



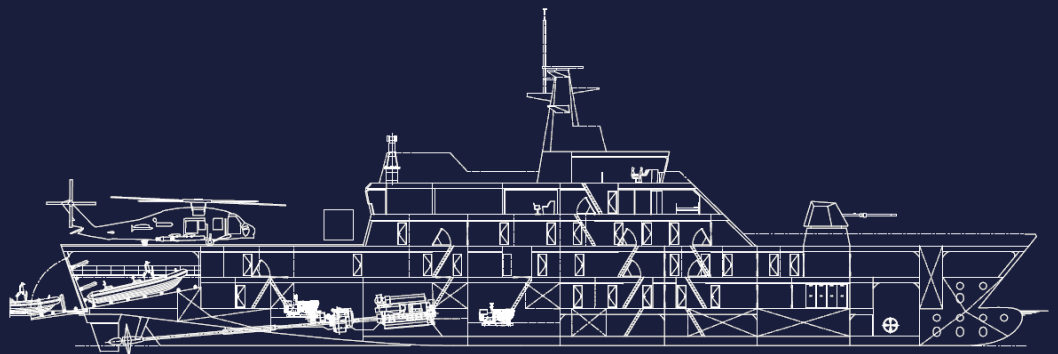
NAVY SHIPS PORTFOLIO

SEA THE FUTURE



MED 80 CLASS OPV

Offshore Patrol Vessel



MED 80 CLASS OPV



DIMENSIONS

LENGTH O.A.	84,20 m
BEAM	14,00 m
DRAFT ^{design}	3,25 m
DISPLACEMENT	1750 t

PERFORMANCES

MAX SPEED	+20 knots
MAX CONT. SPEED	14.0 knots
ECONOMICAL SPEED	12 knots
ENDURANCE	6 000 nm

TANK CAPACITIES

FUEL (F-76)	~ 300 t
POTABLE WATER	60 t
JP-5	4 t

ACCOMMODATION

Comfortable Accommodation for 66 Crew and 14 Spares
Spacious Bridge
Separate OPS Room for Surveillance and Gun Control
Flight Office, Administrative Office, Ship Office
Galley, Dry Provision, Pantry, Wardroom/Mess Halls etc.
Length of Stay at Sea: 21 Days

PROPULSION SYSTEM

MAIN ENGINE	2 x 3300 kW
PROPELLER PROPULSION	2 x Shafts & CPP
DIESEL GENERATOR	4 x 500 kW

WEAPON / SENSORS

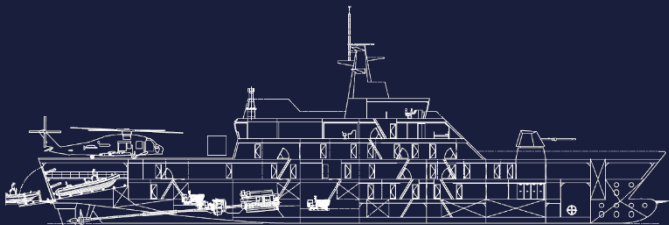
- MAIN FORWARD GUN UP TO 76 MM
- 2 x 12.7 MM STABILIZED PLATFORM MACHINE GUNS (ASELSAN STAMP)
- MEDIUM RANGE SURVIVAL RADAR
- E/O FIRE CONTROL SENSOR

SHIP EQUIPMENT

- 2 x RHIB
- 1 x 10 T TELESCOPIC CRANE FOR HANDLING CONTAINER
- 2 x CONTAINERIZED MISSION MODULES
- 1 x STERN LAUNCHING RAMP
- WAVE COMPENSATED DAVIT (SEA STATE 5)

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY DELTA MARINE
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



SEA THE FUTURE



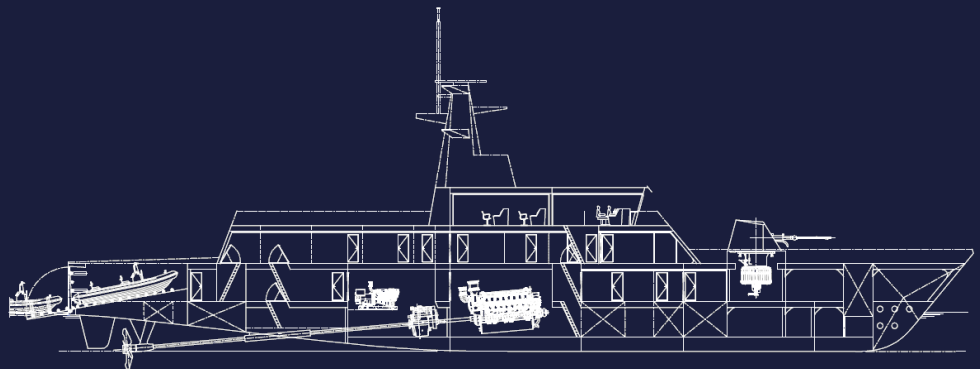
MAIN TASKS

- Exclusive Economic Zone Surveillance
- Counter Drugs & Weapons Trafficking
- Piracy & Smuggling Interdiction
- Disaster & Humanitarian Relief
- Pollution Control
- Fishery Inspection & Protection



MED 60 CLASS OPV

Offshore Patrol Vessel



MED 60 CLASS OPV



DIMENSIONS

LENGTH O.A.	62,00 m
BEAM	9,60 m
DRAFT ^{design}	2,65 m
DISPLACEMENT	560 t

PERFORMANCES

MAX SPEED	28 knots
MAX CONT. SPEED	18 knots
ECONOMICAL SPEED	12 knots
ENDURANCE	2200 nm @ 18 knots

TANK CAPACITIES

FUEL (F-76)	~ 90 t
POTABLE WATER	30 t

ACCOMMODATION

Comfortable Accommodation for 44 Crew and 11 Spares
Spacious Bridge
Separate OPS Room for Surveillance and Gun Control
Administrative Office, Ship Office
Galley, Dry Provision, Pantry, Wardroom/Mess Halls etc

PROPULSION SYSTEM

MAIN ENGINE	2 x 4000 kW
PROPELLER PROPULSION	2 x 2800 nm, CPP
DIESEL GENERATOR	2 x 560 Kw + 1 x 200 kW

WEAPON / SENSORS

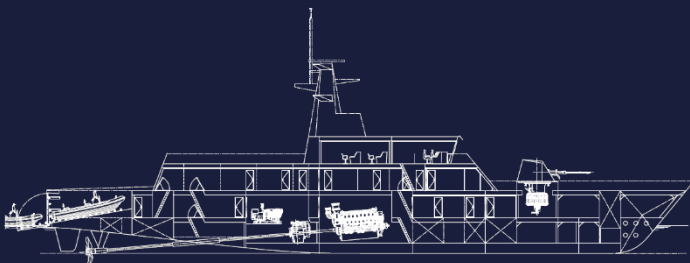
- MAIN FORWARD UP TO 76 MM
- 2 x 12.7 MM STABILIZED PLATFORM MACHINE GUNS (ASELSAN STAMP)
- MEDIUM RANGE SURVIVAL RADAR
- E/O FIRE CONTROL SENSOR

SHIP EQUIPMENT

- 1 x RHIB
- 1 x STERN LAUNCHING RAMP

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY DELTA MARINE
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



SEA THE FUTURE



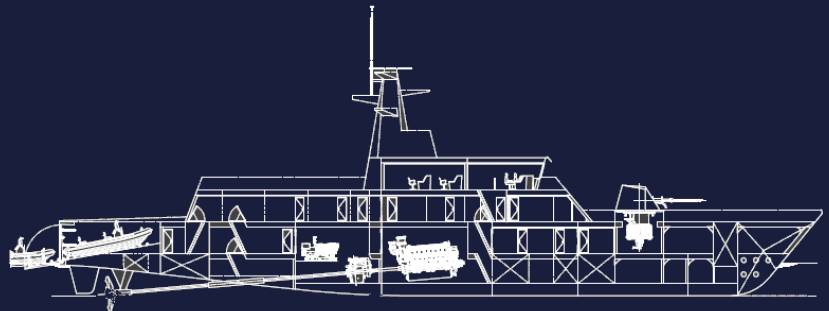
MAIN TASKS

- Exclusive Economic Zone Surveillance
- Counter Drugs & Weapons Trafficking
- Privacy & Smuggling Interdiction
- Search & Rescue Operations
- Disaster & Humanitarian Relief
- Pollution Control
- Fishery Inspection & Protection



FPB-62

Fast Patrol Boat



FPB-62



DIMENSIONS

LENGTH O.A.	62,00 m
BEAM	9,60 m
DRAFT ^{design}	2,65 m
DISPLACEMENT	560 t

PERFORMANCES

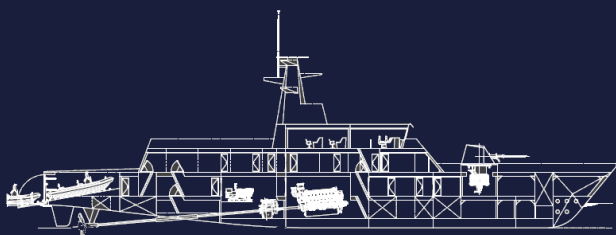
MAX SPEED	28 knots
MAX CONT. SPEED	18 knots
ECONOMICAL SPEED	20 knots
ENDURANCE	2200 nm @ 18 knots

TANK CAPACITIES

FUEL (F-76)	~ 90.0 t
POTABLE WATER	30 t

ACCOMMODATION

Comfortable Accommodation for 44 Crew and 11 Spares
Spacious Bridge
Separate OPS Room for Surveillance and Gun Control
Administrative Office, Ship Office
Galley, Dry Provision, Pantry, Wardroom/Mess Halls, etc.



PROPULSION SYSTEM

MAIN ENGINE	2 x 4000 kW
PROPELLER PROPULSION	2 x 2800mm, CPP
DIESEL GENERATOR	2 x 590 Kw + 1 x 200 kW

WEAPON / SENSORS

- MAIN FORWARD GUN UP TO 76 MM OR 5/54"
- 2 x 12.7 MM STABILIZED PLATFORM MACHINE GUNS (ASELSAN STAMP)
- MEDIUM RANGE SURVIVAL RADAR
- E/O FIRE CONTROL SENSOR

SHIP EQUIPMENT

- 1 x RHIB
- 1 x STERN LAUNCHING RAMP

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY DELTA MARINE
CONTRACT DESIGN
PRODUCTION ENGINEERING
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ADVANCED ENGINEERING ANALYSES

SEA THE FUTURE



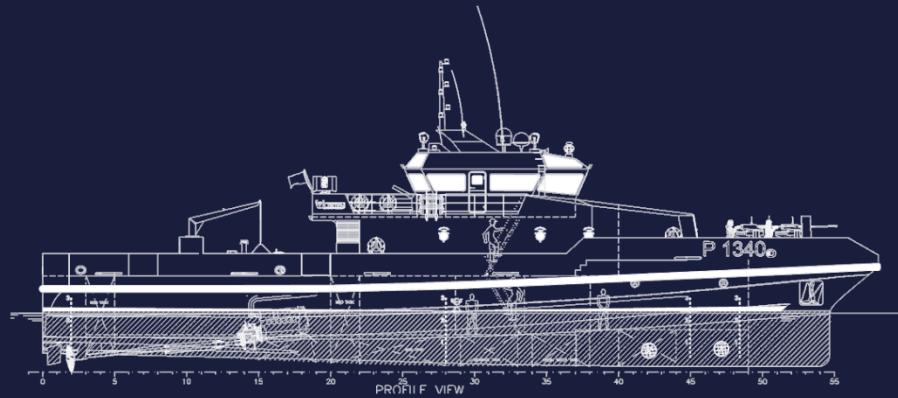
MAIN TASKS

- Exclusive Economic Zone Surveillance
- Counter Drugs & Weapons Trafficking
- Privacy & Smuggling Interdiction
- Search & Rescue Operations
- Disaster & Humanitarian Relief
- Training Vessel for Cadets
- Fishery Inspection & Protection



MPB-37

Multi Purpose Patrol Boat



MPB-37



DIMENSIONS

LENGTH O.A.	37,75 m
BEAM	7,50 m
DRAFT _{design}	2,50 m
DEPTH	4,10 m

PERFORMANCES

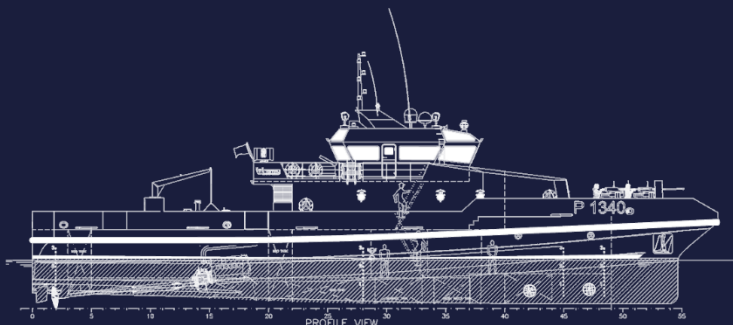
MAX SER. SPEED	25 knots
CRUISING SPEED	15 knots
ECONOMICAL SPEED	20 knots
ENDURANCE	25 knots (3 days)
	15 knots (7 days)
	12 knots (8 days)

TANK CAPACITIES

MARINE DIESEL OIL	~ 37.0 t
POTABLE WATER	6 t

ACCOMMODATION

Comfortable Accommodation for 10 Crew and 20 Cadet



PROPULSION SYSTEM

MAIN ENGINE 2 x 1500 kW

WEAPON / SENSORS

- 2 x 12.7 MM MANUAL CONTROL MACHINE GUN
- 1 x 20 MM STABILIZED PLATFORM MACHINE GUN
- 2 x NAVIGATION RADAR
- ELECTRO-OPTICAL SURVEILLANCE SYSTEM

SHIP EQUIPMENT

1 x RHIB

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY TOMAY
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES

SEA THE FUTURE



MAIN TASKS

Patrol / Escort / Fast Attack

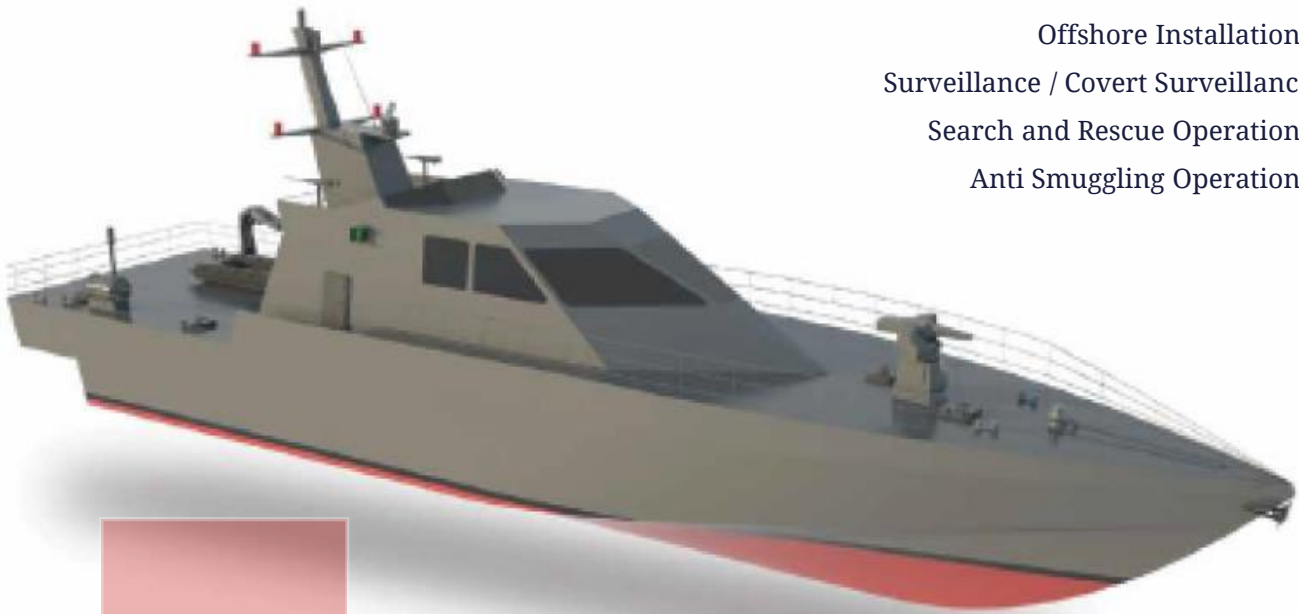
Ainti-piracy Operations

Anti-terrorist Protection of the Coastal and
Offshore Installations

Surveillance / Covert Surveillance

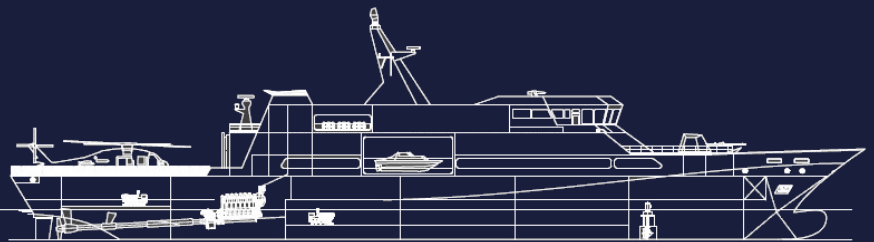
Search and Rescue Operations

Anti Smuggling Operations



HSBP-35

High Speed Patrol Boat



HSBP-35



DIMENSIONS

LENGTH O.A.	34,50 m
BEAM	7,50 m
DRAFT ^{design}	1,60 m
DISPLACEMENT	110 t

PERFORMANCES

MAX SPEED	45 knots
ECONOMICAL SPEED	20 knots
ENDURANCE	600 nm @ 20 knots

TANK CAPACITIES

FUEL (F-76)	~ 18.0 t
POTABLE WATER	2.0 t

ACCOMMODATION

Accommodation for 15 Crew
Galley, Mess Rooms

PROPULSION SYSTEM

MAIN ENGINE	3 x 1900 kW
PROPELLER PROPULSION	3 x Water Jets
DIESEL GENERATOR	2 x 100 kW

WEAPON / SENSORS

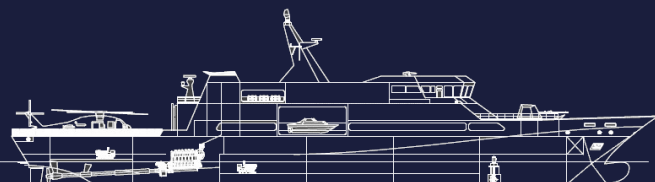
- NAVIGATION RADAR AND COMMUNICATION SYSTEMS
- 2 x 12.7 MM STABILIZED PLATFORM MACHINE GUNS (ASELSAN STAMP)
- REDUCED RADAR CROSS SECTION (RCS)

SHIP EQUIPMENT

1 x RHIB

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY DELTA MARINE
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



SEA THE FUTURE



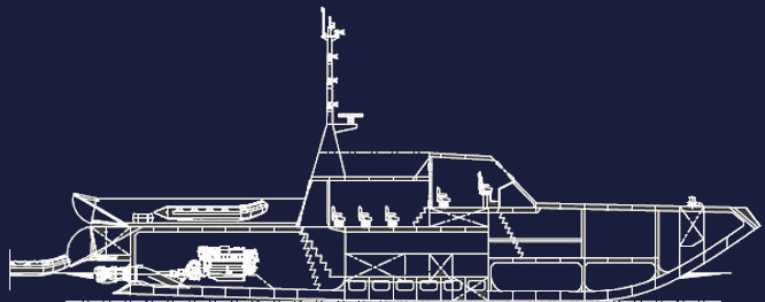
MAIN TASKS

- Counter Terrorist Protection of the Coastal And Offshore Installations
- Search and Rescue Operations
- Anti Smuggling Operations
- To Meet Police, Customs, Health Authority etc.
- Missions as to be reconfigured Upon Request



SAT

Special Force Boat



SAT



DIMENSIONS

LENGTH O.A.	28,00 m
BEAM	6,00 m
DRAFT ^{design}	1,13 m
DISPLACEMENT	50 t

PERFORMANCES

MAX SPEED	+50 knots
MAX CONT. SPEED	+30 knots
ECONOMICAL SPEED	15 knots
ENDURANCE	350 nm @ 45 knots

TANK CAPACITIES

FUEL (F-76)	~6,3 t
POTABLE WATER	2.4 t

ACCOMMODATION

16 Pax UAT Personnel Cabin
4 Pax Capacity Wounded Person Transferring Cabin
Crypto Cabin
The Possibility to Accomodate 8 more UAT Unit Chair

PROPULSION SYSTEM

MAIN ENGINE	2 x 1790 kW
PROPELLER PROPULSION	3 x Water Jets & Gearboxes

WEAPONS / SENSORS

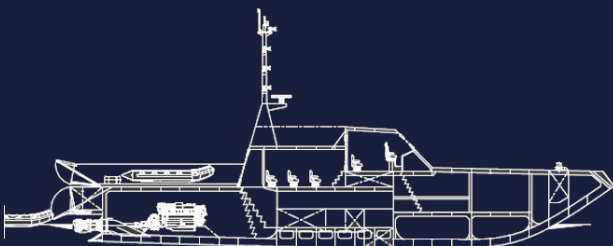
- NAVIGATION RADAR
- 2 x 12.7 MM MACHINE GUNS
- 1 x 25 MM OR 1 x 30MM STABILIZED PLATFORM MACHINE GUNS (ASELSAN STAMP)
- REDUCED RADAR CROSS SECTION

SHIP EQUIPMENT

2 x RHIB

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY DELTA MARINE
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



SEA THE FUTURE



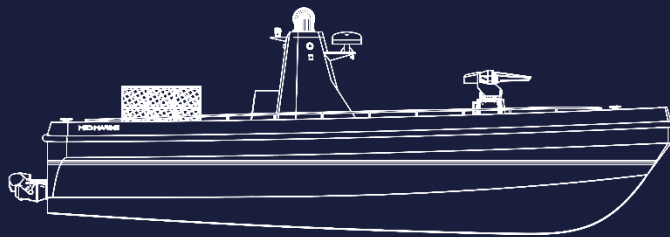
MAIN TASKS

- Naval Warfare
- Amphibious and Coastal Security Operations
- Asymmetric Threat Engagement
- Border Patrol and Maritime Support
- Surveillance and Interdiction
- Search and Rescue Operations Support



MED-TURGAK

Unmanned Surface Vehicle



MED-TURGAK



DIMENSIONS

LENGTH O.A.	16,00 m
BEAM	4,70 m
DISPLACEMENT	20 t

PERFORMANCES

SPEED MAX	50 knots
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PROPULSION SYSTEM

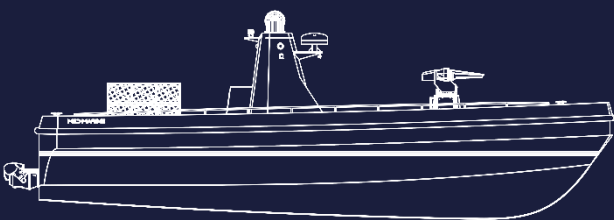
MAIN ENGINE	2 x DIESEL ENGINE
	2 x WATER JETS

WEAPON AND SENSORES

- 1 x 12.7 MM STABILIZED REMOTE CONTROLLED MACHINE GUN (ASELSAN STAMP)
- NAVIGATION RADAR
- ELECTRO OPTICAL SURVEILLANCE AND RECONNAISSANCE SYSTEM
- CCTV
- 4 x THERMAL CAMERAS
- AUTOMATIC IDENTIFICATION SYSTEM (AIS)
- ECHO SOUNDER, GYRO, DGPS

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY MED MARINE
PROVEN AUTONOMY SYSTEM
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



SEA THE FUTURE



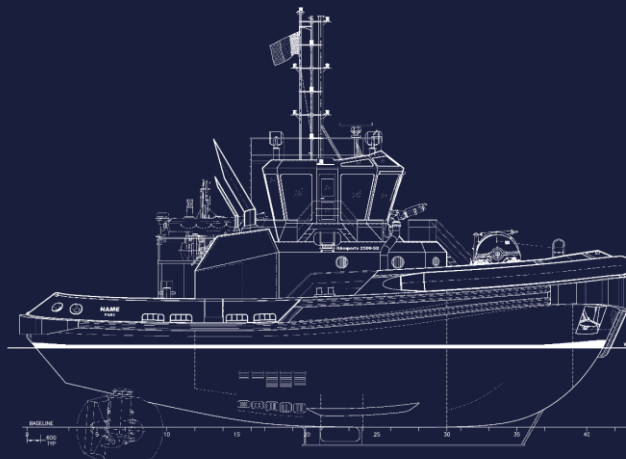
MAIN TASKS

- Mooring or Berthing Operation
- Mooring Maneuvers and Line Passing in Port
- Escort Maneuvers in the Sea, Coastal Area
- Participation in Search and Rescue Missions at Sea (SAR)



MED-2500

Harbour Tug



MED-2500



PROPULSION SYSTEM

PROPULSION TYPE	AZIMUTH STERN DRIVE (ASD)
MAIN ENGINES	TWIN DIESEL ENGINES
PROPELLERS	FIXED PITCH PROPELLERS WITH HIGH EFFICIENCY NOZZLES

NAVIGATION AND COMMUNICATION

- INTEGRATED BRIDGE AND MACHINERY CONTROL SYSTEM
- RADAR, AIS, ECDIS, ECHO SOUNDER, SPEED LOG
- INTERNAL AND EXTERNAL COMMUNICATION SYSTEMS (VHF, MF/HF, INMARSAT)
- CCTV AND ALARM MONITORING SYSTEMS

SAFETY EQUIPMENTS

- SOLAS-COMPLIANT RESCUE BOAT AND RESCUE BOAT CRANE
- LIFE RAFTS

SCOPE OF SERVICES

PROVEN DESIGN BY ROBERT ALLAN
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES

DIMENSIONS

LENGTH O.A.	25,40 m
BEAM	11,00 m
DRAFT _{extreme}	4,90 m
DISPLACEMENT	511 tons

PERFORMANCES

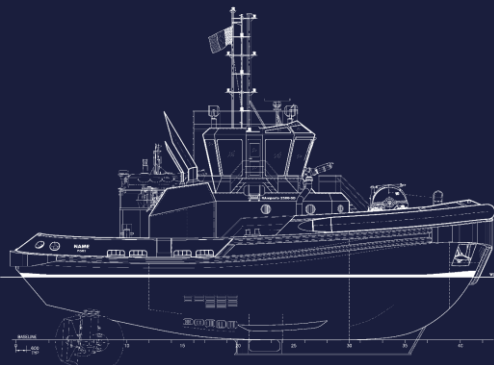
SPEED, AHEAD	min 12 knots
SPEED, ASTERN	min 10 knots
BOLLARD PULL, AHEAD	min 55 tons
BOLLARD PULL, ASTERN	min 50 tons

TANK CAPACITIES

FUEL OIL	70,9 m ³
POTABLE WATER	9,2 m ³

ACCOMMODATION

8 PERSONS



SEA THE FUTURE



MAIN TASKS

Mooring or Berthing Operation

Mooring Maneuvers and Line Passing in Port

Escort Maneuvers in the Sea, Coastal Area

Participation in Search and Rescue

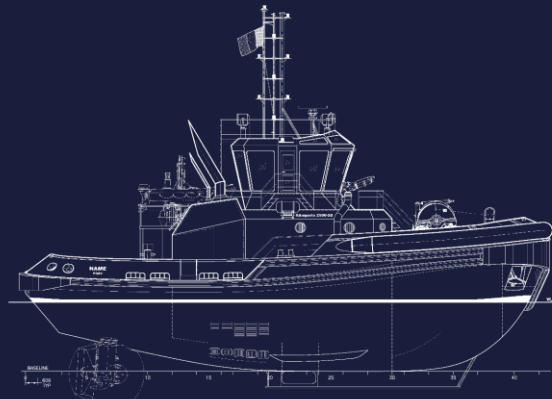
Missions at Sea (SAR)

Firefighting (Fi-Fi 1 Capability)



VOLTRA-2500

Battery Electric Tug



VOLTRA-2500



DIMENSIONS

LENGTH O.A.	25,25 m
BEAM	12,10 m
DRAFT _{navigational}	4,82 m
GROSS TONNAGE	< 400

PERFORMANCES

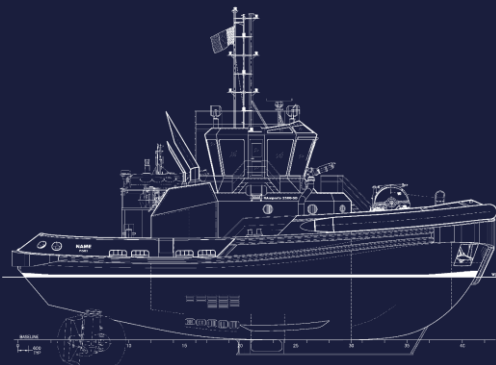
SPEED	8 kn on batteries
SPEED ECONOMICAL	10.6 kn on batteries
BOLLARD PULL, AHEAD	70 tons on batteries only 25 tons on one genset only 40 tons on two gensets only
BOLLARD PULL, ASTERN	approx. 62 tons with full power

TANK CAPACITIES

DIESEL OIL	58,6 m ³
POTABLE WATER	13,8 m ³

ACCOMMODATION

4 (UP TO 6 PERSONS)



PROPULSION SYSTEM

PROPULSION TYPE	AZIMUTH STERN DRIVE (ASD)
BATTERIES	2 x BATTERY BANKS
PROPELLERS	FIXED PITCH PROPELLERS WITH HIGH EFFICIENCY NOZZLES

NAVIGATION AND COMMUNICATION

- INTEGRATED BRIDGE AND MACHINERY CONTROL SYSTEM
- RADAR, AIS, ECDIS, ECHO SOUNDER, SPEED LOG
- INTERNAL AND EXTERNAL COMMUNICATION SYSTEMS (VHF, MF/HF, INMARSAT)
- CCTV AND ALARM MONITORING SYSTEMS

SAFETY EQUIPMENTS

- SOLAS-COMPLIANT RESCUE BOAT AND RESCUE BOAT CRANE (OPTIONAL)
- LIFE RAFTS

SCOPE OF SERVICES

CONCEPTUAL DESIGN BY ROBERT ALLAN
CONTRACT DESIGN
PRODUCTION ENGINEERING
POST PRODUCTION SERVICES
ADVANCED ENGINEERING ANALYSES



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