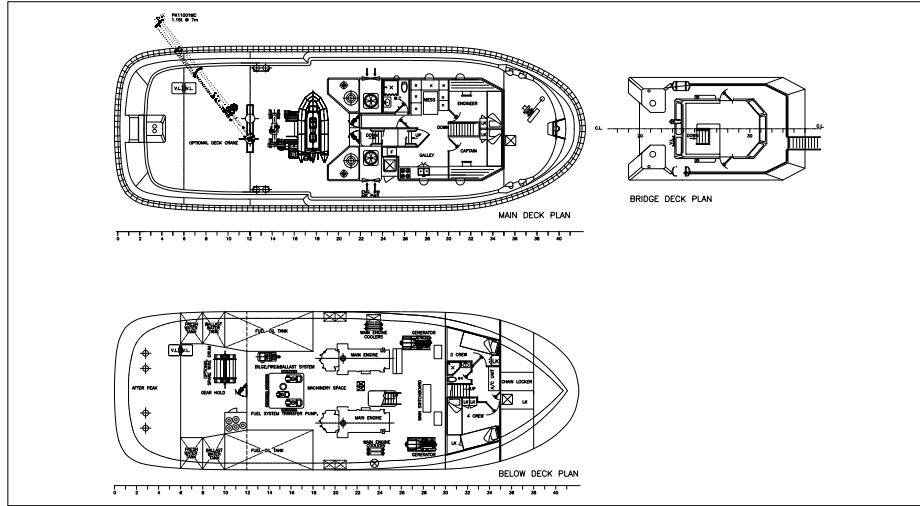
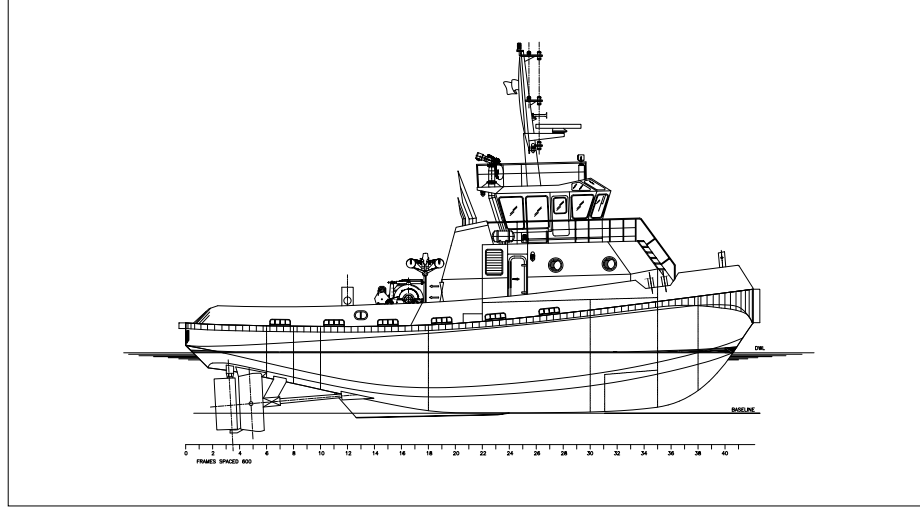


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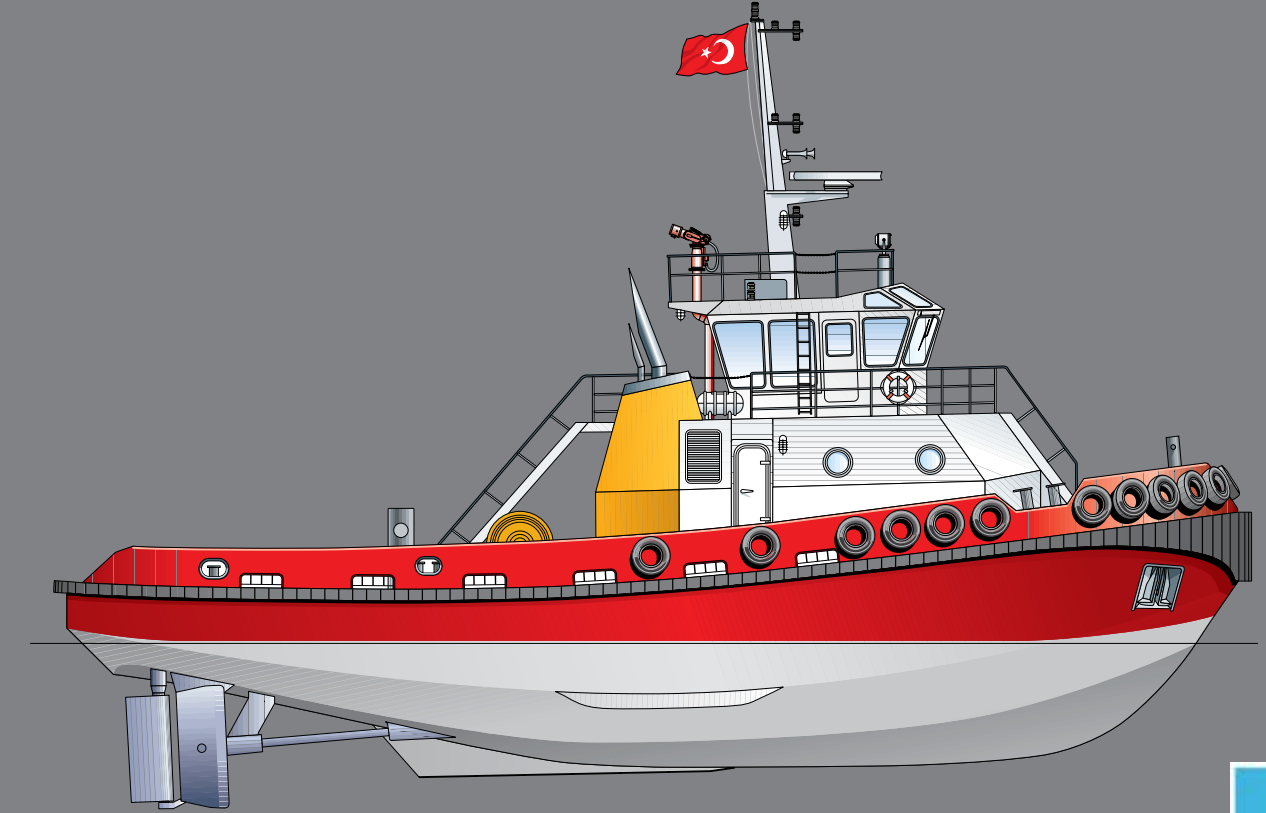
www.sanmar.com.tr

The Dogancay class tugboats designed for ship handling purposes and are also equipped with remote operated Towing Winch and Towing Pins for heavy towing purposes. They are designed for providing ship docking service as well as emergency deep sea towage in the Mediterranean and Black Sea, with the intention to provide highly versatile tug for different tasks. With remote operation devices from wheelhouse three men crew is enough for operation in coastal waters.

Propulsion is by two identical high-speed marine diesel engines, each driving through a reverse-reduction gearbox to a solid propeller located in a thrust-augmenting nozzle aft. Steering is by two sets of high aspect ratio twin rudders, one set located abaft each nozzle (Two rudders on each side).

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BUILDING FOR THE FUTURE

TECHNICAL SPECIFICATIONS

Dimensions

Length O.A.	25.25 m
Beam moulded	8.60 m
Depth moulded	4.00 m
Draft, max	4.00 m

Tank Capacities

Fuel	95 m3
Fore Peak (FW)	22 m3
Ballast	8.6 m3
Black water	3.8 m3
Oily water	3.8 m3
Foam	5 m3

Propulsion System

Main Engines	Caterpillar 3512B
Engine Power	2 x 1230 kW @ 1800 rpm
Propulsion	2 x Wartsila Kaplan type, 4 blade fixed pitch propellers with Hi-efficiency kort nozzles.
Gearbox	2 x Reintjes WAF 665

Performances

Bollardpull (Ahead)	approx 45 tons
Speed (Ahead)	approx 12 knot

Auxiliary Equipment

2 x Perkins-Sabre 4.4TWGM Generators 60kW, 380 V, 50 hz

Deck Equipment

Aft Winch	Hydraulic driven towing winch with approx 25 ton pull at 8 meter/minute. Break holding force 100 tons. Can carry 650 meter 40 mm towing wire. High capacity spool device. Rolls Royce or equal.
Towpin	Data Hydraulic
Towing Hook	Disc Type, 45 Tons SWL

Deck Equipment (Optional)

Aft Winch	Frequency controlled electrical drive towing winch with 25 tons pull at up to 9 meter / minute. Break holding force 125 tons and can carry 650 meter 40 mm towing wire. High capacity spool device Tension and length indication, constant tension. Rolls-Royce, DMT or equal.
Deck Crane	Palfinger PK 11001, Full Marine type knuckle boom crane with stainless steel piping and accessories. Capacity 0.8 ton at 9,6 meter. Class certified crane, wire, pulley, hook with overload protection.
Stern Roller	Yard supply
Towpins	Data hydraulic

Automation

Unattended machinery space according to ABS ABCU notation. Led panels at mess and chief engineer cabin. Extended operation of electrical system, essential pumps and engine room fans can be performed from wheelhouse.

Communication & Navigation

Radar, GPS, DGPS, Sounder, AIS, Chart plotter, Magnetic Compass, Autopilot, Speed Log, Bridge watch alarm. Engine Telegraph. GMDSS A2

Communication & Navigation (Optional)

Remote operation of VHF from Mess
Remote operation of VHF from Captain's cabin
Secondary Ecdis
CCTV

Accommodation

Above deck captain and engineer cabins. Mess, lounge, galley and WC & hower. Under deck, one double and one quadruple cabin, wc&shower. All cabins with desk, chair, arials for gsm and tv. Floors covered with IMO approved teak imitating covering. Very high level of quality, comfort and safety suiting the requirements of Flag Authorities such as Germany, France and UK.

Fire Fighting

650m3 / hour, 12 bar fire pump driven by m / e pto with single water and foam monitor.

Fendering

“Key Hole” type fenders cut to suit the vessels hull sides.

HVAC

All accomodation space is heated vented and airconditioned with self contained HVAC unit.

HVAC (Optional)

Secondary airconditioning at wheelhouse
Increased airconditioning package for cold climates.
Increased heating package for cold climates with hot water radiator heaters at accomodation and gasoil burning boiler, main engine and / or generator diesel pre heaters, heated windows at wheelhouse, heated window wipers, wheelhouse windows demist fans.

Sound Levels

Special care has been given to resilient mount all engines and essential pumps and hydraulic pipes. Sound levels at approx 80% engine load are below 60 dB in cabins and below 70 dB in wheelhouse and corridors and mess.

Others

Fuel seperator
Vacuum toilet
Solas boat with manual davit crane
All wheelhouse windows with wipers (6)
Engineer call system
Manual operated seachlights fore and aft
IP 67 lighting system on deck
High attenuation engine silencers
Heated floors

Heated floors on WC's (Optional)
F / W ultraviolet system F / W ultraviolet system

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Length o.a.	25.25 m
Beam moulded	8.60 m
Depth moulded	4.0 m
Draft (Max)	4.0 m3
Fuel oil	95 m3
Main engine power	2 x 1230 kW
Speed ahead	apprx 12 knots
Bollard pull ahead	apprx 45 tons

Designer:

Robert Allan Ltd

Model:

TS 25/45

Class:

ABS, +A1, +AMS, Towage Vessel, Unlimited Service