

Tank Ammunition

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides overwhelming lethality overmatch in tank ammunition.

DESCRIPTION

The current 120mm family of tank ammunition consists of fourth-generation kinetic energy (KE), multipurpose, and canister ammunition. KE ammunition lethality is optimized by firing a maximum-weight sub-caliber projectile at the greatest velocity possible, defeating advanced threat armor. The M829A3 kinetic energy cartridge provides armor-defeat capability. The M829E4, the next-generation KE cartridge, is currently in the Engineering, Manufacturing, Design (EMD) Phase of the acquisition cycle and Milestone C is scheduled for FY14. Multipurpose ammunition uses a high-explosive warhead to provide blast, armor penetration, and fragmentation effects. The shotgun shell-like M1028 canister cartridge provides the Abrams tank with effective, rapid, lethal fire against massed assaulting infantry, and is also used in training. The 120mm family has dedicated training cartridges in

production: The M865, with its reduced range, simulates tactical trajectory to 2,500 meters; and the M1002 simulates the M830A1 size, weight, and nose switch. To support the Stryker force, the 105mm Mobile Gun System uses M1040 canister cartridges. The M1040 canister cartridge provides rapid, lethal fire against massed assaulting infantry at close range, and is also used in training. The 105mm M724A1E1 is a reduced range training cartridge intended to provide the Soldier the training capability to maximize the effectiveness of the tactical 105mm M900 KE cartridge, which provides armor defeat capability. The M724A1E1 is a ballistic match for the M900 KE cartridge. The cartridge will be used in the Stryker Mobile Gun System (MGS). The MGS employs the M68A1/A2 105mm rifled gun tube with a Muzzle Reference System (MRS) and an autoloader for storage and handling of its 105mm ammunition. The 105mm M467A1 training cartridge is a ballistic match to the M393A3 tactical round, both of which completed production in FY10.

SYSTEM INTERDEPENDENCIES

In this Publication
None

Other Major Interdependencies

The Abrams Main Battle Tank fires 120mm ammunition, the Stryker Mobile Gun System fires 105mm ammunition.

PROGRAM STATUS

- **Cuurent:** M829A3, M830, M830A1, M1002 and M908, M1028, M1040, M393A3, M467A1 are fielded

PROJECTED ACTIVITIES

- **FY13:** M1002 in production; M865, M831A1 in recapitalization
- **FY13:** M724A1E1 Milestone C
- **FY14:** M829E4 Milestone C

ACQUISITION PHASE

Technology Development	Engineering & Manufacturing Development	Production & Deployment	Operations & Support
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Tank Ammunition

Large Caliber Ammunition 120mm, 105mm Training & Tactical Ammunition



105mm



FOREIGN MILITARY SALES

M831A1 and M865:

Iraq

KE-WA1:

Kuwait

CONTRACTORS

M1002, M865 and M829E4:

Alliant Techsystems (Plymouth, MN)

M1002, M865, and KEW:

General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)

M1040:

L-3 Communications (Lancaster, PA)

