



Leading Edge Stand Off Weapons

The family of Precision Guided Munitions (PGMs) represents the most advanced range of smart weapons technology available anywhere in the world.

With a stand off range of over 50 km, and proven in-service accuracies of better than 2 m CEP, PGM offers outstanding performance, ensuring the destruction of identified targets whilst maximising aircraft and aircrew survival.

PGM is a modular weapon with a choice of seekers and two different warhead options available. Thus it can deliver a major tactical advantage in a wide range of modern conflict scenarios.

Flexibility of Operation

Today's combat aircraft are expected to perform a number of offensive roles.

PGMs can be used to destroy surface targets such as bridges, buildings, air defence units, radar installations, battlefield armour, command, control and communications installations and vehicles. PGM is also very effective against naval targets.

A high degree of flexibility has been achieved through the use of in-built modularity, where a variety of weapon configurations have been developed to suit a wide range of targets, weather conditions, mission characteristics and delivery aircraft.

All PGM weapons have been designed to have the same interface which minimises the cost of aircraft integration and pilot training across the family.

The Intelligent Weapon

PGM provides absolute precision, requiring fewer weapons to destroy targets and achieve campaign goals.

Target data can be loaded into the PGM prior to launch in two ways.

- Where a databus exists between the aircraft and the weapon, targeting data can be downloaded at any time prior to release, giving total mission flexibility for the attack of pre-planned targets or targets of opportunity.
- Alternatively, the weapon can be pre-programmed on the ground. This enables PGM to be used on aircraft that have no databus.

- **Proven high accuracy - CEP <2 m**
- **Stand off range >50 km**
- **24 hour, day/night operation**
- **TV, IIR or Laser seeker**
- **500 lb or 2000 lb blast fragmentation warhead**
- **Autonomous or man-in-the-loop operation, LOBL or LOAL**
- **Datalink used with TV and IIR options allows control from in excess of 100 km and enables BDA**
- **In service on Mirage 2000, being qualified on F-16**

PGM

MODULAR AIR-TO-SURFACE STAND-OFF WEAPON



AIR

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Choice of Seeker Technology

PGM has three highly accurate, separate and interchangeable seekers, providing 24 hour, day/night capability.

Laser PGM is compatible with all standard ground and airborne laser designators including NATO variants.

The TV and IIR seekers can send post-launch images back to an aircraft in excess of 100 km away, right up to the point of impact, providing Battle Damage Intelligence and data for assessment.

As an alternative, the images can be relayed to a third party aircraft or ground control centre from where the PGM's mission can be managed remotely, allowing the aircrew to concentrate on other aspects of their mission.

The mission controller can regain man-in-the-loop control from the PGM's automatic tracking system at any point, allowing further aim point optimisation or alternative targets to be selected, or the mission to be safely aborted, minimising collateral damage.

Name

- PGM

Guidance

- Mid Course - Inertial
- Terminal - Laser / TV / IIR

Range

- >50km

Propulsion

- Boost coast, solid propellant

Accuracy

- <1 m CEP

Warhead

- 500 lb / 2000 lb blast fragmentation

Fusing

- Impact / proximity

Maximum speed

- High subsonic

Missile characteristics PGM500

- Weight: 404 kg
- Length: 3.384 m
- Diameter: 0.356 m
- Wingspan: 1.080 m

Missile characteristics PGM2000

- Weight: 1060 kg
- Length: 4.623 m
- Diameter: 0.457 m (max)
- Wingspan: 1.523 m

