



DÜZGİT GROUP DÜZGİT GEMİ İNŞA SAN. A.Ş.



2 x “PATROL BOAT” “M/B MAWANI-31” / M/B “MAWANI-32”

“BV-HSC I+HULL+MACH+LIGHTSHIP PATROL BOAT COASTAL AREA”

20m high speed patrol boat is designed for various purposes like navy patrol, search & rescue, harbor surveillance in coastal waters. Boat construction is of full marine grade aluminum. Having double chine and deep “V” hull form, boat can provide high maneuverability, good sea keeping and easy acceleration and deceleration up to 6 beaufort sea condition both in shallow waters and open seas. Wheelhouse is designed to provide an excellent visibility with 360 deg panoramic windows and sky windows. Wheel house having a side opening door is separated from wide operation salon with steps. A rear door acts as an opening from operation salon to aft deck. Below main deck there are crewmess room, a buffet, a WC & shower cabin and a crew sleeping cabin with four berths. Forward & aft decks and passages of the boat are all surrounded with railings providing the crew safe and comfortable working space even in rough seas. Other equipments on boat are a RHIB type rescue boat, electro-hyd telescopic crane (SWL 500 kg at 5,5 m), electro-hyd driven towing capstain having SWL 2,5 mt, CCTV system for inner and rear views., underwater camera system. Boat is also equipped with high capacity electronic navigation and communication systems. The aft deck is especially designed low to conduct easier and safer rescue operations. Having above properties the boat can provide excellent search and rescue services in very shallow waters. A special designed lightweight, wide section fender system provides high resistance and energy absorbing properties as well. Boat can easily berth or come along side another moving ship with this fender system.

Ratio of domestic and/or local products and services is about 65%. Works and/or products manufactured by shipyard’s own abilities are listed below:

Manufacturing drawings and out fitting designs, construction of aluminum hull and structure, all aluminum CNC cutting, bending, welding and fittings, foundations, watertight doors and hatches, piping system, tanks, blasting and coating, ventilation ducts and grits, rollers, mooring bits and cocks, insulation, paneling, furniture, rudder and bose, propeller system with bose and propellers, exhaust system, fender system.

Equipments and/or services provided by domestic sub-contractors:

Main and other switch boards, consoles, all electrical and electronic system installation, steering gear, windlass and capstain, windows, a/c system, interior lightening, materials for furniture and paneling, filters, strainers and valves, seats, batteries, cables, rectifier, transformers, anodes, coating, pipes and fittings, material for fender.

Systems below can be applicable as optional :

- Water-jet propulsion,
- Maximum speed up to 50-55 knots,
- Flybridge control as a second control station,
- 12,7mm machine gun, 40mm Automatic Grenade Launcher or Shoulder Launched AAW Missile,
- Stabilized Machine Gun (ie. STAMP): Optic Director + stabilizer + Night Vision, + Day Camera, Remote Control,
- Short Range Anti Ship Missile
- A jet-ski having speed 45-50 knot (inst. of rescue boat),
- A fire pump having capacity abt 200-250 m³/h driven fm one of the M/E for water umbrella protection system and a fire & foam monitor,
- Sprinkler to enhance the self firefighting and NBC capability
- Oil spill detection and response equipment

Specifications		Fire Fighting Equipment	
Length (LOA)	20.02 m	Fixed CO2 system for Engine room, Portable CO2 tubes and fire stations	
Length (BP)	17,60 m	Rescue Equipment	
Beam (moulded)	5.30 m	1 x 4 persons RHIB with outboard engine	
Depth (moulded)	2.10 m	Accommodation	
Draft	1.10 m	Crew	3 persons
Displacement (fully laden)	38,5 t	Passengers	8 persons (maximum)
Classification Society and certificates		Wheelhouse - VIP salon - Daily living room with buffet WC and shower - One cabin with four berths - Heating or cooling via A/C in all areas	
BV- HSC (High-Speed craft) I+HULL+MACH, LIGHTSHIP PATROL BOAT, COASTAL AREA			
Propulsion and Main Engine		Navigation Equipment	
2 x 1007 kW MTU diesels at 2300 rpm 2 x 825 mm FPP propellers		48 n miles Radar (combined with chart-plotter and GPS) Satellite compass -Magnetic Compass - Auto-pilot - DGPS & Chart Plotter Echo Sounder (200 / 50 Hz) - Speed Log - Navtex Receiver AIS - Searchlight - Navigation lights - Horn / Siren	
Auxiliary engines		Communication Equipment:	
1 x 20 kWe Diesel Generator			
Speed and Range		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	
Maximum Speed	35 knots	Deck Equipment	
Service Speed (%85MCR)	28 knots	Electric driven anchor windlass - Hydraulic capstan - Warping chocks 6 bollards - Deck telescopic crane with SWL 500 kg at 5,7 mts	
Range (at service speed)	325 n.miles		
Bollard pull	4 tonnes ahead		
Tank Capacities		Life Saving Equipment	
Fuel	5000 litres	1 x 12 persons inflatable life raft Buoys and life jackets min. as per rules	
Freshwater	425 litres		
Sewage tank	300 litres	General Specifications:	
Oily water (bilge) tank	300 litres	Corrosion resistance full aluminium structure Double chine planning hull 360 degree view at bridge and also sky windows Absorbing special material heavy fender system Ergonomic and comfortable internal layout	
Clean Lub-oil tank	200 litres		



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