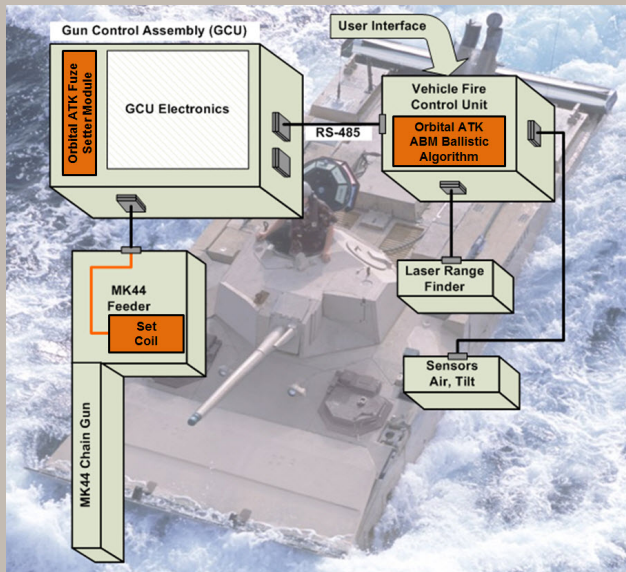


30mm x 173mm Air Burst Muniton System Mk44 Bushmaster Cannon/Mk310 Mod 0 PABM-T



Tomorrow's lethality solutions delivered today



ABM System Integration Elements

- Can be readily integrated into land and sea platforms using Orbital ATK's Mk44 cannon
- Easily integrates Orbital ATK's Fuze Setter Module in the GCU and the Setter Coil in the Mk44 feeder

The Orbital ATK 30mm Air Burst Muniton System (ABM) provides any platform an immediate lethality improvement. The system provides the new capability to burst a 30mm projectile at a precise point in space resulting in increased effectiveness against targets in defilade. The Orbital ATK ABM system is composed of the Orbital ATK 30mm Mk44 Bushmaster cannon employing an integrated fuze setter in the feed system; an ABM fuze setter module in the gun control unit (GCU); an ABM ballistic algorithm integrated into the platform fire control unit; and the Mk310 Programmable Air Burst Muniton (PABM). The PABM can function in air burst, point detonating and point detonating delay modes. The projectile has proven penetration capability and significant behind armor effects against lightly armored vehicles. The Orbital ATK ABM system is also capable of being retrofitted into existing Mk44 cannons.

Gun and Ammunition Data

Mk44 Bushmaster Cannon

Physical Data

Length	134.05 in (3,405mm)
Width	13.5 in (343mm)
Height	15.43 in (392mm)
Receiver weight	122 lb (55.3 kg)
Feeder weight	69 lb (31.3 kg)
Barrel weight	153 lb (69.4 kg)
Total weight	344 lb (156 kg)
Recoil	8,000 lb (35,584 N)
Power required	1.0 horsepower
Clearing method	Cook off safe, open bolt
Safety	Absolute hangfire protection
Case ejection	Forward

Performance Data

Rate of fire	200 rounds per minute
Feed system	Dual feed, integral to weapon
Ammunition	Fires all NATO standard 30mm x 173mm and the new Super 40 ammunition and ABM

Mk310 Mod 0 PABM-T

Physical Data

Cartridge length	290mm
Cartridge weight	713g
Projectile weight	423g
Propellant type	Single base
Cartridge case length	173mm
Cartridge case material	Aluminum
Primer	M36A2 percussion
Fuze	Orbital ATK Turns/Time

Performance Data

Muzzle velocity	980 m/s
Chamber pressure (ambient)	360 MPa
Penetration	SAPHEI
Trace time	2 sec min. 5-6 sec typical



EFV

Bradley

FCS


CV9030

Orbital ATK airburst system can be integrated into future and legacy platforms

Orbital ATK Turns Count Fuze

Orbital ATK's inductive set air burst electronic fuze provides multi-mode operation and is expandable to meet user's requirements.

PERFORMANCE FEATURES



Air Burst


- Air Burst Mode
- Point Detonate
- Point Detonate Delay
- Expandable for additional modes (i.e., quick arm)
- Self-destruct at max mission time
- SAPHEI warhead offers high performance penetration
- Highly flexible design

SAFE AND ARM FEATURES

ELECTRONICS FEATURES

- Operates with or without the inductive fuze setter
- Inductive Set Capability – High rate of fire, accurate, reliable, and operates in all environments
- Turns Count Technology – Range estimation via turns count
- Muzzle velocity variation compensation

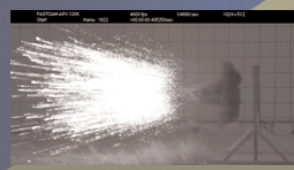
SAFETY FEATURES



Command Arm S&A

- Proven Reliable
- Low UPC cost
- Highly Flexible Design
- 2 independent arming environments
- Arm at specific distances to meet requirements

PERFORMANCE FEATURES




PD Delay

- Valid setting to enable air burst mode
- Requires high-g setback to unlock S&A
- Requires high-g setback activate power
- Arming and detonating from setback power only
- Fuze must detect and accumulate turns to airburst
- Fuze senses turns counting within a specified time period to confirm valid launch
- 2 independent arming environments

SAFE AND ARM FEATURES

SAFETY FEATURES



Air Burst Squad Target

For information contact: Orbital ATK Armament Systems
 4700 Nathan Lane
 Plymouth, MN 55442
 Tel 763-744-5312
 email: ArmamentSystems.BDev@atk.com

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