

MINK MODULAR COMBAT SUPPORT VEHICLE



CAPABILITY DESCRIPTION



 MINK ELECTRONIC WARFARE SYSTEM // MEWS

MODULAR COMBAT SUPPORT VEHICLE

DESIGN AND SAFETY

PROTECTION LEVELS

- Protected passenger monocoque cell
- Ballistic protection on passenger cabin is STANAG level 2 as standard with STANAG level 3 optionally available.
- The blast frame and cabin floor act as a blast attenuating double skin, energy absorbing mechanism and provides exceptional safety characteristics for the occupants of the vehicle.

Mine & IED protection up to STANAG levels 3A & 3B

Protected engine compartment

- Radiator grill and engine compartment sides protected to STANAG level 2.
- Bonnet protected to STANAG level 2 at 45 degrees angle of incidence.



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TECHNICAL SPECIFICATIONS

Parameter	MEWS Specification
Engine	6.7 l Cummins / 300 hp/ 223 kW 6.8 l MAN (OPTION) 340 hp/ 253 kW
Torque	1100Nm/ 1200NMm @1200 - 1800rpm
Transmission	Allison 6-speed Automatic
Engine Idle	750 - 850 rpm
Range	700 km
GVW/ Payload: MINK2	12,000 kg/ 2.700 kg, 2.000 kg (STANAG 2, 3)
GVW/ Payload: MINK3	20,000 kg/ 9.000 kg, 8.000 kg (STANAG 2, 3)
Alternator	24 V/ 360 A Standard: 1 st belt: Alternator, Engine, water pump 2 nd belt: AC system and auxiliary equipment
Batteries	x 2 at the front, inside engine compartment x 2 in the v-hull compartment (option)

Parameter	MEWS Specification
Dimensions (LWH): MINK2	6.120 x 2.370 x 2.640 mm
Dimensions (LWH): MINK3	7.000 x 2.370 x 2.640 mm
Track Width/ Axle	1.908 mm/ 4x4 independet front/ rear
Wheel Base: MINK2	3.600 mm
Wheel Base: MINK3	3.830 mm
Ground Clearance	484 mm
Angle of approach/ departure	40 degrees
Obstacle Crossing	484 mm
Crew Capacity: MINK2	6-8
Crew Capacity: MINK3	10-12
Protection Level	STANAG 4569 3A/3B

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PERFORMANCE MEWS STANDARD

Range	700km
Maximum Speed on Road	120km/h*



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STANDARD AND OPTIONAL EQUIPMENT

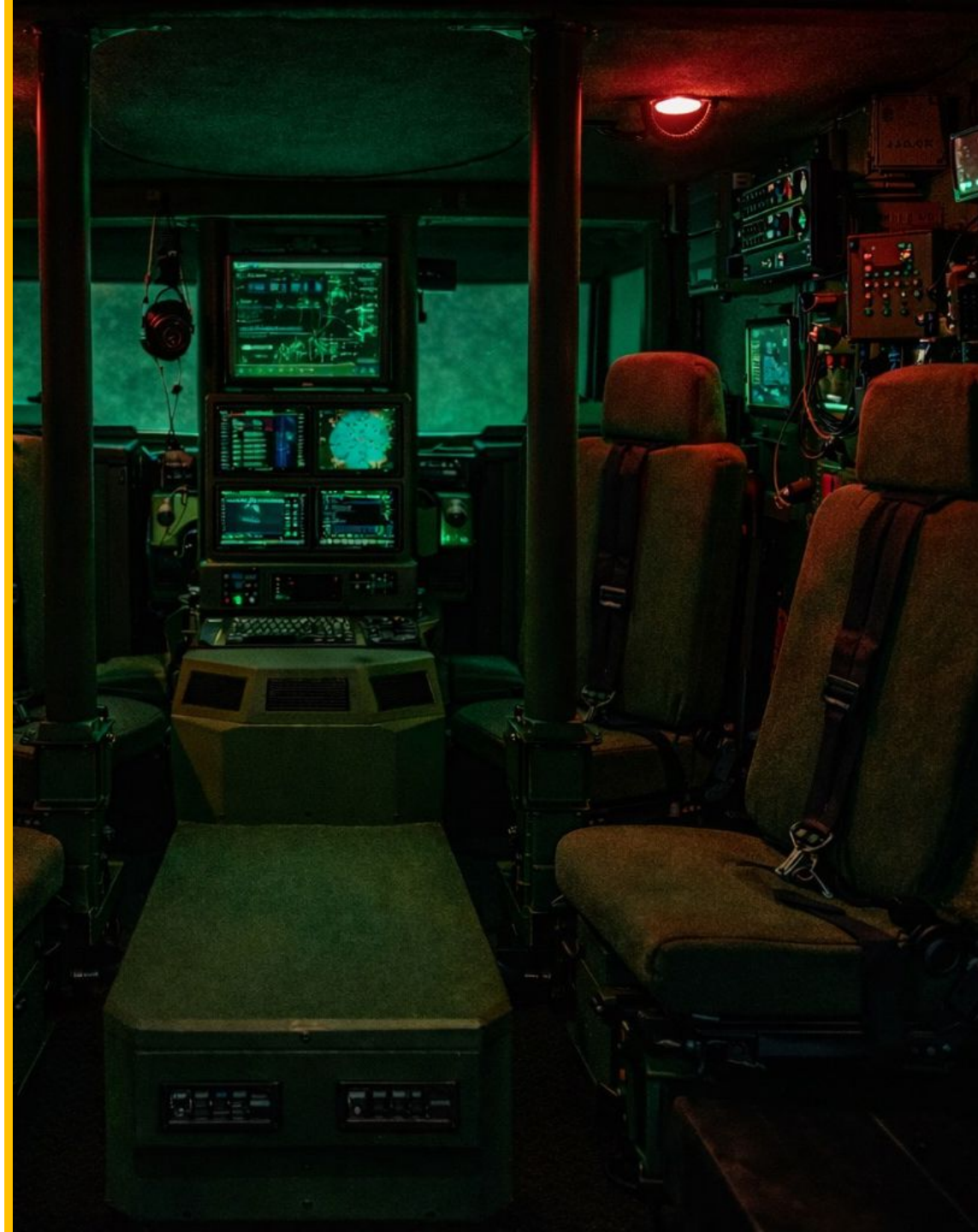
Standard Equipment	Optional Equipment	
<ul style="list-style-type: none"> ▪ CAN Bus Electrical System ▪ Forward and Rear View Cameras ▪ Air Conditioning Unit, tropical or extreme desert options ▪ Central Tire Inflation System (CTIS) ▪ Run-flat inserts in all tires ▪ Anti-Locking Brake System (ABS) ▪ Central Main Switch ▪ Battery protection system ▪ Mine blast certified seats ▪ Multipoint seat belts ▪ Towing Eyes ▪ Black out lighting ▪ Engine fire suppression system 	<ul style="list-style-type: none"> ▪ Customer equipment integration ▪ Self Recovery Winch ▪ NBC overpressure filtration system ▪ Sniper detection system ▪ Fire suppression system underbody ▪ Smoke grenade launchers ▪ Weapon mount* ▪ Turret options ▪ Strobe lights ▪ IED Jamming systems ▪ Night Vision System ▪ Fit for radio and navigation system 	<ul style="list-style-type: none"> ▪ PA /Intercom system ▪ Converter 24V to 220-230V ▪ Window wire mesh protection ▪ Antenna mounts ▪ Rifle holders ▪ Wire cutters ▪ Camera recording system with DVR ▪ FLIR and thermal vision systems

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Capability Overview

The MINK EW-System as a Mobile vehicle - based Electronic Warfare (EW) systems is a highly maneuverable, tactical platform designed to control the electromagnetic spectrum (EMS), protect friendly forces, and degrade enemy capabilities. These system integrate signals intelligence (SIGINT), electronic support (ES) and electronic attack (EA), enabling rapid deployment in the forward edge of the tactical battle area.



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Mission Role

MINK EW-System supports the following operational roles:

- Electronic Support (ES) and Intelligence Gathering: Mobile EW units actively scan, intercept and analyze enemy emissions (communications, radar, GPS) to provide real-time situational awareness (SIGINT/ELINT). This enables the identification, localization, and tracking of enemy threats.
- Electronic Attack (EA) and Jamming: These systems generate directional or omnidirectional radio interference to suppress enemy communications, radar, and navigation systems.
- Counter-Unmanned Aerial Systems (C-UAS): A primary role is protecting armored units and convoys by disrupting drone control channels and video feeds, forcing enemy FPV drones and reconnaissance UAVs to lose control, land, or return to base.
- Force Protection and Self-Defense: Vehicle-mounted jammers create a "radio frequency barrier" or protective "dome" around convoys and critical infrastructure to prevent the detonation of radio-controlled threats.
- Operational Mobility: Because they are vehicle-mounted, these systems can be rapidly deployed, redeployed, and integrated into tactical maneuvers, allowing units to "shoot, move, and communicate" in contested zones.
- Tactical Coordination: These systems enable Multi-Domain Operations (MDO), allowing ground units to coordinate with air, sea, and cyber assets.

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Key Performance Characteristics

a. Core functional pillars:

- Electronic Support (ES/ESM): Passive surveillance, locating, and identifying enemy emissions to create an electronic order of battle (EOB).
- Electronic Attack (EA/ECM): Active jamming and deception of enemy communications, drones, and radars.
- Electronic Protection (EP): Safeguarding friendly communications and systems from enemy jamming or unintentional interference. Active Seeker & Fire-and-Forget

b. Range:

- Tactical (up to 50 km): Used for protecting forward positions, combat units, and, for example, convoy escort and patrol missions.
- Operational-Tactical (up to 500 km): Used for disrupting deeper enemy communications and reconnaissance, supporting, and protecting larger command posts.

These systems are essential for maintaining electromagnetic superiority, denying the enemy the use of the electromagnetic spectrum, and protecting friendly forces from evolving threats.

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Technical Capabilities and Requirements

- Frequency Range: Systems must cover a broad spectrum, typically key frequencies like 800 MHz, 1.2/2.4/5.8 GHz, and V/UHF bands for drone and radio suppression.
- Antenna Systems: A mix of omnidirectional antennas for 360-degree dome protection and directional antennas for long-range, focused jamming (up to 5 km or more).
- Modular Open Systems Approach (MOSA): Modern systems should use standards like SOSA, VICTORY, and CMOSS to allow for rapid upgrades and integration with other onboard systems (C5ISR).
- Power Supply: High-power, dedicated generators (e.g., diesel-generator sets) are necessary for continuous operation of high-output jammers.

Engagement Modes

MINK EW-System offers flexible engagement options:

- Frontline Protection: The system covers forward positions, combat equipment, and strongpoints to neutralize incoming threats such as FPV drones.
- Urban and Combat Environments: Effective in complex terrain, with operating ranges from 300–500 meters in urban settings up to 5,000 meters in conventional combat conditions.
- Active Countermeasures: They are used to jam enemy communications (HF/VHF/UHF bands), disrupt GPS, and block drone control links.
- Mounted Platforms: Integrated into armored personnel carriers (APCs), tactical trucks, or infantry squad vehicles (ISV) for rapid deployment and redeployment (shoot-and-scoot).
- Intelligence Gathering (ESM/SIGINT): Vehicles conduct reconnaissance to detect, locate, and identify enemy signals for situational awareness.

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Platforms and Integration

MEWS is platform-agnostic and can be integrated on:

- MINK 4x4 Combat Cabin in STANAG 2 or STANAG 3
- MINK 6x6 Combat Cabin in STANAG 2 or STANAG 3

The system is designed for rapid integration into NATO-standard vehicle architectures and battle management systems.



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Interoperability and Networking

- Compatible with NATO C2 and ISR networks
- Supports joint and combined operations, be part of network operations
- MINK EW-System aligns with NATO concepts such as Multi-Domain Operations (MDO), Joint Fires and NATO Combined Air Defence.



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Operational Advantages

- **Rapid Deployment and High Mobility:** Unlike fixed or, in some cases, man-portable systems, vehicle-based EW units can be rapidly deployed to changing battlefield conditions, offering on-the-move protection for convoys and ground units.
- **Protection Against Drone Threats (Counter-UAS):** They create a "protective radio dome" (typically 50-200 meters, or up to 5 km with specialized equipment) that interrupts the control channels of FPV drones, quadcopters, and recon drones.
- **Active Defense and Immediate Countermeasures:** They offer 360-degree, omnidirectional coverage to disrupt enemy communication, GPS navigation, and targeting signals.
- **Real-time Intelligence (SIGINT/ESM):** Mobile EW platforms can detect, analyze, and map enemy electronic signatures on the move, allowing for immediate threat identification and decision-making.
- **Flexibility and Customization:** These systems are modular, allowing for installation on various platforms—from civilian vehicles to armored personnel carriers—and can be tailored for specific frequency ranges (800 MHz, 1.2/2.4/5.8 GHz).
- **Camouflage and Survivability:** Modern systems often feature compact, aerodynamic, and low-observable designs that can be concealed, reducing the likelihood of being targeted.
- **Integrated Power Supply:** Powered by the vehicle's electrical system, these jammers can operate continuously, unlike portable systems that rely on battery life.

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Summary Statement

The MINK EW-System as mobile vehicle-based electronic warfare (EW) system is a critical, agile assets designed to dominate the electromagnetic spectrum (EMS) at the tactical edge, providing localized, on-the-move defense and intelligence capabilities. This platform is essential for protecting and supporting own combat tactical operations.



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Our platforms support European defense autonomy and NATO interoperability, contributing directly to national security and industrial strength. Designed for seamless integration with allied forces, GermanTec vehicles align with EU strategic goals and compliance requirements.

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Open system architecture and standardized interfaces enable collaboration on next-generation vehicle systems. GermanTec Automotive is committed to co-development with European suppliers and supports local production networks.

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