

FUTURE ATTACK HELICOPTER WEAPON

ADVANCED DUAL MODE, MULTI-ROLE, MULTI-EFFECT, PRECISION SYSTEM

MBDA's proposed FAHW solution builds on the highly acclaimed Brimstone missile (98.7% effectiveness achieved during in-theatre operations) to specifically meet Attack Helicopter requirements by providing the operator with the ability to reliably and simply engage, in both direct and indirect fire modes, a wide range of target types with its multi-effect warhead.

This target set includes fast moving vehicles, MBTs and other armoured vehicles, structures, FIACs (Fast Inshore Attack Craft) as well as airborne enemy helicopters.

MBDA's proposed FAHW solution will feature an IM compliant rocket motor and multi-effect, tandem-shaped charge warhead with an impact, delayed or proximity fuse capability. Its dual mode seeker will provide flexible engagement modes to maximise the helicopter's target acquisition, designation and fire control system.

A 50 kg weapon family designed to be integrated onto a wide range of air, land and sea platforms including UAVs.



- **Optimised design for Attack Helicopter requirements**
- **One missile for all missions (including fast and agile land and maritime threats)**
- **All-weather, fire-and-forget capability**
- **Dual Mode seeker for low collateral, precision strike**
- **High off-boresight angle capability**
- **Significantly increased engagement envelopes and survivability**
- **IM safety and potent anti-FIAC capability for embarked operations**
- **Innovative training solutions**

MBDA
MISSILE SYSTEMS

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LAND, AIR

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Seeker
- 94 Ghz Millimetric Wave (mmW) radar
- Semi-Active Laser (SAL)

Flexible Modes of Engagement
- SAL, SAL/mmW, mmW modes. In dual mode, SAL guidance can handover to mmW guidance for increased accuracy once the missile determines the exact target being designated
- Rapid salvo capability (mmW only mode) for area, column and point kill

Effects
- Effective against a wide variety of ground (including all known conventional and reactive armour) and air targets
- Low collateral damage in restrictive engagement scenarios

Navigation & Guidance
- Next generation IMU and autopilot for precision at range
- Inertial mid-course navigation and seeker determination for target acquisition
- High bandwidth guidance and agility for fast manoeuvring targets

Propulsion
- Cast double base propellant rocket motor
- Strip steel laminate motor case

Name
- **FUTURE ATTACK HELICOPTER WEAPON (FAHW)**

Missile characteristics
- **Weight: 50 kg**
- **Length: 1.8 m**
- **Diameter: 180 mm**
- **Guidance: Millimetric Wave Radar and Semi-Active Laser**
- **Warhead: Multi-effect, tandem-shaped charge with adaptive fusing**

Capability against agile land targets at speeds up to 70 mph





Capability against agile maritime targets in congested environments







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