



ASTER missiles are the cornerstone of Europe's naval and land-based air defence programmes

The ASTER missile family comprises ASTER 15 for short to medium range and ASTER 30 for short to long range. There is extensive commonality between the two variants with both missiles featuring the same terminal dart.

ASTER's terminal dart is a lightweight, highly manoeuvring and agile missile equipped with a high-performance active RF seeker. Thanks to the unique combination of aerodynamic control and direct thrust vector control called "PIF-PAF", the missile is capable of high g manoeuvres. Together, these features give ASTER an unmatched hit-to-kill capability.

ASTER missiles provide ships with an all-round anti-missile and anti-air capability to ensure self defence and consort protection. In addition, ASTER 30 also provides long range interception capability for area defence.

ASTER 15 and ASTER 30 missiles are vertically launched and autonomously guided to provide the best means of coping with saturating attacks. Due to very short missile preparation time and very high speed the ASTER weapon system has a very quick engagement capability.

ASTER missiles are in service on the latest vessels brought into service by three of Europe's major navies: Italy, France and the United Kingdom. ASTER missile naval air defence systems are also in service with several other navies around the world.

ASTER 15 missiles are integrated with different types of multi-function radars and C2 in the SAAM system (Charles-De-Gaulle and Conte-Di-Cavour aircraft carriers).

ASTER 15 and ASTER 30 missiles are integrated with different types of multi-function radars and C2 in the PAAMS systems (Type 45 destroyers, Horizon and Orizzonte frigates).

- **Extremely quick reaction times**
- **Simultaneous multiple threat engagement**
- **High rate of fire**
- **360° coverage**
- **Unmatched agility and manoeuvrability due to combined thrust / aerodynamic control «PIF-PAF» providing hit to kill capability**

ASTER
ANTI-AIR MISSILE

MBDA
MISSILE SYSTEMS



SEA

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Three missions:

- Self-defence
- Local Area Defence for protection of consort ships
- Area Defence

ASTER 15 and ASTER 30 missile capabilities:

- Protection against the full spectrum of air threats: supersonic and subsonic missiles, Anti-Radiation Missiles / high divers, combat aircraft, MPAs, UAVs, helicopters
- All-weather capability
- Extremely quick reaction time
- Very high speed
- 360° coverage
- Active RF seeker with capability against stealthy targets
- "PIF-PAF" control
- Hit-to-Kill capability
- Multiple engagement capability with high rate of fire

Name

- ASTER

Missile characteristics ASTER 15

- Weight: 310 kg
- Length: 4.2 m
- Diameter: 180 mm
- Propulsion: Solid propellant, two-stage motor
- Maximum speed: Mach 3
- Range: In excess of 30 km
- Altitude: 13 km

Missile characteristics ASTER 30

- Weight: 450 kg
- Length: 4.9 m
- Diameter: 180 mm
- Propulsion: Solid propellant, two-stage propulsion
- Maximum speed: Mach 4.5
- Range: In excess of 100 km
- Altitude: 20 km

