



# MMP

## FIFTH GENERATION LAND COMBAT MISSILE SYSTEM

**MMP is in service and has been operationally tested and proven in extremes of climate (desert and sub-arctic conditions). The system's design includes the growth potential necessary for a future family of missiles for modern land combat.**

### **MMP – one multi-role missile providing maximum flexibility to the warfighter**

This unique fifth generation land combat missile system is the perfect candidate for combat vehicle integration and dismounted deployment.

- High level of day and night reconnaissance and identification capability
- Lethality against a wide target set including latest MBT's, defended structure and group of enemy in the open
- Fire-and-forget or Man-in-the-Loop capabilities even at maximum range
- Two firing modes with Man-in-the-Loop allowing retargeting, aim point selection and mission abort:
  - Lock-on-Before-Launch (LOBL)
  - Lock-on-After-Launch (LOAL)
- Uncooled IR seeker allows repeated lock-on to potential targets without consuming resources

### **One missile, all terrain, all combat**

- Designed for open field operation or Urban warfare,
- 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
- Deployable by mounted and dismounted troops as well as from naval craft

### **Operational advantages**

- One munition with a multi-purpose tandem warhead capable of defeating more than 1,000mm of RHA, all generation ERA, a group of personnel and penetrating more than 3m concrete
- Always the right firing mode, missile trajectory and lethal effect selectable for any combat configuration
- High hit and kill probabilities in all configurations up to 4km+ against static and fast moving targets
- Successful LOBL firing demonstrated at 5km in ambient condition
- Beyond Line of Sight Firing Capability in networked operations
- Lightweight weapon system, easily man-portable
- Rapid reaction operation, reversible firing sequence
- Long lasting continuous observation capability with a single rechargeable battery
- Optimal gunner survivability thanks to
  - Very low system signatures (sound, heat, smoke...)
  - Safe confined space firing capability
  - Non Line Of Sight firing capability
- Stealth data link (fibre optics) resilient to jamming
- Collateral damage risk reduction



## MMP – high hit and kill probabilities in all configurations at all ranges and in all weather conditions

- Next generation dual band high resolution seeker
- System qualified at 4km+ against a wide target set in all modes (fire and forget, MITL) even at maximum range:
  - hot and cold
  - all generation MBTs, static or highly mobile
  - defended structures
  - enemy in the open
- Optimal effect on MBT's with top attack trajectories and a tandem warhead capable of defeating more than 1,000mm of RHA, and all generation ERA
- Selectable optimal trajectory in anti-infrastructure mode
- Accurate target aiming even at maximum range in LOBL thanks to automatic correlation between the sight and seeker images
- Advanced image processing for pinpoint guidance accuracy
- Firing on target designation with accurate flight path due to Inertial Measurement Unit

## MMP digital system

- Highly automated system for minimal operator workload
- Networked Enabled Warfare (NEW) mode
- Seeker and sighting system provide high image qualities in all bands for optimal operator decision making

## MMP integration to combat vehicles

- Modular architecture for scalable vehicle integration
- Compatible with armoured vehicles, remote weapon stations, direct firing post adaptation

## Technical characteristics/specifications

### Missile

- Weight:** 15kg (including tube)
- Length:** 1.3m in tactical canister
- Diameter:** 140mm
- Range:** 4,000m+ all modes, all conditions
- Real time data link (fibre optic)



### Interactive firing post

- Weight:** 11kg (including tripod and battery)
- Fully digitised ISTAR node capability
  - latest generation IR band 2 and day camera
  - laser range finder, GPS and digital magnetic compass
- Intuitive man-machine interface
- Machine cooling (no gaz bottle)
- Low power consumption

