



REVERSED STERN DRIVE TUG 2513

"INNOVATION"

GENERAL

Yard number	515001
Delivery date	April 2018
Basic functions	Towing and mooring
Classification	Bureau Veritas
	I * HULL • MACH Tug Coastal Service
	AUT UMS COMF-NOISE 3, COMF-VIB 3
Owner	Damen Marine Services
Flag	The Netherlands

DIMENSIONS

Length overall	24.73 m
Beam overall	13.13 m
Depth at sides	4.95 m
Draught aft	5.50 m
Displacement	525 t
(98% consumables)	

TANK CAPACITIES

Fuel oil	77.4 m ³
Fresh water	10.2 m ³
Bilge water	6.0 m ³
Sewage	6.0 m ³
Dirty oil	2.5 m ³
Lubrication oil	2.5 m ³

PERFORMANCES

Bollard pull ahead	75.3 t
Bollard pull astern	71.2 t
Speed ahead	13.0 kn
Speed astern	12.8 kn

PROPULSION SYSTEM

Main engines	2x MTU 16V 4000 M63L
Total power	4480 bkW (6008 bhp) at 1800 rpm
Thrusters	Rolls Royce US 255
Propeller diameter	2700 mm
Forced ventilation	60.000 m ³ /h

AUXILIARY EQUIPMENT

Generator set	2x Caterpillar C4.4 TA, 81 kVA, 400/230 V, 50 Hz
General service pumps	2x Azcue CA 50/3A 20 m ³ /h at 2.35 bar
Bilge pump	Azcue CA 32/0.5 3.6 m ³ /h at 1.1 bar
Fuel pump	Azcue BR-41-10 12 m ³ /h at 1 bar
Fuel oil purifier	2x CJC, PTU3 3x FA/BLA 27/27, 1920 l/h each
Cooling system	Closed box cooling system
Fresh water pressure set	Sterling AOHA HBK 111
Hydraulic system	Main engine driven pumps

DECK LAY-OUT

Anchor	1x 360 kg Pool (High Holding Power)
Anchor winch	Electric 10 m/min
Towing winch	Hydraulically driven split drum 31 ton pull up to 11 m/min, reduced pull up to 38 m/min, 175 ton brake
Fendering	Cylinder + block bow fender, D-fender side/aft

ACCOMMODATION

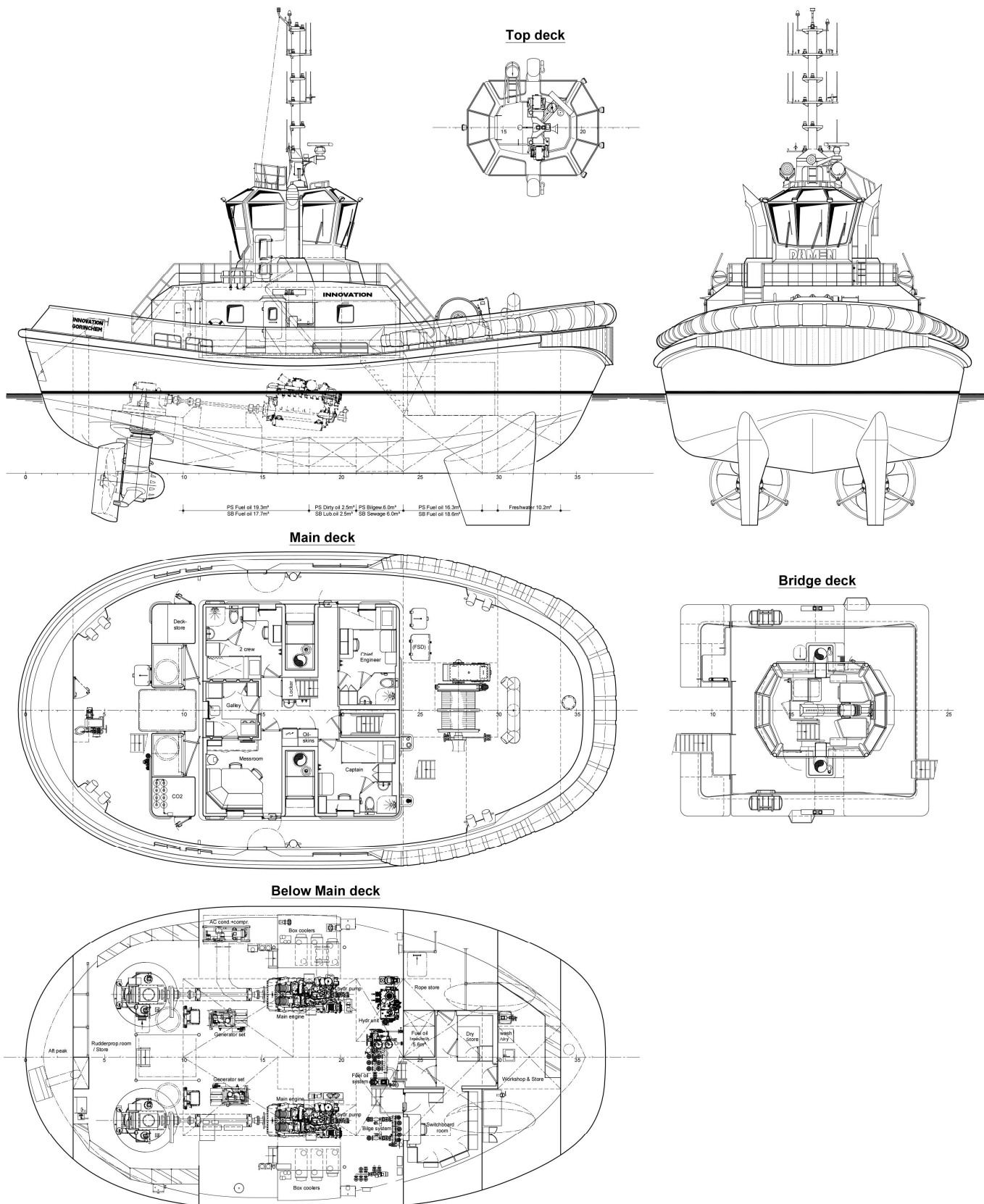
For 4 persons, completely insulated and finished with durable modern linings, sound absorbing ceiling in the wheelhouse and floating floors. Air-conditioned wheelhouse, accommodation and switchboard room. Accommodation above main deck with a captain's cabin, chief engineer's cabin, one double crew cabin, pantry, mess/dayroom and sanitary facilities. The superstructure is mounted resiliently to reduce noise levels.

NAUTICAL AND COMMUNICATION EQUIPMENT

Searchlight	1x Norselight, 2000 W
Radar system	1x Furuno FAR-1518-BB
Compass	Cassens & Plath Reflecta 11
Autopilot	Simrad AP-70
Satellite compass/GPS	Simrad GN70/HS80A
Echosounder	Furuno FE-800
Speed log	Furuno DS-80
VHF	2x Sailor 6222
VHF hand-held	Jotron TR-20
Navtex	Furuno NX-700
AIS	Furuno FA-170
EPIRB	Jotron Tron-60S
SART	Jotron Tronsart20
Anemometer	Gill Instruments GMX 500
VSAT	Intellian v60G

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DAMEN

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