

# Azimuth Stern Drive Tug 1810



## GENERAL

### Basic functions

Towing, mooring, Ø escort, Ø oil pollution control and Ø fire-fighting operations

### Classification

Bureau Veritas:  
I \* HULL • MACH Tug (Bollard pull = 30 t)  
Unrestricted Navigation AUT UMS INWATER SURVEY Ø Green passport EU

### Painting

Ø Lloyd's register: [x] 100 A1 Tug (Bollard pull = 30 t) [x] LMC UMS IWS Ø Green passport EU  
Epoxy paint system

## DIMENSIONS

Length overall	18.25 m
Beam overall	10.23 m
Depth at sides	3.75 m
Draught aft (approx.)	4.00 m
(98% consumables, without deck load and optionals)	

## TANK CAPACITIES

Fuel oil	23.0 m <sup>3</sup>
Fresh water	4.3 m <sup>3</sup>
Sewage	3.2 m <sup>3</sup>
Bilge water	2.0 m <sup>3</sup>
Spare thruster oil	0.6 m <sup>3</sup>
Ø Foam	4.4 m <sup>3</sup>
Ø Dispersant	1.0 m <sup>3</sup>
Ø Urea	1.3 m <sup>3</sup>

## PERFORMANCES

Bollard pull ahead	30.5 t
Bollard pull astern	28.1 t
Speed	10.7 kn
Twin Fins	For increased maneuverability, better course stability, Ø higher escort forces, and less interaction in the inflow into the propellers.

## PROPULSION SYSTEM

Main engines	Caterpillar C32 TTA/C
Total power	Approx. 1940 kW (2600 bhp) at 1800 rpm
Azimuth thrusters	Schottel SRP 270 FP
Clutches (Slipping type)	Schottel built in
Propeller	Fixed Pitch, 5 blades, 1900 mm
Forced ventilation	Approx. 39.200 m <sup>3</sup> /h
Ø Exhaust emission treatment	IMO Tier III compliant

## AUXILIARY EQUIPMENT

Shaft generators	2x Shaft generator, 50kVa each 400 V, 50 Hz
Harbour diesel generator set	1x Caterpillar C4.4 64.5 kVa 400 V, 50 Hz
Bilge pump	1x Portable electrically driven
General service pumps	2x Azcue CA-40/1B, up to 19.0 m <sup>3</sup> /h and up to 2 bar.
Fuel oil filters	1x Triplex static water separator (10 micron)
Fuel oil purifiers	2x CJC PTU3 27/54, 1260 l/h each
Cooling system	Fresh water closed loop keel cooling
Fresh water pressure set	1x pump, DAB Euroinox 40/50T, up to 70l/min, up to 3 bar.
Sewage pump	1x pump, DISTRIMEX, B40, up to 6.6 m <sup>3</sup> /h and up to 1.5 bar
Ø Central heating system	Oil fired heater
Hydraulic system	2x PTO pumps on each main engine
Ø Oil pollution control	Dispersant pumpset with 2 spraybooms
Internal fire fighting	CO2
Ø Fifi pump	Main engine driven pump(s), 600 m <sup>3</sup> /h each
Ø Fifi monitor	1x 600 m <sup>3</sup> /h or 2x 600 m <sup>3</sup> /h water, 300 m <sup>3</sup> /h water/foam mixture

## DECK LAY-OUT

Anchor	1x Pool type or Ø 2x Pool type (High Holding Power)
Anchor winch	1x Electrically driven 10 m/min + Ø 1x Electrically driven 10 m/min
Towing winch	1x Hydraulically driven split drum in open deck house structure. Ahead; spooling from the top, Astern; spooling from the bottom. Pull up to 20 ton and speed up to 44 m/min on second layer, Brake holding force 125 ton Electrically driven, 5 ton at 16 m/min Mampaey Disc type HS Marine AK 16 HE3, 0,8 t at 11.15 m or HS Marine AK 28/10.3 E3, 1.7 t at 10.30 m + winch 2000 kg. Cylindrical rubber bow fender above W-type block fender, D-type rubber fender at sides and aft, and Ø W-block fender push bow, Ø tyre fendering
Ø Capstan aft deck	
Ø Towing hook aft	
Ø Deck crane	
Fendering	

## ACCOMMODATION

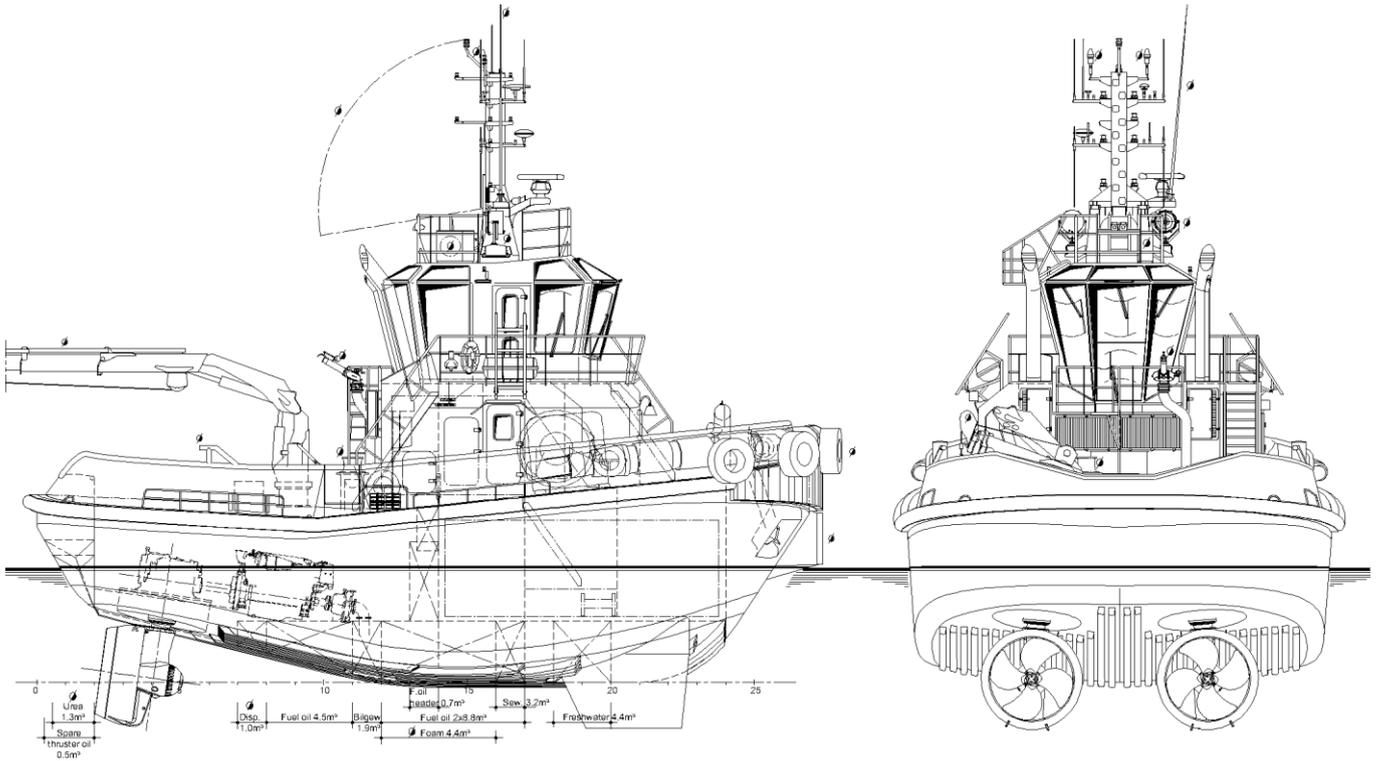
For 4 persons, completely insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse and floating floors. Air-conditioned accommodation with two crew cabins for two persons and pantry/messroom on the below main deck.

## NAUTICAL AND COMMUNICATION EQUIPMENT (or equivalent)

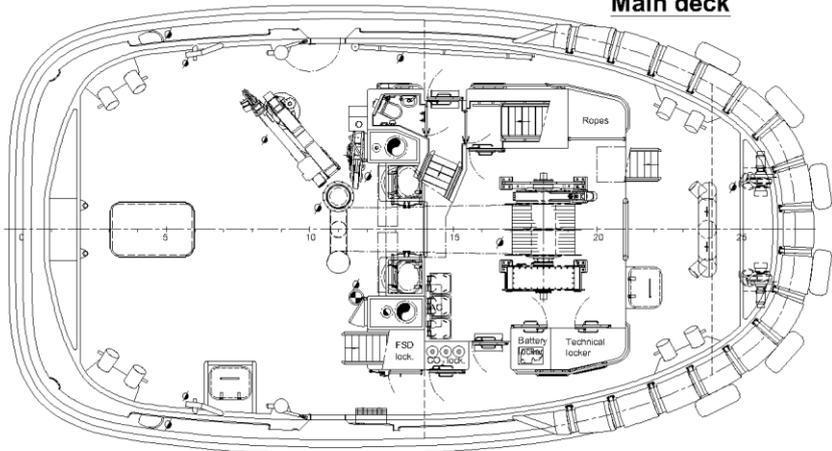
Navigation lights	Den Haan DHR 40 LED
Searchlight	1x Norselight SH310 1000 W + Ø 1x Norselight SH310 1000 W
Radar system	1x Furuno FAR 1518-BB
Electronic chart system	MaxSea TZ Professional
Ø ECDIS	Furuno FMD-3200
Compass	Cassens & Plath Reflecta 11
Satellite compass/GPS	JRC JLR-21
Autopilot	Simrad AP-70
Echosounder	Furuno FCV-628 or Ø Furuno FE-800 (MED)
CCTV	1 camera or Ø 5 cameras
VHF radio telephone	2x Cobham Sailor 7222 (one with DSC)
VHF portable (GMDSS)	2x Sailor SP3540
Ø SSB	Cobham Sailor 6310
Navtex	Furuno NX-900
AIS	Furuno FA-170
EPIRB	Jotron Tron-60AIS
SART	McMurdo AIS S5
Ø VDR	Furuno VR-7000
Remote monitoring	Ready for Damen Triton
Anemometer	Gill Instruments GMX500

Ø = Optional equipment

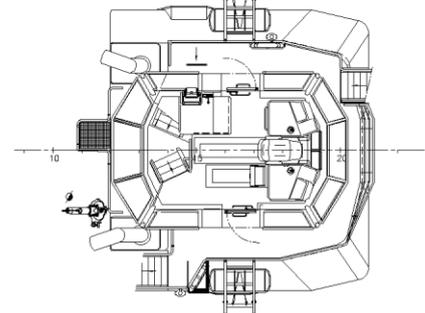
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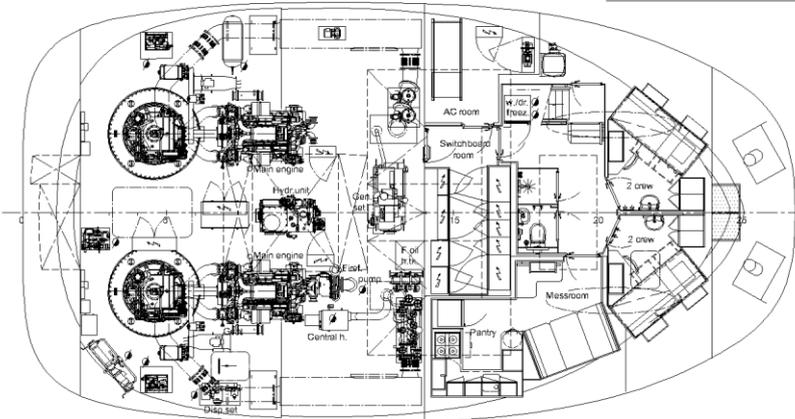
**Main deck**



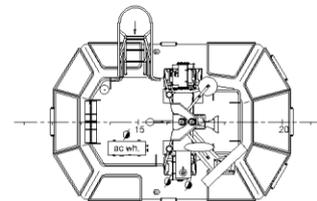
**Bridge deck**



**Below Main deck**



**Top deck**



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