

Delivering Confidence

# SENSOR FUZED WEAPON

TEXTRON Systems



## Clear victories. Clean battlefields.

Textron Defense Systems' Sensor Fuzed Weapon (SFW) is far superior to older, legacy cluster weapons, which are known to generate unexploded ordnance. The SFW contains Textron Defense Systems' BLU-108 submunition and smart Skeet™ warheads equipped with dual-mode passive infrared (IR) and active laser sensors. If a Skeet warhead does not detect a valid target over its lofted trajectory, one of its three safety modes will activate. The first two modes enable the Skeet to self destruct after eight seconds from launch or within a 50-foot altitude above the ground. The Skeet's third feature is a time-out device that will yield the warhead inert within minutes of hitting the ground. The built-in, redundant self-destruct logic and time-out features are key elements that distinguish SFW from traditional munitions, preventing hazardous unexploded ordnance and ensuring a clean battlefield for follow-on troop movement and civilian habitation of the area.

TEXTRON Defense Systems

# PROVEN EFFECTIVE AGAINST A WIDE RANGE OF MOVING AND STATIONARY TARGETS

Known as CBU-97 and CBU-105, Textron Defense Systems' SFW is the first and only combat-proven clean battlefield weapon of its kind in the U.S. Air Force inventory. The SFW is designed to accurately detect and defeat a wide range of moving and stationary land and maritime target threats — from heavy armored battle tanks and soft-skinned vehicles to maritime threats — with minimal collateral damage and no hazardous unexploded ordnance. In fact, the SFW has been verified by the U.S. government at greater than or equal to 99 percent reliability during more than 600 tests across the range of operational use. These operational verifications are backed with rigorous engineering analysis and testing which also support the SFW's unmatched level of reliability. No one-shot weapon is as effective as the multi-warhead SFW against so many target types.

## Proven Effectiveness and Reliability

The SFW, a 1,000-pound class weapon, contains 10 Textron Defense Systems BLU-108 submunitions — each with four smart Skeet warheads, for a total of 40 warheads. One SFW can detect and engage many fixed and moving land and littoral combat targets simultaneously within 121,400 square meters (30 acres). This wide-area capability enables the SFW to halt an invading force and attack air defense sites while significantly reducing the number of aircraft sorties.

Designed for standoff deployment from a wide selection of aircraft, the SFW's versatility and superior lethality make it the weapon of choice for anti-armor, destruction of enemy air defense and many other combat missions. It can be deployed from U.S. or NATO tactical aircraft in all weather conditions, day or night, and is certified on most Air Force fighter and bomber aircraft.

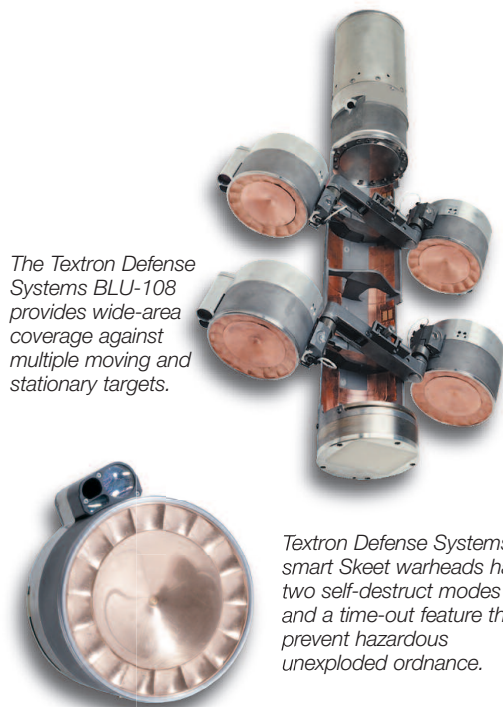
Each smart Skeet warhead can defeat a variety of moving and stationary targets including parked aircraft, mobile radars and jammers, air defense vehicles and support vehicles.

## Smart Sensor Technology

The SFW's lethality exceeds Air Force effectiveness requirements, delivering greater than 99 percent operational reliability. Textron Defense Systems ensures this through exhaustive testing of hardware, software and electronics over an extreme range of possible operational conditions including temperature, weather, battlefield conditions or exposure to electrostatic discharge. Once deployed, the smart Skeet warhead and its two-color IR sensor search for targets that match a defined set of IR requirements, while the laser sensor profiles those targets for improved aim point and lethality. When a valid target is detected, the Skeet warhead fires an Explosively Formed Penetrator, or EFP, and multi-element fragment ring to effectively penetrate hardened steel. For high-altitude release and active guidance, Lockheed Martin's Wind Corrected Munition Dispenser (WCMD) tail kit is available as an option. Incorporating the WCMD tail kit on CBU-97 redesignates SFW as a CBU-105. Aircraft must be MIL-STD-1760 compliant to deploy CBU-105.



*The SFW provides wide-area coverage with verified reliability of greater than or equal to 99 percent against moving and stationary hard and soft targets, as well as maritime threats.*



*The Textron Defense Systems BLU-108 provides wide-area coverage against multiple moving and stationary targets.*

*Textron Defense Systems' smart Skeet warheads have two self-destruct modes and a time-out feature that prevent hazardous unexploded ordnance.*

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