



TRACTOR TUG **“PORTO DI LIVORNO”**

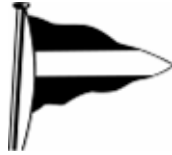


BRIEF DESCRIPTION

PORTO DI LIVORNO Type TRACTOR tug is specially designed to manoeuvre in narrow port spaces with two SCHOTTEL azimuth thrusters and deep skeg. Highly manoeuvrable, this tugboat has its drum towing winch located on the main deck aft, thus allowing to switch from towing to pushing within seconds, giving an even higher operational flexibility. It offers a fire-fighting 1 (2x 1200 cbm/hr) capability. The vessel is fitted with an automation for engine room, according to notation IAQ1, including also the remote control of the propulsion from the wheelhouse (I.E. start/stop of main engines).

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MAIN CHARACTERISTICS

LOA	23.8 meters
Breadth	12.00 meters
Breadth over all	12.03 meters
Max. Draught (extreme)	5.55 meters
GRT-Net T	267,07-14,97

REGISTRATION

Type of Vessel	Tractor Tug, IAQ1, Fire Fighting ship 1-water spraying
Year built	2007
Builder	C.N. Rosetti Marino s.p.a.- Ravenna (Italy)
CALL Sign/Rina Nr	IFPU2 / 83500
Classification	RINA 100A 1.1 , IAQ1, Fi-Fi 1 Tug , National Coastal

PERFORMANCE

Speed	12,00 knots
Direct Bollard Pull	69,02 tons =677,10 KN

PROPULSION –MACHINERY

Main Engines	2 x CATERPILLAR 3516B-HD DITA with a power of 2 x 2100 Kw at 1600 rpm
Gen Sets	3 x CAT C4.4 x 86 Kw 400V 50 Hz
Harbour Gen Sets	-----
Propulsion Units	2 x Schottel controllable pitch propellers in steerable kort nozzles
Propellers	2 Schottel propulsion units type SRP 1515 FP

ACCOMODATION

Accomodation	2 cabins for 1 officers plus spares, 1 cabin for 2 crew, total 4 persons plus 2 spares, mess galley, stores, WC's and showers
Airconditioning	Fully airconditioned, temperatures as per ISO standards,

TOWING and SPECIAL EQUIPMENT

Fore Towing winch	-----
Aft Towing Winch	C. Kraijeveld B.V. Hydraulic towing winch type KAS-20-H-TR
Hook	Mampaey quick release disk type towing hook DCX 50/65

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TANK CAPACITIES

Fuel Oil	82,3 mc + 38,6 reserve
Fresh Water	12 mc
Foam	---
Lub Oil MMEE	2,6 mc
Waste Oil	2,6 mc
Lub Oil Hydr. system	0,6 mc
Sewage /sludge	1,5 mc
Ballast	44,8 mc

ELECTRONICS

Communication	GMDSS A1 Sailor rt 5022, system 4000 JRC ncr-333
Navigation equipment	2 radar, 1 GPS, Gyrocompass, Magnetic Compass, Auto Pilot, Echo Sounder, AIS, Speed Log .

LIFE SAVING EQUIPMENT

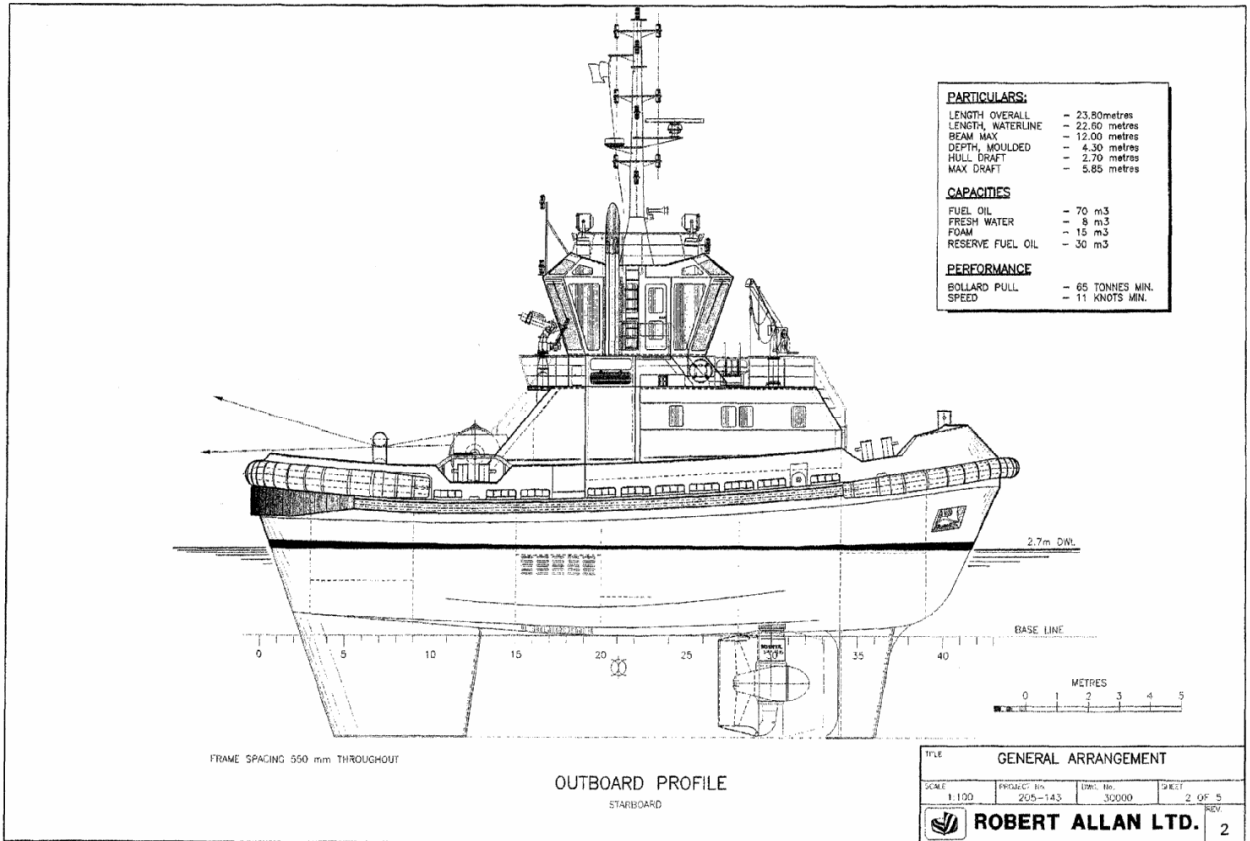
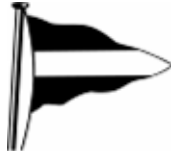
	1 rigid rescue boat , 2 x Liferaft for 16 persons, 8 life jackets, 4 life buoys, 1 MOB's, line throwers, thermal suits all SOLAS approved
Solas Boat & Crane ILO	Approved boat and crane.

FIRE FIGHTING SYSTEM Class FI FI 1

Nr 2 x monitors of 1200 cbm/hr capacity each
Fi-Fi 1 capacity with CounterFire Ltd system, water & foam

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