

# MARLIN | EW 100

UNMANNED SURFACE VEHICLE

#UnmannedSystems



ELECTRONIC WARFARE (EW)

SURFACE WARFARE

AUTONOMOUS NAVIGATION AND OPERATION

35+ KTS SPEED

HIGH MANEUVERABILITY

MULTIPLE COMMUNICATIONS STRUCTURE



**aselsan**

# MARLIN EW 100

## UNMANNED SURFACE VEHICLE

MARLIN EW 100 is an Unmanned Surface Vehicle with advanced autonomous capabilities. It has been developed for electronic warfare with ISR capabilities. MARLIN EW 100 can be used in support of base/port/critical infrastructure protection and amphibious operations.

Its modular design architecture allows different payload configurations. MARLIN EW 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
- Safe Autonomous Navigation with Sensor Fusion
- Fixed and Moving Obstacle Detection and Dynamic Path Planning
- Day/Night Autonomous Operations
- Autonomous Operation in GNSS Denied Environment



### Technical Features

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

### Payload Options

- Radar Electronic Warfare System
  - ARES-2NC ESM (Radar Detection, Analysis and Identification, Precise DF etc.)
  - AREAS-2NC ECM (Single & Multiple False Targets, Range/Angular Deception, Multiple Modulation Techniques etc.)
- MARTI 200-N EO/IR System
- SMASH 200/12.7-L Stabilized Weapon

### 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  $\pm 10\%$ .