

ANTIGNANO

LNG TERMINAL / ESCORT TUG



Summary

High performance towing and escort tug designed in response to a worldwide demand for efficient ship-assist/oil and gas terminal support. Developed to offer truly superior ship-handling and seakeeping performance at exposed terminal locations, docking and escorting ships in more extreme sea states 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 leading case in its market.

Specifically devoted to escort operations and LNG offshore terminal support, fitted with Ex-Safe electrical equipment on deck, this tug can be easily deployed also for additional services, among which:

- Fire fighting
- Anchor handling/ supply activities
- Antipollution and environment control
- Salvage operations
- Transportation of spares/cargo to and from offshore terminal
- Coastal and deep sea towing



CONSTRUCTION and CLASSIFICATION

TYPE	ASD Offshore Terminal Escort Tug
OWNER	Fratelli Neri S.p.A.
DELIVERY	2017
BUILDER	Rosetti Marino (Italy)
DESIGN	RAstar 3200W, Robert Allan Ltd
FLAG	Italy
PORT OF REGISTRY	Genova
IMO NUMBER	9779252
CLASSIFICATION	RINa I ✕Hull ✕Mach, Tug – Escort Tug, Towing, Fire Fighting Ship 1, Waterspray, IWS, Oil Recovery Ship (FP<60°C), Salvage, ✕AUT-UMS, ✕AUT-PORT, SYS-NEQ1, Unrestricted Navigation

MAIN CHARACTERISTICS

LENGTH OVERALL	32.50 m
BEAM OVERALL	13.40 m
DEPTH AT SIDES	5.43 m
MAX. DRAUGHT (AFT)	6.20 m
GROSS TONNAGE	499

TANK CAPACITIES

FUEL OIL	208 m ³
FRESH WATER	29 m ³
LUBE OIL	5 m ³
HYDRAULIC OIL	2.8 m ³
RECOVERED OIL	53 m ³
OILY WATER	10.7 m ³
FOAM	9.7 m ³
SLUDGE	4.6 m ³
DISPERSANT	4.6 m ³
SEWAGE	9.5 m ³

PERFORMANCES

SPEED AHEAD	13.5 kts
BOLLARD PULL AHEAD	90 t min.
BOLLARD PULL ASTERN	85 t min.

PROPULSION and MACHINERY

MAIN ENGINES	2x MAN 7L27/38, 2555 kW at 800 rpm
PROPULSION	2x Schottel SRP 4000 CP
GENERATOR SETS	3x Man Lindenberg D2866LXE30, 150 ekW each, 400V/50Hz
BOW THRUSTER	Schottel STT 170 T-FP, 250 kW
COOLING SYSTEM	Blokland NF box coolers
FUEL OIL PURIFIER	Alfa Laval P605
LUBE OIL PURIFIER	Westafalia OSE10, 1600 l/h
BILGE WATER SEPARATOR	Blohm+Voss, Turbulo MPB 0.5
SEWAGE TREATMENT	Techni Mini Biocon
FRESHWATER MAKER	2x Gefico AQE-2D, 1.6 t/day capacity
HVAC	Heinen Hopman, with dedicated unit for wheelhouse and switchboard room

DECK EQUIPMENT

FORE WINCH	Rolls-Royce ETWH 2500/900 double drum escort winch with warping head Rendering 139 t at 36 m/min at 1st layer Recovery 93 t at 14 m/min at 1st layer 250 t brake, Ex-Safe electrical equipment
AFT WINCH	Rolls-Royce TWH 2000/500, double drum, with spooling device and warping head. Pull 50 t at 14 m/min at 1 st layer and 200 t brake 1x Mampaey, 100 ton SWL, aft
TOWING HOOK	
TOWING PINS	MKB, 90 t SWL at 90° off CL
TUGGER WINCH	Rolls-Royce TUW 70 H, pull 7 t at 30 m/min at 1 st layer, 25 t brake
STERN ROLLER	125 t SWL
DECK CRANE	Heila HLRM 65/5S, lifting capacity 3.6 t at 14.58 m in harbor condition, 2.5 t at 14.58 m offshore (SS3)
FENDERING	2x cylindrical bow fender dia. 800 mm with water spray, D-fender at sides, W-block on transom
AFT DECK	2,5 t/m ² load capacity, with wood sheathing, cargo rail and deck fittings for 3x 20' ISO container

NAVIGATION and COMMUNICATION EQUIPMENT

RADIO STATION	GMDSS A1+A2+A3
COMPASS	2x Magnetic Kottter type (one spare)
GYROCOMPASS	Simrad GC-80
ECHO SOUNDER	Furuno FE-800
SPEED LOG	Furuno DS-80
SEARCHLIGHTS	2x Norselight
VHF	2x Furuno FM 8900S
RADAR	Furuno, S-Band FAR2137S Furuno, X-Band FAR2117
GPS	Furuno GP-170
AUTOPILOT	Simrad AP70
EXT. COMMUNICATION	Sailor FB250
ALARM & AUTOMATION	Praxis Mega Guard

ACCOMMODATION

Accommodation for 10 persons, insulated, air conditioned and fully furnished. Available 6 cabins with en suite lavatory, galley, mess room/lounge, switchboard room, dry store and laundry.

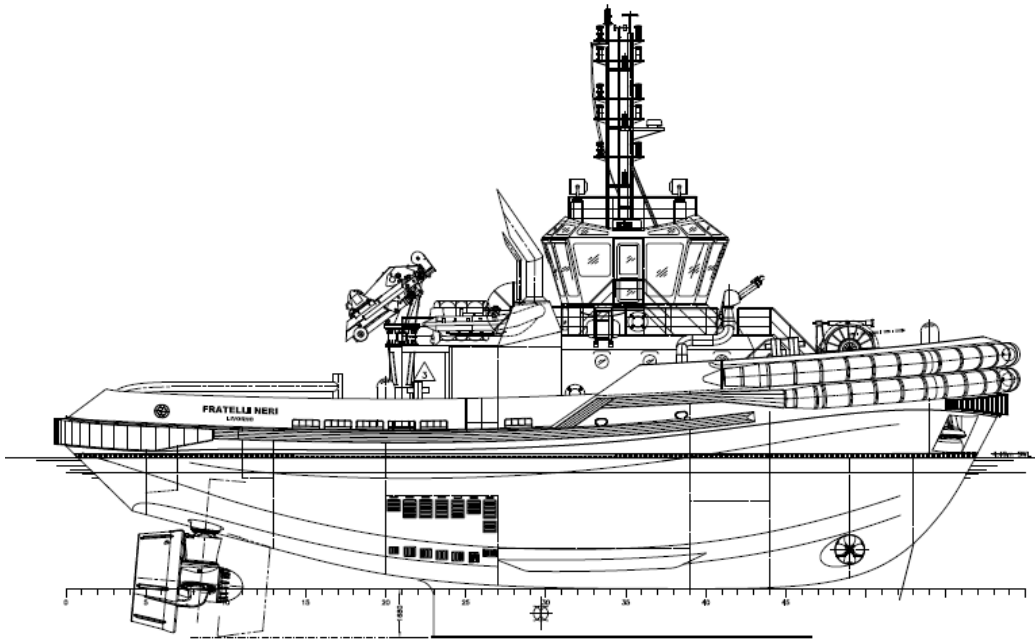
ADDITIONAL EQUIPMENT

FIRE FIGHTING	FFS FiFi 1 Class system 2x 1480 m ³ /h pump 2x 1200 m ³ /h monitors with foam Waterspray system
SALVAGE EQUIPMENT	to meet Class requirements, including 2x submersible drainage pumps, additional towline equipment, flame cutting set, 4x full divers equipment
OIL RECOVERY EQUIPMENT	Oil booms, 1.8 m height x250 m on a hydraulic reel Disc/brush floating skimmer with transfer pump of 50 m ³ /h capacity Hydraulic power pack, diesel driven, 35 kW power Oil dispersant spray booms Fixed and portable gas detectors

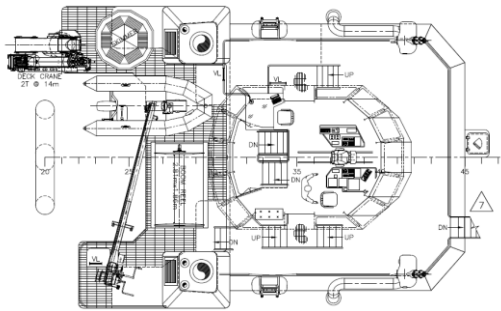
General Arrangement

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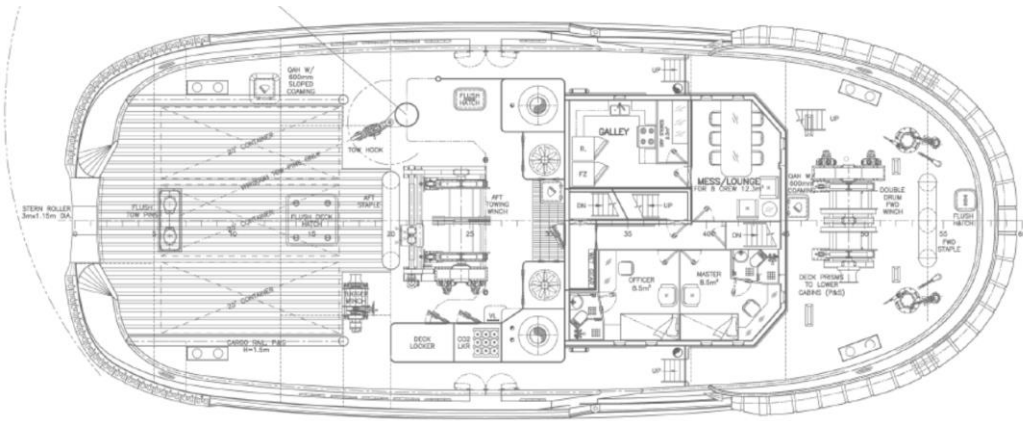
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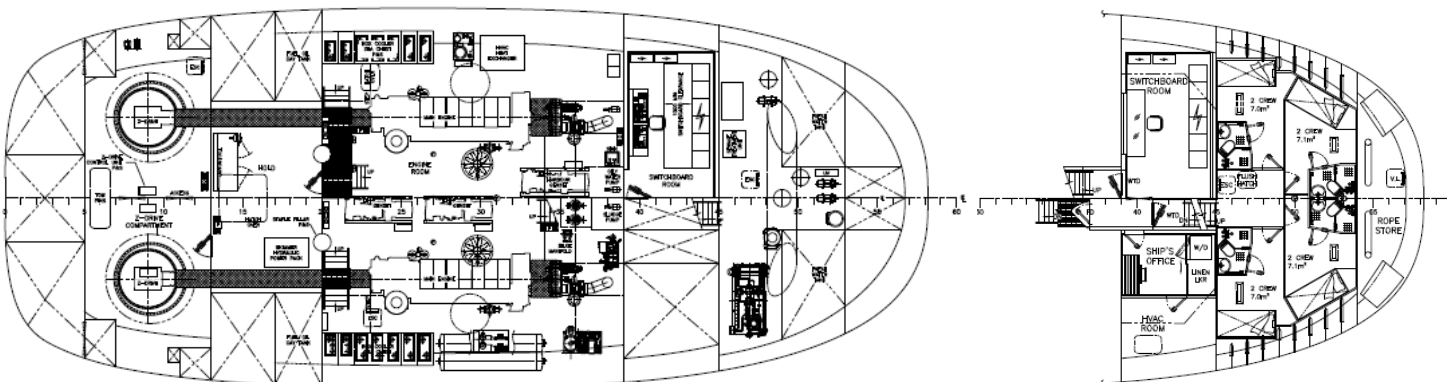
OUTBOARD PROFILE



BRIDGE DECK



MAIN DECK



HOLD PLAN

LOWER DECK

