



DAMEN ASD TUG® 2810 HYBRID

"ADVENTURE"

GENERAL

YARD NUMBERS
DELIVERY DATE
BASIC FUNCTIONS

512319
May 2014
Towing, mooring and fire-fighting operations
Lloyd's Register
* 100 A1 Escort Tug [*] LMC UMS IWS

CLASSIFICATION

DIMENSIONS

LENGTH O.A. 28.67 m
BEAM O.A. 10.43 m
DEPTH AT SIDES 4.60 m
DRAUGHT 5.15 m
DISPLACEMENT 604 ton

TANK CAPACITIES

FUEL OIL 74.5 m³
FRESH WATER 15.2 m³
FOAM 6.6 m³
LUBRICATION OIL 9.0 m³
DIRTY OIL 3.1 m³
SEWAGE 2.2 m³
SLUDGE 3.1 m³
BILGEWATER 5.2 m³
UREA 6.4 m³

PERFORMANCES

BOLLARD PULL AHEAD 60.2 ton(m)
BOLLARD PULL ASTERN 55.3 ton(m)
SPEED (DIESEL DIRECT) 13.4 knots
SPEED ASTERN (DIESEL DIRECT) 13.0 knots
SPEED (DIESEL ELECTRIC) 8.5 knots
SPEED (BATTERY PACK) 4.0 knots (1 hour max)

PROPULSION SYSTEM

MAIN DIESEL ENGINES 2x MTU 16V4000M63R
TOTAL DIESEL POWER 3680 bkW (4935 bhp) at 1600 rpm
PROPULSION GEN SET 1x MTU 12V2000M41B, 800 kVA, 440V-60Hz
EXHAUST GAS TREATMENT DOC+DPF+SCR system, IMO Tier III compliant
BATTERY PACKS 2x 120 kWh
MAIN ELECTRIC ENGINES 2x ABB M3LP450LA / 2x 230 bkW
AZIMUTH THRUSTERS 2x Rolls Royce US 205
PROPELLER DIAMETER 2400 mm
FORCED VENTILATION 55.000 m³/h

AUXILIARY EQUIPMENT

GENERAL GENERATOR SETS 1x Caterpillar C4.4, 107 kVA, 230/400 V, 50 Hz
BILGE PUMPS 2x Sterling AKHA 5101 each 20 m³/h
FUEL PUMPS Sterling AKHA 4101 and AOHA 3101
COOLING SYSTEM Box cooling + anti-growth system
PRESSURE SET Freshwater Sterling HBK 111 / AOHA 1202
HYDRAULIC SYSTEM One electrically driven auxiliary pump
FIFI SET Propulsion gen. diesel driven pump 1200 m³/h
FIFI MONITOR 2x 600 m³/h water, 2x 300 m³/h foam

DECK LAY-OUT

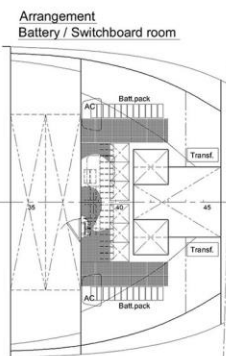
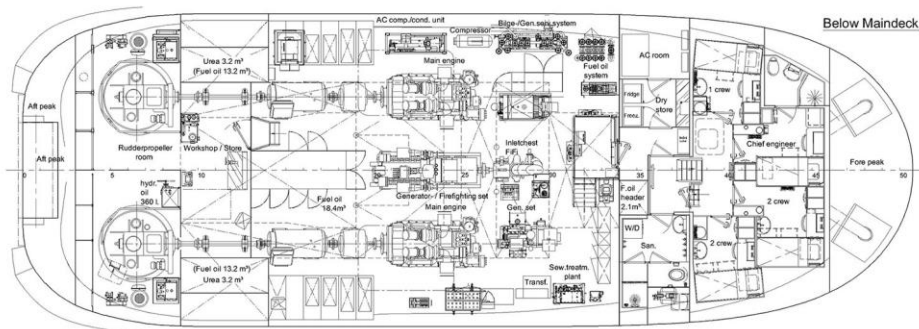
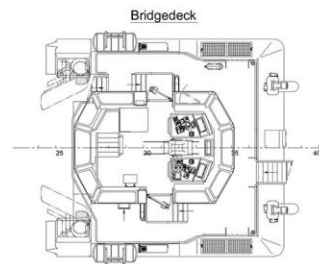
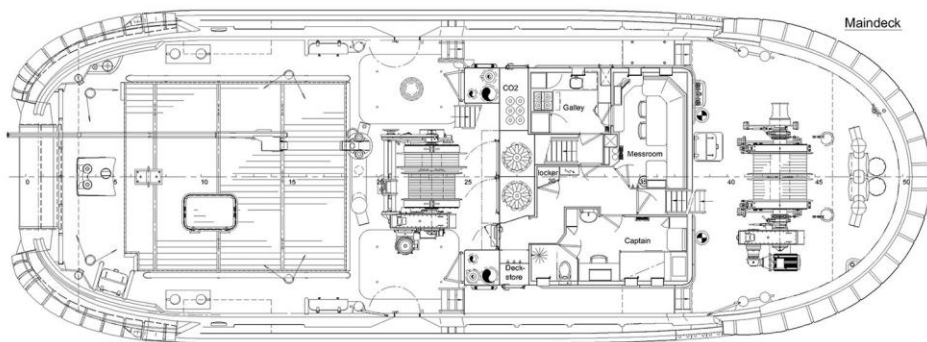
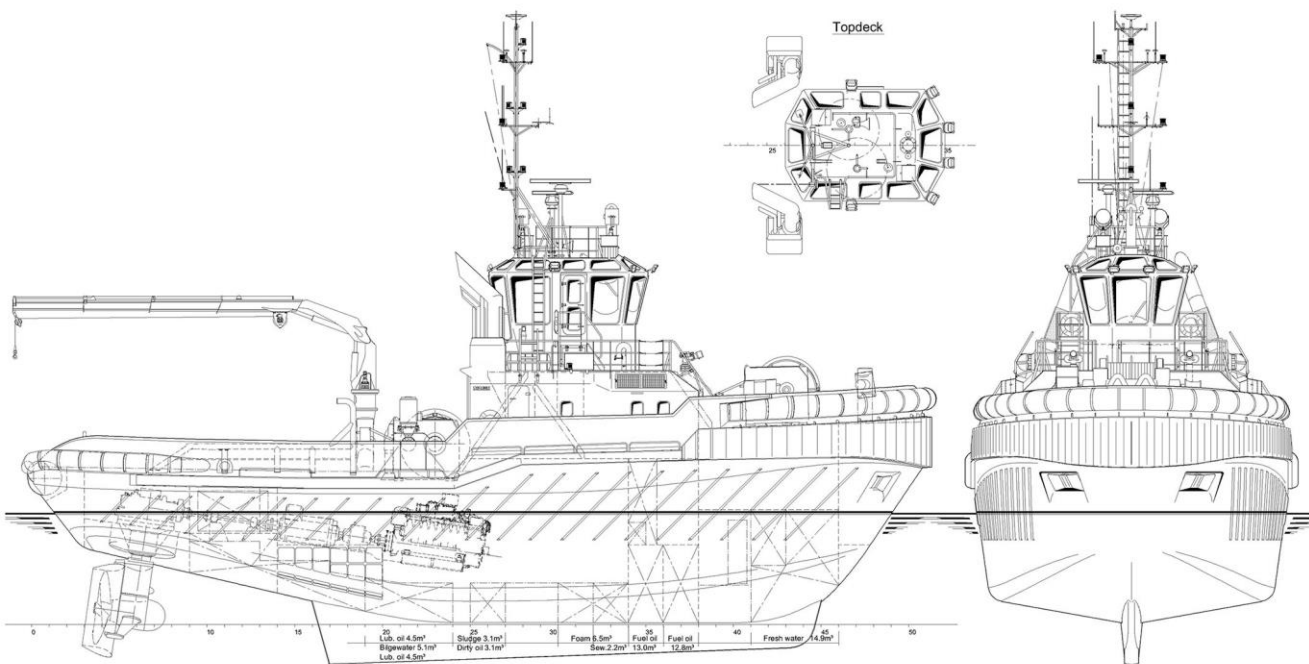
ANCHORS 2x 360 kg Pool (High Holding Power)
ANCHOR/TOWING WINCH Electrically driven two speed winch with double drum and warping head, pull 35 ton at 9.1 m/min, slack rope speed up to 28 m/min, 150 ton brake
CAPSTAN 5 ton at 15 m/min. electrically driven
CRANE HS Marine – AK20 E3 11.01 m at 1.1 ton
TOWING WINCH AFT Electrically driven, two speed winch with double drum and spooling device, pull 35 ton at 9.7 m/min, slack rope speed up to 27 m/min, brake 150 ton
FENDERING D-fender at sides, cylinder fender at transom corners, cylinder and W-block bow fender with water spray

ACCOMMODATION

For 7 persons, insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, floating floors and air-conditioned. Captain's cabin, chief engineer's cabin, 2 double crew cabins, 1 single crew cabin, galley, mess/dayroom, dry store and sanitary facilities.

NAUTICAL AND COMMUNICATION EQUIPMENT

SEARCHLIGHT 2x Pesch 1000 W
RADAR SYSTEM 2x Furuno FAR-2117 with 19 inch screen
COMPASS Magnetic Kottor
SATELLITE COMPASS Furuno SC-50
AUTOPILOT Simrad AP-50
GPS Furuno GP-150
ECHOSOUNDER Furuno FE-700
VHF RADIO TELEPHONE 2x Sailor 6222 (one with DSC)
VHF HAND-HELD 2x Jotron TRON TR-20
NAVTEX Furuno NX-700
AIS Furuno FA-150
EPIRB Jotron Tron 40S
SART Jotron Tron Sart
SSB Furuno FS-1575



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DAMEN MARINE SERVICES

Member of the DAMEN SHIPYARDS GROUP

Industrieterrein Avelingen West 20
4202 MS Gorinchem

P.O. Box 1
4200 AA Gorinchem
The Netherlands

phone +31 (0)183 65 46 60
fax +31 (0)183 63 94 40

info-dms@damen.com
www.damenmarineservices.com