



# PANTHER EVO UPGRADE

The PANTHER KF51 has been designed from the ground up with unrivalled lethality and a fully integrated protection concept based on the most modern NGVA digital architecture.

To support nations with existing fleets of Main Battle Tanks Rheinmetall is introducing the PANTHER EVO UPGRADE. It allows taking advantage of the PANTHER turret capabilities by upgrading existing models such as LEOPARD 2. Because the PANTHER has a compatible physical turret interface to the LEOPARD 2, upgrades to that model are particular easy. The upgrade can be tailored to customer requirements from a turret only upgrade to a full PANTHER capability upgrade including chassis systems.

PANTHER EVO UPGRADE is based on the new automated 120 mm L55 main gun which combines the standard NATO 120 mm calibre and world leading 120 mm L55A1 gun with the PANTHER autoloader and fully automated gun operation. The gun can be exchanged with the 130 mm Future Gun System ensuring a smooth transition to the new calibre.

## Upgrade option

Easy upgrade option for all LEOPARD 2 variants.

## Unrivalled lethality

Unrivalled lethality overmatch with 130 mm Future Gun System (FGS) exchangeable with 120 mm Automated Gun System.

## Highly protected

The PANTHER EVO turret has a fully integrated, comprehensive, weight-optimized protection concept, incorporating active, reactive and passive protection technologies including Rheinmetall's Top Attack Protection System (TAPS).

## Fully digitised

Designed in accordance with NGVA standards, the PANTHER EVO turret's fully digital architecture enables seamless integration of sensors and effectors both within the platform as well as into a networked "system of systems".

## Growth path

The PANTHER EVO turret can be easily updated and thus equipped with the latest capabilities and functions. The modular, open NGVA system architecture enables iterative development that can be regularly updated in line with innovation cycles.

## UPGRADE OPTION

- Designed to match the physical LEOPARD 2 turret interface
- Easy upgrade concept to reduce fleet down time
- Full compatibility with existing 120 mm NATO ammunition while offering upgrade path to 130 mm
- Mixed fleet operation with LEOPARD and PANTHER by shared wear and tear components
- Future proof through built-in growth path and modularity
- Short term availability

## TECHNICAL DATA

<b>Dimensions</b>	<b>Dependent on base vehicle</b>
Length	Approx. 11 m
Width	Approx. 3.8 m
Height	Approx. 3.2 m
<b>Armament</b>	
Main gun	130 mm L52 Future Gun System or 120 mm L55 Automated Gun System
Ammunition capacity	20 ready round in autoloader Optional 10 rounds
Secondary armament	7.62 mm Coax or 12.7 mm Coax
<b>Optional additional armament</b>	
RCWS	7.62 mm or 12.7 mm Remote Control Weapon Station
MSSA	7.62 mm, 12.7 mm or 40 mm Main Sensor Slaved Armament
<b>Sensors and fire control</b>	
Gunner sight	SEOSS sector gunner sight
Commander sight	SEOSS panoramic commander sight with optional MSSA
Fire control system	Digital fire control computer, video target tracker and meteorological sensor
Situational awareness	360° day/night situational awareness camera system
Additional sensors	360° acoustic awareness and shot detection system, laser warning receivers
Off-system sensors	Optional HERO R10 reconnaissance drones/loitering ammunition
<b>Survivability</b>	
Chassis	Dependent on base vehicle and customer requirements
Turret	
Ballistic protection	Strikeshield sensor based reactive protection, passive and bomblet protection
ATGM/RPG	Strikeshield sensor based active protection
Drone/top attack	Top Attack Protection System (TAPS)
Smoke grenade launchers	Hemispheric ROSY 40 mm and MASKE 76 mm smoke obscurance system
CBRN	Full turret CBRN detection and protection system
<b>Crew</b>	
Chassis crew	Dependent on base vehicle and customer requirements (1–2)
Turret crew	2 (Gunner and Commander)
HVAC	Full turret HVAC system



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