



Marell M17 SAR, an extension of the well proven M15 platform, with more power and equipment for tough offshore operations

The M17 SAR is designed for anti-piracy operations, border control, intelligence gathering, maritime security, boarding and patrol/police missions. Outboard engines are the preferred drive system for high-speed interception up to 70 knots. For boarding and patrol, inboard sterndrives in twin or triple configuration are the best option and for low-speed loitering in combination with high-speed interception a hybrid diesel/electric propulsion system can be offered.

The Marell crafts are designed with a centre steering position, inherited from racing and pilot operations. The helmsman's central position gives full and optimal control during boarding and advanced manoeuvres. The navigator is sitting next to the helmsman in a unique and ergonomically designed cockpit layout, required for high-speed and intercept operations, in any type of weather, day or night, across all climate zones.

The raised fore deck creates a stable platform for the officers when approaching other vessels whilst the lower aft deck can be used when boarding smaller vessels, launching watercrafts or rescue runners carried on deck. The aft deck is a very flexible and stable multi-purpose platform from where you also can launch crew members to a helicopter and successfully carry out complex SAR operations in high seas.



Main particulars:

Length overall:	16.95
Beam overall:	4.56 m
Draught:	1 m
Displacement:	18-23 T
Load:	2-5 T
No of persons:	Max 34 in Eme
Speed:	35+ knots
Op Range:	Up to 1000 Nm

Engines: 13 litre Diesel engines

Propulsion: Mixed flow Waterjet

Design Rules: CE Class B offshore
LR + 100A1 SSC PATROL HSC G2



Unique hull design features

The M17 SAR is designed to enable high-speed performance in heavy seas. Strong webs and longitudinal framing ensure extremely high hull performance at high speeds in rough weather conditions. The 21-degree deadrise at stern, a well-shaped and fine-tuned fore body and longitudinal strakes ensure that rides in high waves are comfortable and high-speed turns safe. Moreover, the craft runs dry at all times, with all sea spray directed to the side of the boat, keeping the windscreen and deck clean from water.

All vessels are fabricated in jigs for highest quality and straightness. The jig frames forming the hull shape are precision cut with the same water jet cutting method as for the hull material. The precision work is thoroughly measured to be within the tight building tolerances. Also, cut outs for the lifting strakes are made in the jig frames with the precision cutting machine, making the jig a base for a very accurate and high-precision hull production. The deck girder structure of the Marell crafts is designed to carry sandwich composite deck panels, which are glued to the girder structure. This forms a strong and watertight bonding, and the deck panels themselves are acting as insulation against excess heat (from sun) and reduces the deformation of the hull in really hot deck temperature as the panels will absorb any elongation of the aluminium plating.



Hull material: Marine grade aluminium EN-AW 5083 & EN-AW 6060

Deck panels: GRP composite honeycomb laminates

Canopy: Canopy made of vacuum molded GRP

Fender: Closed polyethylene foam with polyurethane coating

Paint: Epoxi paint and antifouling

Full scope of vital rescue equipment

The M17 SAR is purpose-designed for search and rescue operations. The standard configuration includes a rescue runner or watercraft on aft deck, extra capacity for up to 30 rescued persons in emergency, special areas for stretchers and a lifting table for lowering rescued persons from fore deck to forward compartment.

The craft is equipped with extra fire pumps and fire stations on both sides and a fire monitor in front, with special nozzles for firefighting and optimal protection.

A rescue crane and rescue net are mounted on aft deck. A safety line rail is fitted around the wheelhouse. The deck width at side of deckhouse is around 600 mm, which provides optimal room for safe passage for crew and rescued persons.



Safety first

In addition to rescue equipment, the M17 is equipped with two life rafts, manual end engine room fire extinguisher, rescue ladders and emergency kits. The design has four watertight compartments to meet safety requirement of single compartment flooding. All decks are self-bailing and equipped with anti-skid and robust railings. The crafts come with a complete set of mooring lines, anchor, and VHF/DSC system. On deck a special track system is mounted to secure load. The 6 or 8 bollards are of robust design for both mooring and towing other vessels. The craft is also equipped with 4 strong

Integrated Control and Navigation system

The navigation equipment layout is highly sophisticated with a central ergonomic helm together with an SB navigation station plus a PS engineer/ workstation. Furthermore, it includes an integrated control and navigation system that can be configured for different needs with alarms and engine information on all connected screens.

In front of the navigator, two 16" displays are situated, one for radar and one for charts. The helmsman has a 27" display in a low front position, giving clear direct boat information.

An advanced safety feature includes that the navigator can mirror the information from the 16" screen at SB to the center 27" screen, giving real time info. The helmsman can fully focus on the high-speed interceptions and boarding missions.

The M17 SAR is equipped with MOB joystick docking stations, one same side as rescue crane on aft deck platform, for precise rescue and docking operations.



Cabin configuration with best crew comfort

The M17 SAR has a WT and strong glass sunroof to create best light and spacious atmosphere in wheelhouse.

The crew are comfortable seated in Ullman Daytona Crew seats. The dashboard is covered with EVA mats.

Heating, cooling and ventilation are designed for highest comfort across climate zone, from Arctic sea to Tropical waters.



Please contact Marell Boats Sweden for further information and a complete offer. All Marell crafts can be customized based on the modular M platform