SPEAR

NETWORK-ENABLED PRECISION SURFACE ATTACK

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.

Product key features

Recent conflicts have demonstrated the need for precision strike weapons that can operate in all conditions, against severe countermeasures and 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.

Operational advantages

- **SPEAR will engage a wide range of target types both on land and at sea**
  SPEAR is fitted with latest generation multi-mode sensor seeker providing increased selectivity in complex scenarios. SPEAR is effective against air defence units, ballistic missile launchers, hardened structures, fast moving and manoeuvring vehicles, main battle tanks, armoured personnel carriers and naval vessels.
- **SPEAR provides enhanced platform and weapon survivability**
  SPEAR is equipped with a precision effects warhead and will allow the warfighter to reduce the numbers of different weapons within inventory while extending the operator's air-to-ground capability far beyond the horizon. SPEAR will provide high aircraft survivability with a low collateral damage.
- **SPEAR provides operational flexibility**
  Powered by a turbojet engine, SPEAR has the beyond horizon reach to ensure that the aircraft remains safely away from hostile air defence units.

MBDA
MISSILE SYSTEMS

AIR

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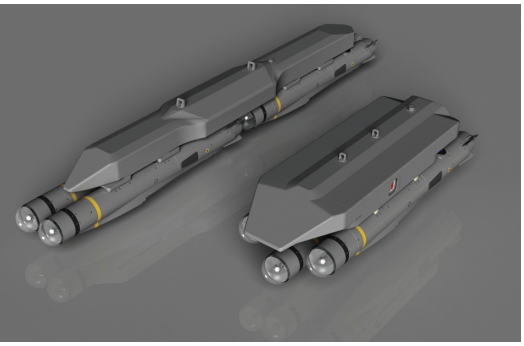

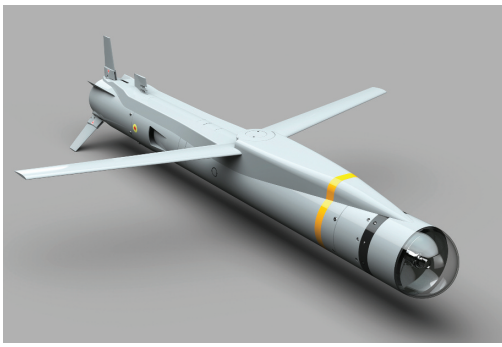

Platform integration

SPEAR will equip Eurofighter Typhoon and will be bay mounted on F-35.

Technical characteristics/specifications

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

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 subsonic speed and long reach providing operational flexibility and increased weapon and platform survivability.

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