



25m. / 40t . ASD HARBOR & ESCORT TUGBOAT Fi-Fi 1

Purpose / Description: The ASD 25m/40t tugboat is a modern twin Z-drive (azimuth rudder thrusters) in nozzles driven tugs, suitable for terminal ship assist and escort operations. Designed and equipped with high quality marine components and equipments. Tugboat is designed to provide effective escort, ship-assist works with Fi-Fi 1 ability. The tug can be configured as a coastal voyage with full accommodation.

Specifications:

Length (LOA) : 25.50 metres
 Beam (moulded) : 8.80 metres
 Depth to main deck (moulded) : 4.00 metres
 Draft (maximum) : 3.50 metres
 Displacement tonnage : 410.00 tons

Fender System :

Fendering to be "W" and/or soft-loop on bow and stern , tires or "D" type rubber on sheer.

Classification Society and Certificates:

ABS, LRS,BV, GL, RMS or RINA
 I + HULL + MACH + AUT-UMS , ICE-1A
 TUGBOAT, COASTAL AREA

Accommodation:

2 Single cabins for officers
 2 crew cabins for 6 persons + 1 x spare and laundry space
 Wheelhouse (360 deg visibility)
 Daily living room with TV
 Galley
 WC and shower facility
 Heating by hot water circulation
 Chiller type A/C with sep fan coils, cooling/heating in all areas

Propulsion and Main Engine:

2 x 1750 hp diesel at 1800 rpm
 2 x Azimuth thrusters, propeller dia 1800 mm
 2 x 4-blade FPP Kaplan type in nozzles

Navigation Equipment:

Radar 48 nmiles (combined chart plotter and GPS)
 Gyro compass (non-IMO)
 Magnetic Compass
 dGPS & Plotter
 Autopilot
 AIS, Navtex
 Echo sounder
 SART, EPIRP
 2 x Searchlight 1000 w (remote)
 Navigation lights
 Horn / Siren

Auxiliary engines :

2 x 85 kW diesel generators at 1500 rpm 380 V / 50 Hz

Speed, Performance & Range:

Speed (%90MCR) : 13.00 knots
 Bollard pull (at zero speed) : 40.0 tonnes
 Range (at service speed) : 1.000 n. miles

Communication Equipment:

GMDSS – A1 compliant
 VHF / FM (DSC) 25w
 MF/HF – SSB 150 w
 2 handy VHF-GMDSS radio 2w
 Intercom & announce system
 CCTV
 Satellite TV antenna

Tank Capacities:

Fuel : 60000 litres
 Freshwater : 15000 litres
 Foam capacity : 8000 litres
 Ballast water : 36000 litres
 Clean Oil : 1200 litres
 Hydraulic Oil : 800 litres
 Dirty oil and oily water : 3500 litres
 Sewage : 3600 litres

Deck Equipment:

Hydraulic anchor windlass with capstain
 Hydraulic towing winch : 1 x 45t pull and 90t brake power
 (600m steel rope dia 40mm spoiling device)
 Towing winch remote control fm wheelhouse
 Monitoring of strength and line length
 Hydraulic towing pins : 2 x 8"
 Towing hook (hydraulic, disc type) : 1 x 45 ton
 Twin mooring bollards : 6
 Forward and aft towing bollards
 Telescopic, knuckle type crane : SWL 2 ton at 10m

Internal Fi-Fi and Life Saving Appliances:

1 x RHIB type MoB for 5 persons and outboard motor
 1 x davit electric driven SWL 1,0t at 5,0 m for MoB
 2 x 10 capacity inflatable life raft
 Life jackets and buoys
 Fixed CO2 system for Engineer room

Others :

M-Engines are 24DC battery start & aut-charge
 Shore connection with auto-battery charging
 Jel type batteries sets (for M/Es, serv, gen) : 4 groups
 Service air compressors with rev tank, dryer : 1 set 8 bar

General Specifications:

Transverse system welded steel hull construction
 One continuous deck with step
 Raised bow
 High seaworthiness and manoeuvrability
 All navigation and illumination is 24 DC volt
 Marine grade aluminium constructed wheelhouse and mast
 360 deg visibility at wheelhouse with all heated windows
 Wipers heavy duty type for all windows of wheelhouse
 Folding type mast by hydraulic system.
 Deck strengthened for 3 t/m2 homogenous loading.
 Approved monitoring and alarm system for Eroom
 Remote operated valves and clutches for ext fi-fi system.

External Fire Fighting Equipment :

M/E driven fire pump : 2x1300 m3/h 13 bar
 Foam & water monitor (remote) : 2x1200 m3/h
 Self-protection waterspray (umbrella)

