



The next generation air launched Surface Attack Weapon SPEAR is MBDA's response to a component of the UK's Selective Precision Effects At Range air launched requirement. The weapon will maximise the potential of the UK's future combat air capability, matching the weapon to the aircraft.

Recent conflicts have demonstrated the need for precision strike weapons that can operate night and day in all weather conditions against severe countermeasures and importantly attack moving and manoeuvring targets. Powered by a turbojet engine, SPEAR has the beyond horizon reach to ensure that the aircraft remains safely away from hostile air defence units.

SPEAR is equipped with the latest generation precision effects warhead, designed to meet the demands of the future combat mission. The weapon will allow the warfighter to reduce the numbers of different weapons within inventory while also extending the operator's ability to engage mobile, fleeting and re-locatable targets far beyond the horizon. SPEAR will provide high aircraft survivability with a low collateral damage solution.

Fitted with the latest generation multi-sensor seeker designed to operate in all combat conditions, SPEAR will be able to engage a wide range of target types both on land and at sea.

SPEAR is effective against:

- Air Defence Units, Ballistic Missile launchers
- Defended structures
- Fast moving and manoeuvring vehicles
- Main Battle Tanks, Self-Propelled Guns, Armoured Personnel Carriers
- Naval vessels

- Low collateral damage precision effect
- Enhanced platform/weapon survivability
- Upgradable/flexible growth
- High load out for increased persistence
- Engagement capability across a broad target set
- Increased survivability through enhanced range

SPEAR
NETWORK ENABLED
PRECISION SURFACE ATTACK



AIR

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Seeker

Multi-mode seeker providing increased selectivity in complex scenarios

Navigation and Guidance

Robust Inertial Navigation, with GPS throughout the operating envelope

Network Enabled

Two-way data link allows in-flight updates, retargeting and abort functions. SPEAR can be used in both Fire-and-Forget and Semi Active Laser designation modes as well as fully Network Enabled

Warhead

Multi-Effect warhead with multiple fusing options allowing tuneable effects to target thereby enhancing lethality while minimising collateral risk

Propulsion

Turbojet propulsion for high sub-sonic speed and long reach providing operational flexibility and increased weapon and platform survivability

Architecture

Mil Std 1760 and UAI compliant for current and future platform compatibility

Name

- SPEAR

Missile characteristics

- Weight: < 100 kg
- Length: < 2 m
- Diameter: 180 mm
- Guidance: Multi-mode seeker & INS/GPS
- Warhead: Multi-effect

