



# SPEAR

## NETWORK-ENABLED PRECISION SURFACE ATTACK



**SPEAR represents the future capability in precision strike providing an advanced, network centric, stand-off, fast jet weapon capability and will be the primary air launched, precision effects, surface attack weapon of the Royal Air Force (RAF).**

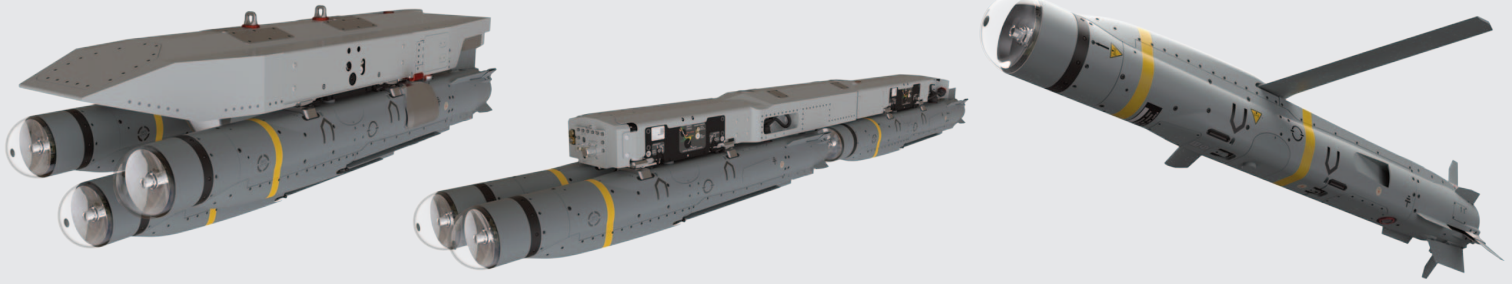
This innovative system reflects the persistent demand for precision strike weapons capable of operating in all conditions, resisting intensive countermeasures, and engaging with moving and manoeuvring targets. SPEAR is being developed to answer current and future requirements of both the UK RAF and allied nations.

### Platform integration

SPEAR is being integrated onto F-35 B for the UK MOD.

### Product key features

- Latest generation multi-mode seeker providing increased target selectivity in complex engagements
- Ability to target fixed, mobile, re-locatable and fleeting targets at significant stand-off ranges in both the land and maritime domains
- Operation under tight rules of engagement due to high precision, low collateral, multi-effect warhead
- Extensive target set, and multiple lethality modes to optimise warhead performance against each target
- Turbojet engine provides high stand-off range for aircraft survivability
- In-flight re-targeting and complete mission update available by data link
- High load out for saturation attack (4-pack in each F-35 weapon bay and 3-pack for underwing carriage)
- Operation day or night and in all weathers



## SPEAR – 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

## Technical details:

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

### Seeker

- Multi-mode seeker for selectivity in complex scenarios

### Navigation and guidance

- Inertial navigation with GPS throughout the operating envelope

### Network enabled

- Two-way data link allowing 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; enhancing lethality while minimising collateral risk

### Propulsion

- Turbojet propulsion for long reach, operational flexibility in any weather, increased weapon and platform survivability

