Vertical Launching System (VLS)
Mk 41 – Strike-Length Module
BAE Systems and Lockheed Martin are teamed to produce the Vertical Launching System (VLS) Mk 41 for current and future naval surface combatants. As the U.S. Navy’s VLS Mk 41 mechanical design agent, BAE Systems has over 30 years of experience in the development, production, and support of this system for naval forces throughout the world.

**SPECIFICATIONS**

**Lethal** - The VLS Mk 41 capability to simultaneously prepare two missiles in each 8-cell launcher module allows for fast reaction to multiple threats with concentrated, continuous firepower.

**Multi-Mission** - Multi-mode operation allows simultaneous interface and missile preparation for discrete anti-aircraft, anti-submarine warfare, strike, naval surface fire support, and ballistic missile defense missions.

**Flexible** - Any missile, any cell.

**Survivable** - The VLS Mk 41 is a highly survivable system with missiles and associated hardware located below the armored deck. Redundant fire control and launcher interface links also enhance system survivability in casualty situations.

### System Size – 64-Cell vs 8-Cell

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<th>64-Cell</th>
<th>8-Cell</th>
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<tbody>
<tr>
<td>Length</td>
<td>343 inches</td>
<td>81.75 inches</td>
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<tr>
<td>Width</td>
<td>249 inches</td>
<td>124.8 inches</td>
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<tr>
<td>Height</td>
<td>303 inches</td>
<td>303 inches</td>
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</table>

### Launcher RM&A – 8-Cell Module Launcher:

- Mean time between failure: 1,936 hours
- Mean time to repair: 3.2 hours
- Average scheduled maintenance time: 0.5 hour per day
- Intrinsic availability: 0.978
- Strikedown mean cycle: 200 cycles

**Power Required by 61-Cell Launcher:**

- 440-Vac 60-Hz 3-phase: 200 kW
- 115-Vac 60-Hz 1-phase (lighting): 8 kW
- 115-Vac 60-Hz 3-phase (backup power for 400 Vac): 10 kW
- 115-Vac 60-Hz 1-phase (launch control unit): 5 kW
- 115-Vac 400-Hz 3-phase: 45 kW

### Safety:

- **Restrained firing**
- **Warhead deluge**
- Launcher capable of surviving a full motor burn of restrained missile
- Deluge provided to prevent warhead explosion (320 gpm at 105 psig)

FOR MORE INFORMATION CONTACT:

**Manufacturers:**

BAE SYSTEMS

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09/09/VLS Mk 41 Strike