**Esterline Defense Technologies** is a world leader in the design, development and manufacture of expendable countermeasures and specialty pyrotechnic and pyrophoric products. For more than 55 years, Esterline Defense Technologies has proudly served the U.S. government and its allies across the globe, helping to keep military personnel safe and well-equipped with high-quality, reliable products and services to meet our customers’ unique requirements and delivery schedules.

Our core countermeasure competencies include the development and manufacture of pyrotechnic flares, pyrophoric decoys — also known as Special Material Decoys (SMD) — and radar frequency countermeasure (RFCM) chaff, all products designed to decoy missiles and/or radars.

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

**Air Expendable Countermeasure Products**

Combat-proven through decades of armed conflicts around the world, Esterline Defense Technologies’ countermeasure products continue to protect aircraft and crews from increasingly varied and advanced missile threats. These countermeasures can be tailored to meet specific customer requirements and come in a variety of form factors compatible with U.S. and NATO dispensing systems.

**Infrared (IR) Flares**
Conventional magnesium-based (MTV) IR flares provide protection by creating a signature to decoy heat-seeking missiles.

**Advanced Flares**
Advanced flares are designed to decoy the latest generation rate-biased and spectrally discriminating missiles.

**Pyrophoric Decoys**
Pyrophoric decoys rapidly oxidize in air to generate an IR signature that decoys a heat-seeking missile away from its intended target.

**Radar Frequency Countermeasure Chaff (RFCM)**
Chaff decoys produce specialized radar signatures to provide protection against radar-guided missiles and tracking systems. Esterline Defense Technologies is the sole producer of these products for the U.S. Department of Defense and a key player in the design and development of next-generation passive and active RFCM products and payloads.
Research & Development

Our R&D departments have an excellent reputation for industry-leading expertise in all areas of airborne IR and RF countermeasures. Working directly with the U.S. Department of Defense and its allies to develop products to defeat the ever-changing threats, Esterline Defense Technologies is frequently called upon to solve the most difficult challenges.

Our Capabilities Include:

- Computer simulation to predict decoy performance and system effectiveness
- Missile engagement modeling
- Leading edge chaff and pyrotechnic, spectral, and pyrophoric flare technology development
- Pilot scale manufacturing
- Product tailoring to meet customer/performance requirements
- Environmental testing
- Specialized testing

Facilities

Our three manufacturing sites in the U.S. have the expertise and specialized facilities to provide a wide range of military products.

Coachella, California
- Platform headquarters and executive offices
- R&D and high-volume manufacturing
  - Pyrophoric decoys
  - Combustible ordnance
  - Defense specialty products and payloads

East Camden, Arkansas
- R&D and high-volume manufacturing
  - Magnesium-based IR flares
  - Kinematic and spectral IR flares
  - Specialized high-energy magnesium-based products

Lillington, North Carolina
- Only chaff production facility in the U.S.
- RFCM R&D and high-volume manufacturing
  - Airborne chaff decoys
  - Naval chaff payloads
  - Bulk chaff (hanks)
  - Aluminum glass-coated specialty products
Quality and Environmental Certifications

Esterline Defense Technologies offers a full complement of IR decoy flares and RFCM chaff compatible with U.S. and NATO dispensing systems. Our facilities are certified to the International Organization of Standards (ISO) 9001 Quality Management System and ISO 14001 Environmental Management System. Our commitment to quality and safety ensures our ability to meet our customer’s performance and delivery requirements for these important products.