

MARLIN | 100 ASW

UNMANNED SURFACE VEHICLE

#UnmannedSystems



ANTI-SUBMARINE WARFARE

DIPPING SONAR, DIVER DETECTION SONAR

AUTONOMOUS OPERATION

25+ KTS SPEED, HIGH MANEUVERABILITY

LOS-BLOS COMMUNICATIONS & MESH NETWORK

INTEROPERABILITY AND FLEXIBILITY

HYBRID TASK ORGANIZATION & SWARM OPERATIONS

NETWORK CENTRIC/ENABLED OPERATIONS



aselsan

MARLIN 100 ASW

UNMANNED SURFACE VEHICLE

MARLIN 100 ASW is a new generation USV developed for Anti-Submarine Warfare (ASW). Its modular design architecture allows different ASW payload configurations.

MARLIN 100 ASW is equipped with advanced communication and positioning systems; can operate uninterruptedly under Communication / GNSS denied environments.

ASELSAN in-house autonomy architecture also ensures hybrid swarm and joint operations.

General Features

- Inertial Navigation System
- Dynamic Positioning System
- Active Stabilization System
- Radar, AIS
- Obstacle Avoidance Sonar
- Anti-Jam GNS
- EO/IR Camera System
- STANAG 4817 compatible

Autonomy Features

- Mission Planning
- Sensor Fusion
- Fixed and Moving Obstacle Detection and Dynamic Path Planning
- Day/Night Operations
- Operation under Comms/GNSS Denied Environment

Technical Features

- Lengths : 15 m
- Width : 3.85 m
- Weight : 21 tons
- Max. Speed : ≥ 35 kts
- Endurance : 72 hrs
- Propulsion System : Diesel Engines
- Payload Capacity : ≥ 4 tons



Payload Options

- ASW Sonar Systems
 - Dipping Sonar
 - Diver Detection Sonar
- SMASH 200/12.7 Stabilized Weapon (RCWS)

Communication Systems

- Broadband Satellite
- Narrowband Satellite
- RF Line-Of-Sight / Mesh Network
- 4G / LTE

Control Station

- Mobile Container
- Navigation and Mission Planning / Execution
- Control of Payload and Subsystems
- Data Display
- Live Image / Data Transfer

Operational Capabilities

- Submarine detection, classification and tracking
- Transportation to the Mission Area from Port or Logistics Support / Amphibious Ships
- Intelligence, Surveillance and Reconnaissance
- Autonomous or Remote-Control Modes
- Joint Operations with other Manned / Unmanned Platforms
- Deployment flexibility (Hybrid Task Units/Groups)
- Diver and Delivery Vehicle Detection Capability



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.