



**PT. Pelayaran Eknuri Indra Pratama**

**AHTS 80 Metric Ton Bollard Pull**



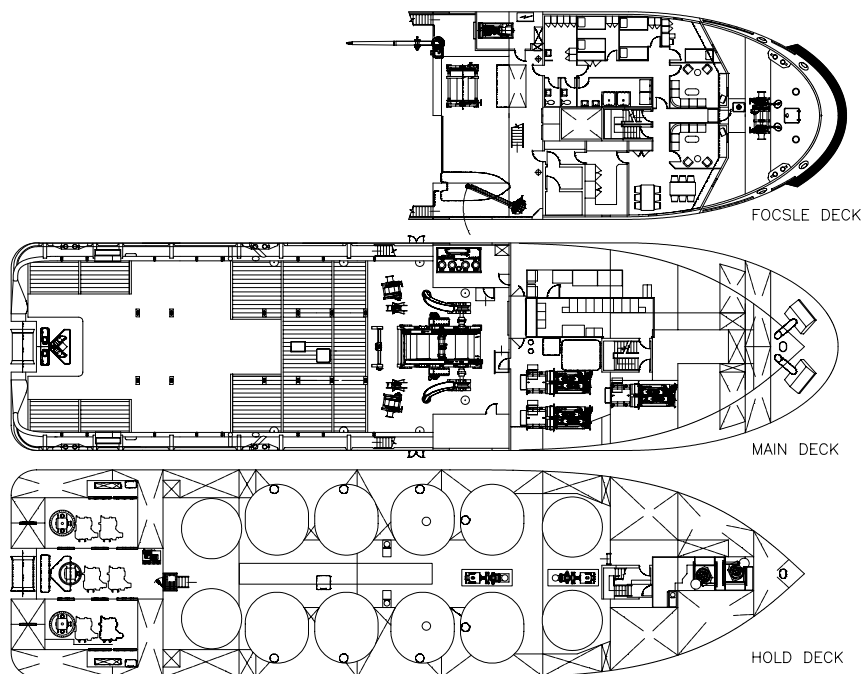
Designed in conjunction with Guido Perla & Associates of Seattle, Washington.

Environmentally friendly diesel electric propulsion uses less fuel than conventional direct drive systems and produces far less pollution.

Liquid mud tank capacity and delivery capabilities typically found only in much larger vessels. SURF MITRA AHTS will be equally at home serving shallow water ports or deep-water installations.

The fully redundant dynamic positioning class II gives her an exceptional maneuverability.

In addition, this AHTS is classed Fi-Fi I.



**ANCHOR HANDLING TUG SUPPLY VESSEL**

## **REGISTRATION**

Vessel Name: **SURF MITRA**  
Type: **Anchor Handling Tug Supply Vessel**  
Year: **2010**  
Owner: **PT Surf Marine Indonesia**

Builder: **Zhejiang Shipbuilding-China**  
Class: **ABS A1 E Towing vessel, Offshore support and anchor handling, AMS, DPS-2, Fi-Fi 1.**  
Flag: **Indonesia**

Updated: 21-12-2010

# TECHNICAL SPECIFICATIONS AHTS 80 Metric Ton Bollard Pull

## ■ MAIN PARTICULARS

### DIMENSIONS

Length overall:	59.78 m
Breadth moulded:	15.00 m
Depth:	5.50 m
Draft:	4.30 m
Deadweight:	1,433 t
Bollard pull:	80.25 t
Gross tonnage:	1,733

### CAPACITIES

Deck area:	( 27,50 x 12,40 m ) 340 m <sup>2</sup>
Deck cargo:	600 mt
Fuel oil:	606 m <sup>3</sup>
Drill/water/ballast:	458 m <sup>3</sup>
Fresh water:	354 m <sup>3</sup>
Liquid mud / Brine:	651 m <sup>3</sup>
Dry bulk/Cement:	156 m <sup>3</sup>
Ballast water:	117 m <sup>3</sup>
Foam:	14.5 m <sup>3</sup>

### DELIVERY RATES

Fuel oil:	150 m <sup>3</sup> /h at 7 bars
Fresh water:	150 m <sup>3</sup> /h at 7 bars
Liquid mud:	2 x 150 m <sup>3</sup> /h at 7 bars
Dry Bulk/Cement:	50 t/h at 6 bars
Liquid mud tanks fitted with agitators and fixed washing system	

### ACCOMMODATIONS

Accommodations for:	20 pers
Single cabins:	4
2 men cabins:	4
4 men cabins:	2
Mess / Day rooms, Laundry, Galley, stores, Office	
Fully air conditioned	

## ■ MACHINERY / PERFORMANCE

### PROPULSION - MACHINERY

Main generators:	3 x 1,865 kW
Main propulsion:	2 x 1,685 Z Drive 360 degrees
	1 x 1,685 Z Drive fixed thruster
Bow thrusters:	2 x 560 kW
Emergency/ harbour generator:	1 x 180 kW

### SPEED / CONSUMPTION

Maximum speed (100%):	24 m <sup>3</sup> /day at 13 knots
Service speed (80%):	19 m <sup>3</sup> /day at 12 knots
Economic speed (50%):	10 m <sup>3</sup> /day at 9 knots

## ■ EQUIPMENT & ELECTRONICS

### DECK EQUIPMENT

Main winch:	2 drums
in Waterfall arrangement	
Rated pull:	200 t at 0-8.5 m /min
Brake holding load:	250 t
Drum size:	900mm dia x 1800m length
Windlass:	1
Tuggers:	2 x 10 t
Deck provisions crane:	2t @ 6.5m reach

### SAFETY EQUIPMENT

Fire Fighting (Fifi 1) - 2 pumps of 2,400 m <sup>3</sup> /h	
- 2 monitors of 1,200 m <sup>3</sup> /h	
MOB boat with davit	
Life saving arrangement	
Stand by rescue equipment	

### ELECTRONICS

#### NAVIGATION / COMMUNICATION

2 radars
1 radio system compliant with GMDSS A3

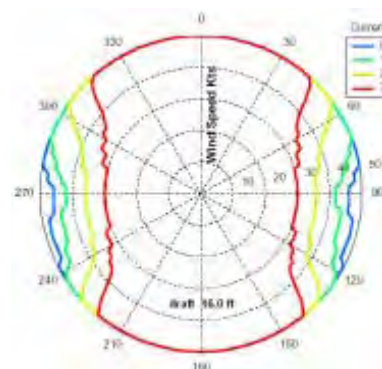
### DYNAMIC POSITIONING SYSTEM (Class II)

ABS classed DP2 redundant positioning system comprising:

- 2 DGPS,
  - 1 laser reference unit,
  - 1 independent joystick system,
  - Sensors and monitoring as per class II requirements.
- Capability plot.  
(All thrusters 100%)

Current Speed

0.0 Kts
1.0 Kts
2.0 Kts
3.0 Kts



*All particulars believed to be correct but not guaranteed*