

# MARLIN | ASW 100

UNMANNED SURFACE VEHICLE

#UnmannedSystems



ANTI-SUBMARINE WARFARE (ASW)  
AUTONOMOUS OPERATION  
35+ KTS SPEED  
HIGH MANEUVERABILITY  
MULTIPLE COMMUNICATIONS STRUCTURE



**aselsan**

# MARLIN | ASW 100

## UNMANNED SURFACE VEHICLE

MARLIN ASW 100 is a new generation USV developed for anti-submarine warfare (ASW). Its modular design architecture allows different payload configurations.

MARLIN ASW 100 is equipped with advanced communication and positioning systems; also, can operate uninterruptedly under signal jamming.

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

### General Features

- Inertial Navigation System
- Dynamic Positioning System
- Active Stabilization System
- Radar, AIS
- Forward Looking Sonar
- KARETTA Anti-Jam GNSS

### Autonomy Features

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

### Technical Features

- Lengths : 15 m
- Width : 3.85 m
- Weight : 21 tons
- Max. Speed :  $\geq 35$  kts
- Endurance : 72 hrs
- Propulsion System : 2 x 600 HP Diesel Engines
- Payload Capacity :  $\geq 4$  tons



### Payload Options

- ASW Sonar Systems
  - LFAS / Dipping
  - Diver Detection Sonar
- Lightweight Torpedo
- ASW Rocket
- Sonobuoy System
- SMASH 200/12.7 Stabilized Weapon
- KIRLANGIÇ EO/IR System

### Communication Systems

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

### Control Station

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

### Operational Capabilities

- Transportation to the Mission Area from Port or Logistics Support Ships, Amphibious Ships
- Intelligence, Surveillance and Reconnaissance
- Autonomous or Remote-Control Modes
- Joint Operations with Manned/Unmanned Assets



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