

Azimuth Stern Drive Tug 2111



PICTURE OF SIMILAR VESSEL

GENERAL

Basic functions

Towing, mooring, escort and fire-fighting operations

Classification

Bureau Veritas:
I ✱ HULL • MACH Escort Tug (Bollard pull = 60 t) (maximum steering force = 49 t, maximum braking force = 68 t, maximum escort speed = 10 kn) Unrestricted Navigation YOUNG ICE 2 • AUT-UMS INWATER SURVEY
Epoxy paint system

Painting

DIMENSIONS

Length overall
Beam overall
Depth at sides
Draught aft (approx.)
(98% consumables, without deck load and ice load)

21.02 m
10.81 m
4.05 m
5.05 m

TANK CAPACITIES

Fuel oil
Fresh water
Sewage
Clean lubrication oil
Dirty lubrication oil
Bilge water
Foam
Urea

31.8 m³
7.0 m³
3.0 m³
1.3 m³
1.3 m³
2.5 m³
6.3 m³
1.5 m³

PERFORMANCES

Bollard pull ahead
Bollard pull astern
Speed ahead
Twin Fins

61.1 t
58.8 t
12.7 kn

For increased maneuverability, better course stability, higher escort forces, and less interaction in the inflow into the propellers.

PROPULSION SYSTEM

Main engines
Total power
Azimuth thrusters
Clutches (Slipping type)
Propeller
Forced ventilation
Exhaust emission treatment

Caterpillar 3512C TA HD/D
Approx. 3806 kW (5104 bhp) at 1800 rpm
Kongsberg US205S
Kongsberg built in
Fixed Pitch, 3 blades, 2400 mm
Approx. 60 000 m³/h
IMO Tier III compliant

AUXILIARY EQUIPMENT

Shaft generators
Harbor diesel generator set
General service pumps
Bilge pump
Fuel oil pump
Fuel oil filters
Fuel oil purifiers
Cooling system
Fresh water pressure set
Sewage pump
Lubrication pump(s)
Hydraulic system
Fifi pump
Fifi monitor
Internal fire fighting

2x Shaft generator, 50kW each, 400 V, 50 Hz
1x Caterpillar C4.4, 64.5 kVA, 400 V, 50 Hz
2x Azcue CA-50/3B, up to 27.0 m³/h
1x Azcue CA-32/05, up to 3.6 m³/h
1x Azcue MR41/10, up to 12.0 m³/h
2x Duplex static water separator (10 micron)
2x CJC PTU3 27/81, 1920 l/h each
Keel cooling + box cooling + anti-growth system
1x DAB Euroinox 40/50T, 70 l/min up to 3.0 bar
1x Distrimex B40, up to 6.6 m³/h
2x Azcue, BT-HM-32D4 up to 2.4 m³/h
Main engine driven pumps
1x Main engine driven pump, 1200 m³/h
1x 1200 m³/h water/foam
CO₂

DECK LAY-OUT

Anchor
Anchor winch
Capstan(s)
Deck crane
Towing winch

1x 270 kg (High Holding Power)
1x Electrically driven 10 m/min
2x Electrically driven, 5 ton at 16 m/min
HS Marine AK 28/10.3 E3, 1.7 t at 10.30 m + winch 2150 kg.
Hydraulically driven double drum, Pull 34 t up to 9.5 m/min on 2nd layer and speed up to 32.5 m/min, Brake holding force 150 t on 2nd layer
Cylindrical rubber bow fender above W-block fender, D-type rubber fender at sides, cylindrical fenders at transom corners, and W-block fender push bow

ACCOMMODATION

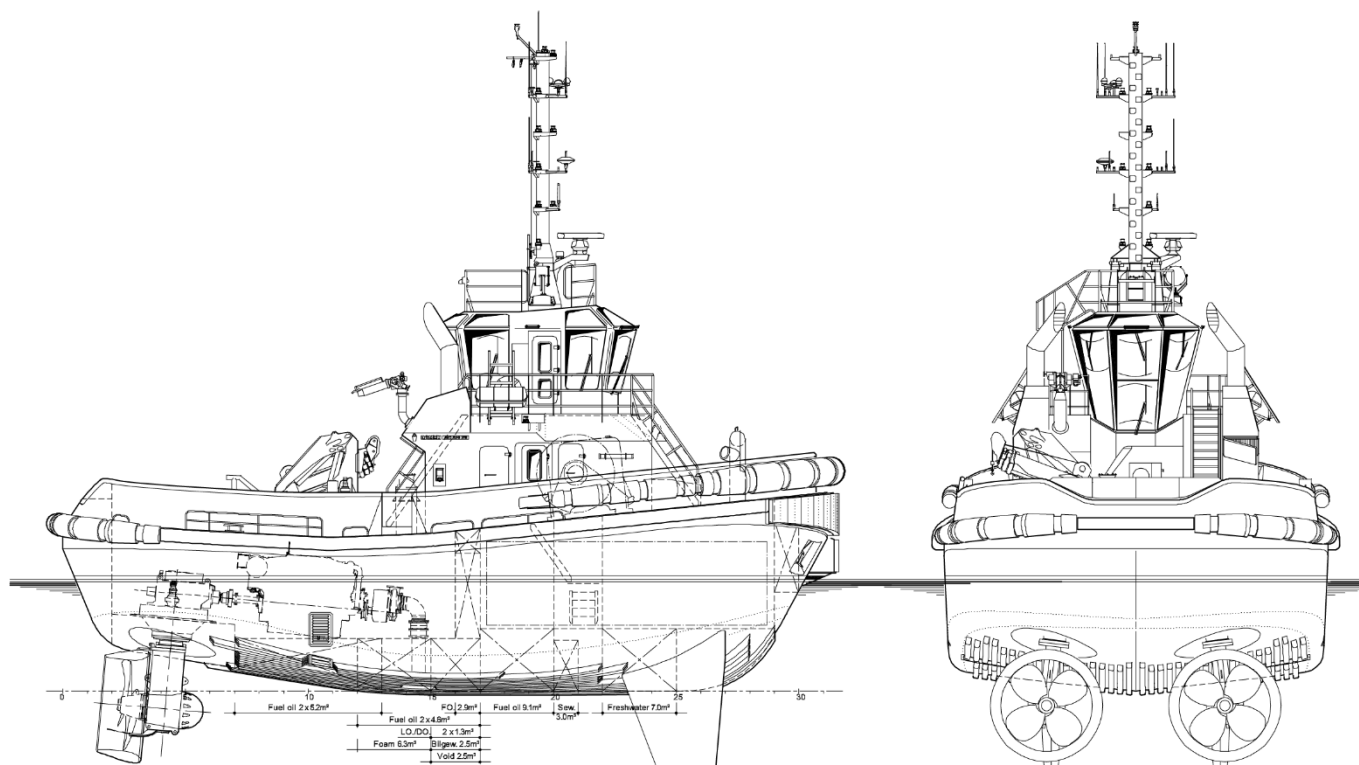
For 6 persons, completely insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse and floating floors. Air-conditioned accommodation with three crew cabins each for two persons and pantry/mess at accommodation deck.

NAUTICAL AND COMMUNICATION EQUIPMENT (or equivalent)

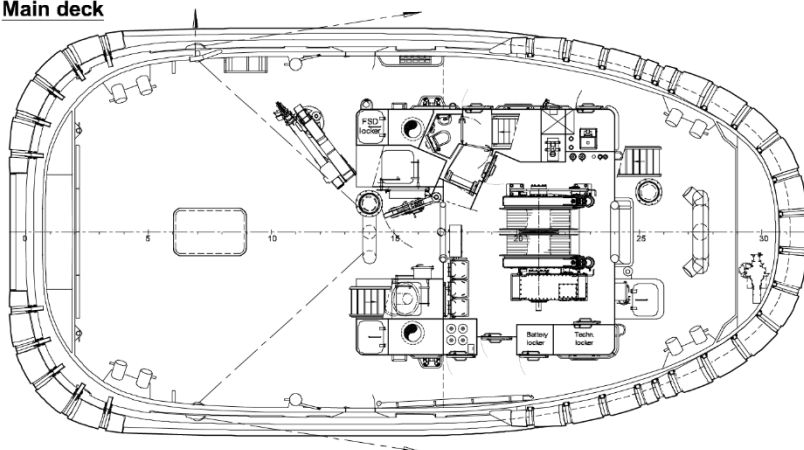
Navigation lights
Searchlight
Radar system
Electronic chart system
Compass
Satellite compass/GPS
Autopilot
Echosounder
CCTV
VHF radio telephone
VHF portable (GMDSS)
AIS
Navtex
EPIRB
SART
Remote monitoring
Anemometer

Den Haan DHR 60 LED
1x Norseligh SH470 2000 W
1x Furuno FAR 1518-BB
MaxSea TZ Professional
Cassens & Plath Reflecta 11
JRC JLR-21
Simrad AP-70
Furuno FE-800 (MED)
3x cameras
2x Cobham Sailor 7222 (Both with DSC)
2x Sailor SP3540
Furuno FA-170
Furuno NX-900
Jotron Tron 60AIS
McMurdo AIS S5
Ready for Damen Triton
Gill Instruments GMX500

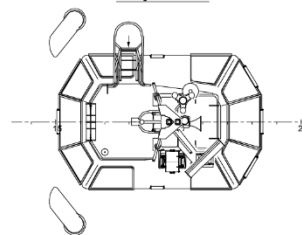
Azimuth Stern Drive Tug 2111



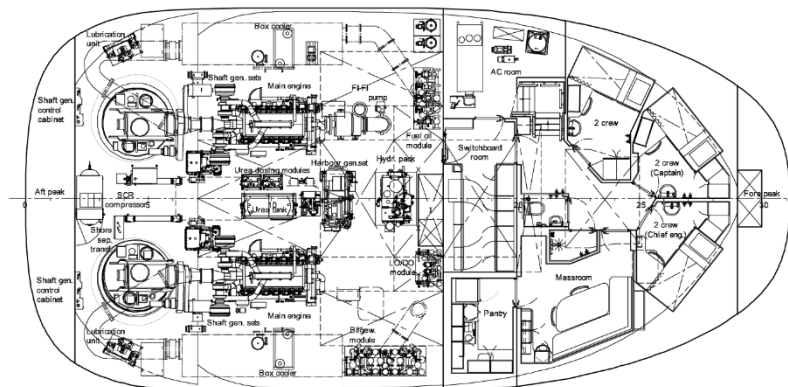
Main deck



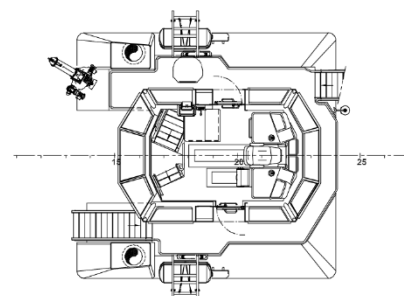
Top deck



Below Main deck



Bridge deck



DAMEN

Damen.com



© No part of the leaflet may be reproduced in any form, by print, photoprint, microfilm, or any other means, without written permission from Damen Shipyards Group