

MILGEM CORVETTE

The MILGEM project, from the Turkish words "MILLI GEMİ" (National Ship), is the name of Turkish national warship program. MILGEM Corvette is a monohull, double screw type vessel designed to meet the speed, seakeeping and stability requirements of Turkish Naval Forces Command with using the principles of stealth technology in its design. The objectives of MILGEM corvette are to enhance the littoral warfare capabilities and to meet the operational requirements of Turkish Navy by introducing a platform which lies between the spectrum of frigate and patrol boat. MILGEM Corvette meets the reconnaissance, surveillance, target identification, early warning, defense of base and harbours, anti submarine warfare, surface to surface and surface to air warfare, amphibious operation and patrol requirements. The vessel is designed in collaboration with Savunma Teknolojileri Muhendislik (STM) of Turkey.

MAIN TASKS

- Economic exclusive zone (EEZ) monitoring & surveillance
- Coastal and offshore patrol & monitoring
- Conducting anti-surface (ASuW) and anti-submarine (ASW) operations
- Conducting Electronic Warfare (EW)
- Search and Rescue (SAR) operations
- To show flag
- Performing coordinated operations with other naval and air assets which take part at sea control operations
- Carrying out counter-terrorism activities at sea



COMBAT SHIPS



AMPHIBIOUS SHIPS



SUPPORT SHIPS



PATROL SHIPS



TRAINING SHIPS



MILGEM CORVETTE SPECS



CAPACITIES

Fuel (F-76)	170 t
JP-5	20 t
Fresh Water	42 t + 20 t /day



SPEED / ENDURANCE

Max Speed	+ 29.0 kn
Economical Speed	15.0 kn
Endurance	3500 nm @ 15 kn



MAIN PROPULSION

Main Engine	31600 kW (1 x Gas Turbine & 2 x Diesels)
Propeller / Propulsion	2 x Shaft & CPP
Diesel Generator	4x 588 kW



ACCOMMODATION

- 93 including aviation officers, with accommodation for up to 106
- Galley, dry provisions, freezing rooms, wardroom/mess halls, offices, CIC etc.
- Length of stay at sea:
10 days (autonomous)
21 days (with logistic support)



MAIN DIMENSIONS

Length (OA)	99.50 m
Length (WL)	90.54 m
Beam	14.40 m
Draught (design)	3.59 m
Displacement	2300 t



WEAPONS / SENSORS

- Combat Management System: G-MSYS
- Search Radar: SMART-S Mk2
- Weapon Control: STING EO Mk2
- Sonar: TBT-01 Yakamoz
- IPMS: UniMACS 3000
- Others: Laser/RF systems, ASW jammers, DG, SSTD
- Guns: 1 x 76 mm, 2 x 12.7 mm Stabilized Machine Gun, 8 x Harpoon
- Anti-aircraft missiles: 21 x RAM (PDMS)
- Torpedoes: 2 x 324 mm Mk.32 triple launchers



SHIP EQUIPMENT

- 2 x RHIB



AVIATION FACILITIES

- Helicopter deck for landing and take off of helicopters up to 1 x 10 ton

SCOPE OF SERVICES

- Conceptual Design
- Contract Design
- Production Engineering
- Post Production Services
- DeltaLoad Ship Loading Software
- Advanced Engineering Analyses

REFERENCES

- ⚓ TCG HEYBELIADA
- ⚓ TCG BUYUKADA