



# 3200HP AZIMUTH STERN DRIVE (ASD) TUGBOAT

Designed for push-pull, harbour assisting and escort towing operations. Safe and efficient

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All welded steel construction vessel with twin diesel engines and twin Z-drive propellers in nozzle.

Length Overall	33.36 m
LBP	28.45 m
Breadth Moulded	10.50 m
Depth Moulded	5.20 m
Design Draft	4.00 m
Design Speed	12 knots
Complement	12 person
Gross Tonnage	~ 472 tonnes
Net Tonnage	~ 172 tonnes



## NOTATION: BV CLASS

I + Hull + Mach Tug,  
Tropical Zone - Temporary  
Unrestricted Navigation,  
Inwater Survey

FLAG: INDONESIA



## MAIN ENGINE

YANMAR 6EY22AW  
Output 2 x 1180kW  
900RPM IMO TIER-II  
COMPLIANCE

## PROPULSION

SCHOTTEL SRP 340FP  
4-BLADES Z-PELLER

## AUXILIARY ENGINE

CATERPILLAR C7.1  
Output 2 x 118eKw 1500RPM

CATERPILLAR C4.4 (HARBOUR)  
Output 1 x 51eKw 1500RPM



## BOLLAR PULL CAPACITY

AHEAD 38 TONNES  
ASTERN 32 TONNES



# 3200HP ASD TUGBOAT

**Compact design for operation efficiency.  
Provided with external firefighting.**

## TANK CAPACITY

Marine Diesel Oil Tank	118.0 m <sup>3</sup>
Fresh Water Tank	40.8 m <sup>3</sup>
Water Ballast Tank	
Lube Oil Tank	136.6 m <sup>3</sup>
Foam Tank	13.0 m <sup>3</sup>
Oil Dispersant Tank	8.2 m <sup>3</sup>
Sludge/Dirty Oil Tank	8.5 m <sup>3</sup>
Bilge Holding Tank	6.0 m <sup>3</sup>
	6.0 m <sup>3</sup>

## EXTERNAL FIRE FIGHTING

1/2 Class FIFI w/ Water Curtain System  
2 x 700 m<sup>3</sup>/hr pump, 2 x 600m<sup>3</sup>/hr fire monitor

## DECK MACHINERY

### **Hydraulic Windlass**

40 kN, double gypsy for 22mm Chain Dia

### **Deck Crane**

Foldable Boom Crane 50 kN @ 5 mtr and 20 kN @ 9 mtr

**Capstan** Hydraulic Vertical Capstan 50 kN speed 10-15 mtr/min

**Anchor** 2 x 660 Kg Stockless Bower Anchor

**Chain cable** 2 x 22mm (total 302.5 meter)

**Towing Line** 3 x 120 mtr Polypropylene Rope, Min Breaking Strength 59 kN

## NAVIGATION

GMDSS A1 +A2