



RCWS 320C-UAS

The Effector RCWS 320C-UAS is part of Rheinmetall's latest-generation remote-controlled weapon station family, designed to provide advanced self-protection for tracked vehicles, wheeled platforms, unmanned ground vehicles (UGVs) and stationary installations — even under the most demanding operational conditions. Its high-performance, modular architecture delivers robust and scalable protection against unmanned aerial threats.

Purpose-built for counter-UAS missions, the system combines rapid sensor fusion, automated target engagement and flexible LANCE integration to enable fast and reliable drone defeat. Support for both hard-kill and soft-kill effectors allows the implementation of layered defence concepts tailored to specific mission requirements.

The NGVA-compliant design ensures seamless integration on infantry fighting vehicles and main battle tanks, while the rugged, all-weather construction guarantees sustained performance in harsh environments. Modular hardware and upgradeable software provide long-term adaptability and future growth potential.

Beyond battlefield operations, the RCWS 320C-UAS enhances convoy protection for mobile assets and provides perimeter defence for fixed sites such as military bases and critical infrastructure. This versatility makes the system ideally suited for both mobile and static counter-UAS applications.

The system's intuitive platform integration and compatibility with LANCE systems support rapid deployment, high operational flexibility and enduring reliability for modern armed forces.

The Modular Sensor and Shooter Adapter (MSSA) extends system capability as a high-performance enhancement of the SEOSS sight system. It enables true killer-killer functionality without additional turret space or loss of commander visibility and can be operated directly via the commander's sight. Real-time signal processing, coincidence analysis, optional auto-tracking and a backlash-free, sight-decoupled drive ensure exceptional precision. Multiplexing technology maintains high SEOSS availability, preserving commander situational awareness even in the event of weapon system damage. Developed in accordance with IEC 61508 and qualified under AECTP-400 for wheeled and tracked vehicles, the MSSA provides a resilient, safety-certified sensor-shooter interface, further strengthening the RCWS 320C-UAS ecosystem.

PERFORMANCE FEATURES

- High First-Hit Probability
- High angular precision and speed
- Ability to fight dynamically
- Automatic Target Tracking
- Self-stabilized platform
- C-UAS functionality
- NGVA-Interface

TECHNICAL DATA	
Dimensions	
Height	655 mm
Width	1,140 mm
Height	940 mm
Empty weight (without ammunition)	430 kg
Operating weight (system + ammunition)	530 kg
Effector	Gatling Gun System and GPMG up to 7.62 x 51 NATO
Fire rate	3,000 rpm
Effector range	Up to 600 m
Standards	MIL-STD-1275, MIL-STD-461
Radar integration	Adaptable modules: up to 230° AZ/90° EL
Sight system	Modular: SEOSS 320 (air defence)
Ammunitions support	7.62 mm – up to 3,500 rounds
Self-protection	ROSY Launcher, armor hood for the SEOSS

DETECTION	
EO/IR optics: NATO standard target detection	>17,000 m
EO/IR optics: NATO standard target identification	>5,000 m
EO/IR optics micro-UAV detection	>4,000 m
AESA radar: micro UAV detection	>1,200 m
AESA radar: micro-UAV identification	>1,000 m

