



SAMSON MK I REMOTE WEAPON STATION

All-in-one multi-mission response



The Samson Mk I is a dual-axis, gyro-stabilized remote-controlled weapon system (RWS) capable of mounting multiple weapons. The retractable, dual-sighted Mk I supports main and secondary armaments, including a 25mm to 30mm main gun and a 7.62mm coaxial machine gun, as well as an optional anti-tank guided missile launcher and smoke grenade launcher.

The Mk I is fully qualified to NATO standards and has been operationally deployed in combat zones worldwide. The Mk I is lighter than manned turrets and does not require penetration into the vehicle hull, saving significant interior space. The gunner and critical electronic equipment remain protected inside the vehicle under armor. Integration of ammunition chutes in special shafts provides reliable protection and uninterrupted firepower.

The Samson Mk I has performed under combat conditions with excellent feedback from users in the field.

Two electro-optic sights for independent commander and gunner surveillance, and an auto tracker for fast maneuver-

ing targets further optimize the operational capabilities of the RWS. Hit accuracy is significantly improved by the RWS's dual-axis stabilization system.

KEY CHARACTERISTICS:

Retractable RWS for any 6 x 6, 8 x 8, or tracked armored fighting vehicle

Supports multiple weapons, including 25mm and 30mm weapons, anti-tank guided missile launcher and smoke grenade launcher

High hit and kill probability

Integration of ammunition chutes provides under-armor protection for uninterrupted firepower

Day/night operation and endurance under extreme conditions

Does not require penetration into the vehicle hull, saving significant interior space

Deployed in active service worldwide

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General Dynamics Ordnance and Tactical Systems and Rafael are teamed in a joint venture, GR Dynamics, LLC, to provide integration and production of the Samson Mk I remote weapons station. The Mk I has performed millions of operational hours under combat conditions with positive feedback from users in the field.

Specifications

Weight	
Overall Combat Weight (including main and secondary weapons, full ammunition load, external and internal units, ATGM Missile Launcher and two missiles)	Less than 3,500 pounds (1600 kg)
Weapons (partial list)	
Main Armament	M242 25mm gun Mk44 30mm gun
Secondary Armament	7.62mm machine gun
Effectors (optional)	Anti-tank guided missile launcher Smoke grenade launcher
Ammunition types - ready for use	
25-30mm	200 rounds, including ABM
7.62 mm	230 rounds
Missiles for ATGM launcher	Two missiles
Smoke grenade launcher	Up to eight
Traverse Range	360°
Elevation Range	
Note: Depression range may be limited by vehicle structure.	-20° ±1 to +60° ±1
Power Supply	24 volts direct current (VDC) Nominal (18-32 VDC)
Power Consumption	
Average power consumption	<90 amps at 28 VDC