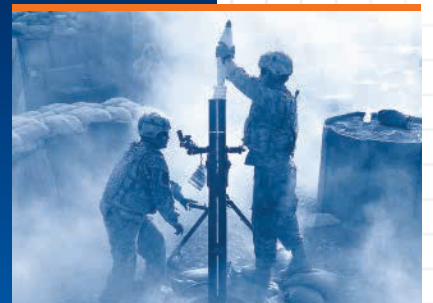


Armtec® Products for Military Applications





Esterline Defense Technologies manufactures ordnance products for a wide variety of military applications. With more than five decades of experience and over 120 million items delivered to date, our products support the U.S. government and its allies across the globe, keeping military personnel safe and well-equipped with high-quality, reliable products.

Our commitment to operational excellence, safety and quality is apparent in the modernization and strategic automation implemented within our manufacturing processes. Our operational performance is further enhanced by an intensive continuous improvement focus, lean manufacturing programs, and cultural principles that are a key part of the Esterline Operating System.

Propellant Containers for Artillery

Artillery products include the Modular Artillery Charge System (MACS), nitrocellulose-based igniter tubes, and the M203A1 top zone charge. MACS advantages include:

- Greatly reduced cost and logistics chain; charge system is additive, eliminating the need to dispose of unused charges
- Increased safety during transport and loading
- Extended range
- Increased rates of fire



120mm Combustible Cartridge Case (CCC) for Main Battle Tanks

120mm CCC nitrocellulose-based molded-fiber components are rigid and durable. Advantages include:

- High-pressure and high-velocity capability without the extraction problems associated with metal cases
- Increased muzzle velocities
- Combat-proven
- Total round weight reduction
- Capable of withstanding harsh environments and rough handling conditions



Propellant Containers for Mortar Systems

Nitrocellulose-based mortar propelling charge containers are the combat-proven standard on all U.S. mortar ammunition. Advantages include:

- Elimination of hangfires associated with in-bore residue
- Moisture resistant
- Proven performance in a wide range of climatic conditions -40°F (-40°C) to 140°F (60°C)
- Consistent muzzle velocity, resulting in increased accuracy
- Extended shelf-life
- Combat-proven



New Product Development

Esterline Defense Technologies has the facilities to perform a wide range of Research and Development (R & D) activities. Dedicated to R & D initiatives, we are positioning ourselves for growth with a series of new product innovations and emerging product lines. Focus areas include:

- 40mm Pyrophoric Payloads
- 105mm Combustible Tank Cases

Our Capabilities Include:

- High-volume manufacturing
- Engineering services encompassing product design, process development and material studies
- Prototype manufacture
- Physical testing laboratory
- Analytical chemistry expertise
- Full-service pilot plant
- Mechanical applications laboratory



Quality and Environmental Certifications

Esterline Defense Technologies is committed to safety, quality, on-time delivery and environmental compliance. Our facilities are certified to the International Organization for Standardization (ISO) 9001 Quality Management System and ISO 14001 Environmental Management System.



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