

ACSW FAMILY OF AIRBURSTING ARMOR PIERCING MUNITIONS



General Dynamics Ordnance and Tactical Systems, a world leader in the development of Medium Caliber airburst ammunition, has been selected by the US Army to develop the Family of 25mm Munitions for the XM307 Advanced Crew Served Weapon (ACSW). Entering into Systems Design and Demonstration (SDD), GD-OTS will finish development of and deliver the 25mm ammunition, including the XM1019 High Explosive Air Burst (HEAB), the XM1049 Armor Piercing (AP), the XM 1051 Target Practice-Spotter (TP-S), the XM1050 Target Practice (TP), and the XM 1048 Dummy cartridges. Low Rate Initial Production (LRIP) will begin in FY08 with Block 1 FCS FUE later the same year.

The XM307 ACSW weapon system is the next generation mounted and dismounted machine gun, providing accurate long-range firepower, including airburst technology in a lightweight systems package. The XM307, with GD-OTS' family of 25mm munitions will replace the current M2 .50cal machine gun and selected Mk19 grenade launchers, representing a major increase in machine gun lethality, by extending stand-off range; defeating defilade targets; providing day, night and all-weather capability; reducing combat load; and decreasing cost-per-kill. The XM307, with its suite of munitions, is anticipated to be deployed on several US Army manned and unmanned Future Combat Systems (FCS) vehicles, as well as the Future Tactical Truck Systems (FTTS).



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ACSW 25mm Munitions Provide Unmatched Lethality



The Family of 25mm munitions provides decisively violent and suppressive target effects and a leap ahead in crew served weapons performance. For the first time, an individual soldier can defeat defilade targets (i.e. behind structures, foxholes, terrain features and/or vehicles) with an air bursting 25mm XM1019, at ranges up to 2000 meters. The XM1019 is capable of defeating the PASGT Vest and Helmet. A thermobaric warhead configuration has also been successfully demonstrated. An Ammunition Velocity Correction System that compensates for round-to-round velocity variations dramatically increases airbursting accuracy at all ranges, combined with the weapon system's tight 1.5-mil dispersion, the family of ACSW 25mm munitions provides an unequaled lethality.

The XM 1049 AP cartridge has been designed to defeat light armored materiel targets at ranges of up to 2000 meters. The XM1049 is also compatible with the XM109 25mm Anti-Materiel Rifle under development by the Joint Service Small Arms Program (JSSAP). GD-OTS further envisions utilizing its airburst technology in future 20mm – 57mm munitions.

The Project Manager for Soldier Weapons, located at Picatinny Arsenal, New Jersey manages the ACSW program. Team members include General Dynamics Armament and Technical Products as the prime contractor with total system integration responsibility as well as development of the 25mm gun and mount, Raytheon as developer of the full solution fire control, and Dayron for the remote settable airbursting fuze.



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