



CT-025

FAMILY OF UNMANNED COMBAT TURRETS

RECONNAISSANCE & MOBILE COMBAT VARIANT

TAKING RESPONSIBILITY IN A CHANGING WORLD

 RHEINMETALL

The CT-025 family is a next-generation modular unmanned turret solution for reconnaissance, force protection, and asymmetric threat engagement in modern operational environments.

Combining advanced lethality, digital integration, and scalable sensor capability, the CT-025 series supports both manned and unmanned combat platforms across a broad spectrum of mission profiles.

CT-025 10 – RECONNAISSANCE & MOBILE COMBAT VARIANT

The CT-025 10 is a lightweight unmanned medium-caliber turret designed for reconnaissance and mobile combat operations.

The system combines high mobility, digital fire-control capability, and advanced sensor integration in a compact unmanned architecture.

Optimized for reconnaissance and maneuver units, the CT-025 10 supports force protection and mission flexibility across a broad range of operational environments.

KEY FEATURES

- Lightweight unmanned turret architecture
- KBA25 mm automatic cannon
- Fully stabilized digital fire-control system
- Remote-controlled operation
- Advanced EO/IR sensor integration
- Modular open-system design
- NGVA-ready architecture
- Compatible with manned and unmanned platforms
- Reduced crew exposure
- Optimized for mobile reconnaissance missions

DESIGNED FOR

- Armed Reconnaissance
- Mobile Combat Support
- Force Protection
- Expeditionary Operations
- Tactical Security Missions
- Unmanned Ground Combat Integration

Parameter Specification

- Weight approx. 700 kg
- Main effector KBA25 mm Automatic Cannon
- Rate of Fire up to 600 rounds/min
- Effective Range up to 2,500 m in three modes.
Fed by double-belt feed.
- Secondary Effector Optional Coaxial MG (5.56/7.62 NATO)
- EO/IR Sensor SEOSS 210
- Protection Up to STANAG 4569 Level 2+
- Smoke Protection ROSY Smoke Launchers
- Architecture Digital Open-System Design
- Integration Manned & Unmanned Platforms



SENSOR PERFORMANCE

SEOSS 210 EO/IR Sensor Suite

Capability Performance

- NATO Target Detection >8,000 m
- NATO Target Identification >3,500 m
- Micro-UAV Detection >700 m

CT-025 20 – ENHANCED SENSOR & COUNTER-UAS VARIANT

The CT-025 20 is an advanced sensor-enabled unmanned medium-caliber turret designed to address emerging asymmetric battlefield threats.

Combining high-performance EO/IR sensors, integrated AESA radar technology, and digital fire-control architecture, the system supports force protection, battlefield surveillance, and counter-UAS operations in complex operational environments.

The CT-025 20 expands the CT-025 family through enhanced situational awareness, extended detection capability, and advanced target tracking performance.

KEY FEATURES

- Lightweight unmanned turret architecture
- Integrated AESA radar
- Long-range EO/IR sensor suite
- KBA25 mm automatic cannon
- Counter-UAS capability
- Advanced target tracking
- Simultaneous multi-target processing
- Fully digital fire-control architecture
- Modular open-system design
- Software-defined architecture
- Remote-controlled operation
- NGVA-ready integration

Parameter Specification

- Weight approx. 1,000 kg
- Main Effector KBA 25 mm Automatic Cannon
- Rate of Fire up to 600 rounds/min
- Effective Range up to 2,500 m in three modes. Fed by double-belt feed.
- Secondary Effector Optional Coaxial MG (5.56/7.62 NATO)
- EO/IR Sensor SEOSS 320
- Radar Integrated AESA Radar
- Protection Up to STANAG 4569 Level 2+
- Smoke Protection ROSY Smoke Launchers
- Architecture Digital Open-System Design
- Integration Manned & Unmanned Platforms

SENSOR PERFORMANCE

SEOSS 320 EO/IR Sensor Suite

Capability Performance

- NATO Target Detection >17,000 m
- NATO Target Identification >5,000 m
- Micro-UAV Detection >4,000 m

AESA RADAR PERFORMANCE

Capability Performance

- Micro-UAV Detection >2,300 m
- Micro-UAV Identification 1,000 – 3,000 m

RADAR FUNCTIONS

- Automatic aerial and ground target detection
- Simultaneous multi-target tracking
- Real-time situational awareness
- 3D target data generation
- Network-centric integration
- Optimized for asymmetric threat environments

DESIGNED FOR

- Counter-UAS Operations
- Force Protection
- Battlefield Surveillance
- Critical Infrastructure Security
- Convoy Protection
- Perimeter Security



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