



MPCV

MULTI-PURPOSE COMBAT VEHICLE

MPCV is the latest generation of high firepower weapon system, specifically designed to meet the most demanding requirements for both ground-based air defence operations at very short range.

The mission function of MPCV is to provide air defence units with a weapon system combining high mobility, crew protection and high fire power. The system comprises a motorized turret mounted on an armoured vehicle. The turret includes electro-optical sensors, a small calibre gun and four ready-to-fire missiles that can be operated from a firing console installed inside the vehicle. Integration of the weapon system has been tested/studied on a wide range of high-mobility armoured vehicles.

- MPCV benefits from all the performance advantages offered by the MISTRAL missile, most specifically its fire-and-forget capability as well as its ease of operation, high reliability and its unrivalled kill probability.

MPCV is MBDA's response to today's requirements for a weapon system that combines high fire power, short reaction time, day/night surveillance and engagement capabilities, tactical and strategic mobility, together with a high level of crew protection.

MPCV's modular architecture allows the system to be integrated into a coordinated fire control network and to be part of a fully-digitised force.

Operational advantages

Effectiveness

- High kill probability
- Very high speed (930m/s and manoeuvrability (30G)
- Efficiency guaranteed against all types of targets, including high speed and highly manoeuvring combat aircraft as well as helicopters

Flexibility

- Day and night
- Deployable in standalone or in co-ordinated mode
- Qualified in severe weather conditions (-40°C to +71°C)
- Easy to integrate on a large range of vehicles

Ease of operation

- Fire-and-forget engagement mode
- Simple training with indoor simulator and in-the-field training

GROUND BASED AIR DEFENCE



In addition to an autonomous IFF, MPCV uses a first class suite of gyrostabilised electro-optic sensors, which includes TV and IR sights, laser range-finder and automatic tracker. The system can operate both day and night and fire on-the-move thereby enabling it to carry out convoy escort missions or to provide mobile protection of deployed mechanised/armoured units with an outstanding degree of effectiveness.

The system has been designed to minimise crew workload and facilitate long duration operations. It can be operated by one single soldier or by a two-man crew including a team leader. Moreover, it is completely operable from within the vehicle or, remotely, through a state-of-the-art fully mobile workstation, which can be installed in a building, a bunker or any protected place if static operations are called for.

MISTRAL is a man-portable, fully digital, heat-seeking missile, designed to meet the requirements of all branches of the armed forces. It boasts a 96% proven success rate and higher reliability than any other existing low-level air defence missile.

MISTRAL integrates ultimate state-of-the-art technology to ensure the same effectiveness, in peacetime as well as in wartime conditions.

The missile integrates a full imaging seeker enabling high resistance to IR countermeasures as well as engagement of low IR signature targets, and a large warhead of 3kg associated to a laser proximity fuze for an impressive 97% kill probability.

Technical characteristics/specifications

Weight: 19.7kg

Length: 1.86m

Diameter: 90mm

Maximum intercept range: 6.5km

Minimum intercept range: 500m

