
## CASED TELESCOPED WEAPONS AND AMMUNITION

The next generation Cased Telescoped (CT) Weapons and Ammunition systems deliver 40 percent less weight, greater mobility, improved survivability, and reduced logistics. Recent military utility assessments and technical evaluations of our 5.56mm Light Machine Gun and ammunition have validated system maturity, performance, and weight reduction benefits, and are being extended to a 7.62mm system.

When it comes to optimally equipping the warfighter — less is definitely more.

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TEXTRON Systems

# CASED TELESCOPED WEAPONS AND AMMUNITION

Initially started under the U.S. Army's Lightweight Small Arms Technologies (LSAT™) program, the CT Weapons and Ammunition program seeks to extend the technology to other calibers. The program is managed through the Joint Service Small Arms Program Office (JSSAP), located at the Army's Armament Research, Development and Engineering Center (ARDEC) at Picatinny Arsenal in NJ.

## ADVANTAGES OF CT WEAPONS AND AMMUNITION

- Reduces weight of weapons carried by warfighters by 35 percent
- Lowers ammunition weight by more than 40 percent
- Maintains/improves lethality and reliability over current systems
- Improves ergonomics and logistics
- Reduces training and maintenance time


## AN EXPERIENCED TEAM

The CT Weapons and Ammunition program is managed by a government/contractor integrated product team that works cooperatively to achieve success. Prime contractor Textron Systems has a long, proven history as a designer and manufacturer of armament and ammunition technologies, having been involved in many Army small arms development programs over the past 50 years.

Textron Systems oversees an experienced team of companies for the program including: ARES, Inc. of Port Clinton, OH; Alliant Techsystems, or ATK, of Independence, MO; General Dynamics company St. Marks Powder of St. Marks, FL; MSC Software of Santa Ana, CA; and Battelle Memorial Institute of Columbus, OH.

ARES Inc. ATK St. Marks Powder A GENERAL DYNAMICS COMPANY MSC Software Battelle The Business of Innovation

## SUCCESSFUL USER ASSESSMENTS, DEMONSTRATIONS

Over 100,000 rounds of 5.56mm CT ammunition and eight light machine guns have been produced to support Technology Readiness Level (TRL) 7 assessments and three significant user assessments:

- Military Utility Assessment (MUA), performed by Maneuver Battle Lab at Fort Benning. Fired 23,000 rounds
- US Special Operations Command (USSOCOM), at Fort Bragg. Fired 12,000 rounds
- Dismounted Non-Network Enabled Limited Objective Experiment (DNNE LOE) sponsored by Army Capabilities Integration Center (ARCIC) and performed by Maneuver Battle Lab at Fort Benning. Fired 10,000 rounds, 8,500 blank rounds.

## DEMONSTRATED PERFORMANCE BENEFITS

- Improves short range engagement times, provides more 1st round hits at long range, and increases accuracy due to recoil mitigation
- Increases maneuverability due to decreased weight, specifically when conducting individual movement techniques and transitioning from kneeling to standing
- Provides the squad the option to carry more ammo while reducing the load, or to carry the same load and gain additional suppression capability

## 7.62MM CT SYSTEM UNDER DEVELOPMENT

- Initial testing of 7.62mm CT ammunition has proven feasibility and demonstrated performance
- Initial weapon design estimates show that a system weight savings of 37% or 27 lbs over the M240L for a standard combat load

*7.62mm CT Medium Machine Gun*


## 5.56MM SYSTEM PROVIDES 20-LB WEIGHT REDUCTION

The weight of the current M249 weapon and 1,000 linked rounds is a combined 48.9 lbs. The 5.56mm CT system reduces total system weight to 28.5 lbs. – a 40% reduction – and reduces system volume by 12%.


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