

EN AVANT 25

TECHNICAL INFORMATION



90 mt
Bollard Pull
Seagoing FiFi ASD Tug

Muller.

EN AVANT 25

HARBOUR | SEAGOING | TERMINAL | ESCORT & ASD

General Information

Year built	May 2023
Builder	DAMEN Shipyards, Song Cam, Vietnam
Build type	Damen ASD 3212, Seagoing Escorting Tugboat
Class	Bureau Veritas (BV Nr: 41414S)
Classification	HULL I MACH Escort Tug (Bollard pull = 85t) (maxi - mum steering force = 75t, maximum breaking force = 90t, maximum escort speed = 10 kn) Unrestricted Service, AUT UMS INWATER SURVEY COMF-NOISE 3, COMF-VIB 3, Green Passport EU, Clean ship, FiFi-1
Port of registry & Flag	Dordrecht, The Netherlands
Callsign / MMSI	PGHE / 244890000
IMO	9949443

Main Particulars

Length o.a.	32.70 m
Beam o.a.	12.82 m
Depth at sides	5.35 m
Draught min/max	5.60 / 6.20 m
Gross/Nett tonnage	449 GT / 134 NT
Displacement (98% cons.)	800 T

Performance

Bollard Pull max.	88.7 T ahead / 78 T astern
Escorting	75T max steering force, 90T max breaking force
Speed	13.6 knots

Propulsion

Main Engines	2 x Caterpillar 3516C TA HD/D (IMO Tier 3)
Total power	6,772 hp (5,050 kW) at 1800 rpm
Azimuth Thrusters	2 x Kongsberg Maritime US 255S P30 FP
Propeller diameter	2 x 3000 mm fixed pitch
Clutch	A slipping clutch is integrated in the thrusters for very slow and precise manoeuvring.
Fuel oil system	Main and auxEngines run on fuel acc. ISO 8217 : 2012 or 2017 - DMA

Auxiliary Equipment

Auxiliary Engine Sets	2 x Caterpillar C4.4 TA
Generator sets	2 x Leroy Somer LSAM 44.3 L10, 107 kVA each
Electrical system	230 V 1-phase, 50/60Hz / 400 V 3-phase 50Hz
FW maker	4 m³/day reverse osmosis
General service pumps	2 x Azcue CA-50/3A (27 m³/h)
Stripping pump	1 x Azcue CA-32/05 (10 m³/h)
Fuel transfer pump	1 x Azcue CA40-1B (12 m³/h)
Shore power supply	400V - 3p - 50Hz - 80 A (socket on main deck aft side)

Deck Lay-out

Free Deck Space	65 m²
Deck Crane	1 x Heila HLM 20-3S-D, SWL 1700 kg @ 10.58 m
MOB/Workboat	1 x Whally 400
Towing aft-winch	DMC - TW-H-30-200 SID (hydraulic)
Capacity aft-winch	850 m x 52 mm ø - RHOL 1960 N/mm²
High pull / Low speed	30T @ 11.4 m/min (2nd layer)
Slack rope speed	8T @ 38.5 m/min (2nd layer)
Brake holding force	200T (2nd layer)
Measurement system	Line pull/length sensors
Spare tow wire winch	DMC (underdeck), 825 m - 52 mm ø
Towing hook aft	1 x MAMPAEY hydraulic disc type - SWL 86T
Towing/escort winch bow	DMC - RRW-H-30-200-DD (Häggglunds), hydraulic, double drum
Capacity bow-winch	2 x 250 m - 60 mm ø dyneema/strongline
High pull / low speed	30T @ 27 m/min (2nd layer)

Maximum speed	44 m/min (2nd layer)
Towing pin	Tug Pins - 100T SWL, Guide pins & ø78 mm Fork
Navigation mast	Foldable by hydraulic system

Fire fighting equipment

The tug is classed & outfitted for Fire Fighting 1 (FiFi-1) system 2400 m³/h. 2 x FiFi pumps type FFS, 1200-1400m³/h cap. each, connected to each step-up gearbox and driven by each main engine, 2 x FFS elec. remote contr.monitors for water/foam with Fog/ Spray/ Jet fully compliant with FiFi-1. The monitors are fitted forward of the wheelhouse. Capacity each monitor: 9.5 bar working pressure 1200m³/hr water at 120m jet length 300 m³/h foam

Tank capacities

Fuel Oil (MGO)	168.9 m³
Fresh Water	15.4 m³
Clean lubrication oil	5.79 m³
Dirty lubrication oil	7.80 m³
Foam	12.30 m³
Bilge water	6.50 m³
Sewage	5.1 m³
Urea	3.00 m³

Accommodation

1-man cabin	2 (two)
2-man cabin	4 (four)
Messroom	1 (one)
Galley	1 (one)

Nautical & communication

GMDSS area	A3 equipped
Wheelhouse control station	Kongsberg Maritime
Compass	Cassens & Plath Reflecta II magnetic Satellite Compass Simrad GN70/HS80A
Radar system	2 x Furuno FAR 1518-BB
(D) GPS	Simrad GN70/HS80A
Autopilot	Simrad AP-70
Echo sounder	Furuno FE-800
Speedlog	Furuno DS-80
VHF Radio Telephone	2 x Cobham Sailor 6222 DSC 1 x Cobham Sailor 6210
VHF Handheld	Sailor SP3540 GMDSS ATEX
Navtex	Furuno NX-700B
AIS	Furuno FA-170
MF/HF SSB radiotelephone	Cobham Sailor 6310
Searchlight	2 x Norselight SH470 2000W (FiFi-1)
EPIRB	Jotron TRON 60S
SART	Jotron TRON SART20
CCTV system	Orlaco (4 cameras)
Communication	VSAT - Iridium - SSB - Phones - Wi-Fi
ECDIS system	2 x Transas Navi-Sailor 4000 system
Weather system	Meteogroup Offshore SPOS onboard
Weather station	Gill Instruments GMX500
Inmarsat C System	2 x Furuno Felcom 18 LRIT
VSAT system	2 x Data/TV Intellian system
Maintenance system	MARAD system onboard & technical office

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