

APKWS™

Advanced precision kill weapon system laser-guided rocket

Declining budgets and concern over collateral damage has increased the need for precision-guided weapons for a more affordable and effective response against soft and lightly armored targets.

As the U.S. Government's only program of record for 2.75-inch (70 millimeter) guided rockets, military commanders turn to BAE Systems when they need affordable and reliable precision strike capabilities.

The combat proven APKWS rocket bridges the gap between unguided rockets for area suppression and larger more expensive anti-armor munitions. The APKWS rocket provides precision engagement of soft or lightly armored targets allowing fighting forces to accurately engage targets, especially in urban terrain with low collateral damage.

The APKWS mid-body design guidance and control section is compatible with existing and new inventories of 2.75-inch (70 millimeter) rocket motors, warheads, and launchers, transforming them into a precise, lethal, reliable laser-guided rocket at a low price. It requires no modifications to the rocket, firing platform or fire control/launcher system and minimal training for the crew.

The APKWS rocket has been demonstrated on more than a dozen fixed and rotary-wing platforms and offers the armed forces and special operations enhanced combat capabilities for air, ground, and sea-based platforms.

BAE Systems has delivered 6,500 production units to date and can offer increased manufacturing capacity to continue to supply the U.S. armed forces and our international allies.

APKWS™ laser-guided rocket has **proven performance** – it keeps hitting targets. It is the right weapon for the fighting forces **in today's battlefield**.



Feature

Mid-body design

Innovative DASALS® seeker

Flexible and modular architecture

Wide field-of-view and long-range laser acquisition

Benefits

No modifications to the rocket, firing platform or fire control system for a low total ownership cost

Wide field of view and seeker optics are protected from adjacent rocket fire and other debris for a high probability of acquisition

Proven versatility during demonstrations on more than a dozen platforms

Enables precision engagements against moving and stationary targets in a variety of tactical situations

How it works

The ordnance crew sets the laser code and loads the APKWS rocket into the launcher.

The laser designator from firing platform, other aircraft, or ground forces illuminates the target.

The APKWS rocket is launched and the laser designator locks on to the target.

The wing-mounted seeker optics receive the reflected laser energy from the target.

The onboard guidance and control system guides the missile to the target with pinpoint accuracy.



APKWS™ precision-guided 2.75-inch (70 millimeter) rocket

Continues to meet or exceed all performance thresholds

Specifications

Specification	Threshold
Minimum range	0.9 miles (1.5 km)
Maximum range	3 miles (5 km)
Probability of hit per single shot	80% within 2.1 yards (2 m) of center of laser spot
Weight	35 lbs (15.8 kg)
Length	75 in. (1905 mm)
Diameter	2.75 in. (70 mm)

(All specifications are using the threshold configuration of M151 warhead/M423 fuse)

Guidance section

Cost-effective

- No platform modifications required
- No changes to weapons loading
- No ordnance motor changes required
- No impact on fusing or warhead effectiveness
- Minimal training required

Reliable

- Mid-body stowed optics are protected from adjacent firings, sand and moisture
- DASALS® seeker with a 40° instantaneous field of regard provides a high probability of target acquisition
- Combat-proven reliability, achieving over 93% hit rate in more than 400 shots

For more information contact:

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