

Joint Air-to-Ground Missile

Affordable, Advanced, Air-launched, Precision Attack Missile



JAGM on Apache Longbow

Joint Air-to-Ground Missile (JAGM) is a cost-effective solution with increased lethality, survivability and operational flexibility for the U.S. Army, Navy, Marines and coalition aviation.

Benefits

- Provides precision targeting capability with fire-and-forget technology against moving or stationary targets in smoke, dust or poor weather
- Provides helicopters with greater standoff range and accuracy
- Defeats armored threats, maneuvering boats and other targets including use in urban warfare scenarios
- One interoperable missile for multiservice requirements reduces logistics burden and life-cycle cost

Raytheon and Boeing have teamed to build JAGM. JAGM leverages the strengths of the flight-proven successes of a four-year Defense Advanced Research Projects Administration (DARPA) and ongoing Army System Design and Demonstration (SDD) program with a funded growth path in seeker and propulsion technologies. Raytheon's solution maximizes common components and design of a 7-inch diameter missile and associated subsystems to ensure rapid integration of proven technologies.

Whether flying an Apache Longbow, the MH-60, a Super Cobra attack helicopter, an F/A-18 E/F or an ERMP, the aviator will be able to engage any threat target, including vehicles, buildings, bunkers, boats, helicopters or tanks, with increased accuracy using precision lock-on-after-launch or line-of-sight engagement capabilities.

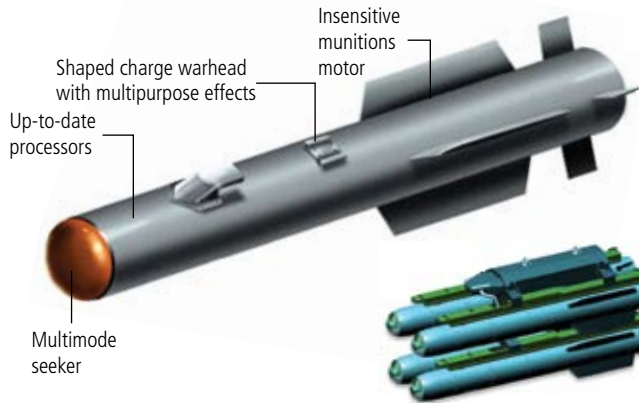
JAGM platforms use existing launchers and offer a fire-and-forget capability. Integration into air platforms is based on the Hellfire interface. Pilots will enter combat with confidence that their missiles will reach and destroy targets outside the range of enemy counterfire.

The Missile for Future Systems

JAGM is a weapon of choice for U.S. military and coalition transformational programs. It is designed to share common components with other ongoing SDD missile programs to create savings for both programs. Propulsion

Raytheon

Joint Air-to-Ground Missile



Joint Air-to-Ground Missile Specifications

Weight:	115–120 lb
Range:	20+ km
Diameter:	7 in
Length:	65–75 in
Shelf Life:	>15 yr

innovations ensure JAGM has the standoff needed to protect launch platforms against 21st-century air defense systems. With multiple engagement modes, aviators are able to use a fully autonomous capability to engage agile, evasive targets both within and beyond line of sight. JAGM is designed for the digital battlefield and accepts targeting from multiple sources. With its missile radio, JAGM acts as a node on the battlefield network to receive inflight updates and send battle damage indication reports.

Common Design and Low Cost

JAGM exploits Raytheon and Boeing's impressive array of proven, high-technology missile sensors for its missile modules. Maximum use of existing components, commercial off-the-shelf technology and software in each module will reduce development, production and life-cycle costs. JAGM components and interfaces can be optimized for mission requirements and all types of modern aviation platforms.

Enhanced Counter-Countermeasures

Raytheon and Boeing designed JAGM to meet countermeasures, from the simplest to the most sophisticated. From dust and smoke to active systems, JAGM remains effective. Raytheon's counter-countermeasure capabilities are based on existing technology common across weapons to reduce user training. JAGM is upgradeable against both emerging and future threats.

Improved Motor and Warhead

The JAGM warhead and propulsion use the latest technology. Emerging warhead technologies provide Raytheon with common warheads, giving its missiles improved lethality against a broad range of targets. The target sets include tanks, bunkers, buildings and patrol boats. Seeker accuracy improves overall lethality. This missile is designed to integrate the latest motor technology and provides increased range and decreased time of flight over current systems. The propulsion system is modular and permits propulsion improvements and options.

High-Performance Seeker

Raytheon and the Army are developing an evolutionary tri-mode seeker with revolutionary capabilities for other ongoing missile applications. Raytheon has leveraged the technology developed for its ground, air-to-ground and air-to-air missile seekers to provide a low-risk, robust seeker solution. JAGM provides fully autonomous engagement as well as laser designation capability. The seeker is designed for lock-on-after-launch to optimize long-range lethality for the Super Cobra and Longbow Apache attack helicopters.

JAGM to Launcher Interface

Raytheon and Boeing have used their missile integration experience and commitment to mission success to design a robust interface between JAGM and aviation systems. It is designed to optimize performance on all aviation platforms.



Apache Longbow MH-60



F/A-18 E/F ERMP



Super Cobra

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Customer Success Is Our Mission