

LAND

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 4 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 2 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.

In addition to an autonomous IFF, MPCV uses a first class suite of gyro-stabilised 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 minimize 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.

MPCV MULTI PURPOSE COMBAT VEHICLE



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MISTRAL 2 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 2 integrates ultimate state-of-the-art technology to ensure the same effectiveness, in peacetime as well as in wartime conditions.

The missile's diameter (90 mm) permits the integration of a homing head 40% larger than that supplied by the competition and a 3 kg warhead (as compared to 1.2 kg provided by competing weapons).

Effectiveness

- High kill probability
- Very high speed (850 m/s and manoeuvrability (32 G)
- 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 stand alone or in co-ordinated mode
- Qualified in severe weather conditions (- 46°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 system

Name

- **MPCV**



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