

# 3-CELL EXTENSIBLE LAUNCHING SYSTEM

**LOCKHEED MARTIN**



# 3-Cell Extensible Launching System (EXLS)

Lockheed Martin has demonstrated its ability to scale and adapt the MK 41 Vertical Launching System with the innovative development of the Extensible Launching System (ExLS).

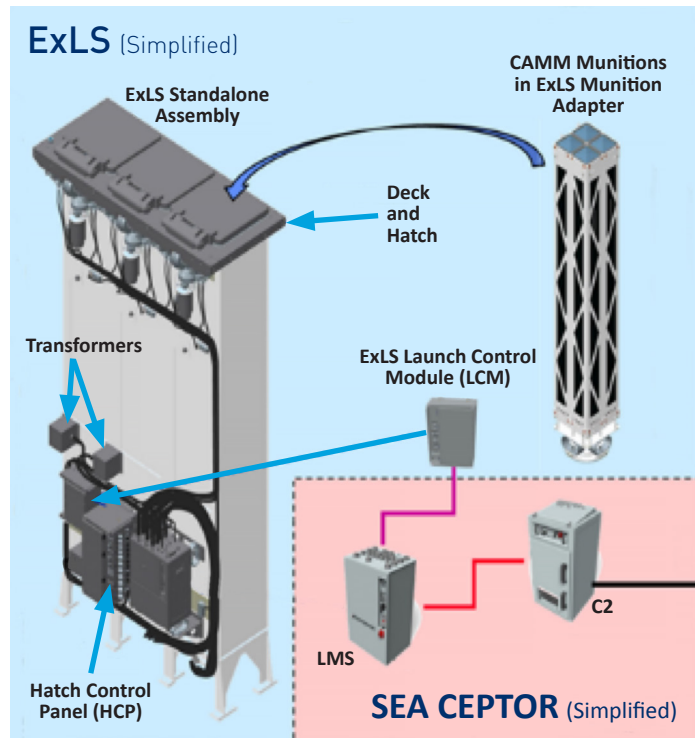
Lockheed Martin and MBDA-UK co-developed and qualified the ExLS 3-Cell Standalone Launcher for Sea Ceptor Common



Anti-Air Modular Missile (CAMM). Two successful CAMM ejection

tests were conducted in December 2017, which completed the qualifications for 3-Cell ExLS.

CAMM integration into ExLS uses MBDA-UK's CAMM canister and Launch Management System (LMS). The MBDA-UK LMS interfaces with 12 CAMM missiles. The LMS can prepare three of those 12 missiles for launch simultaneously. As a result, the basic building block to deploy is three cells, each cell quad-packed with four CAMM munitions.



## 3-Cell Launcher

Below Deck Launcher

- Built to Battle Proven USN MK41 Specifications
- Integrated Safety Features
- Cell Deluge (optional)
- Requires 440 Vac 60 Hz 3 phase

## Deck and Hatch Assembly

- Reuses MK41 Hatch Components
- Anti-Icing Capabilities
- Ballistic Protection: MK41 VLS Equiv Hatches

## Launch Control Module

- Interfaces to SeaCeptor
- Provides Launcher Control, Hazard Monitoring, System Built-in-Test Control

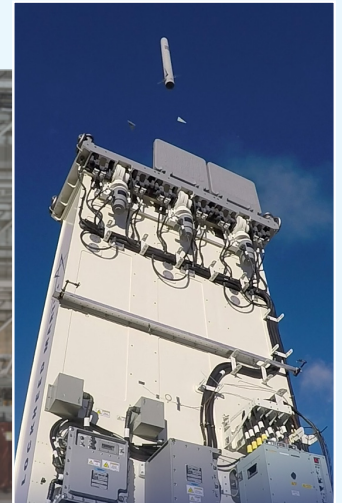
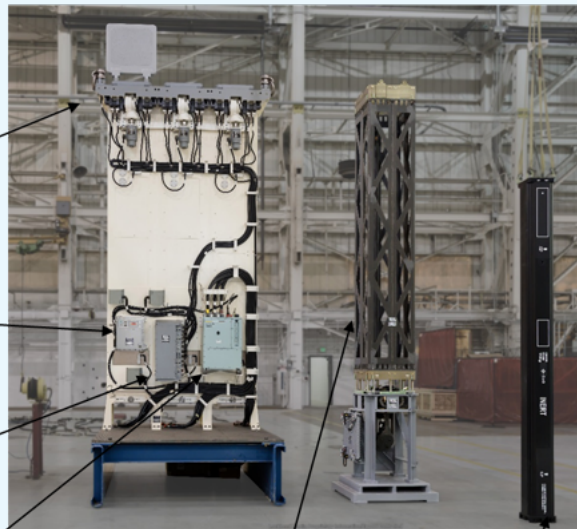
## Hatch Control Panel

- Provides Launcher Hatch Control in Remote Mode (Launch) and Local Mode (Maintenance)
- Hatch Anti-Icing On/Off

## SeaCeptor

### Launch Management System

- Supplied by SeaCeptor and Installed on ExLS Shipboard
- CAMM Munition Launch Firing Commands and Power



## Munitions Adapter

- Structure provides for CAMM Munition (shown)
- Utilized for Loading, Storage in Launcher, Launch, and Unload Operations
- Provides Munition Alignment and Shock Mitigation

## Ancillary Equipment

- Munitions Adapter Handling Equipment
- Maintenance and Support Kits
- Utilized for Munitions Loading and Launcher Maintenance

## Contact Information

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