

OSA803 OTTERTURM

Offshore Supply Association Limited



Outline Specifications

OSA803 OTTERTURM

OWNERS:

D. D. G. Hansa, Bremen

BUILDERS:

H. H. Bodewes, Mijlinnen/NETHERLANDS

COMMISSIONED:

June, 1976

GENERAL

Tug built to Germanischer Lloyd class + 100 A4 "E" + MC - "A"
TUG for worldwide operations and specially designed for
servicing construction and pipelaying barges as well as ocean
towing, having twin screws in Kort nozzles, twin rudders and
bow thrust unit. Tug is equipped for anchor handling and has
an indicated HP of 7700 with a maximum certified bollard
pull of 80.5 metric tons, (89 short tons).

PRINCIPAL DIMENSIONS

Length overall	44.38 m (145.61 ft.)
Breadth overall	11.33 m (37.17 ft.)
Moulded depth	5.25 m (17.22 ft.)
Draft loaded (Summer)	4.85 m (15.91 ft.)
Freeboard (Summer)	0.42 m (1.38 ft.)
Gross tonnage	491
Call Sign	D E B D
Port of Registry	BREMEN

CARGO CAPACITY

Total deadweight approx. 481 metric tons, (497 short tons).
Deck: Sufficient Stability available to carry up to 150 metric
tons (165 short tons) of cargo on deck.
Strengthening aft of frame 19, 8 tons/m², strengthening
forward of frame 19, 2.5 tons/m².
Deck Space approx. 140.00 m²/1507.00 sq. ft.
Free deck length approx. 17.40 m / 57.10 ft. max.
Free deck width approx. 8.50 m / 6.8 m/27.90 ft./
21.50 ft.

Tug has no cargo rails however, sounding pipes, ventilators etc.
are protected against damages during anchor handling operations.

*Fuel oil	389 m ³ /102,760 US-Gallons
Potable water	45 m ³ / 11,890 US-Gallons
*Ballast water	225 m ³ / 59,500 US-Gallons
*Quantities include dual purpose tank. Capacities of 191 m ³ /50,460 US-Gallons.	

REFRIGERATED STORAGE CAPACITY

Deep freeze	6 m ³ / 212 cu. ft. at - 20° C/0° F
Cool room	6 m ³ / 212 cu. ft. at + 5° C/40° F

ACCOMMODATION

Officers	4 single berth cabins
Crew	6. 3 x Double berth cabins
Passengers	Accommodation for up to 6 passengers

AIRCONDITION

Tug is fully airconditioned for hot and cold climates.

WHEELHOUSE

Of special design for maximum visibility and with complete
remote control of main engines, bow thruster, steering gear
and anchor handling/towing gear.

NAVIGATIONAL EQUIPMENT

Includes Radar, Direction Finder, Echosounder, Gyrocompass,
Autopilot, Radio Telephone and VHF Telephone.

ANCHORS AND CABLES

Two 900 kg (1985 lbs.) bow anchors each with 350 m (1150 ft.)
of 30 mm (1 1/4") steel chain cable plus one spare anchor of
900 kg (1985 lbs.).

ANCHOR HANDLING AND TOWING WINCH

An electric hydraulic driven double drum Waterfall type winch
is fitted, giving a performance of:

Anchor handling drum:

200 metric tons (441,000 lbs.) static load	
130 metric tons (286,600 lbs.) at 9.5 m/minute	
97.5 metric tons (214,950 lbs.) at 13.7 m/minute	
65.0 metric tons (143,300 lbs.) at 22.0 m/minute	
32.5 metric tons (71,650 lbs.) at 47.0 m/minute	
Free fall speed	approx. 100 m/minute
Dimensions of anchor handling drum	700 mm/1,900 mm x 1,700 mm
Capacity of drum	1000 m (3281 ft.) of 52 mm (2") diam. wire

Towing drum

200 metric tons (441,000 lbs.) static load	
101 metric tons (222,665 lbs.) at 12.2 m/minute	
75.5 metric tons (166,450 lbs.) at 17.7 m/minute	
50.5 metric tons (111,450 lbs.) at 28.4 m/minute	
25.5 metric tons (56,220 lbs.) at 60.0 m/minute	
Slack rope speed	approx. 71 m/minute
Dimensions of towing drum	900 mm/1,900 mm x 1,700 mm
Capacity of drum	800 m (2625 ft.) of 52 mm (2") diam. wire

Winch and control stand are situated in an enclosed
compartment. Control stand with clear view of working deck
and winch drums. The winch is remote-controlled from the
winch control stand and as far as practicable from the
wheelhouse (quick release, free fall device, range selector etc.).
Tug is fitted with closed-circuit TV, enabling operations to be
observed in wheelhouse and winch control room.

TOWING BOLLARD

For the guiding of towing and anchor handling wires to the
respective drums, a towing bollard with rollers is installed
behind the winch compartment.

TOWING HOOK

A 70 metric tons (154,320 lbs.) SLW quick release towing
hook is fitted.

GENERAL SERVICE AND BRIDLE WINCH

Tug is fitted with two 8 metric tons hydraulically driven
general service winches, situated at each side of the towing
bollard.

STERN ROLLER

A heavy duty 10 ft. length and 5 ft. diameter stern roller with
shoulders and vertical rollers on both sides is fitted for quick
and safe anchor handling.

BOLLARD PULL

Certified max. bollard pull: 80.5 metric tons, (89 short tons).

PROPULSION

Two MWM T80 441 V 16 diesel engines are fitted giving a
total of 5,600 bhp continuous rating and 6,150 bhp maximum
rating.

AUXILIARIES

Two independently driven generators each producing 209 KVA
380/230 V AC 50 cycles.
One emergency/harbour set producing 75 KVA 380/220V AC
50 cycles.

CARGO PUMPS

Fuel oil	20 m ³ /hr (5,300 US-galls.) at 30 m (100 ft.) head
Fire fighting pump	40 m ³ /hr (10,600 US-galls.) at 60 m (200 ft.) head
Ballast and general service pump	40 m ³ /hr (10,600 US-galls.) at 60 m (200 ft.) head
Spare pump	30 m ³ /hr (8,000 US-galls.) at 30 m (100 ft.) head

BOW THRUST UNIT

In the forepart of the tug is a transverse bow thrust unit of 600
bhp giving a maximum thrust of 7.2 metric tons (15,873 lbs.).

SPEED

Cruising:	14.1 knots-consumption 0.65 metric ton/hr. (201 US-galls. hr.).
Maximum	14.8 knots-consumption 0.81 metric ton/hr. (253 US-galls. hr.).

NOTE

Tug is equipped with variable pitch propellers enabling it to
attain maximum pull required when towing or maximum
free running speed.

Offshore Supply Association Limited

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