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MBT**PROTECTION**

**MULTI-LAYERED PROTECTION CONCEPTS
FOR MAIN BATTLE TANKS**

COMPREHENSIVE PROTECTION AGAINST NEW THREAT SCENARIOS

MULTI-LAYERED PROTECTION CONCEPT

The new threat scenarios require a hemispherical protection shield using passive Add-on-Armour, active/reactive hardkill and softkill technologies.

Main Battle Tanks (MBT) attract heavy threats and therefore need high level protection against large calibre KE and Anti-Tank-Rockets/ATGMs as well as drone attacks.

Rheinmetall has developed a Multi-Layered Protection Concept where the energy of the incoming threat is gradually dissipated and absorbed. These complementary layers result in a drastic reduction of the weight of the complete protection system.

The Top Attack Protection Suite is specifically designed against drone and other top attack threats.



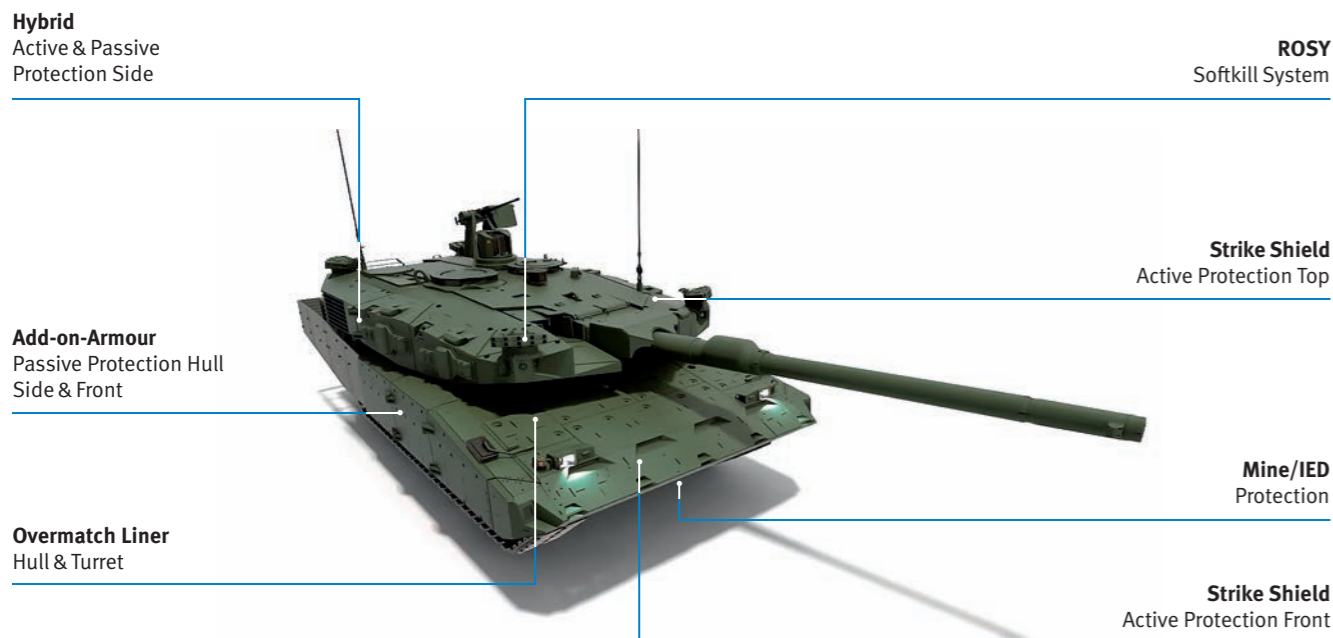
USE OF COMPLEMENTARY TECHNOLOGIES

Four technologies can be combined for the layered protection.

- Layer 1** Rapid Obscuring System ROSY for hiding the vehicle behind a smoke screen effective in the visible and IR range to interrupt the Line-of-Sight (LOS) between the vehicle and guided threats like ATGMs and FPV drones.
- Layer 2** Active deflection and fragmentation of penetrator
Defeat of shaped charge warheads of Anti-tank-rockets and ATGMs
Defeat of top-attack threats
- Layer 3** Pre-ignited (“reactive”) countermeasure reduces the penetration performance of penetrator fragments
- Layer 4** Basic passive protection for defeat of penetrator or absorption of kinetic energy of penetrator (-fragments)
Defeat of small to medium sized shaped charge warheads



TOP ATTACK PROTECTION SUITE (TAPS)



REALIZED PROJECTS

High level passive kits as well as Hybrid Protection Kits have been delivered.

