

BAE SYSTEMS

Long Range Precision Guidance Kit

Delivering long range precision fires

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Defeating emerging jam threats

BAE Systems' Long Range Precision Guidance Kit (LR-PGK) technology meets current and future anti-jam requirements to deliver long range precision fires in challenging electromagnetic environments. LR-PGK builds on proven, mature technology to increase maneuverability and improve the accuracy of 155mm projectiles – requirements for today's quickly evolving battle space.

Delivering long range precision fires in challenging electromagnetic environments

Future facing

The kit's modular architecture was purposefully designed for low-cost production and upgradeability. The fuze combines enhanced GPS-based navigation with an innovative, roll-stabilized guidance unit and antenna array. This integrated technology, paired with a proven, variable-deflection canard control method, allows for advanced in-flight correction capabilities. LR-PGK is compatible with existing and future artillery shells and firing platforms, including:

- M795, M1128, XM1113, and M549A1 projectiles
- M109A7 Self-Propelled Howitzers
- M1299 Extended Range Cannon Artillery
- M777 Lightweight Towed 155mm Howitzers

Projectiles fitted with LR-PGK provide artillery units in battle with accurate fire support capabilities that friendly forces can rely on in areas where collateral damage is a concern, resulting in improved accuracy against modern threats, and reduced Circular Error of Probability (CEP).

Key features and benefits

- With LR-PGK, missions are completed with less ammunition, saving costs and increasing effectiveness
- This kit greatly reduces ordnance dispersion associated with the 155mm unguided artillery rounds, achieving precision target engagement and decreasing collateral damage
- The roll-stabilized kit de-spins from munition to provide guidance, navigation, and control
- The guidance, navigation, and control architecture provides superior anti-jam performance, and provides an upgradeability path to achieve precision strikes at extended ranges

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