

NAVAL ENGINEERING





ADA CLASS CORVETTE

Ada Class Corvette is a modern warship equipped with advanced Command & Control System and sensors & weapons in order to accomplish ASW, SUW, and AAW duties.



CAPABILITIES

- High Maneuvering Capability
- Sea Keeping and Stability
- High durability and disturbed sensors & weapons in response to fires and damages
- Sensors & weapons configuration for principal warfare areas
- Stealth design and low radar cross section
- Reduced underwater noise against submerged threats and degaussing system
- Redundancy philosophy

MAIN DIMENSIONS

Length Overall	99.4 m
Length Waterline	90.5 m
Max. Beam	14.4 m
Draft	3.95 m

SPEED & ENDURANCE

Max. Speed	29+ kts
Cruising Speed	15 kts
Endurance	3500 nm at 15 kts

TONNAGE

Displacement	2400 t
--------------	--------

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area

SENSORS & WEAPONS

- Network Supported Data Integrated Combat Management System
- 3D Search and Track Radar
- E/O Track System
- Fire Control Radar(s)
- Navigation and LPI Radars
- ESM
- IR Signature Monitoring System
- Chaff Decoy System
- Laser Warning System
- Hull Mounted Sonar
- Torpedo Counter Measure System
- Torpedo tubes
- SSM
- 2x 12.7 mm Stabilized Gun
- PDMS
- 76 mm Gun
- IFF System
- Integrated Communication System
- X-BAND SATCOM
- Ship Data Distribution System
- Ship Information System
- Navigaiton Systems
- (W)ECDIS
- WAIS

MAIN PROPULSION

- CODAG (2x Diesel Engine + 1x Gas Turbine)
- 2x Shaft and 2x Propeller (CPP)

POWER GENERATION

- 4x Diesel Generator

HELICOPTER PLATFORM & HANGAR

- Flight deck for 10 t class helicopter
- Helicopter Hangar

SHIP'S BOATS

- 2x RHIBs

ACCOMMODATION

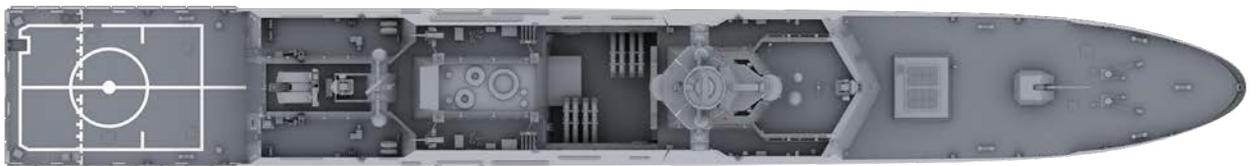
- Comfortable accommodation for 106 crew





I CLASS FRIGATE

I Class Frigate is an advanced design based on the experience gained from Ada Class Corvettes. I Class Frigates are equipped with advanced Network Supported Data Integrated Command & Control System and sensors & weapons in order to accomplish mainly AAW and SUW as well as ASW duties.



CAPABILITIES

- High maneuvering capability
- Sea keeping and stability
- High durability and disturbed sensors & weapons in response to fires and damages
- Sensors & weapons configuration for principal warfare areas
- Stealth design and low radar cross section
- Reduced underwater noise against submerged threats and degaussing system
- Redundancy philosophy
- Improved EW Capabilities
- Improved AAW Capabilities
- Improved Communication Systems
- Network Enabled Capability

MAIN DIMENSIONS	
Length Overall	113.2 m
Length Waterline	105.2 m
Max. Beam	14.4 m
Draft	4.05 m

SPEED & ENDURANCE	
Max. Speed	29+ kts
Cruising Speed	14 kts
Endurance	5700 nm at 14 kts

TONNAGE	
Displacement	3000 t

MAIN PROPULSION

- CODAG (2x Diesel Engine + 1x Gas Turbine)
- 2x Shaft and 2x Propeller (CPP)

POWER GENERATION

- 4x Diesel Generator

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area

SENSORS & WEAPONS

- Network Supported Data Integrated Combat Management System
- 3D Search and Track Radar
- E/O Track System
- Fire Control Radars
- Illumination Radars
- Navigation and LPI Radars
- ESM
- ECM
- IR Search & Track System
- Chaff Decoy System
- Laser Warning System
- Hull Mounted Sonar
- Torpedo Counter Measure System
- Torpedo tubes
- SSM
- VLS
- 2x 25 mm Stabilized Gun
- CIWS
- 76 mm Gun
- IFF System
- ADSB
- Integrated Communication System (IP based)
- X and Ku-BAND SATCOM
- Ship Data Distribution System
- Ship Information System
- Navigation Systems
- (W)ECDIS
- WAIS

HELICOPTER PLATFORM & HANGAR

- Flight deck for 10 t class helicopter
- Helicopter Hangar

ACCOMMODATION

- Comfortable accommodation for 123 crew

SHIP'S BOATS

- 2 x RHIBs





OFFSHORE PATROL VESSEL

OPV-1900

OPV-1900 is mainly designed to conduct efficient surveillance and patrolling duties for the Maritime Jurisdiction Areas.

OPV-1900's design capabilities include maritime security missions and search & rescue operations, in different operational areas.



CAPABILITIES

- Surface warfare
- Maritime security
- Surveillance
- Search and rescue operations
- Day & Night helo operations (HIFR & Vertrep)
- Sea keeping up to Sea State 5
- Helo operation up to Sea State 4
- Stealth design and low radar cross section

MAIN DIMENSIONS

Length Overall	89.5 m
Length Waterline	88.6 m
Max. Beam	13.1 m
Draft	3.15 m

SPEED & ENDURANCE

Maximum Speed	22+ kts
Cruise Speed	16 kts
Endurance	5000 nm at 16 kts

TONNAGE

Displacement	1900 t
--------------	--------

SENSORS & WEAPONS

- Combat Management System
- Navigation Radar(s)
- Navigation Systems
- ECDIS
- Integrated Communication System
- E/O System (TV/IR/LRF)
- ESM
- IFF System
- Chaff Decoy System
- 76 mm Gun
- 3x 25 mm Stabilized Gun
- SSM
- Ship Data Distribution System
- Ship Information System

MAIN PROPULSION

- 2x Diesel Engine
- 2x Shaft and 2x Propeller (CPP)
- 1x Tunnel thruster

POWER GENERATION

- 3x Diesel Generator

HELICOPTER PLATFORM & HANGAR

- Flight deck for 10 t class helicopter
- 8 tonnes hydrolic telescopic crane

SHIP'S BOATS

- 3x RHIBs

ACCOMMODATION

- Comfortable accommodation for 80 crew

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area



OFFSHORE PATROL VESSEL

OPV-2100

OPV-2100 is mainly designed to conduct efficient surveillance and patrolling duties for the Maritime Jurisdiction Areas.

OPV-2100's design capabilities include maritime security missions, Humanitarian Assistance and Disaster Relief missions, protection of marine resources as well as search & rescue operations in different operational areas.



CAPABILITIES

- Surface warfare
- Maritime security
- Surveillance
- Humanitarian Assistance and Disaster Relief (HADR) operations
- Protection of Maritime Jurisdiction Areas
- Search and rescue operations
- Day & Night helo operations (HIFR & Vertrep)
- Sea keeping up to Sea State 7
- Helo operation up to Sea State 4
- Stealth design and low radar cross section

MAIN DIMENSIONS

Length Overall	99.5 m
Length Waterline	93.8 m
Max. Beam	13.9 m
Draft	3.5 m

SPEED & ENDURANCE

Maximum Speed	20+ kts
Cruise Speed	15 kts
Endurance	5500 nm at 15 kts

TONNAGE

Displacement	2100 t
--------------	--------

SENSORS & WEAPONS

- Combat Management System
- Navigation Radar(s)
- Navigation Systems
- ECDIS
- Integrated Communication System
- E/O System (TV/IR/LRF)
- ESM
- IFF System
- Chaff Decoy System
- 30 mm Gun
- 2x 12.7 mm Stabilized Gun
- Ship Data Distribution System
- Ship Information System

MAIN PROPULSION

- 2x Diesel Engine
- 2x Shaft and 2x Propeller (CPP)
- 1x Tunnel thruster

POWER GENERATION

- 4x Diesel Generator

HELICOPTER PLATFORM & HANGAR

- Flight deck for 10 t class helicopter
- Helicopter Hangar

SHIP'S BOATS

- 2 x RHIBs
- 2 x 20 ft Containers with handling system

ACCOMMODATION

- Comfortable accommodation for 88 crew

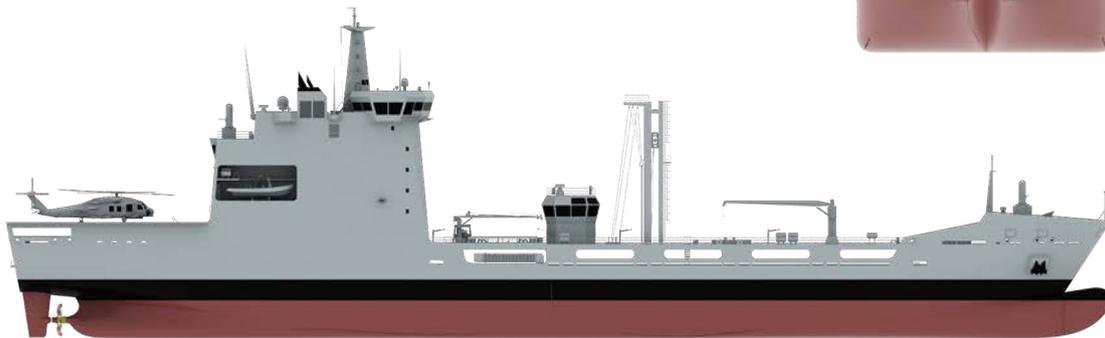
GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area



FLEET LOGISTIC SUPPORT SHIP

Fleet Logistic Support Ship is designed to provide logistics support in terms of fuel, water, and ammunition to combat and auxiliary units and could be equipped with state-of-the-art medical facilities to support Navies during war and disaster relief missions.



CAPABILITIES

- Provide logistic support to the ships at sea in terms of dry and liquid cargo
- Support Search & Rescue Operations through embarked helos
- Provide limited medical support to the ships at sea
- Day & Night helo operations (HIFR)
- Capability for future installation of modern multi-dimensional sensors & weapons suites
- Capability for defence against Chemical, Biological, Radiological, and Nuclear (CBRN) threats

MAIN DIMENSIONS

Length Overall	158.4 m
Length Waterline	155.9 m
Max. Beam	22 m
Draft	7.05 m

SPEED & ENDURANCE

Maximum Speed	20+ kts
Cruise Speed	15 kts
Endurance	10000 nm at 15 kts

TONNAGE

Displacement	16100 t
--------------	---------

SENSORS & WEAPONS

- Combat Management System
- 2x CIWS
- ESM
- Chaff Decoy System
- 2x 25 mm Stabilized Gun
- IR Search & Track System
- Integrated Communication System
- Bridge Control System
- Navigation Radar
- Navigation Systems
- ECDIS
- Ship Data Distribution System
- Ship Information System

MAIN PROPULSION

- 2x Diesel Engine (medium speed)
- 2x Shaft and 2x Propeller (CPP)

POWER GENERATION

- 4x Diesel Generator

SHIP'S BOATS

- 2x RHIBs

ACCOMMODATION

- Comfortable accommodation for 208 crew

HELICOPTER PLATFORM & HANGAR

- Flight deck for 10 t class helicopter
- Helicopter Hangar

GROWTH CAPABILITIES

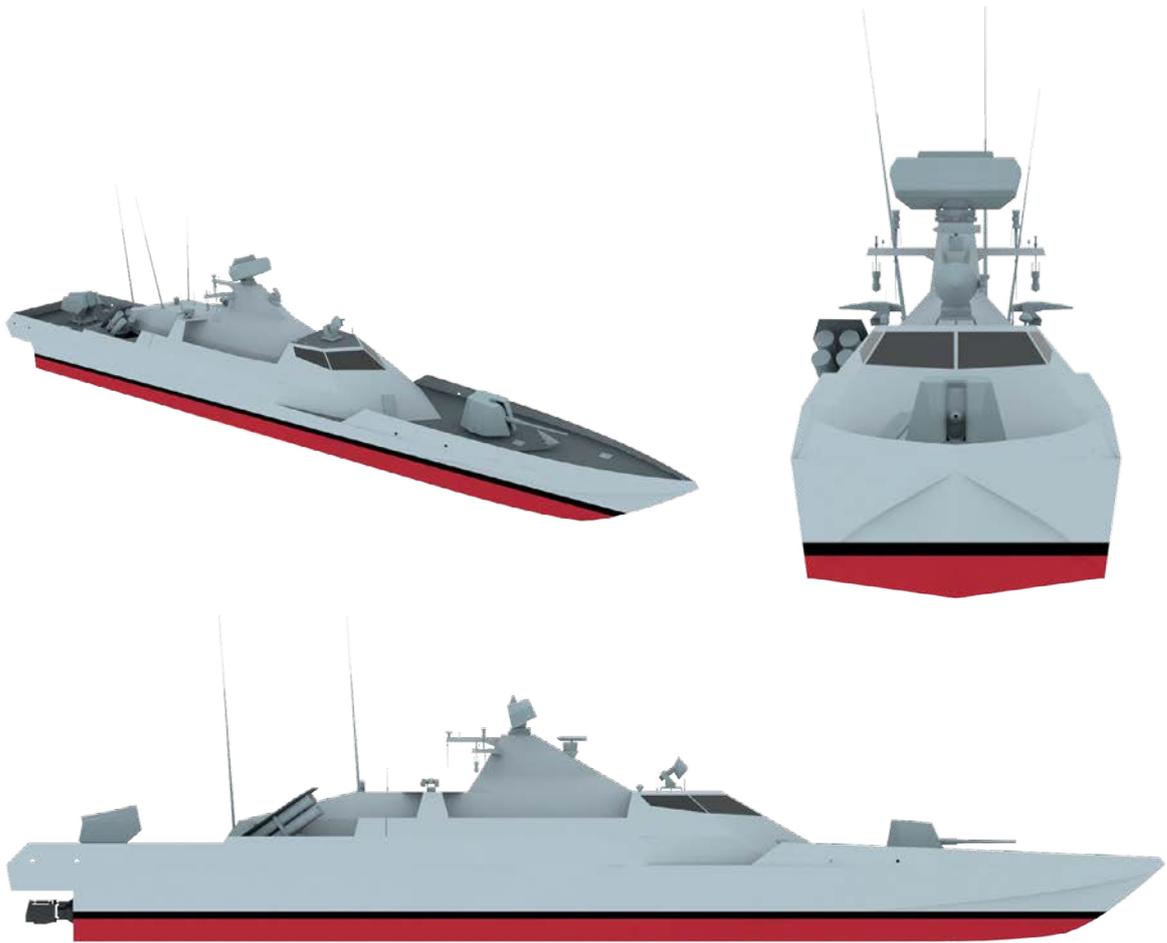
- Custom sensors & weapons
- Additional accommodation area





FAST ATTACK CRAFT

Fast Attack Craft (FAC55) is a high speed boat with stealth design and low radar cross section, equipped with sensors & weapons especially to conduct surface warfare operations and has self-defence AAW capabilities.



CAPABILITIES

- High maneuvering capability
- Surface warfare
- Sea keeping up to Sea State 5
- Non-magnetic steel hull and superstructure
- Reduced radar cross section (RCS)
- Reduced infrared signature (IR)
- Reduced acoustic and magnetic signature

MAIN DIMENSIONS

Length Overall	62.7 m
Length Waterline	55.9 m
Max. Beam	9.8 m
Draft	1.68 m

SPEED & ENDURANCE

Maximum Speed	55+ kts
Cruise Speed	18 kts
Endurance	1000 nm at 20 kts 750 nm 50 kts

TONNAGE

Displacement	535 t
--------------	-------

SENSORS & WEAPONS

- Combat Management System
- 3D Search & Track Radar
- Navigation and LPI Radars
- Navigation Systems
- E/O Track System
- Integrated Communication System
- Fire Control Radar
- 1x 76 mm Gun
- 2x 12.7 mm Stabilized Gun
- PDMS
- SSM
- IFF System
- Chaff Decoy System
- Ship Data Distribution System
- Ship Information System

MAIN PROPULSION

- COGAG
- 3x Waterjets

POWER GENERATION

- 3x Diesel Generator

SHIP'S BOATS

- 1 x RHIB

ACCOMMODATION

- Comfortable accommodation for 34 crew

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area





SUBMARINE

TS1700

TS1700 is a diesel-electric submarine developed by STM as a conceptual design. It is propelled with an electric motor, two diesel generators assisted with an air-independent propulsion (AIP) system. The platform can dive more than 300 m depth. It can accommodate 25+6 (SF) personnel for 90 days at sea on double elastic platforms which prevents the personnel and the devices from devastating effects of underwater explosions. It enables the launch of variety of 16 modern heavy weight torpedoes and guided missiles from its 8 tubes.



CAPABILITIES

- Submarine Warfare
- Intelligence, Surveillance, and Reconnaissance
- Special Operations
- Mine Warfare
- Network Centric Warfare
- Land attack
- UXV operations
- Diving depth: 300+ m
- Length of stay at sea: 90 days

MAIN DIMENSIONS

Length Overall	60.1 m
Length Waterline	6.5 m
Max. Beam	13.4 m

SPEED & ENDURANCE

Maximum Speed	20+ kts
Cruise Speed	4 kts
Endurance	6000 nm (Diesel) 400 nm (Battery) 7250 nm (Diesel + AIP)

TONNAGE

Displacement	Surfaced - 1517 t
	Submerged - 1740 t

SENSORS & WEAPONS

- Combat Management System
- LPI Radar
- Search and Attack Periscopes
- Torpedo Counter Measures (TCM)
- ESM
- Buoyant Wire Antenna (BWA)
- Sonars:
CAS, FAS, CTA, PRS, MAS, IDRS, TAS, ONA
- Hydrophones and Accelerometers
- 8 torpedo tubes (4 tubes available for Guided Missile) and 8 additional payload stowage

MAIN PROPULSION

- Permanent Excited Propulsion Motor (approx. 3 MW)

POWER GENERATION

- 2x Diesel Generator
- Air Independent Propulsion System
- Gel type batteries

ACCOMMODATION

- Comfortable accommodation for 25 crew
- +6 additional accommodation area for Special Forces personnel
- Galley, dry provisions, cold stores, separated messrooms, resilient mounted machine room, CIC, TCC and accommodation platforms





SUBMARINE

STM500

STM500 Submarine is a shallow water diesel-electric attack submarine developed by STM as a conceptual design. The platform is capable of enduring 18+6 (SF) personnel for 30 days at depths more than 250 meters, ready to fire its 4 tubes loaded with a variety of 8 modern heavy weight torpedoes and guided missiles.



CAPABILITIES

- Submarine Warfare
- Intelligence, Surveillance, and Reconnaissance
- Special Operations
- Mine Warfare
- Shallow water operations
- UXV operations
- Diving depth: 250+ m
- Endurance: 30 days

MAIN DIMENSIONS

Length Overall	42.0 m
Length Waterline	4.2 m
Max. Beam	8.5 m

SPEED & ENDURANCE

Max. Speed	18+ kts
Cruising Speed	5 kts
Endurance	3500 nm (Diesel) 75 nm (Battery) 4000 nm (Diesel + optional AIP)

TONNAGE

Displacement	Surfaced - 485 t Submerged - 540 t
--------------	---------------------------------------

SENSORS & WEAPONS

- Combat Management System
- Navigation Radar
- Optronic Search and Attack Periscopes
- Torpedo Counter Measures (Decoys)
- ESM
- Sonars:
CAS, CTA, PRS, MAS, IDRS, ONA
- 4 torpedo tubes (2 tubes available for Guided Missile) and 4 additional payload stowage

MAIN PROPULSION

- Permanent Excited Propulsion Motor (approx. 1,5 MW)

POWER GENERATION

- 2x Diesel Generator
- Lithium-Ion Batteries
- Optional: AIP System

ACCOMMODATION

- Accommodation for 18 crew
- +6 additional accommodation area for Special Forces personnel
- Captain's Cabin
- Galley, dry provisions, freezer room, separated mess rooms





COAST GUARD SHIPS

Coast Guard Ships can be tasked with search and rescue operations, Humanitarian Assistance and Disaster Relief (HADR) operations, maritime patrol and surveillance operations and protection of maritime jurisdiction areas.

Coast Guard Ships can be configured with the capability of law enforcement special forces to conduct counter-drug, counter-piracy, and counter-terrorist operations.

STM provides turnkey solutions for Coast Guard Ships to be configured in accordance with each country's maritime law enforcement agency requirements.







COAST GUARD SHIPS

CG-3100



MAIN DIMENSIONS

Length Overall	113.2 m
Length Waterline	105.2 m
Max. Breadth	14.4 m
Draft	4.05 m

SPEED & ENDURANCE

Max. Speed	25+ kts
Cruising Speed	14 kts
Endurance	8000 nm at 14 kts

TONNAGE

Displacement	3100 t
--------------	--------

SENSORS & WEAPONS

- 1 x 30 mm/25 mm Gun
- 2 x 12.7 mm Gun
- HF Radio Systems
- V/UHF Radio Systems
- Weather FAX
- S/P Telephone System
- Local Area Network (LAN)
- Satellite TV System
- CCTV System
- 1x X-Band Radar
- 1x S-Band Radar
- 2x GPS
- Thermal Cameras
- Ship Data Distribution System
- ECDIS

MAIN PROPULSION

- 2x or 4x Diesel Engine (acc. to speed requirements)
- 2x Propeller (CPP or FPP)
- 1x Tunnel thruster

POWER GENERATION

- 4x Diesel Generator

COAST GUARD FUNCTIONS CAPABILITIES

- 2x 5.5 meters RHIBs (stern ramp launch and recovery system)
- 4x 7 meters RHIBs
- 1x 20 ft multi mission container space
- Rescue Zone for multi purpose missions (50 persons capacity)
- Sick-bay
- Flight deck for 10 t class helo and Hangar for 1 helo / 2 UAV (for day & night landing and takeoff)
- A hydraulic-telescopic crane of 10 tons (SWL) to serve aft deck area
- 2x Water cannons

LAW ENFORCEMENT CAPABILITIES

- Law Enforcement Operation Center
- Law Enforcement Briefing Center (up to 50 crew)
- Detention Area
- 3x Detention Cell

ACCOMMODATION

- Comfortable accommodation for 125 crew

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area



COAST GUARD SHIPS

CG-1071



MAIN DIMENSIONS

Length Overall	66 m
Length Waterline	66 m
Max. Breadth	12 m
Draft	2.8 m

SPEED & ENDURANCE

Max. Speed	22 kts
Cruising Speed	16 kts
Endurance	2700+ nm at 16 kts

TONNAGE

Displacement	1071 t
--------------	--------

SENSORS & WEAPONS

- 1 x 30 mm/25 mm Gun
- 2 x 12.7 mm Gun
- HF Radio Systems
- V/UHF Radio Systems
- Weather FAX
- S/P Telephone System
- Local Area Network (LAN)
- Satellite TV System
- CCTV System
- 1x X-Band Radar
- 1x S-Band Radar
- 2x GPS
- Thermal Cameras
- Ship Data Distribution System
- ECDIS

MAIN PROPULSION

- 2x or 4x Diesel Engine (acc. to speed requirements)
- 2x Propeller (CPP or FPP)
- 1x Tunnel thruster

POWER GENERATION

- 3x Diesel Generator

COAST GUARD FUNCTIONS CAPABILITIES

- 3x 11 meters RHIBs (stern ramp launch and recovery system)
- 1x 20 ft multi mission container space
- Rescue Zone for multi purpose missions (50 persons capacity)
- Sick-bay
- Flight deck and Hangar for 1 UAV
- A hydraulic-telescopic crane of 10 tons (SWL) to serve aft deck area
- 2x Water cannons

LAW ENFORCEMENT CAPABILITIES

- Law Enforcement Operation Center
- Detention Area

ACCOMMODATION

- Comfortable accommodation for 35 crew

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area



COAST GUARD SHIPS

CG-1041



MAIN DIMENSIONS

Length Overall	70 m
Length Waterline	64.3 m
Max. Breadth	12 m
Draft	2.8 m

SPEED & ENDURANCE

Max. Speed	22 kts
Cruising Speed	16 kts
Endurance	2500+ nm at 16 kts

TONNAGE

Displacement	1041 t
--------------	--------

SENSORS & WEAPONS

- 1 x 30 mm/25 mm Gun
- 2 x 12.7 mm Gun
- HF Radio Systems
- V/UHF Radio Systems
- Weather FAX
- S/P Telephone System
- Local Area Network (LAN)
- Satellite TV System
- CCTV System
- 1x X-Band Radar
- 1x S-Band Radar
- 2x GPS
- Thermal Cameras
- Ship Data Distribution System
- ECDIS

MAIN PROPULSION

- 2x or 4x Diesel Engine (acc. to speed requirements)
- 2x Propeller (CPP or FPP)
- 1x Tunnel thruster

POWER GENERATION

- 3x Diesel Generator

COAST GUARD FUNCTIONS CAPABILITIES

- 3x 11 meters RHIBs (stern ramp launch and recovery system)
- 1x 20 ft multi mission container space
- Rescue Zone for multi purpose missions (50 persons capacity)
- Sick-bay
- Flight deck and Hangar for 1 UAV
- A hydraulic-telescopic crane of 10 tons (SWL) to serve aft deck area
- 2x Water cannons

LAW ENFORCEMENT CAPABILITIES

- Law Enforcement Operation Center
- Detention Area

ACCOMMODATION

- Comfortable accommodation for 35 crew

GROWTH CAPABILITIES

- Custom sensors & weapons
- Additional accommodation area

STM SAVUNMA TEKNOLOJİLERİ MÜHENDİSLİK VE TİCARET A.Ş.

📍 Mustafa Kemal Mahallesi 2151. Cadde
No: 3/A Çankaya / ANKARA / TURKEY

☎ +90 312 266 35 50

📠 +90 312 266 35 51

www.stm.com.tr

[in](#) [🐦](#) [f](#) [@](#) [@STMDefence](#)

