



DG-20M/42T MAWANI Class HIGH-SPEED PATROL BOAT

Purpose / Description:

This boat has been designed for the requirements of Port Authority (Harbor) or Coast Guard for the purpose of regular patrol facility, searching and controlling in territories of the area. This highly maneuverable and seaworthy boat enables its users to carry out this operations at high speeds within shallow waters / under up to sea state-8 (beaufort-9) rough sea conditions . Alternative models can be applicable for SEARCH & RESCUE, POLICE, COAST GUARD, PILOT, FISHERY PATROL, CUSTOM and NAVY purposes.

Specifications:

Length (moulded & LOA)	:	20.40 / 21.00 mts
Length (water level)	:	18.20 mts
Beam (moulded & OA)	:	5.30 / 5.90 mts
Depth (moulded)	:	2.10 metres
Draft (moulded & extreme)	:	1.10 / 1.75 mts
Displacement (fully laden)	:	42.00 t

Classification Society and certificates :

BV- HSC (High-Speed craft)
I+HULL+MACH, LIGHTSHIP
PATROL BOAT, COASTAL AREA

Propulsion and Main Engine:

2 x 1400 kW MTU diesels at 2400 rpm
2 x 900 mm FPP propellers

Speed and Range:

Service Speed (%65 MCR)	:	30 knots
Maximum Speed	:	40 knots
Range (at service speed)	:	400 nautical miles
Bollard pull	:	8 tonnes ahead

Tank Capacities:

Fuel	:	6800 litres
Freshwater	:	500 litres
Sewage tank	:	400 litres
Oily water (bilge) tank	:	300 litres
Clean Lub-oil tank	:	200 litres

Deck Equipment:

Electric driven anchor windlass
Hydraulic capstan
Warping chocks
6 bollards
Deck crane with 500kgs lifting capacity

Auxiliary engines :

1 x 20 kW diesel generator

Life Saving Equipment :

1 x 12 persons inflatable life raft
Buoys and life jackets min. as per rules

Fire Fighting Equipment :

Fixed CO2 system for Engine room,
Portable CO2 tubes and fire stations

Rescue Equipment :

1 x 4 persons RHIB with outboard engine

Accommodation:

Crew : 3 persons
Passengers : 8 persons (maximum)
Wheelhouse
VIP salon
Daily living room with buffet
WC and shower
One cabin for four berths
Heating or cooling via A/C in all areas

Navigation Equipment:

48 nmiles Radar (combined with chart-plotter and GPS)
Magnetic Compass
Satellite compass
Auto-pilot
DGPS & Chart Plotter
Echo Sounder
Speed Log
Navtex Receiver
AIS
Searchlight
Navigation lights
Horn / Siren

Communication Equipment:

UHF/MF Radio with DSC (150 W)
VHF / FM Semi-dublex 25 W)
1 handy VHF GMDSS
Intercom & announce system
EPIRB and SART
CCTV system

General Specifications:

Corrosion resistance full aluminium structure
Double chine planning hull
360 degree view at bridge
Absorbing rubber fender system
Ergonomic and comfortable internal layout



DUZGIT SHIP CONSTRUCTION

OPTIONAL SYSTEMS : **SİSTEM SEÇENEKLERİ**

- **Propulsion system :**
Sevk sistemi
 - **Conventional fixed pitch propellers (FPP) or**
Konvansiyonel sabit piçli pervane veya
 - **Water-jets**
Su-jeti,
- **Speed :**
Sürat
 - **Depending on the selection of motor and motor output,**
Motor seçimine bağlı olarak,
 - **30-35 knots or 40-50 knots**
- **Crew :**
Personel
 - **Related with tactical role minimum 3 maximum 6 persons.**
Görev ve amaca bağlı olarak asgari 3 kişi, azami 6 kişi.
- **Endurance and range :**
Seyir sırası
 - **Related with tactical role between 325 to 500 n.miles, two (2) days.**
Görev ve amaca bağlı olarak 325 ile 500 deniz mili ve iki (2) gün.
- **Seaworthiness/Seakeeping :**
Denizcilik
 - **Up to sea state 8 (bf-9).**
8- deniz (bf-9) şiddetine kadar hizmet verebilir,
- **Stability and unsinkable :**
Denge ve batmazlık özelliği
 - **Self-rigthening and unsinkable ability can be applicable.**
Kendiliğinden doğrulma ve batmazlık özelliği uygulanabilir.
- **SAR / Rescue inventory & Asist boat :**
Arama ve kurtarma envanteri ve Yardımcı boat
 - **Towing hook and winch with rope spooling, crane, jason's cradle, lowered deck.**
Çekme kancası, çekme ırgatı, kretn, denizden adam alma sepeti, alçaltılmış güverte.
 - **5 persons RHIB type or 3 persons jet-ski up to 60 knots speed.**
5 kişilik RHIB veya 3 kişilik jet-ski azami 60 knot sürat.
- **Weapons :**
Silahlar
 - **Related with tactical role machine gun with STAMP and/or short range anti ship misle can be applicable on front and/or flybridge deck.**
Göreve bağlı olarak makineli tüfek (STAMP ile) ve/veya kısa menzilli gemiye atılan güdümlü mermi, baş ve üst flybridge güverte arka kısma uygulanabilir.
 - **Bulletproof windows.**
Kurşun geçirmez camlar.
- **Fi-Fi ability :**
Yangın savunma ve mücadele
 - **200-250 m3/h fire pump and a 100 m3/h remote controlled fire monitor, water umbrella.**
200-250 m3/s yangın pompası, 100m3/s uzaktan kumandalı yangın topu ve koruma amaçlı su serpinti perdelemesi uygulaması.

