

Thor— NB 106 at Astilleros Asmar S.A.

DESIGN AND INTEGRATED SYSTEMS

UT 512 L Multipurpose Coastguard Vessel

This leaflet describes a;

OPV / Tug / Oil Recovery / Coast Guard Vessel, designed for following duties:

- Offshore stand-by, rescue and assistance
- Tanker assistance (up to approx 200.000 TDW)
- Towing vessel
- Oil recovery
- General law enforcement operations / fishery control
- Fire-fighting operations
- Salvage
- Hydrographic and Oceanographic survey

This comprises the UT-design philosophy for safety in operation; I.e. safety for the ship, it's crew and the environment it operates.

Hull lines based in the UT-design hull forms, well proven in the harsh North Sea, delivering a safe and stable platform for offshore operations. Two independent CPP propulsion plants, two bow and one stern thrusters, one Swing up Azimuth thruster and two independent flap rudders ensure excellent manoeuvrability and redundancy.

Simple and easy user interface with independent as well as integrated single lever joystick control, for flawless control of propulsion, thrusters and rudders.

The vessel is designed for world wide service, and is fully compliant with relevant Class, SOLAS, IMO and MARPOL resolutions.

DESIGN AND

INTEGRATED SYSTEMS

Ship Design provides integrated system solutions for:

- Propulsion
- Power generation
- Automation
- Deck machinery incl. cranes
- Unified Bridge

General:

The vessel is designed to satisfy the general demands for Coast Guard Safety Services.

Class:

LRS +100A1, Ice class 1B + LMC, UMS, Occasional Oil Recovery Duties, EP, DP(AM) Crew Accommodation Comfort acc. to class notation CAC3

Fire-Fighting ship 1 (2400) with water spray

Regulations:

SOLAS, IMO, IMO A469 (XII), MARPOL, National Authority

Main dimensions:

L.O.A.	appr. 93.65 m
Performance: Speed Bollard pull	appr. 20 knots appr. 117 ton
Tonnage - Capacities:	
Potable water	appr. 260 m ³
Fuel Oil	appr. 1330 m³
Ballast water	appr. 970 m ³
Oil Recovery	appr. 640 m ³
Dispersant chemicals	appr. 10 m ³
Free deck area	appr. 290 m ²

Dead weight appr. 2000 ton

Anti rolling system: 2 x Passive anti rolling tanks

Propulsion:

2 x Bergen medium spee	d main engines	2 x 4500 kW
2 x KM CP main propeller	rs (Open / feathering)	

Side thrusters – KM:

Bow:	
2 x electric driven tunnel thruster	2 x 450 kW
1 x electric driven, swing up Azimuth thruster	1 x 880 kW
Stern:	
1 x electric driven tunnel thruster	1 x 450 kW

DP / Joystick system:

KM DP1

KM - Single lever joystick with auto heading

Steering system:

2 x KM Flap rudders 2 x KM Rotary vane steering gears.

Electrical power generation:

Shaft Generators, driven	from main gear PTO:	2 x	2000 kVA
Main Diesel Generators:	-	4 x	689 kVA
Emergency Generator		1 x	225 kVA

Electrical system:

440 VAC 50-60 Hz for generators and heavy consumers 220 VAC 50-60 Hz for illumination and small consumers 220 VAC 60 Hz clean power for electronic equipment 24 VDC for electronic equipment

Deck machinery (KM): 1 x Low pressure hydraulic windlass

3 x Low pressure hydraulic Capstans, 6 ton Towing:

- Low pressure hydraulic towing winch Capacity: 50 ton pull 250 ton brake 1 x
- Low pressure hydraulic light line towing winch 1 x Capacity: 31 ton pull - 100 ton brake Fully remote controlled with tension and length reading in wheelhouse
- 2 x Hydraulic remote operated towing pins

Machinery systems:

Separate auxiliary systems for port and starboard propulsion plant

Navigational equipment:

X-band TM radar / S-band ARPA radar DGPS Gyro compass Navigational Echo Sounder Speed log Electronic chart system

Scientific/Oceanographic sonars:

Hydroacoustic hull mounted sensors Multibeam 50 kHz, 126 beams, 10m-3000m Positioning system Sound velocity probe Misc echo sounders

Communication system:

Radio installation according to GMDSS A3, including Satcom- B/C

Accommodation:

Accommodation for a complement of 48 in single and twin shared cabins with attached WC / shower facilities. Mess room, day room, etc.

Rescue equipment:

2 x fast rescue crafts for min. 10 men. Both arranged in approved, single point, heave compensated davit. 2 x floating reversible rescue nets

Life saving equipment:

Life saving according to SOLAS requirements for cargo ships without life boat.

External fire fighting equipment: Installation as per Fi-Fi 1 notation.

Automation system (KM):

Machinery monitoring Pump and valve control Tank sounding

PLEASE NOTE:

All figures to be treated as a subject to change, without further notice, in order to meet Owners requirements or application.

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