

ENA Samurai

200TBP / 16,314 bhp / DP2 / FIFI1 / AHTS



ENA Samurai

| |
|---|
| 16,314 bhp |
| DPS-2 Positioning System |
| Built 2013 |
| 200 MT Bollard Pull |
| 350 MT Winch Pull |
| FIFI-1 |
| 500 m ² Deck Space |
| 950 m ³ Fuel Oil Capacity |
| 590 m ³ Fresh Water Capacity |
| 430 m ³ Mud Capacity |
| 156 m ³ Base Oil Capacity |
| 250 m ³ Cement Capacity |

For further information, please contact us:
Email: marketing@easternnavigation.com
Telephone: +65 6268 3222

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Principal Particulars

| | |
|-----------------|--|
| Flag | Singapore |
| Built | 2013 |
| Length Overall | 75.27 m |
| Length B.P. | 65.00 m |
| Beam Overall | 18.00 m |
| Depth Moulded | 8.10 m |
| Max Draft | 6.60 m |
| GRT | 3,260 |
| NRT | 978 |
| Dead Weight | 3,118 Tons |
| Max Speed | 16 knots @ 100% MCR |
| F.O consumption | 53 MT/day @ Max speed 29 MT/day @ Eco speed |

Classification

ABS +A1(E) Offshore Support, Towing, Anchor Handling & Fire Fighting Vessel, +DPS-2

Capacities

| | |
|-------------------------------|---|
| Fuel Oil | 950 m3 |
| Potable Water | 590 m3 |
| Mud | 430 m3 |
| Base Oil | 156.75 m3 |
| Dry Bulk | 4 x 62.5 m3 (Total 250 m3) |
| Water Ballast/ Drill Water | 1,250 m3 |
| Lube | 44.15 m3 |
| Rig Chain Locker | 204.06 m3 |
| Dispersant | 12.19 m3 |
| Deck Cargo Area | 500 m2 |
| Deck Cargo | About 1,000 tons |
| Deck Strength | 10T/m2(1/3 length of area, aft) 5 T/m2 (2/3 length of area, fwd) |

Discharging Rates

| | |
|------------------|----------------------------|
| Fresh Water | 1 x 200 m3/hr @ 90m head |
| F.O Cargo pump | 1 x 150 m3/hr @ 90m head |
| Liquid Mud | 1 x 80 m3/hr @ 180m head |
| Drill Water | 1 x 200 m3/hr @ 90m head |
| Bulk Compressors | 2 x 18.5 m3/min @ 0.59 MPa |
| Flow Meter | Provided for all cargo |

Accommodation

| | |
|----------------|----|
| 1-Berth Cabins | 14 |
| 2-Berth Cabins | 6 |
| 4-Berth Cabins | 1 |
| Berths - Total | 30 |
| Hospital | 1 |

Life Saving / Rescue Equipment / Pollution Control

| | |
|---|--|
| Fast Rescue Boat | 1 x 13 Persons, 20 knots |
| Life Raft & Davit | 6 x 16 men, conforming to SOLAS convention |
| Firefighting | FIFI 1 |
| Foam Tank | 23.53 m3 |
| Oil dispersant spray boom at mid-ship on both sides, sprinkler system, fixed CO2 system | |

Machinery & Propulsion Equipment

| | |
|---------------------|--|
| Main Engines | 2 x 6,000 kW (Total 16,314 bhp) Wartsila 12V32 |
| Generators | Caterpillar, 2 x 465 kW, 1800rpm 2 x 425 kW shaft alternator, 440V, 60Hz, 3 Phase |
| Emergency generator | 1 x 72 kW, 60 Hz emergency diesel generator |
| Propellers | 2 x CPP, 4 blades, 4,000mm dia |
| Bow Thruster | 2 x 12 MT, CPP |
| Stern Thruster | 2 x 8 MT, CPP |
| Provision Crane | 1 x 5MT @ 14m, knuckle boom |
| Cargo Rail Crane | 1 x 4.5MT @ 13m, Moveable, Starboard Side |

Anchor Handling Equipment

| | |
|--------------|--|
| Main Winch | 350 MT @ 16.3m/min(1 st layer) Brake Holding : 450 MT (static) Capacity: 2,500 m x 76 mm dia (per drum) |
| Rope Reels | 2 x 10MT @ 50 m/min (1 st layer) Capacity: 1,500 m x 76 mm dia |
| Tugger Winch | 2 x 17 MT @ 13 m/min |
| Capstan | 2 x 10 MT @ 16 m/min |
| Shark Jaws | 2 x 450 MT |
| Towing Pins | 4 x hydraulic, Retractable 300MT |
| Stern Roller | 3,000 mm dia x 5.0 m, 450 MT |

Dynamic Positioning System

| | |
|-------------------|---|
| Type | Converteam, IMO Class DP2 |
| Reference Systems | 1 x Radscan 1 x Cyscan MK4 2 x DGPS 2 x Wind Indicator |
| Control | 2 x DP Workstations at aft bridge 1 x Independent Joystick |

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Normal Mooring Equipment

| | |
|-----------------|--|
| Anchor Windlass | 1 x 11.9 MT @ 14 m/min |
| Anchor | 2 x HHP stockless anchor, 2,138 kg each |
| Chain Cable | 495 x 46 mm dia, 3a Grade |

Navigation and Communication Equipment

GMDSS (Area A3), Mini-M, Radars, Gyro-compass,
Auto Pilot, GPS, Satellite Navigator, SSB, VHF, Echo
Sounder, Navtex receiver, Weather fax, AIS

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Tank Capacity Plan

| Tank Name | Fuel (MGO) | Lub. Oil | DW/BW | Mud | Bulk | Chain | Brine/BO | Fresh Water | Misc. |
|---------------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|----------------|-----------------------|-----------------------|----------------|
| | 0.85 t/m ³ | 0.90 t/m ³ | 1.025 t/m ³ | 2.50 t/m ³ | 2.50 t/m ³ | m ³ | 2.50 t/m ³ | 1.00 t/m ³ | m ³ |
| No.1 FO Service Tank (P) | 26.47 | | | | | | | | |
| No.2 FO Service Tank (P) | 38.57 | | | | | | | | |
| No.1 DB FO Tank (P) | 28.74 | | | | | | | | |
| No.1 DB FO Tank (S) | 28.74 | | | | | | | | |
| No.2 DB FO Tank (P) | 25.74 | | | | | | | | |
| No.2 DB FO Tank (S) | 25.74 | | | | | | | | |
| No.3 DB FO Tank (P) | 29.01 | | | | | | | | |
| No.3 DB FO Tank (S) | 29.01 | | | | | | | | |
| No.1 FO Tank (P) | 183.19 | | | | | | | | |
| No.1 FO Tank (S) | 183.19 | | | | | | | | |
| No.2 FO Tank (P) | 171.45 | | | | | | | | |
| No.2 FO Tank (S) | 171.45 | | | | | | | | |
| No.1 FO Drain Tank (P) | 8.20 | | | | | | | | |
| No.1 FO Drain Tank (S) | 2.08 | | | | | | | | |
| M/E LO Storage Tank (S) | | 17.72 | | | | | | | |
| G/E LO Storage Tank (S) | | 1.87 | | | | | | | |
| LO Sump Tank (P) | | 12.28 | | | | | | | |
| LO Sump Tank (S) | | 12.28 | | | | | | | |
| FP DW/BW Tank (C) | | | 82.18 | | | | | | |
| No.1 DW/BW Tank (P) | | | 80.32 | | | | | | |
| No.1 DW/BW Tank (S) | | | 79.25 | | | | | | |
| No.2 DW/BW Tank (C) | | | 117.94 | | | | | | |
| No.3 DW/BW Tank (C) | | | 72.06 | | | | | | |
| No.4 DW/BW Tank (P) | | | 41.16 | | | | | | |
| No.4 DW/BW Tank (S) | | | 41.16 | | | | | | |
| No.5 DW/BW Tank (P) | | | 89.24 | | | | | | |
| No.5 DW/BW Tank (S) | | | 86.47 | | | | | | |
| No.1 Mud Tank (P) | | | | 115.72 | | | | | |
| No.1 Mud Tank (S) | | | | 115.72 | | | | | |
| No.2 Mud Tank (P) | | | | 101.66 | | | | | |
| No.2 Mud Tank (S) | | | | 101.66 | | | | | |
| No.1 Bulk Tank (C) | | | | | 62.50 | | | | |
| No.2 Bulk Tank (C) | | | | | 62.50 | | | | |
| No.3 Bulk Tank (C) | | | | | 62.50 | | | | |
| No.4 Bulk Tank (C) | | | | | 62.50 | | | | |
| CL/DW Tank (P) | | | 102.03 | | | 102.03 | | | |
| CL/DW Tank (S) | | | 102.03 | | | 102.03 | | | |
| Brine/BO/DW Tank (P) | | | 76.28 | | | | 76.28 | | |
| Brine/BO/DW Tank (S) | | | 80.47 | | | | 80.47 | | |
| No.1 Fresh Water Tank (P) | | | | | | | | 87.19 | |
| No.1 Fresh Water Tank (S) | | | | | | | | 86.89 | |
| No.2 Fresh Water Tank (P) | | | | | | | | 92.70 | |
| No.2 Fresh Water Tank (S) | | | | | | | | 92.70 | |
| No.3 Fresh Water Tank (P) | | | | | | | | 50.57 | |
| No.3 Fresh Water Tank (S) | | | | | | | | 50.57 | |
| No.3 Fresh Water Tank (C) | | | | | | | | 44.60 | |
| No.4 Fresh Water Tank (P) | | | | | | | | 44.80 | |
| No.4 Fresh Water Tank (S) | | | | | | | | 44.80 | |
| Stab./DW/BW Tank (C) | | | 202.29 | | | | | | 202.29 |
| Dispersant Tank (S) | | | | | | | | | 12.19 |
| Sewage Tank (S) | | | | | | | | | 8.68 |
| Foam Tank (S) | | | | | | | | | 23.53 |
| Bilge Tank (P) | | | | | | | | | 13.69 |
| Sludge Tank (S) | | | | | | | | | 18.25 |
| Technical Water Tank (P) | | | | | | | | | 24.51 |
| Slop Tank (S) | | | | | | | | | 24.86 |
| Total (m ³) | 951.58 | 44.15 | 1252.88 | 434.76 | 250.00 | 204.06 | 156.75 | 594.82 | 328 |
| Total (bbl) | 5,985.25 | 277.69 | 7,880.38 | 2,734.56 | 1,572.45 | 1,283.50 | 985.93 | 3,741.30 | 2,063.06 |

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