

# HUACHUAN 806

## 65M ANCHOR HANDLING / OFFSHORE SUPPORT VESSEL



### GENERAL SPECIFICATION

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| <p>Official No : CN20072495347</p> <p>IMO No : 9516894</p> <p>Call Sign : BOPU5</p> <p>Port of Registry : Port Shanghai</p> <p>Flag : Chinese flag</p> <p>Year Delivered : 2009</p> <p>Hull No : NC 546</p> <p>Builder : Nam Cheong Dockyard Sdn. Bhd.,<br/>Miri, Sarawak.</p> <p>Designer : Wartsila Ship Design Pte. Ltd. (formerly CWA)</p> <p>Classification : CCS</p> <p>Notation : +CSA TUG/OFFSHORE SUPPLY SHIP/FIRE FIGHTING SHIP 1:ANCHOR HANDLING<br/>CSM DP-1</p> | <p><b>ACCOMMODATION</b></p> <p>2 x 1 Man Cabin : 2</p> <p>4 x 2 Men Cabin : 8</p> <p>7 x 4 Men Cabin : 28</p> <p><b>Total Persons On Board : 38</b></p> <p>Hospital Room : 1 x 1-Man Bunk</p> <p style="text-align: center;">1 x Treatment Table</p> <p style="text-align: center;"><b>[ FULLY AIR - CONDITIONED ]</b></p> | <p><b>PROPULSION SYSTEM</b></p> <p>Main Engine (Bergen) : 2 x 4023 BHP, Diesel engine<br/>@ 750 RPM c/w reduction gearbox</p> <p>Propeller : 2 x CPP, 3.5 m Dia. @ 4-bladed</p> <p>Bow Thruster : 1 x 10 Tons CPP, 440V/3Ph/60Hz</p> <p>Stern Thruster : 1 x 10 Tons CPP, 440V/3Ph/60Hz</p> <p>Retractable Thruster : 1 x 1.6 m Dia. FPP (1000 BHP<br/>Diesel Engine @ 1800 RPM)</p> <p>Steering Gear : 2 x Independent Electro Hyd. System</p> |
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| <p><b>PRINCIPAL PARTICULARS</b></p> <p>Length Overall : 65.60 m</p> <p>Breadth Moulded : 16.00 m</p> <p>Depth Moulded : 6.50 m</p> <p>Summer Draft : 5.60 m</p> <p>Gross Tonnage : 2147</p> <p>Net Tonnage : 644</p> <p>Deadweight (Summer Draft) : 2067.21 Tons (approx.)</p> <p>Free Deck Space : 415 m<sup>2</sup> (approx.)</p> <p>Deck Strength : 5.5 Tons/m<sup>2</sup></p> | <p><b>DECK EQUIPMENT</b></p> <p>Anchor Windlass and Mooring Winch : Electro Hydraulic System, Windlass with 10 Tons Duty Pull @ 13 m/min, Mooring drum with 11 Tons pull @ 11.5 m/min</p> <p>Anchor Handling and Towing Winch : Double drum, Waterfall type @ electro hydraulic system, Drum capacity of 2 x 1500 m x 64 mm Dia Wire, 300 Tons brake holding and 250 Tons pull force @ 8.5 m/min</p> <p>Storage Reel Winch : 1 x 1800 m x 64 mm Dia. Wire</p> <p>Shark Jaw : 1 set x 300 Tons @ Electro Hyd. System</p> <p>Towing Pins : 1 set x 160 Tons @ Electro Hyd. System</p> <p>Stern Roller : 4.80 m(L) x 2.00 m Dia.</p> <p>Tugger Winch : 2 x 10 Tons @ Electro Hyd. System</p> <p>Capstan : 2 x 9 Tons @ Electro Hyd. System</p> <p>Provision Crane : 1 x 5 Tons (SWL) @ 15 m outreach (telescopic crane)</p> <p>Reefer Point : 4 x 16 A, 415V/3Ph/50Hz;<br/>4 x 32 A, 230V/1Ph/50Hz</p> | <p><b>PROPULSION PERFORMANCE</b></p> <p>Maximum Speed : 14.6 knots (approx.) @ 100% MCR</p> <p>Bollard Pull : 102 Tons (approx.) @ 100% MCR</p> <p><b>ELECTRIC POWER GENERATION</b></p> <p>Main Generators : 2 x 450 kW @ 440V/3Ph/60Hz</p> <p>Emergency/ Harbor Generators : 1 x 140 kW @ 440V/3Ph/60Hz</p> <p>Shaft Alternators : 2 x 1450 kW @ 440V/3Ph/60Hz</p> <p><b>DYNAMIC POSITIONING SYSTEM</b></p> <p>DP-1 System : 1 set</p> <p>Maker : GE Power Conversion</p> |
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**SAFETY EQUIPMENT**

Liferafts : 6 x 20 men

Rescue Boat : 1 x 6 men semi rigid type c/w pivoting davit

Remarks: Vessel's Life Saving Equipment are in accordance with SOLAS/LSA Code & Flag State requirements.

**FIRE FIGHTING & ANTI POLLUTION EQUIPMENT**

Fifi Classification : FFV 1

Fire Pumps Capacity : 2 x 1600 m<sup>3</sup>/hr

Fire Monitor Capacity : 1 x 1200 m<sup>3</sup>/hr water c/w 300 m<sup>3</sup>/hr foam; 1 x 1200m<sup>3</sup>/hr water

Oil Dispersant System : 2 x 6 m Dispersant Boom

Remarks: 1 x Fixed Fire-extinguishing System (CO2) to Machinery Space  
Cat. A, 1 x Fixed Local Application System (Water Mist) to Machinery Space Cat.A, 1 x Fire Detection & Alarm System, and 1 x Deck Foam in accordance with IMO SOLAS/ FFS Code & Flag State requirements.

**DISCHARGE PUMPS CAPACITIES**

Fuel Oil (Cargo) : 1 x 150 m<sup>3</sup> / hr @ 90 m head

Fresh Water (Cargo) : 1 x 150 m<sup>3</sup> / hr @ 90 m head

Drill Water (Cargo) : 1 x 150 m<sup>3</sup> / hr @ 90 m head

Liquid Mud (Cargo) : 2 x 100 m<sup>3</sup> / hr @ 90 m head

Brine (Cargo) : 1 x 100 m<sup>3</sup> / hr @ 90 m head

**ANCHOR MOORING SYSTEM**

Anchor Type : Stockless Bower Anchors

Anchor Capacity : 2 x 2280 kg

Anchor Chains : 825 m (TOTAL)

**OTHER EQUIPMENT CAPACITIES**

Bulk Tank Compressor : 2 x 1368 m<sup>3</sup> / hr @ 5.6bar

Bulk Tank Dryer : 1 x 1800 m<sup>3</sup> / hr @ 5.6bar

Oily Water Separator : 1 x 1 m<sup>3</sup> / hr

Sewage Treatment Plant : 1 x 4.66 m<sup>3</sup> / day (38 men)

Liquid Mud Agitator : 2 x 2.5 m Dia. impeller; 16.5 kW/35RPM EACH

Hydraulic Power-Pack : 1 x 100ℓ / min c/w 55.0 kW Motor, 440V/3Ph/60Hz @1770 RPM  
1 x 300ℓ (Reservoir Tank)

**NAVIGATION & COMMUNICATION EQUIPMENT**

GMDSS Radio A3) : 1 complete set

GPS Navigator : 1 unit

DGPS : 2 units

Gyro Compass c/w Autopilot : 2 units Gyro Compass; 1 unit Autopilot

Magnetic Compass : 1 set

Radar (ARPA) : 2 units

Echo Sounder : 1 unit

Speed Log : 1 unit

Anemometer : 2 units

Navtex Receiver : 1 unit

AIS : 1 unit

SART : 1 set

EPIRB : 1 unit (406MHz)

SSAS : 1 set

Satellite Communication : 1 set

Satellite Data Transmission : 1 set x Inmarsat System

Interior Communication System : 1 set

PA System : 1 set

Sound Reception System : 1 set

Search Light : 2 units

Fleet Broadband : 1 set

VSAT : 1 set

| Drill Water Tanks (m <sup>3</sup> ) |                       |               |
|-------------------------------------|-----------------------|---------------|
| 1                                   | No.1 FW & DW & WB (C) | 102.50        |
| 2                                   | No.1 FW & DW & WB (C) | 82.80         |
| 3                                   | No.3 FW & DW & WB (P) | 33.30         |
| 4                                   | No.3 FW & DW & WB (S) | 33.30         |
| 5                                   | No.3 FW & DW & WB (C) | 21.70         |
| 6                                   | FW & DW TK (P)        | 66.40         |
| 7                                   | FW & DW TK (S)        | 66.40         |
| <b>TOTAL:</b>                       |                       | <b>406.40</b> |

| Fuel Oil Tanks (m <sup>3</sup> ) |                |               |
|----------------------------------|----------------|---------------|
| 1                                | No.1 FO TK (P) | 103.40        |
| 2                                | No.1 FO TK (S) | 103.40        |
| 3                                | No.1 FO TK (C) | 109.80        |
| 4                                | No.2 FO TK (P) | 123.00        |
| 5                                | No.2 FO TK (S) | 131.00        |
| 6                                | No.2 FO TK (C) | 70.50         |
| 7                                | FO Day TK (P)  | 16.60         |
| 8                                | FO Day TK (S)  | 16.60         |
| <b>TOTAL:</b>                    |                | <b>674.30</b> |

| Misc Tanks (m <sup>3</sup> ) |                             |               |
|------------------------------|-----------------------------|---------------|
| 1                            | Hyd. Oil (P)                | 3.70          |
| 2                            | Hyd. Oil (S)                | 3.70          |
| 3                            | Lube Oil (P)                | 2.70          |
| 4                            | Lube Oil (S)                | 2.70          |
| 5                            | Lube Oil Storage TK         | 7.40          |
| 6                            | Bilge TK (S)                | 7.40          |
| 7                            | Dirty Oil TK (C)            | 7.80          |
| 8                            | Sewage Holding TK (C)       | 12.70         |
| 9                            | Foam TK (P)                 | 14.70         |
| 10                           | Dispersant TK (S)           | 14.70         |
| 11                           | No.1 BR & Slop & RIG CL (P) | 71.80         |
| 12                           | No.1 BR & RIG CL (S)        | 77.60         |
| 13                           | No.2 DW & WB (P)            | 98.90         |
| 14                           | No.2 DW & WB (S)            | 98.90         |
| 15                           | No.1 Mud & BR TK            | 181.90        |
| 16                           | No.2 Mud & BR TK            | 140.60        |
| <b>TOTAL:</b>                |                             | <b>747.20</b> |

| Fresh Water (m <sup>3</sup> ) |                |               |
|-------------------------------|----------------|---------------|
| 1                             | No.1 FW TK (P) | 95.60         |
| 2                             | No.1 FW TK (S) | 95.60         |
| 3                             | No.2 FW TK (P) | 112.80        |
| 4                             | No.2 FW TK (S) | 112.80        |
| <b>TOTAL:</b>                 |                | <b>416.80</b> |

| Dry Bulk Tanks (m <sup>3</sup> ) |                    |               |
|----------------------------------|--------------------|---------------|
| 1                                | No.1 Cement TK (P) | 58.30         |
| 2                                | No.2 Cement TK (S) | 58.30         |
| 3                                | No.1 Cement TK (P) | 58.30         |
| 4                                | No.2 Cement TK (S) | 58.30         |
| <b>TOTAL:</b>                    |                    | <b>233.20</b> |

UPDATED: 15-Mar-2016

[ ALL INFORMATION ARE BELIEVED TO BE ACCURATE AT THE TIME OF PRINTING ]

THIS TECHNICAL BRIEF SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE

