

# MGK



## Mortar Guidance Kit

MGK is ATK's solution to meeting the U.S. Army's requirement to rapidly field a precision 120mm mortar projectile that will provide an organic, accurate indirect fire capability for brigade combat teams. MGK will provide a quick, reliable, and lethal response – especially in mountainous terrain inaccessible to artillery and in built up areas where commanders are reluctant to employ close air support and artillery fires that could cause collateral damage.

MGK will provide field commanders with a precision indirect fire capability to neutralize targets on reverse slopes, in narrow gullies, in urban areas, and in other complex terrain difficult to engage with low-angle fire. Additionally, greater accuracy reduces the number of rounds required to successfully defeat targets and lessens logistical requirements.

Based on ATK's Precision Guidance Kit (PGK), MGK will convert the existing inventory of M933/934 mortar bodies into precision projectiles by adding GPS guidance and navigation capability in a package that replaces standard fuzes. This conversion approach reduces the timeline and costs associated with fielding a new munition.



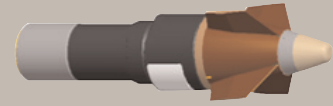
#### Tail Subsystem

- High-Hat M47 Charge Increments
  - Extended range
- Fold-back fins
  - Provides robust, in-flight stability



#### Body Subsystem

- Standard M9933/34 mortar body
  - Fully qualified
  - In high-rate production



#### Nose Subsystem

- Precision Guidance Kit Fuze
  - EPIAFS interface
  - Fixed canard assembly

## 120mm Mortar Guidance Kit

### Characteristics

- Compatible with all 120mm smooth bore mortar systems
- Provides precision guidance capability for existing M933/934 mortar munitions
- Leverages mature subsystem technologies
- MGK takes full advantage of the existing U.S. Army industrial base, ammunition manufacturing facilities and supply chain to ensure low risk, rapid delivery to support rapid fielding

### Capabilities

- Provides precision capability necessary for contemporary operating environments
- Expands mortar system capabilities from area suppression to responsive, precision engagement
- Minimizes collateral damage
- Reliable in high-G tube launch environment
- Ideal for neutralizing targets on reverse slopes, in narrow gullies, in urban areas, and in complex terrain difficult to engage with low-angle fire

For information contact:

ATK Advanced Weapons  
4700 Nathan Lane  
Plymouth, MN 55442  
Tel 763-744-5312

108747\_01  
Approved For Public Release. PAO# 92-10, 11/19/2009