



DAMEN ASD TUG® 3213

"DOLPHIN II"

GENERAL

YARD NUMBER	513006
DELIVERY DATE	September 2013
BASIC FUNCTIONS	Towing, mooring, escorting, fire fighting and pollution control
CLASSIFICATION	Bureau Veritas I ✱ HULL • MACH Escort Tug; Fire Fighting ship 1 waterspraying Unrestricted Navigation • AUT-UMS
OWNER	Specialist Marine Services, King Abdullah Port , KSA

DIMENSIONS

LENGTH O.A.	32.14 m
BEAM O.A.	13.29 m
DEPTH AT SIDES	5.50 m
DRAUGHT AFT	6.00 m

TANK CAPACITIES

FUEL OIL	200.0 m ³
FRESH WATER	65.2 m ³
FOAM	14.3 m ³
DISPERSANT	3.0 m ³
LUBRICATION OIL	10.7 m ³
BILGE WATER	4.9 m ³
DIRTY OIL	4.9 m ³
SEWAGE	2.3 m ³
SLUDGE	2.4 m ³

PERFORMANCES

BOLLARD PULL AHEAD	84.8 ton
BOLLARD PULL ASTERN	79.7 ton
SPEED AHEAD	13.8 knots

PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar C280-8/MC
MAIN ENGINE POWER	5420 bkW (7268 bhp) at 1000 rpm
AZIMUTH THRUSTERS	2x Rolls Royce US 285
PROPELLERS	3000 mm controllable pitch prop.
BOW THRUSTER	215 kW, 820 mm diameter
ALARM SYSTEM	Praxis Maxiguard
FORCED VENTILATION	80.000 m ³ /hr

AUXILIARY EQUIPMENT

MAIN GENERATOR SETS	2x Caterpillar C9 TA, 230/400V, 188 kVA, 50 Hz
BILGE WATER SEPARATOR	Facet 0.5 m ³ /hr
FUEL PURIFIERS	2x Westfalia OTC 2-02-137
COOLING SYSTEM	Box cooling + anti marine growth system
SEWAGE TREATMENT PLANT	Headhunter TW-200B
HYDRAULIC SYSTEM	Double main engine driven pumps
DISPERSANT	Dispersant pump set with 2 spraybooms
FIRE FIGHTING	Main engine driven pumps, 2x 1400 m ³ /hr
FIFI MONITORS	2x 1200 m ³ /hr water, 2 x 300 m ³ /hr foam

DECK LAY-OUT

ANCHOR & CHAIN	2x 585kg HHP anchor, 330m 24mm studlink
ANCHOR/TOWING WINCH	Two speed double drum winch, pull 44 ton at 27.4 m/min, 250 ton brake
CAPSTAN	5 ton at 15 m/min. Electrically driven
DECK CRANE	Heila HLM 10-2S, 1100 kg at 7.84 m
TOWING WINCH AFT	Two speed double drum winch, pull 50 ton at 10.7 m/min, 250 ton brake
TOWING HOOK AFT	Mampaey 100 ton S.W.L.

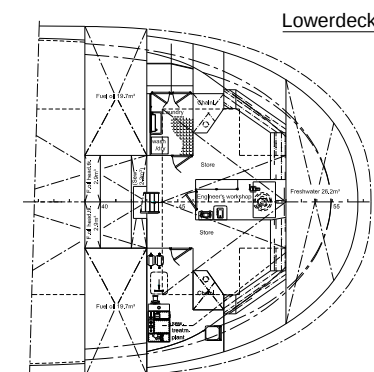
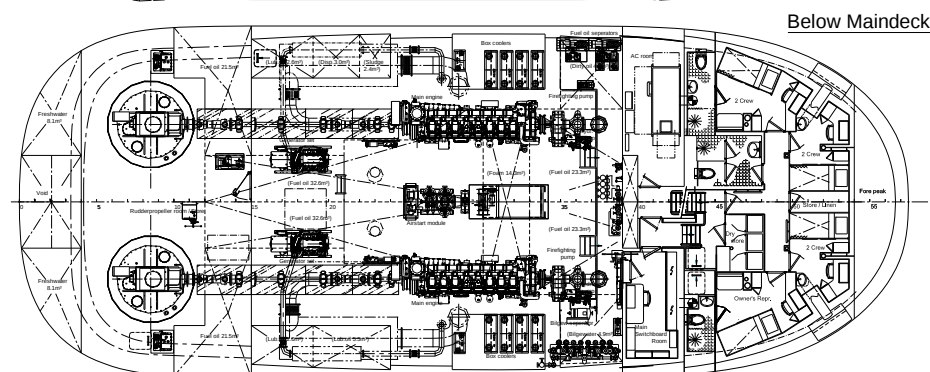
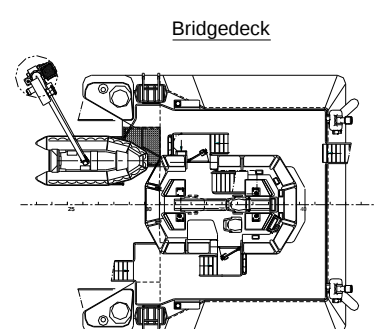
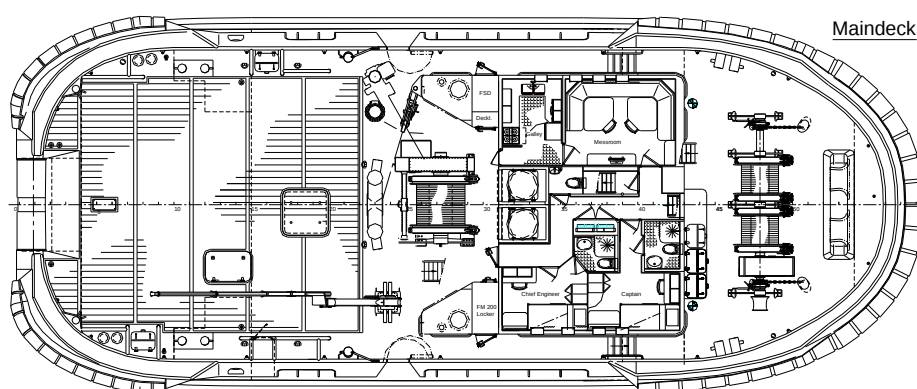
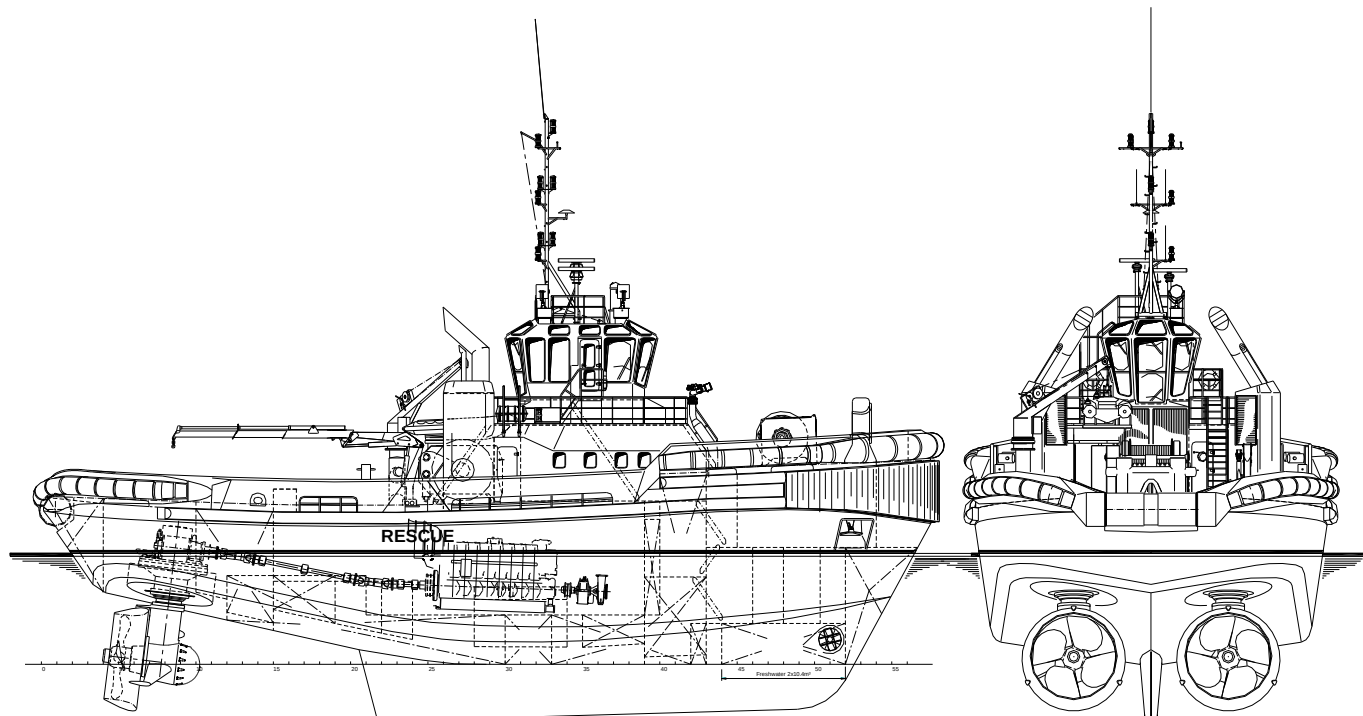
ACCOMMODATION

Heated and air-conditioned spaces for 9 persons, consisting of three single cabins and three double cabins, stores, mess room, galley, laundry and sanitary spaces.

NAUTICAL AND COMMUNICATION EQUIPMENT

GMDSS	Area 3
RADAR SYSTEM	2x Furuno FAR-2117
COMPASS	Magnetic kotter/Satellite Furuno SC 50
AUTOPILOT	Simrad AP-50
GPS	Furuno GP-150
ECHOSOUNDER	Furuno FE-700
VHF RADIO TELEPHONE	2x Sailor RT6222 (one with DSC)
SSB	Furuno FS-1570
AIS	Furuno FA-150
NAVTEX	Furuno NX-700
INMARSAT + SPARE	Furuno Felcom 15
ANEMOMETER	Windsonic OMC 115

* PHOTOGRAPH SHOWS IDENTICAL VESSEL



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DAMEN SHIPYARDS GORINCHEM

Member of the DAMEN SHIPYARDS GROUP



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