



VERTICAL  
LAUNCH  
ANTI-SUBMARINE ROCKET

**LOCKHEED MARTIN**



# Vertical Launch Anti-submarine Rocket

The Vertical Launch Anti-Submarine Rocket (VLA) is the only proven, operational Anti-Submarine Warfare (ASW) weapon that effectively satisfies the surface ship ASW mission. The VLA's standoff range and lightweight torpedo payload make it equally effective in littoral and open-ocean operations.

The VLA is a rocket-propelled, three-stage weapon that deploys on ships equipped with the MK 41 Vertical Launching System (VLS). Major VLA features include:

- Standoff and short-range capability
- All-weather operations (up to Sea State 6)
- Urgent and deliberate attack capability
- 360-degree engagement

VLA is in operational use by the U.S. Navy and the Japanese Maritime Self-Defense Force with a 30-year service life. Recently, the U.S. Navy is extending the service life of their VLA inventory an additional 30 years. The VLA missile is compatible with the MK 46 Mod 5A torpedo and the MK 54 Mod 0 torpedo. Other lightweight torpedoes can be readily integrated by following a proven integration and test program.

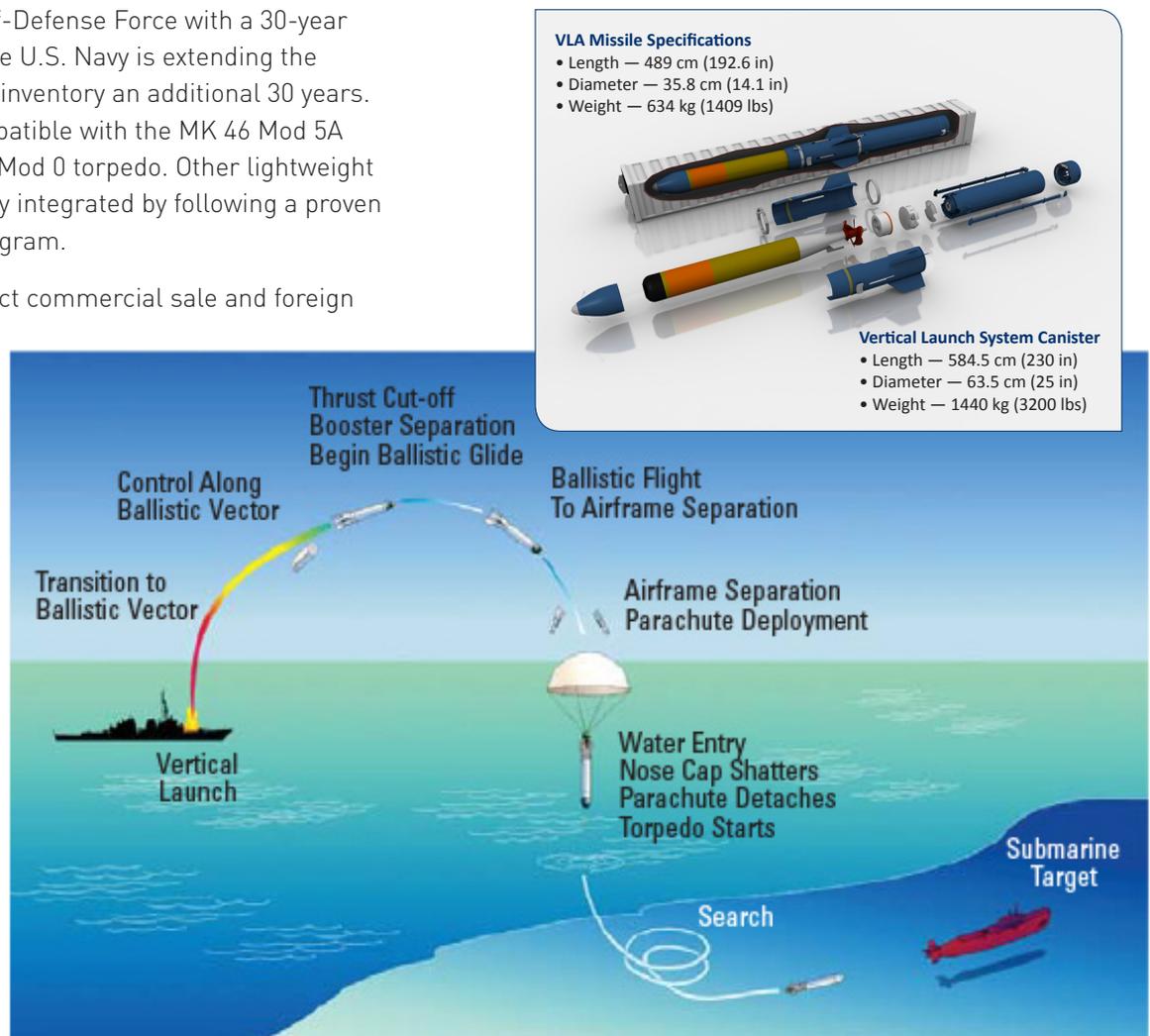
VLA is available for direct commercial sale and foreign military sale to 38 countries. Lockheed Martin has delivered more than 1,200 VLAs since 1993. The VLA missile is launched by the MK41 Vertical Launch System (VLS), which consists of an armored, high-capacity, environmentally controlled and sheltered magazine with vertically-oriented canisters on the ship. Each VLA missile is in its own sealed canister,

which serves as a launch tube as well as a shipping container. The Mk41 VLS is capable of handling, storing, preparing for launch and launching VLA upon command from the ASW weapon control system.

Originally designed to launch and deploy lightweight torpedoes, the VLA booster system, which is operationally and safety qualified for use in the MK41 VLS, can be easily integrated with other payloads for:

- Anti-surface warfare
- Mine warfare
- Land attack warfare
- Longer range ASW

VLA extends a navy's capabilities and tactical reach across platforms, and can integrate into other variants of above-deck launchers for ships that do not have the MK41 VLS capability.



## Contact Information

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