



ASTER missiles form 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 (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. For extended air defence with ATBM protection, the family also includes ASTER 30 B1 and ASTER 30 B1 NT

Both the ASTER 15 and the 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. The shorter range ASTER 15 missiles are integrated with different types of multi-function radars and C2 in the SAAM system (the 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 system (on the Type 45 destroyer where the system is known as Sea Viper, and on Horizon and Orizzonte frigates) and with the French and Italian FREMM frigates.

Naval air defence systems deploying ASTER missiles are also in service with several other navies around the world.

- **Autonomous guidance with active RF seeker**
- **Hit-to-kill capability for defeating the most advanced missile threats**
- **Simultaneous multiple threat engagement**
- **High rate of fire and extremely quick reaction time**
- **All weather and 360° coverage**

ASTER ANTI-AIR MISSILE



SEA

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Four missions:

- Self-defence
- Local Area Defence for protection of consort ships
- Area Defence
- Extended Area Defence (against anti-ballistic missiles)

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
- Anti-ballistic missile capability (ASTER 30 B1 and B1 NT)
- All-weather capability
- Extremely quick reaction time
- Very high speed
- 360° coverage
- Autonomous guidance with active RF seeker with capability against stealthy targets
- "PIF-PAF" control for 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 120 km
- **Altitude:** 20 km

