



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

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

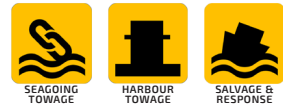
Since the foundation in 1918, MULLER has been building on expertise, reliability and inventiveness in the maritime business. With specialised marine equipment, we can offer you a tailored fit competitive towage service for your specific needs. MULLER performs core activities such as Harbour assistance, 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.



If your transport seems impossible. Our job is just gettin' started.

## EN AVANT 1

harbour and seagoing tug



### GENERAL INFORMATION

Year of construction	2005
Builder	Damen Shipyards Gorinchem
Build type	Damen Stantug 2608
Class	Bureau Veritas
Classification	I ✳ HULL • MACH Tug Unrestricted Navigation • AUT-UMS
Class Register nr	08584H
National Authorities	Dutch Shipping Inspection 200nm coastal continuous service
Flag	Netherlands
Call sign	PHDP
IMO	9408645
Port of registry	Dordrecht

### MAIN PARTICULARS

Length o.a.	26.09 m
Breadth o.a.	7.94 m
Maximum draught	4.00 m
Air draught	22.39 m / 10,00 m (mast folded)
Gross tonnage	186 T
Nett tonnage	56 T

### PERFORMANCES

Bollard Pull max	49 tons
Bollard Pull cont.	48,3 tons
Speed	12,5 knots

### PROPULSION SYSTEM

Main engines	2x CAT Type 3512 B TA HD/B
Total power	3.500 hp (2610 kW) at 1600 rpm
Gearboxes	2 x Reintjes WAF 772 / 6.44:1
Type of propulsion	2x Kaplan II fixed pitch propellers
Propellers	2 x 2360 mm
Nozzles	Van de Giessen Optima

### AUXILIARY EQUIPMENT

Generator sets	2x Caterpillar 3304 B T
Capacity	100 kVA each 50Hz, 230/400 V
Fuel separator	Westfalia type
Internal FiFi system	CO <sub>2</sub> in the engine room

### DECK LAY-OUT

Anchor	2 x 270 kg Pool (H.H.P.)
Chain	17,5mm - 137,5 m short link
Deck crane	HEILA HLRM 25-4S-L remote controlled 1.6 ton at 12,94 m / 9.0 ton at 2,79 m (seastate 0)
Anchor winch	Kraaijeveld, electric, 2T - 10m/min Vertical warping head
Towing winch	Kraaijeveld, hydraulic, 30T - 10m/min
- Brake holding force	100T
- Towing wire	650m - ø 44mm - MBL 1350 kN Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm
Spare wire	650m - ø 44mm - MBL 1350 kN on reel
Tugger winch	TMA, hydraulic, 4,5T - 15m/min, remote controlled
Sternroller	2200 x 710 mm, SWL 30 ton

### TANK CAPACITIES

Fuel Oil (MGO)	80,10 m <sup>3</sup>
Fresh Water	12,20 m <sup>3</sup>
Lub Oil	1,90 m <sup>3</sup>
Dirty Oil	2,00 m <sup>3</sup>
Water Ballast	19,40 m <sup>3</sup>

### ACCOMODATION

Heated and air-conditioned living spaces for 7 persons, consisting of a galley and mess room, captain's cabin and a 1st officer cabin on the main deck, two double crew cabins, a C.E cabin and sanitary facilities below deck.

### NAUTICAL & COMMUNICATION EQUIPMENT

GMDSS area	A1 A2 A3 equipped
Searchlights	PESCH 1000W
Compass	1 x Kotter type / 1 x gyro compass
Radar system	Furuno FR 1505 mk III
GPS	Furuno GP - 90
Autopilot	Radio Holland Seapilot 75
Echo sounder	Furuno FCV-582L
VHF Radio Telephone	2 x Sailor RT 4822, 25 Watt
VHF Handheld	2 x Axis-50
Navtex	Furuno NAV-NX500
AIS	FA-150
Communication	VSAT - Inmarsat C - SSB - Phone

### CONTACT DETAILS

E-mail	ea1@muller-dordrecht.nl
E-mail Office	operations@muller-dordrecht.nl
Sat-C Bridge	424637523@c12.stratosmobile.net
Sat-C Captain	424637524@c12.stratosmobile.net
Telephone Bridge	+31 (0) 611 875 475
Iridium Telephone	+881 622 444 178
Telephone Office	+31 (0) 786 392 000