

COMMON SMART SUBMUNITION

Next-generation, multi-platform smart submunition capable of providing precision attack and overwhelming lethality



Gun-hardened design, flexible deployment, proven results

From the company that delivered the combat-proven Sensor Fuzed Weapon (SFW) and BLU-108 “smart” submunition, comes the revolutionary Common Smart Submunition (CSS). Textron Defense Systems’ CSS is evolving directly from our own BLU-108 Sensor Fuzed Submunition — a weapon proven highly effective in Operation Iraqi Freedom.

Designed for deployment from 155mm artillery, rockets, lethal Unmanned Air Vehicles (UAVs) and loitering weapons, the CSS will provide the same lethality delivered by BLU-108 but with an ability to discriminate among potential targets within its search area. Its lightweight design and flexible deployment mechanism make the CSS compatible with a number of weapon systems and aircraft.

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Reduce Collateral Damage

The small size of CSS and its precision shoot-to-kill Explosively Formed Penetrator (EFP) warhead will substantially reduce the risk of collateral damage. Whether targets are moving or fixed, the CSS can effectively neutralize a variety of combat threats, from heavy armored battle tanks to soft-skinned vehicles, including parked aircraft, mobile radars and jammers, air defense vehicles and support vehicles.

Samara Wing Design

Unique to Textron Defense Systems' CSS is the Samara Wing, a weighted fabric blade stowed onboard the submunition prior to ejection. The CSS is deployed spinning from its host carrier; the Samara Wing then unfolds, providing an aerodynamic auto-rotation and proper tilt of the submunition.

Smart Sensor Technology

Once deployed, the CSS warhead uses its dual-mode active/passive sensor to detect targets below. Its passive infrared (IR) sensor searches 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, an aim point is selected and the Combined Effects (CE) warhead fires an EFP to effectively perforate armor and instantly defeat a variety of targets from the top — its most vulnerable area.

Clean Battlefield Operation

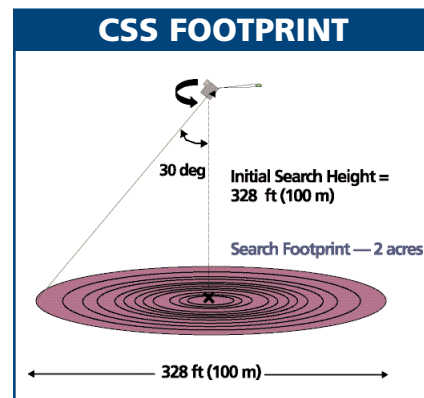
Textron Defense Systems' CSS model features built-in redundant self-destruct logic. If a CSS does not detect a valid target within its search area, it will self-destruct. Additionally, a timed self-deactivation mode renders any unexploded warhead harmless within minutes after delivery. Together, these safety features ensure clean battlefield operation.

Technical Specifications

- Gun-hardened to 16,000 Gs
- Integration with a variety of artillery, missile and unmanned air vehicle (UAV) systems
- Long storage life in host vehicle (wooden round)
- Small, compact shape

Overall Dimensions

Nominal Weight - 8.6 lbs (3.91 kg)
Diameter - 5.04" (128 mm)
Length - 4.0" (102 mm)



Spinning above the target area, the CSS begins its search for a valid target within a 2-acre coverage area.

TEXTRON Defense Systems

201 Lowell Street
Wilmington, MA 01887 USA

Phone: 1-978-657-2100
Fax: 1-978-657-2229

www.textrondefense.com