



AKERON LP

FIFTH GENERATION TACTICAL COMBAT MISSILE SYSTEM



AKERON LP is a most advanced 5th generation long range multi-role guided missile in development today, with high level technologies in term of optronics, warhead, RF data link, guidance and image processing algorithms based on Artificial Intelligence principles and data fusion.

AKERON LP – a multi-role missile providing maximum flexibility to the demanding forces

This airborne naval and land combat missile system is the unique polyvalent munition for:

- Neutralising/destroying MBT, Infrastructure, personnel, FIAC
- Optimising the trajectory (Flat, Lofted, Highly Diving) in accordance with the type of target, the weather conditions and the operational environment (cluttered environment, friendly air assets in the zone...)
- Letting freedom to the operating crew, during the firing, either to remain in full control of the firing thanks to the double way data link between the missile and the helicopter (Man-On-The-Loop), or to shift to a fire-and-forget mode
- Selecting the optimal guidance mode, either based on IR or visible, and the Semi-Active Laser, with possibility to shift from one mode to the other during the missile flight
- Selecting either to lock the seeker on the target before firing (LOBL), or to lock on it after launch (LOAL)
- Third party target designation engagement

Operational advantages

- One multi-purpose munition with a scalable-effects tandem warhead capable of defeating RHA, all generation ERA, neutralising concealed sniper, infrastructure, soldiers deployed in the fields, light armoured vehicles, mortar group, FIAC...
- Easy to use with quick reaction operation, smart lock-on target and reversible firing sequence.
- Whatever the combat situation, always the right firing mode, missile trajectory and lethal effect are selectable by the gunner.
- High hit and kill probabilities in all configurations against static and fast moving targets. Beyond Line-of-Sight firing capability in networked operations.
- Beyond Line-of-Sight firing capability in networked operations and for cooperative engagement with third party.
- Optimal gunner survivability thanks to:
 - Very low system signatures (sound, heat, smoke...)
 - Stealth data link resilient to jamming
 - Firing capability to targets behind a mask
- Total platform freedom of manoeuvre thanks to a 360° RF data link.

One missile, all terrain, all combat

- Highly efficient against static and fast moving targets
- Target engagement beyond an obstacle in Stand Alone
- Beyond Line-of-Sight engagement with third party designation



AKERON LP – Outstanding kill probability in all configurations and in all weather conditions

- Next generation multimode seeker.
- System designed against a wide target set in all modes even at maximum range:
 - Hot and cold
 - All generation MBTs, static or highly mobile
 - Defended structures
 - Enemy in the open
- Optimal effect on MBTs with top attack trajectories and a tandem warhead capable of defeating more than 1,000mm of RHA and all generation ERA
- Accurate target aiming in LOBL thanks to automatic correlation between the sight and seeker images
- Advanced image processing for pinpoint guidance accuracy
- Robust guidance thanks to IA based algorithms
- Firing on target designation with accurate flight path due to Inertial Measurement Unit

AKERON LP digital system

- Highly automated system for minimal operator workload
- Seeker and sighting system provide high image qualities in all bands, for optimal operator decision making

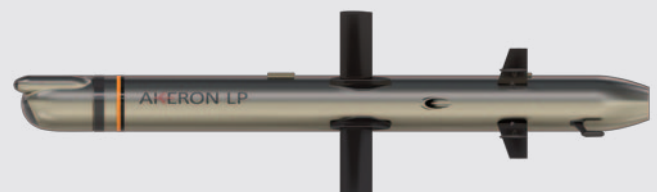
AKERON LP integration to combat vehicles

- The AKERON LP weapon system is optimised for the Tiger MK3 helicopter but can also be integrated on light helicopters, MALE UAV and ground vehicles
- Standard interfaces

Technical characteristics/specifications

Missile

Multimode seeker:	SAL/TV/uncooled IR
Range:	+8 km up to 20km
Warhead:	Multipurpose with selectable mode
Data link:	Bidirectional RF
Weight:	30-40kg class
Length:	1.8m in tactical canister



Missile launcher

- Intuitive man-machine interface
- Configurable launcher Twin or Quad configuration
 - Quad weight: 200kg class (with ammunition)
 - Twin weight: 120kg class (with ammunition)
- Standard 14" lug interface
- MIL 1760 interface

