807 BHP)
Propulsion:	2 x MAN B&W Alpha CPP Propellers in MAN AHT Kort nozzles

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Bow Thrusters:	2 x 600 kW = 1200 kW (1608 BHP) Brunvoll Tunnel Thrusters, approximately 9.0 tonnes thrust each
Stern Thrusters:	2 x 600 kW = 1200 kW (1608 BHP) Brunvoll Tunnel Thrusters, approximately 9.0 tonnes thrust each
Shaft Generators:	2 x Leroy Somer shaft generators, 1300 kW, 1600 kVA each, 440 V, 60 Hz
Auxiliary Generators:	1 x Caterpillar 3406 Diesel Generator, 270 kW, 440 V, 60 Hz
Emergency Generators:	1 x air cooled Caterpillar 3406 Diesel Generator, 270 kW, 440 V, 60 Hz

Towing and Anchor Handling

Bollard Pull:	123.28 MT @ 100% MCR
Main Winch:	1 x Hydrakraft 250 tonne variable pressure waterfall winch
Load Capacity:	Towing and Anchor Handling Drums: Pulling Force - 1st layer - 255 tonnes, mid layer - 165 tonnes, outer layer - 122 tonnes (low speed) Pulling Speed - 1st layer - 11.4 m/min, mid layer - 17.6 m/min, outer layer - 23.8 m/min (low speed) Pulling force - 1st layer - 127 tonnes, mid layer - 82 tonnes, outer layer - 61 tonnes (high speed) Pulling speed - 1st layer - 22.8 m/min, mid layer - 35.2 m/min, outer layer - 47.6 m/min (high speed) The Anchor Handling Drum and Towing Drum are capable of 250 tonnes pull on 1st layer simultaneously
Brake Capacity:	Brake Force: 1st layer - 320 tonnes mid layer - 207 tonnes outer layer - 153 tonnes
Tow Drum Wire Capacity:	1500 m x 71 mm diameter
Work Drum Capacity:	1500 m x 71 mm diameter
Chain Gypsy Cable Lifter:	1 x 76 mm, 1 x 84 mm mounted on each side of anchor handling drum
Rig Chain Locker:	195 m ³ chain capacity
Stern Roller:	Rolls Royce, SWL 350 tonnes, 5.5 m x 2.0 m diameter
Tow Pins / Guide Pins:	1 pair of retractable Karmoy guide pins with horizontal locking tops
Wire Chain Stopper:	2 x retractable Karm forks, SWL 300 tonnes for wire/chain up to 102 mm
Spare Reel Capacity:	1 x Hydrakraft variable pressure, 20 tonnes pull on 1st layer, 1400 m x 71 mm diameter
Pennant Storage Reels:	2 x Hydrakraft variable pressure, 20 tonnes pull on 1st layer, 1000 m x 76 mm diameter

Deck Machinery

Tuggers:	2 x 10 tonnes Hydrakraft
Capstans:	2 x 16 tonne (warping head) / 10 tonne (wire drum) Hydrakraft
Windlass:	1 x 10 tonne Hydrakraft, 2100 kg anchors with 440 m x 36 mm chain each side, plus 1 spare anchor
Bow Mooring:	2 x mooring drums, capacity of 200 m x 56 mm rope each
Smit Towing Bracket:	1 x 200 tonnes SWL located on the Forecastle

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Crane Capacity: TTS, 5 tonnes at 13 m radius
Wire length: 43 m

Electronics

Main Radar:	1 x Furuno FAR-2117 X Band ARPA Radar with 21" LCD display
Auxiliary Radar:	1 x Furuno FAR-2137S S Band ARPA Radar with 21" LCD display
Auto Pilot:	1 x Tokimec PR 6000 Series
Gyro Compass:	3 x Tokimec TG8000 with repeaters in wheelhouse and steering gear room
Magnetic Compass:	1 x Cassen & Plath REFLECTA 1
Echo Sounder:	1 x Skipper GDS102, Dual Frequency, 1500 m water depth
DGPS :	1 x Furuno GP-90, IMO approved for navigation 2 x Veripos LD5 DGPS + VQC monitoring
Anemometer :	3 x Gill ultrasonic unit
Speed Log:	1 x Furuno DS-80 Doppler Speed log
Communications:	1 x Furuno G.M.D.S.S. (Global Maritime Distress & Safety System) Area A3 set 1 x Furuno FS-2570 (250W) MH/HF Radio 1 x Furuno FM-8800S (25W) VHF DSC 1 x Furuno FM-8800D (25W) VHF DSC 1 x Furuno FELCOM-15 Inmarsat-C 1 x Furuno FELCOM-15 Inmarsat-C/SSAS 1 x Furuno NX-700B Navtex Receiver 2 x sailor Portable GMDSS VHF Radios 1 x McMurdo Portable GMDSS VHF Radios 1 x Sart sevenstar electronics 1 x McMurdo EPIRB 1 x McMurdo SART 2 x Entel Intrinsically safe UHF radios for Fire Fighting
Navtex Receiver:	1 x Furuno NX-700B
Weather Fax:	1 x Furuno FAX-207
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	1 x Furuno FA-150
VHF:	2 x Furuno FM-8800D/8800S
BNWAS:	Martek Marine - Navgard

Discharge Pumps

Fuel Oil:	1 x 100 m ³ /hr - 7.0 bar
Potable Water:	1 x 150 m ³ /hr - 7.0 bar
Drill Water:	1 x 150 m ³ /hr - 7.0 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 cbm/hr - 5.6 bar (2 compressors)
Cargo Flow Meters :	Fuel Oil and Potable Water

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Hose Connections :	Fuel - 4" Camlock
	Potable Water - 4" Camlock
	Drill Water - 4" Camlock
	Mud - 5" Camlock
	Brine - 5" Camlock
	Dry Bulk - 5" Camlock
	Adapters 5" to 4" reducer, 4" to 3" reducer

Performance

Speed / Fuel Consumption:	Maximum speed of 14 knots. At 100% MCR, approximate consumption is 34 tonnes / day Economical speed 10-12 knots, approximate consumption is 18 m ³ Idle at sea: approximate consumption 4 tonnes / day Idle in port: approximate consumption 0.8 tonnes / day
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Dynamic Positioning

Type:	Converteam ADP 02 - Duplex DP2 System - Two interfaced ADP21 workstations Installed Brunvoll Emergency Stops panel on all thrusters
Reference Systems:	1 x Cyscan 2 x Veripos LD5 DGPS + VQC monitoring
Control Modes:	Joystick manual heading, Joystick auto heading, Dynamic Positioning, Model Control (dead reckoning), DP minimum power, Ship follow, Auto track, Auto Pilot, Auto Sail, ROV follow, Simulation (for training purposes)
Joystick:	Converteam independent joystick - integrated to main propulsion, rudders, side thrusters and interfaced to gyro compass

External Fire Fighting

Capacity:	2 x 1705 m ³ /hr = 3410 m ³ /hr
Monitors:	2 x 1200 m ³ /hr, Kvaerner, each fitted on wheelhouse top and remotely controlled from within the wheelhouse
Throw Length:	120 m
Throw Height:	50 m
Drenching System:	FiFi class 1 Pipeline System

Standby Rescue Equipment

1. 1 x Maritime Partner MP660 Springer, 10 persons, SOLAS approved FRB with inboard diesel waterjet propulsion.
Speed with 2 people approx. 33 to 35 knots.
2. Rescue Zones on both Port and Starboard side of main deck, with scramble nets and personnel transfer swing ropes.

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Anti-Pollution

Dispersant Tank:	9.64 m3
Spray Nozzles:	4 x "off centre flat spray nozzles" 2 on either side

Accommodation

Berths:	8 x single cabins 4 x 2 man cabins (including hospital) 4 x 4 man cabins 1 x Library 1 x Messroom 1 x Lounge
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Environmental Features

1. Mud tank of free flowing design with external stiffening, sloped floors and dedicated recirculation.
2. Low residue design bulk tanks.
3. 1 x oily water separator with 15 ppm monitor. Compliant with IMO - Resolution MEPC 107(49).
4. 1 x sewage treatment plant.
5. Galley macerator.
6. Cargo load/discharge station with save all to inboard tank.

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 Terasaki cargo control system with remote valve operation and tank soundings.
3. Fitted with 2 x Halogen searchlights, each 2000W, fitted on the wheelhouse top and remotely controlled from inside the wheelhouse.
4. Fitted with 6 x 1000W high pressure sodium lights for the aft deck cargo area and 2 x 1000W high pressure sodium lights in the crash rails to illuminate Anchor Handling area.
5. Removable section of crash rail, 6 m long, on Port and Starboard side forward to allow for fitting of ROV spread.
6. Wood sheathed main deck except for the 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. Flume passive roll damping system.
10. Fire detection system fitted to the accommodation, all store rooms and machinery spaces throughout the vessel.
11. CO2 fixed fire extinguishing system for Machinery Space, Emergency Generator Room, Paint Locker and Hydraulic Pump Room.

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12. Local water spray Fire Fighting system according to SOLAS regulations.
13. Statutory liferafts, life-jackets and pyrotechnics.
14. Deck power supplies for ROV equipment / Charterer's equipment:
 - 2 x 500A, 440V, 3ph
 - 1 x 63A, 440V, 3ph
 - 1 x 32A, 440V, 3ph
15. Deck power supplies for Refrigerated containers:
 - 6 x 440V, 63A, 3ph