



**20 TON
BOLLARD PULL**
harbour and seagoing tug

State-of-the-art, reliable, optimised performance

Since the foundation in 1918, MULLER has been building on expertise, reliability and inventiveness in the maritime business. With specialised marine equipment, we can offer you a tailored fit competitive towage service for your specific needs. MULLER performs core activities such as Harbour assistance, Coastal&Deep-sea towage, salvage and Heavy-lift&Transport. MULLER is owner of its own inland & seagoing tugs up to 70 tons BP, sea-going ballastable heavy-lift pontoons to 16.500 tons DWT, it's own harbour and yard in Dordrecht. Our crew is the driving element behind all those resources, with knowhow, no-nonsense mentality, experienced and utmost dedication to offer extensive support to the offshore and marine industry.



EN AVANT 7

harbour and seagoing tug



GENERAL INFORMATION

Year of construction	1981 (Refurbished 2003)
Builder	Damen Shipyards Gorinchem
Build type	Damen Stantug Mk 4
Class	Bureau Veritas
Classification	I ✱ HULL • MACH Tug Unrestricted Navigation • AUT-UMS (SS)
Class Register nr	87C057
National Authorities	Dutch Shipping Inspection 200nm coastal continuous service
Flag	Netherlands
Call sign	PBEB
IMO	7625483
Port of registry	Dordrecht

MAIN PARTICULARS

Length o.a.	22.50 m
Breadth o.a.	6.80 m
Maximum draught	3.10 m
Air draught	15.50m / 8,80 m (lowered mast)
Gross tonnage	108 T
Nett tonnage	32 T

PERFORMANCES

Bollard Pull max	20,0 tons
Speed	12,5 knots

PROPULSION SYSTEM

Main engines	2 x MAN type D2842 LE 412
Total power	1.600 hp (1176 kW) at 1800 rpm
Gearboxes	2 x ZF-Masson ZFW3200 / 4.077:1
Type of propulsion	2 x fixed pitch propellers
Propellers	2 x 1380 mm
Nozzles	De Waal

AUXILIARY EQUIPMENT

Generator sets	2 x John Deere / Stamford
Capacity	63.3 kVA each 50Hz, 230/400 V
Fuel separator	Alfa Laval type
Internal FiFi system	CO ₂ in the engine room

DECK LAY-OUT

Anchor	2 x 180 kg Pool (T.W.)
Chain	17,5mm - 110 m short link
Anchor winch	Kraaijeveld, electric, 2T - 10m/min
Towing winch	Kraaijeveld, hydraulic, 20T - 20m/min
- Brake holding force	50T
- Towing wire	600m - ø30mm - MBL 628 kN
Capstan	Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm
Sternroller	EMCE, electric, 1,5T - 14m/min, remote controlled fixed + towing pins

TANK CAPACITIES

Fuel Oil (MGO)	52,50 m ³
Fresh Water	6,40 m ³
Bilge Water	2,00 m ³
Lub Oil	1,00 m ³
Hydraulic Oil	1,00 m ³
Water Ballast	4,00 m ³

ACCOMODATION

Heated and air-conditioned living spaces for 5 persons, consisting of a galley, mess room and sanitary facilities on the main deck, captain's cabin, 1st officer cabin, C.E cabin and a double crew cabin below deck.

NAUTICAL & COMMUNICATION EQUIPMENT

GMDSS area	A2 equipped
Searchlights	Seematz 1000W
Compass, Magnetic	1 x Observator
Compass, Gyro	1 x Tokimec ES-110
Radar system, sea	Furuno FR 2110
Radar system, inland	Alphatron IMA 608
GPS	Leica Mk10
Autopilot	Radio Holland Seapilot 75
Echo sounder	Fishfinder 300
VHF Radio Telephone	2 x Sailor RM 2100, 25 Watt
VHF Handheld	2 x Icom IC GM1500E
Navtex	Furuno NAV-NX500
AIS	FA-150
Communication	Inmarsat C - SSB - Phone

CONTACT DETAILS

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