



SINGLE CELL LAUNCHER

LOCKHEED MARTIN



Single Cell Launcher

Lockheed Martin has developed a scalable, modular, flexible missile launcher to provide an improved capability for navies around the world. The Single Cell Launcher maximizes commonality through use of the structure, software and electronics associated with the combat proven MK 41 Vertical Launching System (VLS).

Single Cell Launcher

The Single Cell Launcher (SCL) is designed to meet maritime force protection requirements leveraging the latest state-of-the-art MK41 VLS launch control system, MK 25 Quad Pack Evolved Sea Sparrow Missile (ESSM) Canister and a scalable, mechanical structure. This design provides a flexible system that is easily configurable, particularly where size and space concerns are paramount. SCL was designed to meet the need for a smaller, lighter and more flexible launcher for smaller ship classes which supports naval fleets around the world. SCL can be configured in various ways to meet the defined mission. Leveraging the design and open system architecture from the MK 41 VLS, SCL incorporates the latest available software, computer and electronics systems as they enter production with the MK 41 VLS.



Commonality and Affordability

SCL can provide the U.S. Navy and international navies with superior reliability and flexibility. The tactical length SCL is designed to accommodate the MK 25 canister and MK 15 canisters, which are capable of firing ESSM Block 2 and Vertical Launch Antisubmarine Rocket (VLA), respectively. A strike length SCL would be capable of accommodating the aforementioned

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canisters and the MK 14 canister, capable of firing the Tomahawk Cruise Missile. SCL provides superior capability within a small footprint.

Leveraging Investments

Over the life of the MK 41 VLS program, the U.S. Navy has invested more than \$500 million. Today, there are more 12,700 MK 41 VLS cells aboard 26 ship classes in 13 navies around the world. International customers will benefit from shared components, technical and logistics support currently in place for the MK 41 VLS.

SCL Heritage from MK 41 VLS:

- ▶▶ 18 Missile Variants Integrated
- ▶▶ Integrated with 12 Weapon Control Systems
- ▶▶ 4300 Firings
- ▶▶ >99% Launch Success
- ▶▶ >98% Availability



Proof Positive

In July 2018, the SCL conducted an ESSM restrained firing test with a MK 25 Quad Pack canister. All primary test objectives were met, and both the gas management and primary missile restraint systems performed as expected, safely containing the test vehicle through full rocket motor burn. SCL is ready to serve fleets around the world anchored by 40+ years of experience, >99% launch reliability and commitment to excellence in naval missile launching systems.

Launcher Flexibility

