



VL MICA

VERTICALLY LAUNCHED SELF AND LOCAL AREA AIR DEFENCE SYSTEM

The VL MICA naval air defence system provides an unsurpassed self and local area defence capability. It is currently deployed by navies around the world as the sole or main air defence system on board a wide range of surface vessels.

The VL MICA system deploys the unique MICA missile which is the only missile in the world equipped with two, interoperable, state-of-the-art seekers (Imaging IR or active RF), providing superior features to counter all types of threat (anti-ship missiles, aircraft, helicopters, PGMs, smart bombs, etc).

VL MICA offers a very high single shot kill probability and simultaneous multiple shot capability (autonomous guidance, extremely high firing rate).

Operated from the ship combat system using existing air defence sensors, VL MICA has no need for a dedicated fire control system.

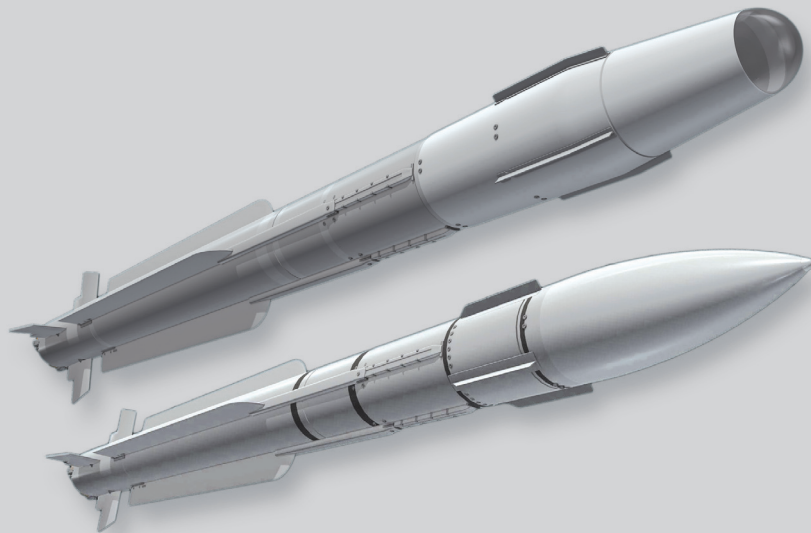
The missile is stored and vertically launched from its individual storage container (no need for a VLS) providing 360° engagement coverage.

Several ship programmes have been carried out that have demonstrated how the modularity and compact nature of VL MICA facilitate the system's installation on a wide range of warships, both new build or retrofit.

In addition to VL MICA's many operational advantages, low maintenance, reduced manpower requirements and very long service life are key features.

Operational advantages

- Optimised defence against saturating attacks and late appearing threats
- Able to counter all air threats in all environments
- Benefit of having two seeker types
- One missile providing both self and local area defence capabilities
- All-weather
- A light and scalable footprint



Missile guidance

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

Lethal chain

- RF proximity fuze
- Impact fuze
- High explosive focused fragmentation warhead

Aerodynamics

- Long chord wings for high manoeuvrability
- Tail control surfaces
- Thrust Vector Control (TVC) for initial control and very short interception

VL MICA ammunition

- The missile is stored and vertically launched from its sealed container (with integrated efflux duct)
- Modular installation of up to 16 VL MICA missiles on board

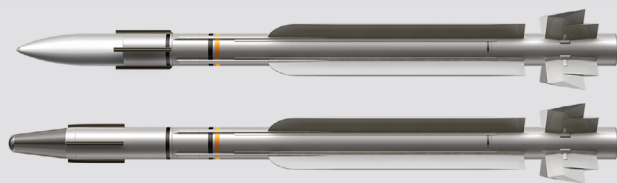
Shipset

- Easy installation with one electronic cabinet
- Use of onboard air surveillance and tracking sensors
- Operated from the ship's CMS
- Simple and flexible ammunition installation

Technical characteristics/specifications

Missile

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



Ammunition (container with missile)

Weight: 480kg
Length: < 4m