



VL MICA NG

NEW GENERATION SELF AND LOCAL AREA AIR DEFENCE SYSTEM



The VL MICA NG GBAD system benefits from the latest generations of the MICA missile, tactical operation centre and radar, all fitted with the latest technologies. This provides an unsurpassed medium range ground-based air defence capability with the highest level of mobility and deployment flexibility.

The system is designed for the permanent protection of major sites (industrial, military or civilian) as well as high value assets. According to the case, it operates in full autonomy as well as integrated in a global air defence network

The VL MICA system deploys the MICA NG missile, which is the only missile in the world equipped with two, interoperable, state-of-the-art seekers, providing superior features to counter all types of threat (cruise missiles, UAVs, aircraft, helicopters, PGMs, smart bombs, etc).

- Active RF AESA seeker providing all weather shoot-up/shoot-down capability
- Passive Imaging IR seeker with dual-band IR matrix for anti-flare maximum capability

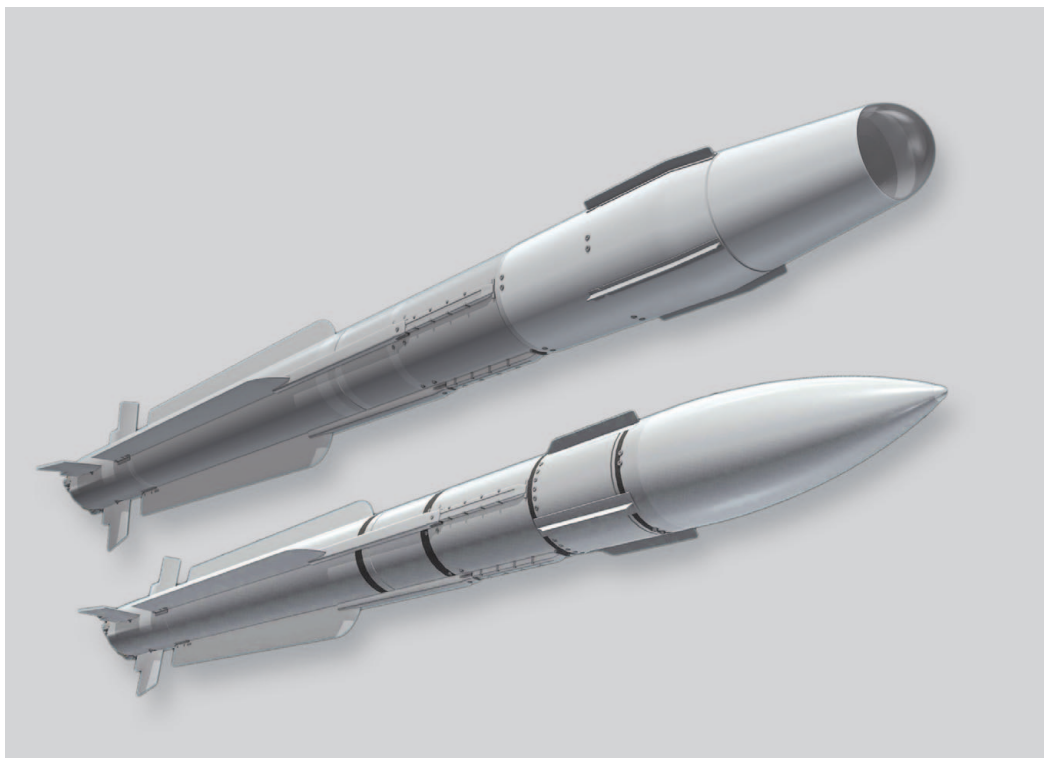
Compared to the previous generation of MICA missiles, the new MICA NG missile is equipped with a new bi-pulse motor that doubles the interception range.

This system offers a very high single shot kill probability and simultaneous multiple shot capability: autonomous guidance and extremely high firing rate. VL MICA NG also has many operational advantages, such as low maintenance, reduced manpower requirements and very long service life.

The current customers of the VL MICA system have the opportunity to operate the new VL MICA NG ammunition with major performance improvements and minor adaptations of their existing systems. The MICA NG missile is operated in airborne, GBAD and NBAD systems.

Operational advantages

- Mobile medium range air defence system
- Optimised 360° defence against saturating attacks and late appearing threats
- Able to counter all air threats in all environments
- Benefit of having two latest generation seeker types
- Latest technology in missile, Command and Control, and radar
- All weather
- A light and scalable footprint
- Able to operate and coordinate MISTRAL launchers for SHORAD-VSHORAD dual-layer system
- Interoperable with NATO assets through J-REAP C tactical data link
- Multilayer system with coordination of MISTRAL VSHORAD units



Missile guidance

- Mid-course inertial guidance with in-flight target data update (data link)
- In-flight seeker lock-on followed by homing guidance
- Active RF AESA seeker or passive imaging IR seeker

Lethal chain

- Multi-mode RF/laser proximity fuze
- Impact fuze
- High explosive focused fragmentation warhead

Aerodynamics and propulsion

- Long chord wings for high manoeuvrability
- Tail control surfaces
- Thrust Vector Control (TVC) for initial control and very short interception range
- Dual thrust motor for farther interception ranges

VL MICA NG ammunition

- The missile is stored and vertically launched from its sealed container (with integrated efflux duct) for optimum service life
- Loaded in 4-packs for rapid launcher reload

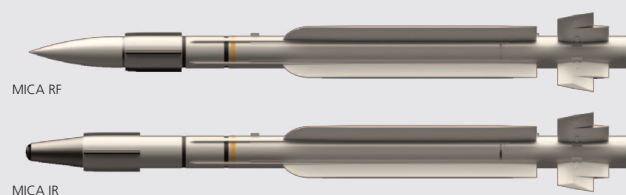
Mobile system

- Tactical Operation Centre on 20T-class truck
- Surveillance and tracking 3D radar
- Vertical launcher with self-reload capability
- Launchers on a radio network for deployment flexibility

Technical characteristics/specifications

Missile

Weight: 112kg
Length: 3.1m
Diameter: 160mm



Ammunition (container with missile)

Weight: 480kg
Length: < 4m