

HAWKEYE

105mm Weapon System



Overview

The Hawkeye 105mm Weapon System is a lightweight, modular, high-performance howitzer designed to be integrated with many types of combat transportation. By utilizing emerging technologies, it will set the standard for light artillery in the areas of firepower, tactical mobility, strategic deployability and command and control. The Hawkeye will be a superior alternative to existing weapon systems such as the 106mm Recoilless Rifle, 120mm Mortar, and other 105mm artillery systems due to its low cost precision strike capability.

The Hawkeye has incorporated a ground-breaking modular design. Due to its lightweight and low recoil forces it can be mounted to many types of military vehicles

including wheeled, tracked, rail, watercraft, aircraft, and towed systems. This means that a performance based 105mm artillery system can be deployed to the land, sea, and air in ways that never used to be possible. Additionally, the Hawkeye has been designed to accommodate a full spectrum of barrel lengths if range is a primary requirement.

The Hawkeye is a game changing weapon system. Never before has a 105mm howitzer been able to offer the kind of firepower and mobility that the Hawkeye does while remaining lightweight and modular. Incorporate the Hawkeye into your order of battle and unlock your force's true potential.

Key Features

- Soft Recoil technology allows the weapon to be placed on light vehicles and non-standard platforms, including aircraft and coastal and river patrol watercraft.
- Extremely light weight, less than 2200 pounds.
- Quicker emplacements because the gun doesn't need to be laid. It can fire 360 degrees direct or indirect.
- Electrically controlled elevation and azimuth in conjunction with digital fire control.
- A digital camera serves as the direct fire scope which is used in conjunction with the digital fire control.
- With the removal of five bolts, the weapon can be transferred to another prime mover such as an aircraft, boat, or other medium-sized wheeled vehicle.
- Tremendous growth potential for all features including a longer caliber cannon.
- Reduced maintenance costs due to an efficient design that has a substantial reduction in parts.
- Most maintenance can be performed at unit level. Examples:
 - Recoil and Elevation systems can be maintained and repaired in the field.
 - Minimal daily maintenance. All that is required is the inspection of the cannon assembly. The nitrogen and hydraulic oil levels are monitored electronically.
 - Annual maintenance consists of lubricating the elevation ball screw and greasing the traversing bearing and elevation gearbox.



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Patent Pending



Specifications

Armament	105mm 27 caliber cannon	Weight	2200 lbs 1000 kg
Propellant	Standard NATO (M67)	Configuration	Compartmentalized crew Weapon and ammo storage
Max Range	Conventional 11,500 m Rocket Assisted 15,100 m	Responsiveness	Emplaced in 15-20 sec
Traverse	360 deg	Crew	3 (Emergency operations by 2)
Elevation	-5/+72 deg	Rate of Fire	10 to 12 rounds per minute 6 rounds per minute sustained

Deployability

Surface	Dependant on customer ground transport capabilities	Rail	Meets NATO Rail Envelope B constraints
Air	C-5, C-17, C-130, CH47 UH60, Blackhawk	Sea	LCU-1646



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