



SAMSON 30 RWS

The world's leading systems integrated into an all-in-one solution

SAMSON 30 RWS

SAMSON 30 INTEGRATED RWS WITH TROPHY APS

To perform in the anticipated close combat environment, the participating vehicles must move at the same speed as the MBTs. However, battlefield saturation with lethal, mobile, easy-to-operate and affordable anti-tank CE weapons hinders the mobility of even the most agile vehicle, if it lacks adequate protection. The SAMSON 30 Integrated RWS is RAFAEL's latest innovation. The unmatched lethality is derived from the combination of a 30mm automatic cannon with Air Burst Munition (ABM), a 7.62mm coaxial machine gun and dual launcher for RAFAEL's SPIKE-LR2 multi-purpose guided missiles – supported by a sophisticated Fire Control System with advanced image processing capabilities for accurate and fast target acquisition.

The survivability is enabled by the TROPHY Active Protection System (APS) and armour protection. The new integrated SAMSON 30 provides the participating vehicles with a degree of protection close to MBTs, combined with fire power suitable for their mission, without degrading their intrinsic mobility

SAMSON 30 Integrated RWS

MORE THAN 40 YEARS OF EXPERIENCE

SAMSON 30 is the first Integrated RWS that joins the legacy family of RWS and RWS that are already deployed in over 25 countries under rigorous combat and environmental conditions. SAMSON 30 is a dependable force multiplier and trusted solution for the most challenging missions. RAFAEL is currently the main supplier to the IDF, and its battle-proven applications include thousands of RWS for NATO armies including the Czech Republic, the UK, Spain, Romania, Greece, Belgium, Lithuania, Canada, and many others. RAFAEL's vast experience has proven that RWS provides many advantages for land forces in comparison to manned turrets. Among them are better survivability, lighter weight, simpler integration, lower silhouette and lower price, while maintaining the same or increased lethality. The RWS enables the same level of vehicle protection with no hull penetration and no obstacle within the interior space. RAFAEL's SAMSON 30 Integrated RWS provides the commander with a Head Out capability through an inherent hatch enabling close situational awareness. It also allows for under-armour loading of ammunition, a unique capability that limits the exposure of the vehicle crew to direct enemy fire. This is an exceptional combination of the SAMSON 30 Integrated RWS – backed by 40 years of global success that has set the standard around the world – and these unique life-saving features.

One System House

The integration of SAMSON 30 RWS with TROPHY APS and SPIKE LR1/2 ATGMs adds significant capabilities to the fighting vehicle and crew as well as to the formation. This all-in-one system can locate the fire source, enabling the crew to return fire effectively with a SAMSON 30 RWS or by interfacing with other fighting platforms via the BMS network. This new innovation



is a uniquely powerful solution that delivers unmatched maneuverability, survivability and lethality. The fact that all components come from one system house enables smooth integration and mitigates any risk, both on the system level and on any vehicle integration. In addition, the Integrated RWS allows a crucial and significant weight reduction compared with any other alternative, Manned or Unmanned. The RAFAEL integrated solution design optimises all of the system's capabilities into a powerful and synergetic RWS that enables exceptional survivability in the modern battlefield. All of these technologies are designed, produced and supplied by the same System House, ensuring and maximising the interface and interoperability of all systems integrated on the platform.

Integration of TROPHY APS

TROPHY™ is the world's only combat-proven Active Protection System (APS), and can be deployed on any AFVs – including MBTs, 8X8s, and other medium-weight platforms. TROPHY is reshaping global battlefields with an unprecedented level of survivability. With over 500,000 operational hours since 2011, it is the only APS that has already saved lives. TROPHY creates a neutralisation bubble around the vehicle. It rapidly detects, classifies and engages all known chemical energy (CE) threats – including recoilless rifles, ATGMs, AT rockets, HEAT tank rounds, and RPGs. TROPHY is in use on Merkava 3&4 MBTs and Namer Heavy APCs, and was selected by the U.S. Army and USMC for the Abrams MBT family (2018). TROPHY APS is ready for integration on Australian Army M1A2 MBTs, on the BOXER 8X8 IFV, and on the vehicle to be selected for the LAND 400 Phase III program as well.

Integration of Spike LR2 5th generation

The SPIKE LR2 is an advanced, state-of-the-art, lethal 5th generation multi-purpose, multi-platform missile, designed for modern warfare with almost full commonality with the SPIKE Missile legacy. RAFAEL stands behind its long-stated strategy regarding SPIKE missile systems – for continuous improvement by extending engagement range, enhancing lethality, and reducing weight.

SAMSON 30 Integrated RWS All-in-One Advantages

- The world's leading systems are combined into one optimal solution: SAMSON 30mm RWS, TROPHY APS, SPIKE LR1/2 Missiles and Advanced Fire Control System.
- The integrated system enables faster, more accurate slew to cue than a distributed system.
- Full integration with the "TORCH" C4I system is qualified and combat-proven.
- A unified user-interface serves both the RWS, the APS, and the SPIKE, including battle management and BIT.
- A single system house lowers integration risks and enables reduced weight and size.





Add-On Armor STANAG LEVEL 2 | Total weight < 3.5 tons | Gun elevation: -10° to +60°

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