

# **ANCHOR HANDLING TOWING**

## ***Eka Samudra 501***



Eka Nusantara Line (ENL) is the Owner and Operator of the **AHT Eka Samudra 501**. Joined with our ENL fleet in first quarter of 2012, **OVID approved**.

**AHT Eka Samudra 501** equipped with 2 x 2575 BHP Main Engine, and 3 x 245 KW Auxiliary Engine, 65 Tons Bollard Pull, 45.0 meters long by 12.6 meters wide Anchor Handling Towing tug, has maximum draft 4.5 meters with 190 m<sup>2</sup> clear deck area. She can accommodate up to 22 personnel on board having all cabins are fully air conditioned.

This vessel was designed to support marine offshore operations (towing, anchor handling operations, etc).

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## **PT. EKA NUSANTARA LINE**

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# Specifications

## Anchor Handling Towing - Eka Samudra 501

### MAIN PARTICULARS

- Class Notation : ✳ A1 (E) Towing Vessel  
✳ AMS ✳ AH, ½ Fifi
- Class : Dual Class BK1 & ABS
- Year Built : 2012
- Flag : Indonesia
- GRT/NRT : 883 T / 265 T
- Call Sign /Official No. : POIG
- IMO : 9596351
- Length Overall : 45.00m
- Length Waterline : 43.50m
- Breadth Moulded : 12.60m
- Depth Moulded : 5.30m
- Draft Designed/Max. : 4.00m / 4.50m

### PERFORMANCE

- Maximum Speed : 12.0 knots @100% MCR
- Type of Fuel : MDO
- Endurance : 30 days (approx)

### MACHINERY & PROPULSION

- Main Engines : 2x 2575BHP @ 1600 rpm  
Caterpillar CAT3516B-HD
- Steering Gear : 2x4.4t-m, 2x350 Rudder Angle
- Generator : 3 x 245kW, 415/3/50Hz,  
Cummins QSM 11-DM
- Emergency Genset : 1 x 80kW, 415/3/50Hz
- Bow Thruster : 1 x Electric Driven FPP 370kW
- Propellers : 2x 2.7m Ø FPP  
4 Bladed Ni-Al Bronze
- Rudders : 2x semi balanced hanging

### CAPACITIES (preliminary)

- Fuel Oil : 450m<sup>3</sup>
- Fresh Water : 220m<sup>3</sup>

### PUMP DISCHARGE RATES

- FO Transfer : 1x18m<sup>3</sup>/hr @ 18m head
- FO Cargo : 1x50m<sup>3</sup>/hr @ 60m head
- FW Cargo : 1x50m<sup>3</sup>/hr @ 60m head
- Bilge & Dirty Oil : 1x7m<sup>3</sup>/hr @15m head
- Bilge & Ballast : 1x50m<sup>3</sup>/hr @60m head

### ACCOMMODATION

- Single Berth : 4x1 man cabin = 4 men
- Double Berth : 9x2 men cabin = 18 men
- Total Complement : 22 men
- Hospital : 1 man

*All cabins are fully air conditioned and completed with sewage treatment plant of submerged biological filter treatment type for cap. 22 men*

### DECK EQUIPMENT

- Capstan : 2x 5mt @ 15m/min
- Tugger Winch : 2x 10t @ 10m/min
- Stern Roller : Dia. 4,185mX1,8m @ 200 tons SWL  
c/w bearings
- Anchor Windlass : 1x Electro-Hydraulic with  
Twin Gypsy suit for 34mm Ø  
Stud Link Chain
- Shark Jaw : 1 set "Karm Fork" SWL 300 tons
- Towing Pin : 2x "Karmoy" SWL 200 tons
- Deck Crane : 3 tons SWL
- Bow Anchors : 2 units Stockless Bower
- Bow Anchors Chain : 605m total length @ 34mm Ø  
Grade 2 Stud Link Chain

### DECK

- Deck Strength : 5.0 tons/m<sup>2</sup>
- Clear Deck Area : 190m<sup>2</sup>

### RADIO & NAVIGATION EQUIPMENT

- GMDSS : Sea Area A1+A2+A3 (Inmarsat)
- SSB : 1x Furuno FS-1570
- GMDSS Portable VHF : 3x McMurdo R2
- Inmarsat "C" : 1x Furuno Felcom 15
- VHF : 1x Furuno FM-8800D
- Radar : 1x Furuno FAR-2XX7
- EPIRB : 1x McMurdo E5
- Echo Sounder : 1x Furuno FE-70
- Gyro Compass : 1x Ryttheon
- AIS : 1x Furuno FA-150
- Magnetic Compass : 1x Raytheon 110-233 NG002
- Speed & Distance : 1x Furuno DS-80
- Navtex Receiver : 1x Furuno NX-700A
- GPS : 1x Furuno GP-150
- Weather Facsimile : 1x Furuno FAX-408
- SART : 1x McMurdo S4

### FIRE FIGHTING EQUIPMENT

- Fire Fighting Pump : 1x 1350m<sup>3</sup>/hr,  
model SFP 250x350 HD
- GS & Fire Pump : 1x 50m<sup>3</sup>/hr @ 60mH
- Emergency Fire Pump : 1x 25m<sup>3</sup>/hr @ 60mH

### TOWING / ANCHOR HANDLING EQUIPMENT

- Bollard Pull (static) : 65.0 ton @100% MCR (approx)
- Towing Winch : 1x100 tonnes, Hydraulic,  
Double Drum Water Fall,  
Line Pull Brake Holding 150ton  
1st layer for each drum
- Drum Full Ratings : max 80t @1st speed for 5 min  
max 40t @2nd speed for 5 min  
max 20t @3rd speed for 5 min
- Wire Capacity : 52mm Ø x 1000m

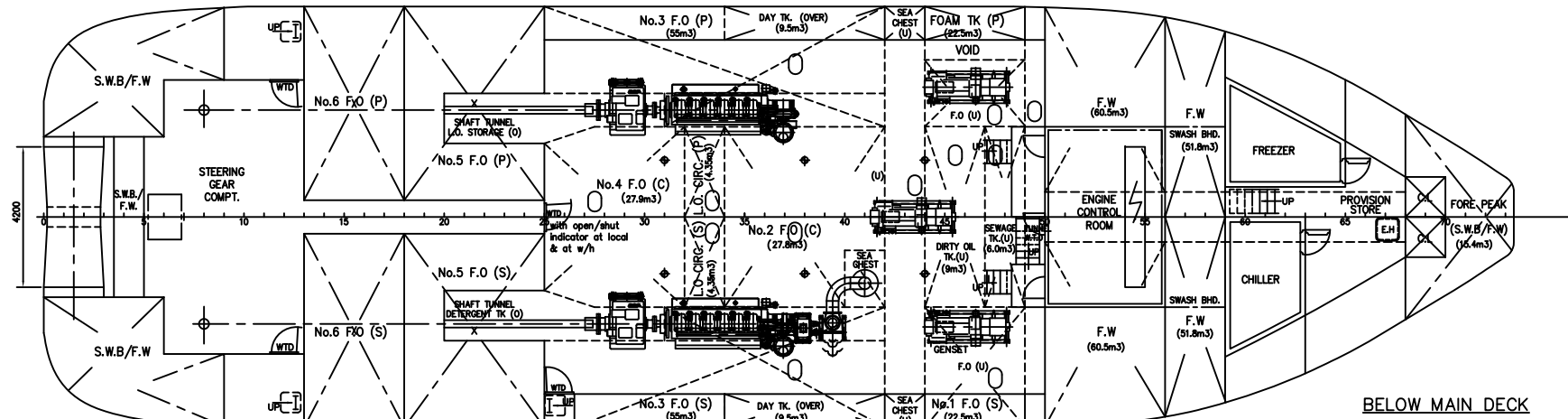
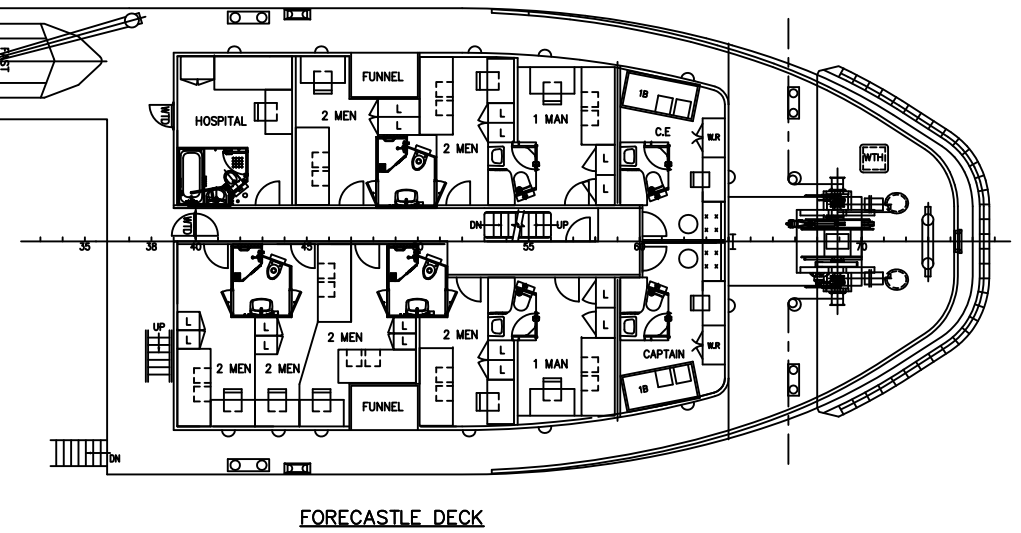
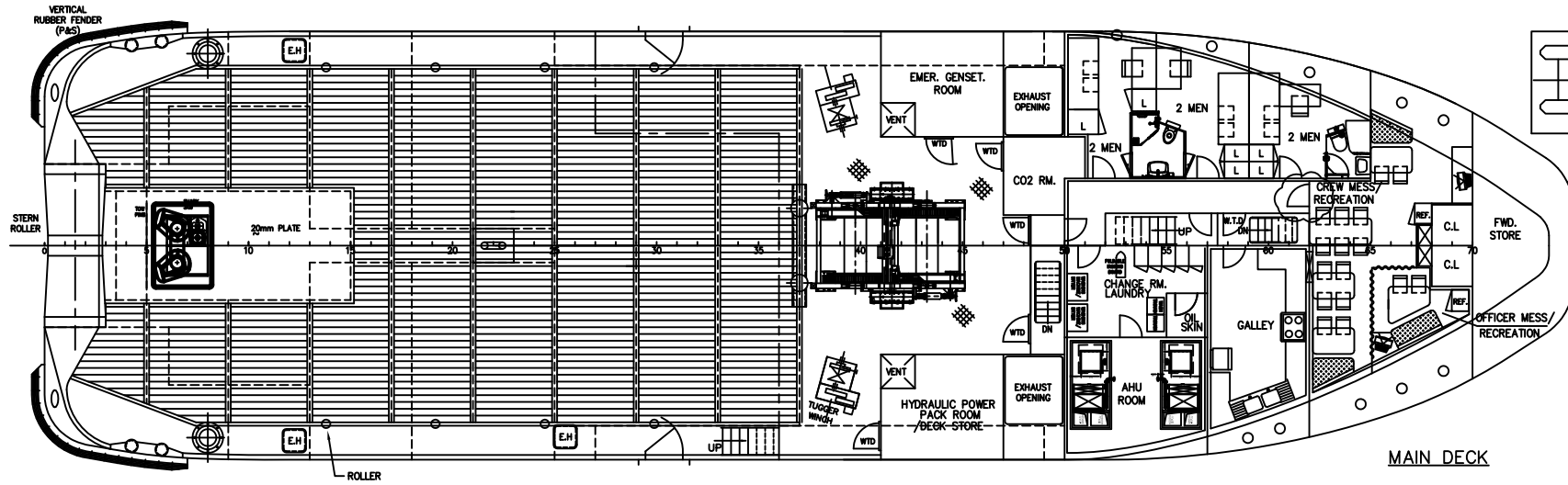
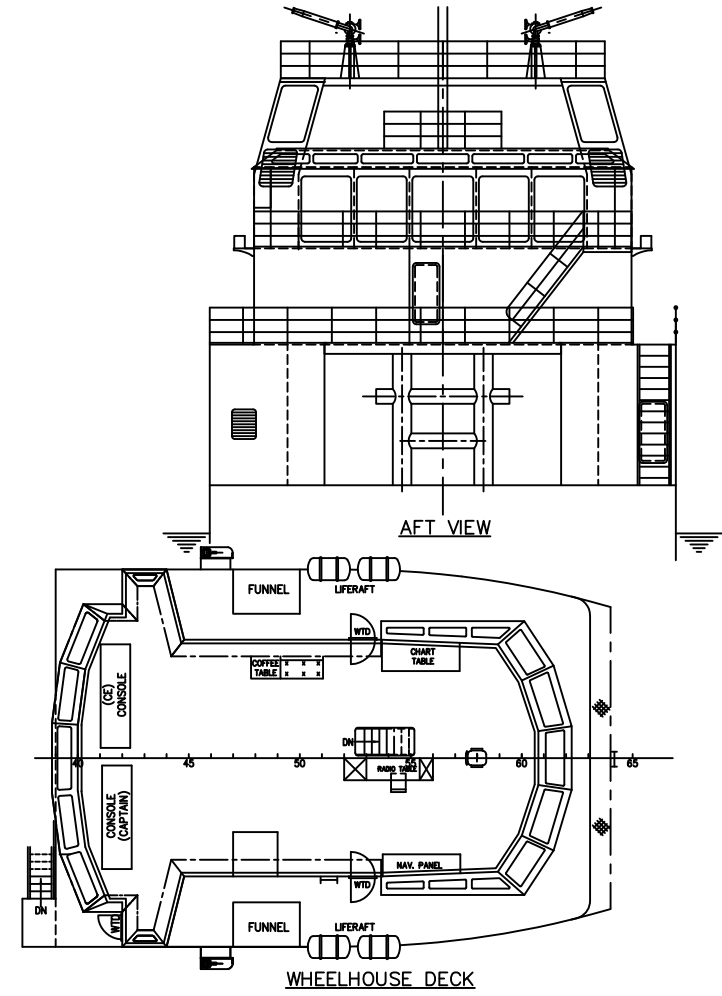
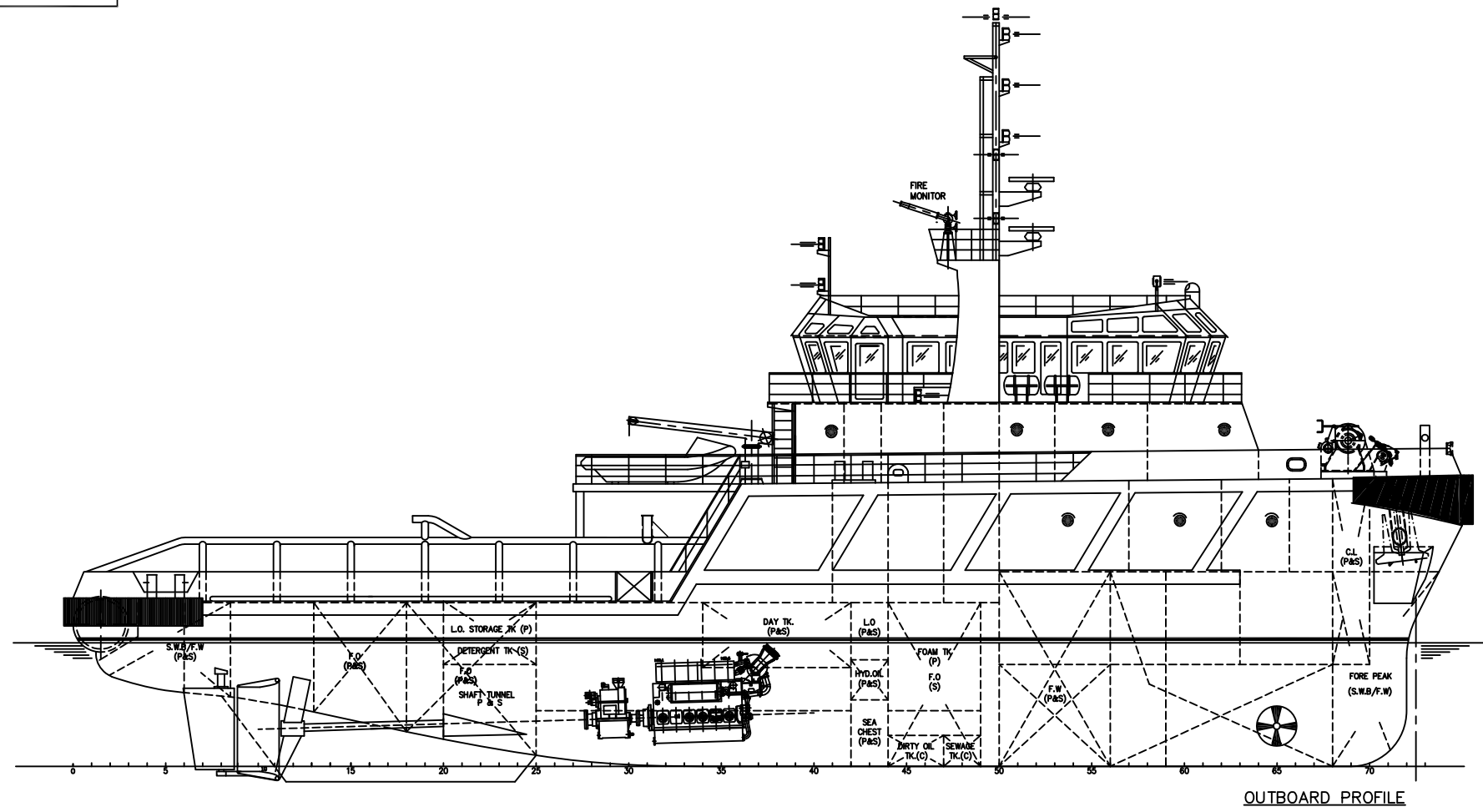
### LIFE SAVING EQUIPMENT

- Life Jacket : 27 units
- Lifebuoy : 16 units
- Rescue Boat : 1 x 6 person cap.  
c/w Outboard Motor & Davit
- Immersion Suit : 20 units
- Inflatable Life raft : 4 x 25 men cap. each
- Stretcher : 1 unit (Paragraud Rescue)
- Oxygen Resuscitator : 1 set c/w Oxygen Cylinders &  
2 Spare Cylinders

*This technical specification sheet is subject to change without prior notice*

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**PRINCIPAL PARTICULARS**

LENGTH O.A	45.00m
LENGTH W.L	43.50m
BEAM MLD.	12.60m
DEPTH MLD.	5.30m
DRAFT DESIGNED/MAX.	4.00m/4.5m
COMPLEMENT	22 MEN

图号 (图号) 号  
 日期??号  
 底??号  
 日期??号

船?社	ABS	DESIGN STAGE	???
CLASS	45m ANCHOR HANDLING TUG	船号	SH007
??	??	SHIP NO.	SH007-H-00-001
DESIGNED	??友	重量	1/1
CHECKED		WEIGHT	(kg)
VERIFIED		比例	1:100
APPROVED		SCALE	
DATE			

General Arrangement

POET (CHINA) SHIPBUILDING & ENGINEERING P&E LTD