



## M/V Pacific Hornbill

- ▶ **Brake Horsepower** 8927 BHP
- ▶ **Clear Deck Space** 1000 m<sup>2</sup>
- ▶ **Deadweight** 4697-4706 tonnes
- ▶ **Deck Cargo Capacity** 2400 tonnes

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### General Information

Built:	USC Japan, August 2012
Flag:	Singapore
Call Sign:	9V9594
IMO No.:	9579119
Classification:	DNV-GL +1A1 Fire fighter(I) Supply vessel Clean(Design) COMF(V-3) DK(+) DYNPOS(AUTR) E0 HL(2.8) LFL(*) NAUT(OSV(A)) SF

### Dimensions

Length, overall:	88.1 m
Length, BP:	78.1 m
Breadth, moulded:	19.0 m
Depth, main deck:	8.0 m
Maximum draft midship:	6.6 m
Design draft:	5.9 m
GT:	4059
NT:	1627
Length between P.P.:	78.14 m
Breadth:	19.0 m
Draft minimum:	3.15 m
Draft maximum:	6.638 m (Summer Draft)

### Capacities

Deadweight (maximum):	4702 tonnes
Clear Deck Area:	1000 m <sup>2</sup> (62m x 16.13m)
Deck Strength:	10 T/m <sup>2</sup> Aft of Frame 30 5 T/m <sup>2</sup> Fwd of Frame 30
Deck Cargo:	2400 tonnes
Fuel:	Dedicated - 814 m <sup>3</sup> Total capacity - 953 m <sup>3</sup> (including two BO tanks each 69.6 m <sup>3</sup> )
Potable Water:	597 m <sup>3</sup>
Ballast Water / Drill Water:	2584 m <sup>3</sup> in dedicated tanks
Brine / DMA / Glycol / Liquid Mud:	979 m <sup>3</sup> in multi purpose mud/brine/WB/DW tanks
Special Liquids:	Methanol: 167 m <sup>3</sup>
Dry Bulk:	321 m <sup>3</sup>
Base Oil:	139 m <sup>3</sup> in multi purpose BO/FO tanks 306 m <sup>3</sup> total when using multi purpose methanol/BO tanks

### Machinery

Main Engines:	4 x Wartsila 9L20 each 1665 kW = 6660 kW (8927 bHP) driving AVK generators each 1600 ekW
Propulsion:	2 x 2200 kW Azimuth (2 x 2949.06 BHP), high efficiency contra rotating (CRP) propellers for fuel savings of 10-15%

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Azimuth Thruster:	1 x 880 kW (1180 BHP) Retractable AZI Thruster, electric motor driven. Hydraulic Ram for lifting/lowering.
Bow Thrusters:	1 x 880 kW (1180 BHP) electric motor driven tunnel type, FPP, frequency controlled 1 x 880 kW (1180 BHP) azimuth electric motor, driven retractable type, FPP, frequency controlled
Emergency Generators:	1 x 370 Kw @ 1800 rpm / 450V / 3 ph / 60Hz (also harbour generator)

## Deck Machinery

Tuggers:	2 x 10 tonne x 20 m/min
Forward Tuggers :	2 x 10 tonne x 20 m/min
Capstans:	2 x 10 tonne x 24 m/min
Windlass:	2 x electric motor driven Hawser Drum - 17m x 10 m/min Cable Lifter - 12.5 ton x 12 m/min (Grade K3) Warping Drum - 2 sets
Bow Mooring:	2 x Stockless bow anchor + chains 2 x 276.25m (total 552.5m), Grade 3
Crane Capacity:	2 x small handling cranes 1 x 5T @ 10m radius, 1 x 1T @ 10m radius Max outreach: 10 m

## Electronics

Main Radar:	JRC-JMA 922B 6XA
Auxiliary Radar:	JRC-JMA 9132 SA
Auto Pilot:	1 x Yokogawa Adaptive Autopilot PT500A-P-Analog
Gyro Compass:	3 x Yokogawa CMZ900D
Magnetic Compass:	1 x Yokogawa SR-165
Echo Sounder:	1 x JRC JFE680
DGPS :	2 x JRC JLR-7800
Anemometer :	2 x Gill Instruments - Wind Observer 2 Ultrasonic
Speed Log:	1 x Yokogawa EML500-HV1
Communications:	GMDSS 1 x HF / MF SSB radio telephone (150W) - JRC JSS-296 1 x NBDP telex station - JRC NDZ-127 1 x Navtex receiver - JRC NCR333 2 x International VHF radio telephone NCM-1770 1 x Inmarsat C - JRC JUE-85 1 x EPIRB - JRC JQE103 3 x Two Way VHF radio telephone JHS - 7 UHF transceiver system - MOTOROLA GM360 - 1 set with 3 fixed stations and numerous portable transceivers (GM 328)
ECDIS:	2 sets - JRC-JAN 901B
Navtex Receiver:	NCR 333
Weather Fax:	1 set - JRC JAX 9B

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Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
Datalink :	Fleet Broadband (FBB)
AIS:	JRC 182 AIS system, integrated into the RADAR and ECDIS system.
Voyage Data Recorder(VDR):	JRC-JCY 1800
VRU:	3 x Teledyne DMS RP 30
BNWAS:	UniSafe 802 - Bridge watch 800

## Discharge Pumps

Fuel Oil:	2 x 150 m3/hr @ 90 m head (Electric, 2-speed)
Base Oil:	2 x 78 m3/hr @ 90 m head (Electric, 2-speed)
Potable Water:	2 x 150 m3/hr @ 90 m head (Electric, 2-speed)
Ballast / Drill Water:	1 x 250 m3/hr @ 90 m head (Electric, 2-speed)
Liquid Mud:	2 x 100 m3/hr @ 90 m head (Electric, 2-speed)
Drilling Brine:	2 x 100 m3/hr @ 90 m head (Electric 2 speed)
Dry Bulk:	80 m3/hr @ 5.6 bar
Cargo Flow Meters :	Fuel oil, Base oil, Fresh water
Special Liquids:	Methanol
Special liquid (Methanol):	2 x 78 m3/hr @ 90 m head (Hydraulic)
Nitrogen System:	Nitrogen system for Inert gas over Methanol
Hose Connections :	Fuel-midships port and stbd - 4" Todo male Fuel aft stbd - 3" Todo male Liquid mud-midships port and stbd - 5" Weco fig 50 male Port aft - 4" Todo male Brine-midship pt and stbd - 5" weco fig 50 male Aft port - 4" Todo male Methanol - 4" Todo male Drill Water - 5" Weco Fig 50 female Potable Water - 5" Weco Fig 50 female Cement - 5" Weco Fig 50 female Base Oil - 4" Weco Fig 207 female

## Performance

Speed / Fuel Consumption:	15.6 knts / 30.5 mt/day @ 5.5 m draft
Full Speed:	15.6 knts
Economical Speed:	10 knts / 7.5 m3/day @ 5.5 m draft
In Port:	1.5 mt
DP Speed:	2.0 mt

## Dynamic Positioning

Type:	Duplex DP with IJS and Advanced Ship Follow (ver.6.24 build 2)
Reference Systems:	2 x DGPS (Veripos LD2S & C Navigator 3050) 1 x Cyscan Mk 4 1 x Radascan Mini microwave position reference sensor
Control Modes:	2 x Aft control stations

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Joystick: Port, Starboard, Central IJS

### External Fire Fighting

Capacity:	1 x 2400 m3/hr
Monitors:	2 x monitors remotely operated from wheelhouse
Throw Length:	120m
Throw Height:	50m
Drenching System:	Fixed water spray 1050 m3/h
Foam Tank :	1.8 m3 for Methanol

### Standby Rescue Equipment

1. 1 x Merlin 615 Norsafe, 13 persons, SOLAS approved FRC with inboard diesel waterjet. Speed with 3 persons approx. 27 knots. Davit for quick launch and recovery.
2. Required by Charterer - Dacon Rescue Scoop  
Located on A deck port side, forward end of cargo deck.

### Anti-Pollution

Dispersant Tank:	10.8 m3
Spray Booms:	1 spray boom each side
Spray Nozzles:	2 nozzels each boom

### Accommodation

Berths:	10 x single cabins 13 x double cabins 4 x single / double pullman style cabins Total Berths 44
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### Environmental Features

1. 1 x Incinerator
2. Ballast Water Treatment System
3. Garbage Compactor
4. Sewage Treatment Plan
5. Oily Water Separator Unit 1 x 1 m3/hr

### Miscellaneous

1. 6 Liferafts, 25 persons per raft
2. BNWAS System
3. Agitators with hydraulic drives are installed in the cylindrical mud tanks
4. Incinerator 20kg/hr solids only. No waste oil.

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### FUEL EFFICIENCY

#### FUEL OIL CONSUMPTION ON PASSAGE

Fuel Oil Consumption (t/24 hours)-Seastate 4 <sup>φ</sup>				
Draft(m)	10.00 knot	12.00 knot	14.00 knot	15.00 knot
4.00	9.40	11.52	14.81	18.86
5.00	11.59	13.92	17.91	22.89
5.50	12.68	15.13	19.48	24.82
6.00	13.61	16.37	20.89	26.91
6.33	14.27	17.09	21.89	28.01
6.66	14.77	17.70	22.57	29.09

**φ: Seastate 4 is Moderate breeze, 11–16 knot wind, 3.5–6 ft wave height**