

# Azimuth Stern Drive Tug 3212

STANDARD



## ▶ PICTURE OF SIMILAR VESSEL

### GENERAL

Basic functions	Push-pull, escorting, towing, Ø fire-fighting and Ø oil pollution control operations
Classification	Bureau Veritas 1 * HULL • MACH Escort Tug (Bollard pull = 85 t) (maximum steering force = 75 t, maximum breaking force = 90 t, maximum escort speed = 10 kn) Unrestricted Service AUT UMS INWATER SURVEY COMF-NOISE 3, COMF-VIB 3 Ø Fire Fighting Ship 1 Ø Fire Fighting Ship 1 with water spray Ø Green Passport EU Ø Lloyd's Register ↓ 100 A1 Escort Tug (Bollard pull = 85 t) [✳] LMC UMS IWS Epoxy paint system
Painting	

### DIMENSIONS

Length overall	32.70 m
Beam overall	12.82 m
Depth at sites	5.35 m
Draught aft	5.90 m
Displacement (98% consumables)	800 t
Gross tonnage	450 t

### TANK CAPACITIES

Fuel oil	148.3 m <sup>3</sup>
Fresh water	15.4 m <sup>3</sup>
Sewage	5.1 m <sup>3</sup>
Dirty oil	6.5 m <sup>3</sup>
Clean lubrication oil	7.8 m <sup>3</sup>
Bilge water	6.5 m <sup>3</sup>
Ø Foam	12.3 m <sup>3</sup>
Ø Dispersant	5.1 m <sup>3</sup>
Ø Urea	3.0 m <sup>3</sup>

### PERFORMANCES

Bollard pull ahead	83.1 t
Bollard pull astern	78.1 t
Speed	13.5 kn

### PROPULSION SYSTEM

Main engines	2x Caterpillar 3516C TA HD/D
Total power	5050 bkW (6772 bhp) at 1800 rpm
Azimuth thrusters	Kongsberg Maritime US 255 P30 FP
Propeller diameter	3000 mm
Forced ventilation	80.000 m <sup>3</sup> /h
Ø Exhaust emission	IMO Tier III certified

### AUXILIARY EQUIPMENT

Generator sets	2x Caterpillar C4.4 TA, 230/400 V, 107 kVA, 50 Hz
Ø Generator sets	2x Caterpillar C4.4 TA, 440 V, 123 kVA, 60 Hz
Bilge pump	Azcue CA-32/05 10 m <sup>3</sup> /h
General service pumps	2x Azcue CA-50/3A 20 m <sup>3</sup> /h
Fuel oil pump	Azcue CA40-1B 12 m <sup>3</sup> /h
Fuel oil purifiers	2x CJC PTU3 27/81 MZ-E2PWZ, 1920 l/h each
Fresh water pressure set	Azcue MO-19/10
Sewage treatment plant	Tecnicomar ECOmar 20
Cooling system	Box cooling + anti-growth system
Hydraulic system	Double main engine driven pumps
Ø Oil pollution control	Dispersant pumpset with 2 spraybooms
Ø Fifi set	Main engine driven pump 1200 m <sup>3</sup> /h or 2400 m <sup>3</sup> /h Ø with water spray
Ø Fifi monitor	1x 1200 m <sup>3</sup> /h or 2x 1200 m <sup>3</sup> /h water/foam

### DECK LAY-OUT

Anchors	2x 430 kg Pool (High Holding Power)
Anchor winches	2x Electric 10 m/min
Towing winch	Hydraulically driven two speed double drum, low speed pull 27 ton up to 30 m/min, high speed pull 27 ton at 49 m/min, brake 200 ton Pull/low speed 30 ton up to 27 m/min on 2 <sup>nd</sup> layer, pull/high speed 30 ton up to 44 m/min on 2 <sup>nd</sup> layer, rendering 112 ton up to 82 m/min on 2 <sup>nd</sup> layer
Ø Rendering/recovery winch	
Capstan fore	Electrically driven, 5 ton at 15 m/min
Ø Capstan aft	Electrically driven, 5 ton at 15 m/min
Ø Towing hook aft	SWL 100 ton
Ø Towing winch aft	Hydraulically driven single drum two speed winch with spooling device and warping head, high pull/low speed 31 ton up to 12 m/min, slack rope speed up to 39 m/min, 200 ton brake Heila HLM 10-3S or Heila HLM 20-3S with winch D-fender at sides, cylindrical fender at transom corners, cylindrical bow fender with water spray
Ø Crane	
Fendering	

### ACCOMMODATION

For 10 persons, insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, floating floors and air-conditioned. With 6 cabins, galley, mess/dayroom, switchboard room, dry store and sanitary facilities.

### NAUTICAL AND COMMUNICATION EQUIPMENT

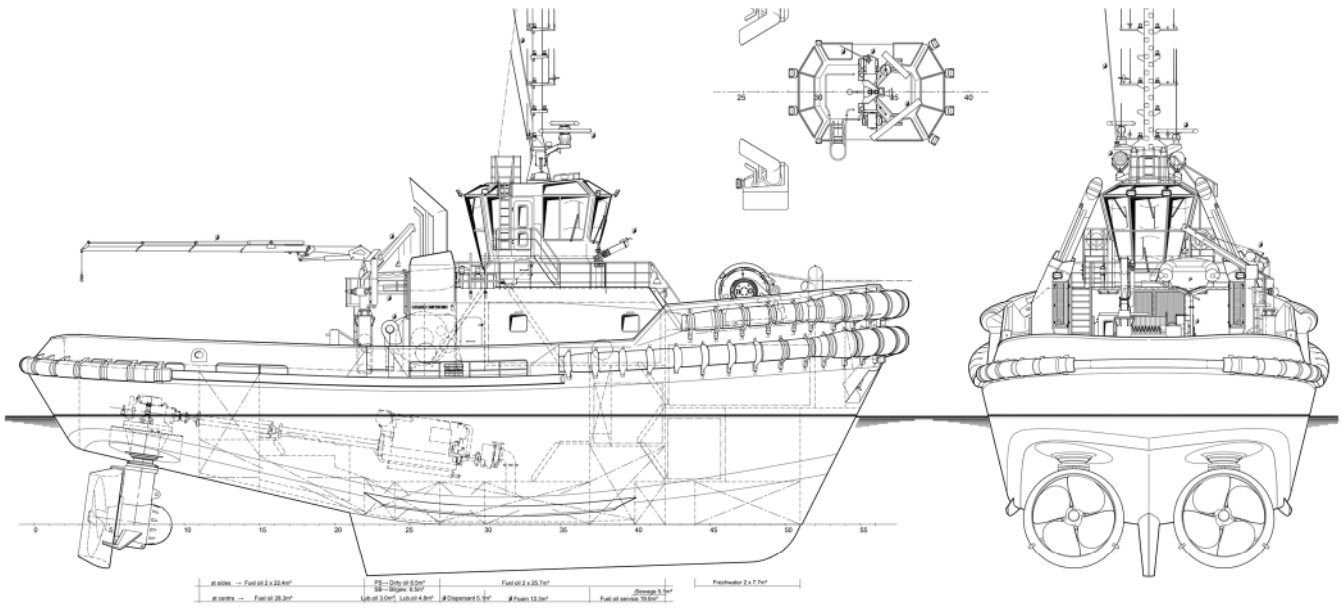
Searchlight(s)	1x Norselight 2000 W + Ø 1x Norselight 2000 W
Radar system(s)	1x Furuno FAR 1518-BB + Ø 1x Furuno FAR 1518-BB
Compass	Cassens & Plath Reflecta 11
Satellite compass/GPS	Simrad GN70/HS80A
Ø Gyro compass	Anschutz Standard 22 Compact
Autopilot	Simrad AP-70
Echosounder	Furuno FE-800
VHF radio telephone	2x Cobham Sailor 6222, one with DSC + Ø 1x Cobham Sailor 6215
Navtex	Furuno NX-700B
Ø SSB	Furuno FS-1575
Ø LRIT	Furuno Felcom 19
Ø Inmarsat	2x Furuno Felcom 18
Ø ECDIS	Furuno FMD-3200
AIS	Furuno FA-170
EPIRB	Jotron Tron-60S
SART	Jotron Tronsart20
Remote monitoring	Ready for Damen Triton
Anemometer	Gill Instruments GMX 500

Ø = Optional equipment

**DAMEN**

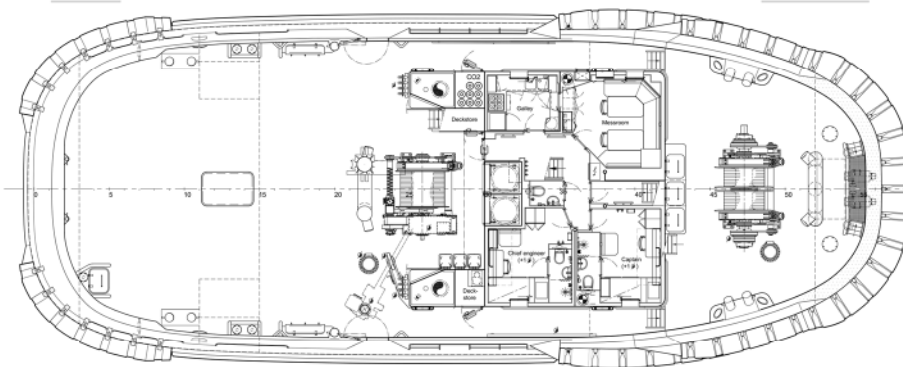
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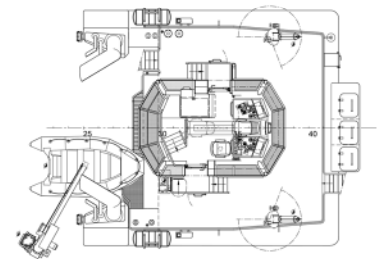


Main deck

Forecastle deck



Bridge deck



Below Main deck

Lower deck

