



CONSTRUCTION / CLASSIFICATION

Built	2010 - Mützelfeldt Yard, Cuxhaven
Design	MAN Ferrostaal AG / Hitzler Werft
Classification	✕ 100 A5 E Special purpose ship Tug ✕ MC E AUT DP(2) FiFi 1
DP notation	DP 2
IMO number	398541
Call sign (flag)	PCFS (The Netherlands)
Port of registry	Rotterdam

MAIN DATA

Gross tonnage	3,732 GT
Net tonnage	1,119 NT
Length overall	74.30 m
Length b.p.	68.94 m
Beam overall	20.90 m
Depth to maindeck	9.5 m
Draft	8.25 m
Deadweight	3,486 mt
Cargo deck area	275 m ²
Deck load	10 t/m ²
Chain locker capacity	2 x 82 m ³
Bollard Pull	297 mt

PROPULSION

Main engines	4 x MAK 9 MC32 4,500 kW / 600 RPM
Propellers	2 x Wärtsilä 4D1300 / 115 RPM / 5,000 mm Ø
Rudders	2 x Rudder Actuator Rolls-Royce Type SR 723 FCP
Bow thrusters	2 x Schottel tunnel thrusters STT 4 CP, 1,990 mm Ø, 1,200 kW/tons thrust
Stern thrusters	1 x Schottel tunnel thruster STT 1 CP, 1,290 mm Ø, 400 kW/tons thrust
Generators	2 x Caterpillar 3412DITA / 500 kW
Shaft generators	2 x AEM SE 500 L4 / 2,000 kW

ACCOMMODATION

Total allowed persons	35 (upgrade possible)
Cabins	Single berth 12 Double berth 9 Four berth 6
Hospital	Double berth

EQUIPMENT

Towing winch	Electr. driven 250/500 mt @ 7.5/3.5 m/min
Brake holding load	400 mt on Towing drum, 600 mt on AH drums (2 pcs), 1 st layer
Drum capacity	1 x 1,800 m of 83 mm Ø wire, 2 x 2.000 m x 83 mm Ø wire
Control	Remote controlled from bridge
Cable lifters	2 x 76 mm Ø and 1 x 127 mm Ø
Main tow wires	1,600 m x 83 mm Ø
Spare towing wires	2,000 m x 83 mm Ø 1,200 m x 83 mm Ø
Work wires	400 m x 83 mm Ø
Storage reel capacity	2 x 8,000 m x 83 mm Ø (deck) 1,200 m x 76 mm Ø (ER)
Stern roller	2,000 mm Ø, total length 5,000 mm, 300 mt SWL
Capstans	50 kN @ 0 - 15 m/min/450 mm Ø
Tugger winches	2 x 100 kN pull @ 0 - 15 m/min 18 mm Ø, capacity 110 m x 24 mm Ø
Towing pins	2 x Karmoy set of 2 pins 300 mt SWL
Karm forks	2 x Karmoy SWL 650 mt SWL, inserts for chain 50 mm Ø - 125 mm Ø - 165 mm Ø
Quarter pins	Retractable / hydraulic
Gipsy wheels	
Main winch STB side	fixed 3"/76 mm Ø,
Main winch PORT side	fixed 5"/127 mm Ø
Cranes	2 x Storecrane 5.2 mt SWL/reach 14 m

TANK CAPACITIES

Ballast water	292 m ³
Fresh water	83 m ³
Main engines	3.230 m ³
Auxiliary generators	130 m ³
Endurance at full power	49 days
Endurance at half power	84 days