



M/V Pacific Enterprise

- ▶ **Brake Horsepower** 23,170 BHP
- ▶ **Clear Deck Space** 780 m²
- ▶ **Deadweight** 4,482 tonnes
- ▶ **Deck Cargo Capacity** 1,740 tonnes

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General Information

Built:	Aker Langsten, October 2006
Flag:	Russian Federation
Call Sign:	UFHH2
IMO No.:	9335692
Classification:	DnV +1A1, E0, Icebreaker ICE-10, DE-ICE, DAT (35), Standby Vessel, DK(+), HL (2,5), DYNPOS AUTR, OIL-REC

Dimensions

Length, overall:	91.5 metres
Length, BP:	77.6 metres
Breadth, moulded:	19 metres
Depth, main deck:	10 metres
Design draft:	5.09 metres
Maximum draft midship:	8.25 metres
GT:	4,992 Tonnes
NT:	1,498 Tonnes

Capacities

Deadweight (maximum):	4,482 tonnes
Clear Deck Area:	52 m x 15 m = 780 square metres
Deck Strength:	5 tonnes per square metre
Deck Cargo:	1,740 tonnes
Fuel:	2,005 cubic metres (dedicated) 2,809 cubic metres (including multi-use tanks)
Potable Water:	639 cubic metres
Ballast Water:	842 cubic metres
Brine / DMA / Glycol / Liquid Mud:	298 cubic metres
Liquid Mud:	804 cubic metres
Dry Bulk:	302 cubic metres (4 tanks)
Ship's Stores:	15 cubic metre freezer 15 cubic metre cooler 28 cubic metre dry store

Machinery

Main Engines:	4 x 4,320 kW Generators = Total 17,280 kW RRM Bergen B32:40L9A engines
Propulsion:	2 x RRM Aquamaster ARC 1.0 main propulsion thrusters, approximately 7,000 kW each, ICE 15 Class
Bow Thrusters:	2 x RRM Ulstein Kamewa TT2200 1,355 kW, ICE 15 Class
Emergency Generators:	1 x Scania 562 kVA, 438 kW, 440 V, 3-phase, 60 Hz

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Towing and Anchor Handling

Rig Chain Locker: 2 x Stockless 'Spek' anchors, 48 mm chain, 16 shackles each side

Deck Machinery

Tuggers: 2 x RRM Brattvaag hydraulic, 10 tonnes 1st layer
 Capstans: 2 x Brattvaag Rauma Electric, 12 tonnes each, main deck, aft
 Windlass: 1 x RRM Brattvaag hydraulic 15 tonnes, declutchable, fitted with 2 warping heads and one rope storage reel
 Crane Capacity: 1 x Dreggen DKF70 Knuckle Boom, 5 tonnes @ 10 m - 3 tonnes @ 15 m outreach
 1 x Dreggen DKF500 knuckle boom with wireless remote control, 20 tonnes @ 20 m - 10 tonnes @ 30 m outreach

Electronics

Main Radar: 1 x Furuno FAR-2137s S-band (10 cm), ARPA, 30 kW, PM 31 performance monitor, with 2 x 23 ins Daylight Rasterscan Colour displays (one forward and one aft)
 Auxiliary Radar: 1 x Furuno FAR-2117s X-band (3 cm), ARPA, 12 kW, PM 31 performance monitor, with 23 ins Daylight Rasterscan Colour displays (one forward and one aft)
 Two off slave displays at forward bridge wing consoles
 Both Radar aerials & displays interswitchable
 Auto Pilot: 1 x Tokimec PR 6000 series
 Gyro Compass: 3 x Tokimec 8000 series with repeaters in wheelhouse, bridge wings, chart table, steering gear room
 Magnetic Compass: 1 x Cassen & Plath with TMC
 Echo Sounder: 1 x Furuno FE 700 with 2 x 50 kHz transducers in ice housing and remote RD30 indicator at aft controls
 DGPS : 2 x Veripos LD5 complete with Verify QC
 1 x Furuno GP 90, fitted with differential card.
 1 x Trimble DSM 132 with Javad Lexon GPS/Glonass receiver
 1 x CSI Wireless MBX - 3S with Fugro Seastar 3510 LR spotbeam receiver
 Speed Log: 1 x Furuno DS 80 Doppler log, with remote RD30 display at aft control

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Communications:	1 x Furuno Felcom 15 G.M.D.S.S. (Global Maritime Distress & Safety System) for area A3 1 x Furuno MF/HF/DSC SSB type FS 2570 2 x Furuno FM 8800 VHF/DSC 1 x Furuno FM 8800 VHF (non DSC) 2 x Inmarsat C 421273710 / 421273711 1 x Furuno Felcom 70 Inmarsat F Fleet 77 1 x Iridium satellite system 1 x Icom IC-A VHF AM helicopter radio 1 x Thrane and Thrane Polestar SSAS 3 x IS Tron TR20 hand held VHF 3 x IS Entel UHF handheld radios 2 x IS Entel VHF handheld radios 2 x TRON 9 GHz SARTs 1 x TRON 40s Float free EPIRB with heated bracket 1 x TRON 45 SX EPIRB (in wheelhouse)
Weather Fax:	1 x Furuno FAX 207 Mk II

Discharge Pumps

Fuel Oil:	200 cubic metres/hr - 7.0 bar
Base Oil:	150 cubic metres/hr - 7.0 bar
Potable Water:	200 cubic metres/hr - 7.0 bar
Drill Water:	200 cubic metres/hr - 7.0 bar
Liquid Mud:	90 cubic metres/hr - 18.0 bar
Brine / Mud:	90 cubic metres/hr - 18.0 bar
Dry Bulk:	80 cubic metres/hr - 5.6 bar, 80 psi, 2 compressors

Performance

Speed / Fuel Consumption:	15 knots (ice free) @38.5 tonnes per day 12 knots (ice free) @19.9 tonnes per day 100% MCR (14,000 kW) @ 71.6 tonnes per day
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Dynamic Positioning

Type:	Alstom/Gegelec DP 2 Two interfaced ADP 21 consoles. Twin gyros, twin wind anemometers
Reference Systems:	1 x Sonardyne USBL HPR System with deployment 3 x DGPS (see details under electronics) 1 x Cyscan Fan Beam Laser 2 x Gill ultrasonic anemometers 2 x RP-25 VRU's 2 x UPS 14 inch, hull penetration fitted for survey equipment
Control Modes:	Auto sail / track / ROV follow. Up to 200 pre-programmed way-points in track follow mode

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Joystick: Poscon 2 - Ulstein, integrated to main propellers, main engines, rudders, side thrusters and interfaced to gyro compass

External Fire Fighting

Capacity: 2 x 1,500 cubic metres/hr = 3,000 cubic metres/hour with external drenching system. To DNV FiFi 1 requirements

Monitors: 2 x 1,200 cubic metres/hr, controlled from inside wheelhouse

Throw Length: 120 m

Throw Height: 50 m

Standby Rescue Equipment

1. MOB-boat with inboard Yanmar 240 BHP diesel engine and water jet propulsion, 35 knots with boat davit for quick launch and recovery
2. Daughter craft with twin Yanmar 240 BHP inboard diesel engines and water jet propulsion, 25 knots with 17 men and equipment. Can accommodate 30 persons. Davit fitted with tension control and controllable towing boom

Ice Capability

1. The vessel can achieve greater than 13 knots in 0.5 m level first year ice
2. The vessel can achieve 1.5 knots in 1.5 m level first year ice
3. The vessel can turn through 180 degrees in less than 90 seconds in 0.5 m level first year ice
4. The vessel can clear an escort channel 70 m wide in 0.5 m level first year ice
5. The vessel can break ice and make sternway in 4 m polar pack ice
6. Maximum Ice Draft = 7.5 m
7. Minimum Ice Draft = 6.75 m

Anti-Pollution

Dispersant Tank: 36 cubic metres

Spray Booms: 2 x 6 m

Accommodation

Berths: 30 berths
Temporary reception upto 150 survivors
All accommodation air conditioned and heated
2 lounges
2 client's cabin and offices
1 Hospital/treatment room and combined dispensary
1 x Non-survivor room, temperature controlled

Environmental Features

1. Fitted with 2 off Jason cradle for personnel rescue. Rescue Zones for both Port and Starboard side, main deck, with scrambling nets

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Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 2001, with amendments in force and IMO A469 (XII) "Guidelines for the design and construction of offshore supply vessel"
2. Fitted with an active roll reduction system
3. Fitted with a passive roll reducing tank below main deck
4. Pneumatic bulk handling system, capable of discharging 2 types of dry bulk simultaneously through 2 separate discharge lines with emergency stop fitted in wheelhouse
5. Fitted with 3 x 1,600 W Xenon searchlights, and 2 x 2,000 W halogen searchlights. All remotely operated and focused from inside wheelhouse
6. Wood sheathed main deck for safe cargo handling
7. Welding/cutting machine complete with attachments
8. 14 inch, Hull penetration fitted for survey equipment
9. Fitted with anti-icing and de-icing equipment
10. Statutory life-rafts, life buoys, life jackets, pyrotechnics
11. P.A. System
12. TV and DVD players in lounges
13. Sauna and Gym
14. Survivor capacity - 150 people