

OSA702 KREUZTURM

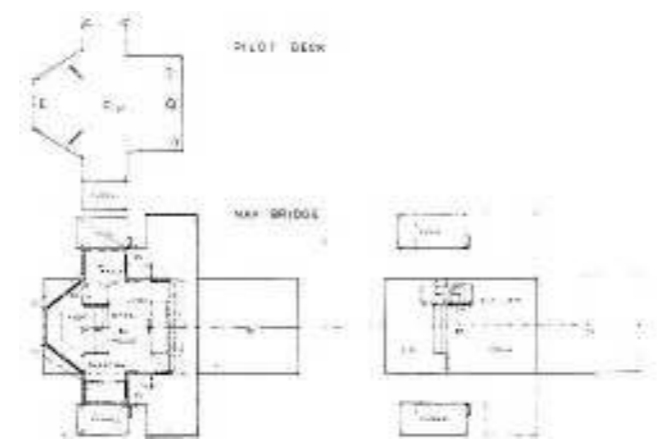
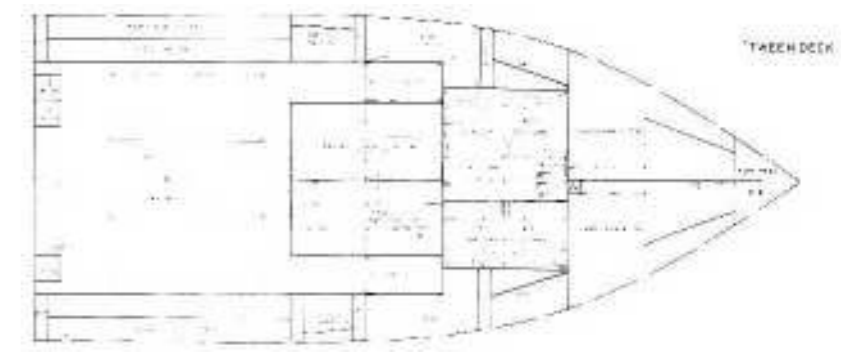
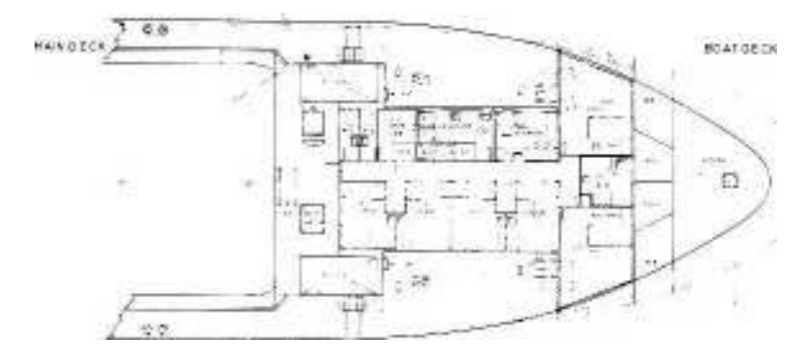
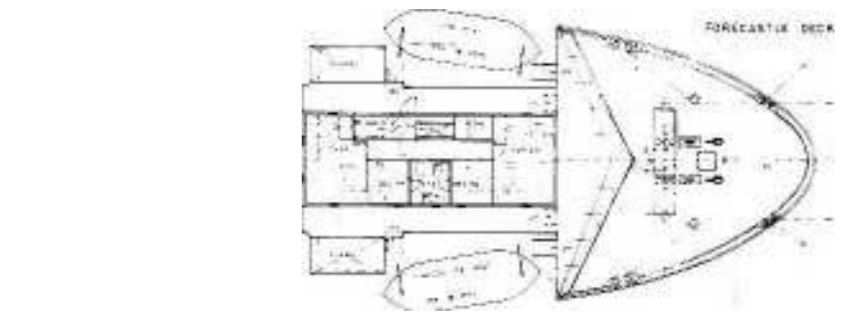
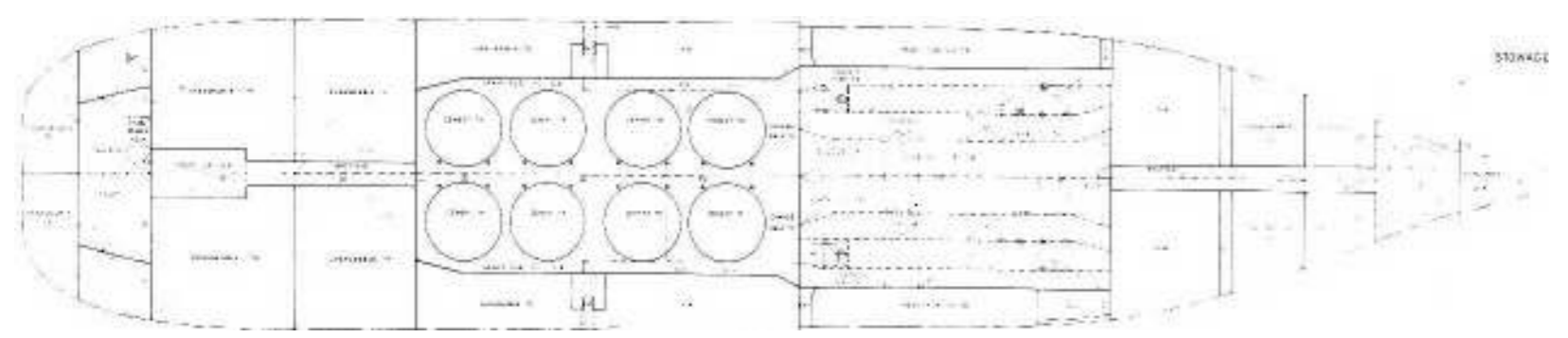
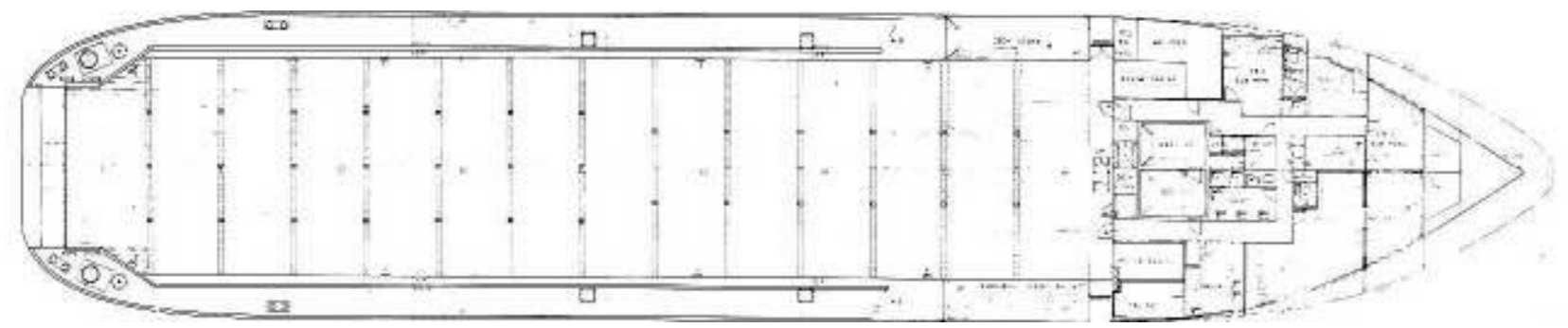
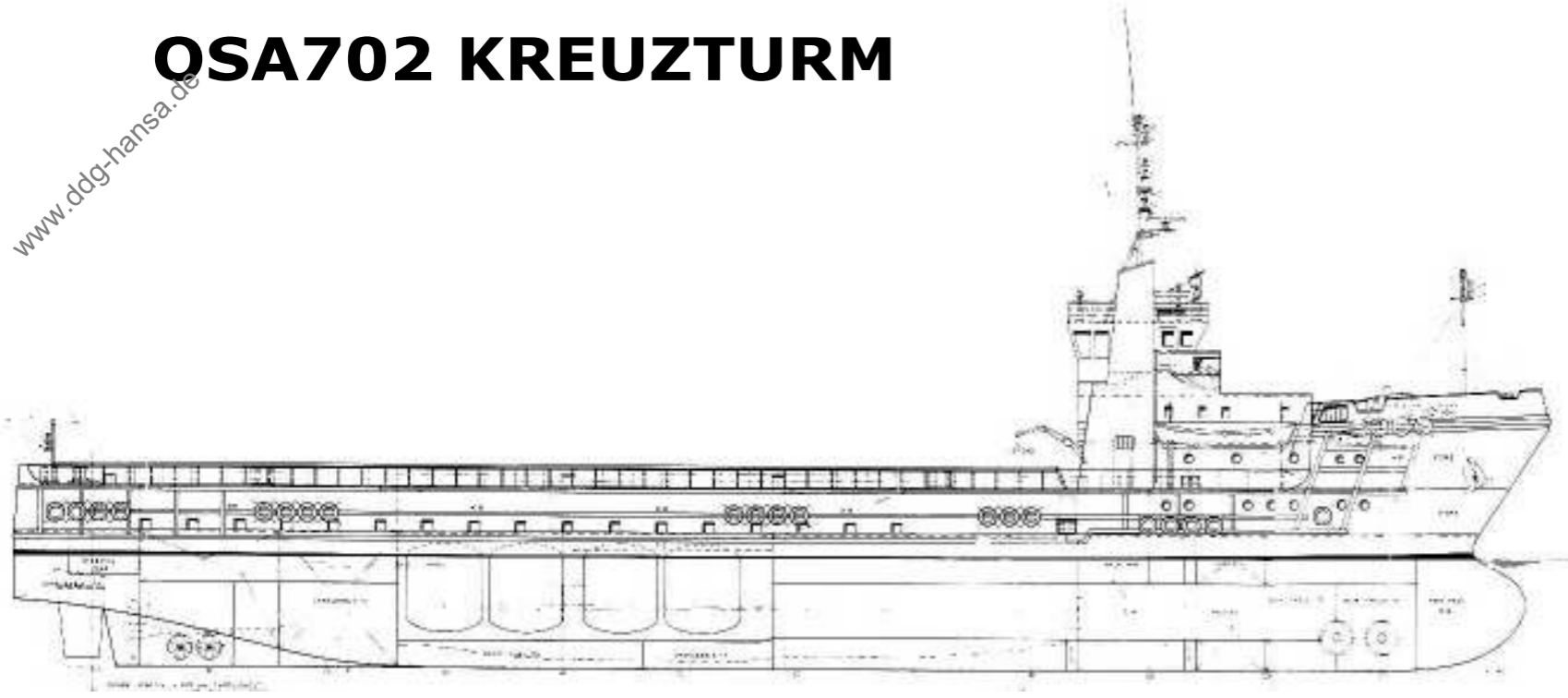
Offshore Supply Association Limited 



Outline Specifications

OSA702 KREUZTURM

www.ddg-hansa.de



OSA 702 KREUZTURM

OWNERS

O. D. G. Hansa, Bremen

BUILDERS

Suerker-Werft, Papenburg / West-Germany

COMMISSIONED

June 1977

GENERAL

Vessel built to German Lloyd Class GL + 100 A4 E / + MC AUT - 26/34 for world wide operations and specially designed to serve pipe-laying barges, oil drilling rigs, construction barges etc., having twin screws, (C/P) propellers, twin rudders, two bow thrust units and two stern thrust units. Vessel is equipped with a Honeywell 3-axis controller system providing precise manual control of the vessel's position and both automatic and manual control of the vessel's heading through interaction with the vessel's propulsion system. Vessel is able to carry a total cargo of approximately 2,250 metric tons (2,480 short tons).

PRINCIPAL DIMENSIONS

Length overall	78.85 m (258.71 ft.)
Breadth moulded	15.20 m (49.87 ft.)
Depth (main deck)	6.80 m (22.31 ft.)
Draught (Summer)	5.73 m (18.80 ft.)
Draught (light ship)	3.25 m (10.66 ft.)
Gross tonnage	1584
Registered tonnage	671
Call Sign	D E D F
Port of Registry	BREMEN

CARGO CAPACITY

Cargo deadweight approx. 2,250 metric tons (2,480 short tons).

Deck: Of special design suitable of carrying up to approx. 1,500 metric tons (1,650 short tons) of pipes or other drilling equipment.

Deck strengthening:	10 metric tons/m ² (2,048 lbs./sq. ft.)
Deck space:	539 m ² (5800 sq. ft.)
Free deck length:	50.80 m (166.67 ft.)
Free deck width:	10.60 m (34.77 ft.)

Bulk: 8 pressure tanks below deck with a total capacity of 348 m³ (12,290 cu. ft.)

Potable Water:	488 metric tons (128,915 US-galls.)
Drill Water:	459 metric tons (121,255 US-galls.)
Gas Oil:	276 metric tons (85,630 US-galls.)
Heavy Fuel:	334 metric tons (98,995 US-galls.)

up to 400 sec. Redwood

Max. capacity by utilizing eleven available dual purpose tanks:

Drill Water:	1,728 metric tons (456,485 US-galls.)
or	
Gas Oil:	1,546 metric tons (409,572 US-galls.)
Heavy Fuel Oil:	872 metric tons (250,436 US-galls.)

by utilizing a restricted number of dual purpose tanks

REFRIGERATED STORAGE CAPACITY

Deep Freeze:	14 m ³ (495 cu. ft.) at -33°C = 0°F
Cool Room:	14 m ³ (495 cu. ft.) at -2°C = 40°F

ACCOMMODATION

Officers:	4 single berth cabins
Crew:	6 single berth cabins 1 double berth cabin
Passengers:	16 persons in 4 berth cabins

AIRCONDITIONING

Vessel is fully airconditioned for hot and cold climates.

WHEELHOUSE

Of special design incorporating maximum visibility all round and dual control of main engines, steering gear and bow thrust units. The second set of controls is located at the aft end of the wheelhouse to give full control when manoeuvring stern first.

NAVIGATIONAL EQUIPMENT

Includes Radar, Direction Finder, Echo-sounder, Gyrocompass, Autopilot, SSB Radio and 2 VHF Marine Telephones.

JOYSTICK CONTROL SYSTEM

Vessel is equipped with a custom designed Honeywell 3-axis controller system for precise positioning while engaged in serving offshore structures in diverse weather conditions. This system provides manual control of the position and both automatic and manual control of the heading through interaction with the vessel's propulsion system.

A digital central processor unit accepts control signals from the 3-axis joystick, the wind sensor and the gyrocompass and transmits control signals to the thrusters and main propulsion.

The provision of this system ensures optimum possible service in adverse weather-conditions reducing service down to an absolute minimum.

ANCHORS AND CABLES

Two 1,920kg (4,233 lbs.) bow anchors each with approx. 714 m (2,343 ft.) 44 m (1 1/2") diam. steel chain cable. One spare anchor of 1,920 kg (4,233 lbs.).

CAPSTANS

2 powered stern warping capstans are fitted, each having a pull of 10 metric tons and a holding power of 130 metric tons.

GENERAL PURPOSE WINCH

Vessel is fitted with one 8 metric ton tugger winch to assist in cargo handling etc.

MAIN PROPULSION

Two KHD 58V 5M 540 diesel engines are fitted giving a total of 6000BHP continuous rating and 6600BHP maximum rating.

AUXILIARIES

Two shaft generators driven by the main engines, each producing 350 KW, 440V AC 60 cycles.
One auxiliary generator driven by the bow thrust diesel, producing 350 KW, 440V AC 60 cycles.
One emergency generator producing 150 KW, 440V AC 60 cycles.

BOW THRUST UNITS

In the forepart of the vessel two transverse bow thrust units are installed, of 800BHP each giving a maximum thrust of 6.5 metric tons (one fixed propeller/one C/P propeller).

STERN THRUST UNITS

In the aftpart of the vessel two transverse stern thrust units are installed, of 350BHP each giving a maximum of 3.0 metric tons (fixed propellers).

CARGO PUMPS

Potable water:	60m ³ /hr (15,850 US-galls.) at 60 m (200 ft.) head
Drill water:	150m ³ /hr (39,626 US-galls.) at 60 m (200 ft.) head
Fuel Oil:	150m ³ /hr (39,626 US-galls.) at 60 m (200 ft.) head
Fire fighting pump/ spare pump:	50m ³ /hr (13,209 US-galls.) at 60 m (200 ft.) head

BULK CARGO DELIVERY

Two compressors each of 260HP are installed.
bulk discharge rates: Each compressor capable of 50 metric tons/hr.
Two bulk commodities can be discharged simultaneously.

DISCHARGE POINTS

The vessel has the ability to discharge fuel, drilling water and bulk from bow, midships and stern positions.
A comprehensive complement of couplings are on board to suit all standard requirements.

FIRE FIGHTING EQUIPMENT

Vessel is equipped for fire fighting. A monitor is sited on a platform above the wheelhouse capable of discharging at a rate of 572 US-galls./min. of water respectively 423 US-galls./min. of foam.
Pump capacity: 130 m³/hr. (34,250 US-galls./hr. at 120 m (395 ft.) head. Vessel carries 5 m³ (177 cu. ft.) of liquid-foam in special tank.

ANTI-POLLUTION

Vessel is equipped with oil dispersant anti-pollution equipment. Special tanks accommodate approx. 37 m³ (1306 cu.ft.) of dispersant liquid and method of discharge is through the monitors.

SPEED

Cruising 15.0 knots consumption 23 metric tons/24 hrs.
Economic 13.0 knots consumption 17 metric tons/24 hrs.

NOTE

Main engines are capable to operate on fuel oil with a viscosity up to 400 sec. Redwood which results in a considerable saving on fuel costs.
Vessel capable of station keeping in adverse weather conditions with absolute precision by means of the Honeywell joystick control system which utilizes:
1.) twin screw variable pitch propellers (main propulsion)
2.) 2 bow thrusters (one variable pitch/one fixed propeller)
3.) 2 stern thrusters (fixed propellers)

Offshore Supply Association Limited

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