



ADVANCE M-RIB 17.5, 12.5

Stealth vessel



General 17.5

Purpose of this high tech vessel is absolute naval superiority and multi functionality through most difficult and demanding missions. It represents perfect tactical platform for various weapon and logistics systems. It is powerful and compact missile, fast attack, combat, command, patrol, extreme speed intercept craft. Usage can be found also in landing and force delivery missions. Stealth, high speed, maneuverability, bulletproof and self righting are basic characteristics of this M-RIB vessel. Cabin space can hold sophisticated equipment for driving, navigation, night vision, communication and surveillance, as well as serving as shelter for personnel in bad weather conditions and enemy fire. Ullman Atlantic seats are designed to be used in limited spaces and to give shock mitigation for extreme high speeds maneuvers and level 5 sea state. M-RIB 17 is modern, fast, low RCS (radar cross section) and heavily armed green and brown water vessel designed to perform patrol, combat and command craft missions. Missile boat, FAC (fast attack craft) and assault or landing craft are also provided possibilities.

SPECIFICATIONS M-RIB 17.5 Standards:

- Length - outer 17,5m/57ft
- Length - inner 16 m
- Width - outer 490 cm
- Width - inner 420 cm
- Tube diameter 80 cm
- No. of chambers 9
- Mass 25 000 kg
- Max load 5000 kg
- Crew 4 (up to 10)
- Hull material aluminum(5083/5086)
- Tube material Hypalon-Neoprene (CSM)
Military (foam filled)
- Max engine power (1 engine) /
- Max engine power (2 engines) 2 x 1600hp
- Max speed 55+ knots
- Cruising speed 35 knots
- Design category B

STANDARDS

jet / Z-drive / surface drive

0.2 bar

Ship systems and technology

Stealth

Main stealth aces are design (handrails-angular design, cabin and freeboard-form, tubus-bumpers), special RAM (radar absorbing material) coatings,TSRC (thermal signature reduction coating), smart and big cooling system combined with jet propulsion to reduce thermal footprint, and finally special texture surfaces.

Cooling & exhaust system

Fresh water for cooling system will be taken from four intake strainers ,two for each engine.

Bilge system

Two el. bilge pumps are positioned in each bilge well in cockpit. One el. bilge pump is installed in engine room and all bulkheads. Each el bilge pump is supported by one manual bilge pump in case of failure.

Fire fighting

Engine room, will be equipped with primary and secondary automatic powder fire extinguisher. Each vessel room is equipped with automatic fire fighting system.

Propulsion and maneuvering

M-RIB 17.5 is equipped with two diesel engines Rolls Royce MTU 1600HP and two Rolls Royce Kamewa jet propulsion systems. Engines are electronically operated together with jets. Multi vector Propulsion allows vessel to act and maneuver agile, sharp and beyond expectations. System includes virtual anchor ambush technology, crash stop system, side maneuvering capability, easy docking and pin point rotation. Extreme high speeds maneuvers

Fuel system

M-RIB 17.5 have two tanks, placed below main deck in double bottom. Both tanks are equipped with electric level indicators with level gauge in helm position. Fuel and water tanks (with provided additional tank space) will be enough for about 8 hours of high speed missions and much more of the patrol and cruising speed operations. Fuel capacity is 5000 litre, depending on the craft version.

Ballistic

Complete vessel is protected with ultra lightweight special molded composite ballistic material located between inner and outer hull. Capable of stopping 7.62 caliber from short distance. FB5/6 armor glass is installed.

Interior and layout

M-RIB 17.5 is fast and agile vessel with two MTU diesel engines and 2x1600 horse power. Kamewa waterjets will provide excellent engine utilization factor, speed and maneuverability even in the shallow water. Modular hull interior will provide two versions of space usage, depending on the mission priorities:- First is combat, patrol and command ship version with crew contained of skipper, navigator, mission commander, system operator, three weapon helm stations, radar/sonar station, drone operator and six members of landing forces seats. Additional station is aviable for special equipment operator (submarine detection, mine detection, hydrographic research etc). - Second is assault vessel version, with 12 or even 15 additional seating positions and six crew members.Hull, cabin and deck of this ship is manufactured from high quality marine grade aluminium and carbon

materials, reinforced with aramid fibersand bulletproof, strengthened panel composite structures in the walls. Space between inner and outer hull and tubes are filled with special foam wich makes this boat unsikable.

Weapons & Protection

Bow- Main front weapon compartment consist from hydraulic platform for rising 20mm remote controlled gun with gyro stabilization and target tracking system.- Additional two side compartments are used for 30mm (or even 40mm) AGL grenade launchers.Stern- Main rear weapon compartment consist from hydraulic platform for rising single or gatling 12.7mm remote controlled gun with gyro stabilization and target tracking system.- Ammo capacity depends of caliber and type of machine guns.Missile-Stern is constructed to be equipped with different types of missile launches in tactic and interceptor use such as 25km range ALAS.TorpedoVessel can be additionally equipped with two lightweight torpedo surface launch systems.

M-RIB 12.5

M-RIB series of cabin boats is intended for high demanding operations in difficult combat situations at open sea or river maneuvers. Featuring high capacity for both people and equipment, it can be equipped for various military operations. High speed and maneuverability are basic characteristics of M-RIB cabin boats. Cabin space can hold sophisticated equipment for driving, navigation, night vision and surveillance, as well as serving as shelter for personnel in bad weather conditions. M-RIB series of cabin boats is specially designed for military needs with usage of high quality and high endurance materials as Hypalon-Neoprene material, which is resistant to UV radiation, algae, fungus, organic materials as to great temperature differences. Hull and deck of RIB cabin boat is manufactured from high quality Polyester, Aluminum and Carbon materials, which together make composite highly resistant to pressure to which boats are exposed. Boats can be equipped with necessary engine diagnostic equipment, navigation and communication devices, as well as with devices for night vision and cruising.

M-RIB 12.5 SPECIFICATIONS

• Lenght - outer	12,5 m/41 ft
• Lenght - inner	11 m
• Widht - outer	309 cm
• Widht - inner	260 cm
• Tube diameter	60 cm
• No. of chambers	9
• Mass	10 000 kg
• Max load	3500 kg
• Crew	4 (up to 8)
• Hull material	aluminium
• Tube material	Hypalon-Neoprene (CSM) Military
• Max engine power (1 engine)	/
• Max engine power (2 engines)	2 x 800 hp
• Max speed	50 knots
• Cruising speed	30 knots
• Design category	B