



EMDER SCHLEPP-BETRIEB GMBH

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ASD 2111 Twin Fin TUG M/V "KÄTHE WESSELS"

Built by DAMEN Shipyard / Changde (China)

Main Characteristics

Length	21,02 m
Beam	10,81 m
Draft	abt. 4.80 m
Speed	up to 12,2 kn
Classification	BV I+Hull MACH Escort Tug AUT UMS
Measurement	199 GT
Flag	German
Call Sign	DCPT
IMO-Number	997276
Homeport	Emden
Fuel Type:	DMA - ISO 8217:2010
Fuel Capacity	abt. 30,5 m ³
FW Capacity	7,0 m ³
Bollard pull	51,2 ts
Built	2023
Max Deck Load	2 mto / m ²
Max Deck Space	45m ²
Max Deck load	10 mto

Deck Equipment

Towing winch: hydraulic two speed winch with double drum and warping head, pull 35 ton at 10 m/min on 2nd layer, brake holding force 150 ton

Winch is located under the deckhouse. Towage can be done over the bow or the stern.

Towing Gear:
Softgear Towmaster 130m/76 mm
Breakload 203 mto
X-Twin Dyneema 20 m/46 mm
Breakload 184 mto

On board are available: various Dyneema Grummets and pennants for light weight bridles, various shackles and pennants.

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Nautical & Communication Equipment

Sailin Area GMDSS A1 ("National Trade")
Radar Furuno FAR-1518-BB
Compass Magn.: Cassens&Plath Type 11
Sat.: Simrad GN70 / HS80A
Autopilot Simrad AP-70
GPS Simrad GN70 / HS80A
Echosounder Furuno FE-800
VHF Sailor 7222

Navtex Furuno NX-700B
AIS Furuno FA-170

EPIRB McMurdo SmartFind G8 GNSS
SART McMurdo AIS S5
Searchlight Norselight SH470
Electr. Chrt Displ. Furuno FMD-3200

Fenders:

W-type block fenders max pressure >20t/m²
Cylindrical fenders on the bow
D-fender on the side and stern

Engine Room

Main Engines: 2 x CAT 2512C TA HD/C, 1380 kW each at 1600rpm (total: 2760 kW / 3702 bhp)
IMO Tier III compliant with SCR-System
Azimuth thrusters: 2 x Kongsberg US 165S FP
Propeller diameter: 2400 mm
Shaft Gen.-Sets: 2 x Vanmeer, 400 V/50Hz, 40 kW

Aux. Gen.-Sets: 1 x Catarpillar C4.4, 230/400 V, 64,5 kVA / 50 Hz

Spark Arrestors: Type CP & SA (with certificate), suitable for LNG-Terminals

General

The tug is fully equipped for harbour assistance, deep sea towage, offshore services and salvage operations.

Accommodation for 6 persons.