Lockheed Martin is currently engaged in proof of concept testing and evaluation.

JAGM-MR  
Joint Air-to-Ground Missile-Medium Range
JAGM-MR

Increasing Range and Sensor Options

The Joint Air-to-Ground Missile-Medium Range (JAGM-MR) is a planned product improvement to the in-production JAGM. To proactively meet customer needs, Lockheed Martin has undertaken this aggressive initiative, designed to increase the ground-launched range of JAGM, while maintaining the existing outer mold line dimensions of the missile.

JAGM-MR maintains the operational benefits of JAGM, while reaching ranges over 16 kilometers when ground launched, more than double the range of the fielded weapon. To ensure M299 Launcher compatibility, JAGM-MR retains the existing length and diameter of JAGM, while minimizing weight growth.

Responsive to the ever-growing need for increased capabilities to address emerging threats, while concurrently enhancing weapons delivery platform and crew survivability through increased stand-off, JAGM-MR provides that and more. A suitable upgrade to the HELLFIRE® and JAGM family of missiles, inclusive of the out-of-production Longbow missiles, JAGM-MR provides heightened capabilities to aviation platforms, surface platforms and ground platforms. Similar to JAGM, JAGM-MR affords a multiple target engagement capability, near simultaneously, during day/night and in adverse weather to all delivery platforms.

JAGM-MR encompasses an upgraded missile bus and multi-mode guidance section, offering enhanced performance on tomorrow’s battlefield. Proven throughout multiple flight tests, the weapon’s multi-mode seeker provides an improved semi-active laser (SAL) sensor for precision-strike and a fire-and-forget millimeter wave (MMW) radar for moving targets in all-weather conditions. Additionally, JAGM-MR incorporates a near infrared (NIR) sensor into the multi-mode seeker providing further operational enhancements and compounding adversary countermeasures challenges. The seeker is architected to utilize specific operator-selected sensors.

### FEATURES

- **SAL sensor provides precision-point accuracy**
- **MMW/NIR sensor provides improved capability against countermeasures, enhances accuracy in all weather types and versus moving targets while providing aimpoint refinement**
- **Updated propulsion and control sections provide JAGM extended range and improved maneuverability**
- **Fire-and-forget capability supports rapid-fire launches at multiple targets and increases survivability**
- **Lock-on before and lock-on after launch maximizes operational engagement and flexibility while minimizing collateral damage**
- **A modular seeker design independent of the missile bus offers accelerated response to future requirements**
- **Operator-selectable fuze options provides enhanced lethality across a wide target spectrum, supporting secondary and tertiary mission tasking**
- **Compatible with all JAGM user platforms, as well as HF/Longbow platforms with software updates**

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>RANGE:</td>
<td>0.3 to 9.9+ miles (0.5 to 16+ kilometers)</td>
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<tr>
<td>GUIDANCE:</td>
<td>Multi-Mode SAL/MMW</td>
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<tr>
<td>WARHEAD:</td>
<td>Multi purpose</td>
</tr>
<tr>
<td>WEIGHT:</td>
<td>122 lbs. (53.3 kg)</td>
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<tr>
<td>LENGTH:</td>
<td>69.2 in (175.6 cm)</td>
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<tr>
<td>DIAMETER:</td>
<td>7 in (17.8 cm)</td>
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</table>

In November 2021, Lockheed Martin successfully completed the first ambient static fire testing for the JAGM-MR solid rocket motor.

The JAGM-MR missile bus incorporates the new electro-mechanical control actuation system and a minimum smoke, boost-sustain solid rocket motor for improved kinematics and maneuverability. JAGM-MR affords ground/surface launch ranges >16km when static fired and obtainable ranges well in excess of 16km when delivered at altitude and/or in forward flight.