

TOSCANA

ESCORT TUG



Summary

High performance towing and escort tug designed for efficient ship maneuvering and assistance to very large ships. Developed to offer truly superior ship-handling and seakeeping performances, this unit is able to docking and escorting ships in more extreme conditions than ordinary vessels.

Highly maneuverable, fully automated and fitted with reliable equipment, this tug is provided with redundant machinery in order to avoid any downtime in operations. The high bollard pull rating compared with the limited dimension of the hull makes this vessel a particular design capable to operate at any port/terminal in every condition.

In addition to the basic functions explained above, this tug can be easily deployed also for additional services, among which:

- Fire fighting
- Antipollution and environment control
- Salvage operations
- Coastal and deep sea towing



CONSTRUCTION and CLASSIFICATION

TYPE	Escort tug
OWNER	Fratelli Neri S.p.A.
DELIVERY	2016
BUILDER	Damen Galati Shipyard
DESIGN	Damen ASD Tug 2913
FLAG	Italy
PORT OF REGISTRY	Genova
IMO NUMBER	9807827
CLASSIFICATION	Bureau Veritas I ✕Hull ✕Mach, Unrestricted Navigation, Tug – Escort Tug, Fire Fighting Ship 1, Waterspray, Oil Recovery Ship – Second Line, Supply Vessel – Oil Product (FP>60°C), IWS, ✕AUT-UMS

MAIN CHARACTERISTICS

LENGTH OVERALL	29.10 m
BEAM OVERALL	13.23 m
DEPTH AT SIDES	5.35 m
DRAUGHT (AFT)	5.60 m
GROSS TONNAGE	421

TANK CAPACITIES

FUEL OIL	181.7 m ³ (incl. double hull tanks)
FRESH WATER	34.2 m ³
LUBE OIL	4.6 m ³
DIRTY OIL	2.8 m ³
SLUDGE	2.4 m ³
BILGE WATER	5.2 m ³
OIL RECOVERY	74.0 m ³ (if in use, max. fuel oil is 97.7 m ³)
FOAM	9.2 m ³
DISPERSANT	6.1 m ³
SEWAGE	5.3 m ³

PERFORMANCES

SPEED AHEAD	13.0 kts
BOLLARD PULL AHEAD	80 t
BOLLARD PULL ASTERN	70 t

PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar 3516C TA HD / D, 2025 kW at 1800 rpm each
PROPULSION	2x Rolls Royce US255 P30 FP
CLUTCHES	Rolls Royce "built in" slipping clutches

AUXILIARY EQUIPMENT

GENERATOR SETS	2x Caterpillar C7.1 TA, 100 ekW each, 400V/50Hz
FUEL OIL PURIFIER	Westfalia OTC 3-02-137, 1600 l/h
COOLING SYSTEM	Box cooling + anti growth system
SEWAGE TREATMENT	Hamann Supermini Plus
FRESHWATER MAKER	Hemwater HEM25/1300F3

DECK EQUIPMENT

ANCHOR	2x 495 kg HHP
ANCHOR/TOWING WINCH	DMT hydraulically driven two speed winch with double drum and warping head, pull 38 ton at 12.2 m/min, slack rope speed 37.8 m/min, 200 ton brake
AFT WINCH	DMT hydraulically driven two speed winch, pull 38 ton at 12 m/min and reduced pull at 38 m/min, 200 ton brake, with spooling device
TOWING HOOK	2x Mampaey, disc type 100 t SWL, fore+aft
CAPSTAN	DMT, 5 ton at 15 m/min, electrically driven
DECK CRANE	Heila HLM 10-3S, lifting capacity 0.8 ton at 10.36 m
FENDERING	D-fender at sides, cylinder fender at transom corners, D-fender at stern, cylinder bow fender and W-block fender

NAVIGATION and COMMUNICATION EQUIPMENT

RADIO STATION	GMDSS A1+A2+A3
COMPASS	2x Magnetic Kotter (one spare)
GYROCOMPASS	Anschutz Standard 22
ECHO SOUNDER	Furuno FE-800
SPEED LOG	Furuno DS-80
SEARCHLIGHTS	2x Norselight 2000 W
VHF	2x Sailor Compact 6222, 25 W
RADAR	Furuno FAR 2117 with 19" LCD screen
GPS	Furuno GP-170
AUTOPILOT	Simrad AP70
SSB	Furuno FS-1575
INMARSAT C	2x Furuno Felcom 18
NAVTEX	Furuno NX-700A
AIS	Furuno FA-170
EPIRB	Jotron, Tron-60S
SART	Jotron, Tron Sart 20
ANEMOMETER	Windsonic OMC 115

ACCOMMODATION

Accommodation for 10 persons, insulated and finished with durable modern linings, acoustical Dampa ceiling in the wheelhouse, floating floors and air conditioned. Available 6 cabins, galley, mess/ day room, switchboard room, dry store, changing room, eng. workshop and sanitary facilities.

ADDITIONAL EQUIPMENT

FIRE FIGHTING SET	FiFi 1 Class fire fighting system with dedicated diesel engine Caterpillar C32 ACERT driving a 2800 m ³ /h pump, 2x 1200 m ³ /h foam/water monitors, waterspray system
OIL RECOVERY EQUIPMENT	Oil booms on hydraulic reel Disc/brush floating skimmer with 50 m ³ /h transfer capacity Dispersion pumpset with 2 spraybooms Portable gas detectors

