MARLiN | 100 ASWLT

UNMANNED SURFACE VEHICLE

#UnmannedSystems

ANTI-SUBMARINE WARFARE (ASW)
LIGHT WEIGHT TORPEDO & LAUNCHER SYSTEM (1X2, 2X2)
SONOBUOY LAUNCHER & SIGNAL PROCESSING
AUTONOMOUS OPERATION
35+ KTS SPEED
HIGH MANEUVERABILITY
INTEROPERABILITY AND FLEXIBILITY
HYBRID TASK ORGANIZATION & SWARM OPERATIONS
NETWORK CENTRIC/ENABLED OPERATIONS

SEFİNE SHIPYARD

aselsan

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

MARLİN 100 ASWLT 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 GNSS
- 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
- Length : 15 m
- Width : 3.85 m
- Weight : 21 tons
- Max. Speed : ≥ 35 kts
- Endurance : 72 hours
- Range : 800 NM
- Propulsion System : 2 X Diesel Engine
- Payload Capacity : ≥ 4 tons

Payload Options
- ZIPKIN 100 D LWT Launcher
  - Mk.44/46/54 LWT
  - ORKA, A-244S LWT
- SMASH 200/12.7L Stabilized Weapon (RCWS)
- AselBUOY 100 P/100 A Sonobuoy ve Signal Processing

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
- Active/Passive Detection of Submarines with Sonobuoys, Destruction with LWT
- 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)

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