

## MOBILE AIR DEFENCE GUN SYSTEM

- Based on the 40CTA (40mm Cased Telescoped Ammunition), the new reference for medium calibre, RAPIDFire provides a compact, mobile and multi-role solution for today's and future Air Defence missions. It is adapted/ designed for mobile troops support or for vital asset/ fixed point defence.
- RAPIDFire benefits from 40 years of Thales' background experience in field proven Weapon Systems for French and overseas Armed Forces.



"ADVANCED AIR DEFENCE SOLUTIONS"

# RAPIDFIRE

## Highly Mobile Multi-role Air Defence System





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### KEY MISSIONS

- > Thanks to its powerful anti-aircraft gun and optronic fire-control, RAPIDFire is an autonomous system. It is optimised to defeat new air threats such as Unmanned Aerial Vehicles (UAV), helicopters, Fighters-Ground Attack (FGA), cruise missiles...
- > Coordinated with a high performance 3D GROUNDMaster radar and a versatile C2 CONTROLView module, RAPIDFire provides unrivaled anticipation capability

### OPERATIONAL BENEFITS

#### Fast into action:

- > Short reaction time from target detection to firing engagement
- > No specific alignment procedure between air surveillance sensors and gun system
- > Very short encamp and decamp time

#### Precision and high firepower:

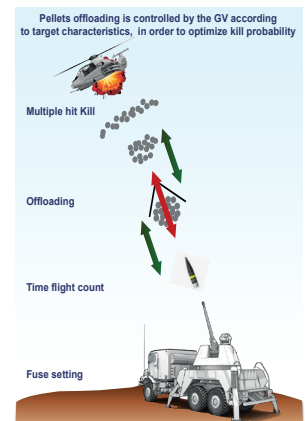
- > The power of a 40mm with the compactness of a 25mm gun
- > Latest generation 40mm Cased Telescoped Ammunition
- > Target adapted - firing rate up to 200 rounds/min
- > Typical burst against air threats : 1 to 10 A3B rounds
- > Around 140 ready-to-fire rounds in the turret (no manual handling necessary prior to firing) + 100 rounds in the storage compartment of the stabilized turret structure

#### Full autonomy:

- > Optronic sensors are fitted directly on the turret; gun vehicle can operate autonomously, even when not linked to the surveillance radar
- > RAPIDFire is highly automated and man-in-the-loop is needed only for weapon engagement and firing order
- > Manning: only 2 operators required to operate the system

#### Improved Survivability:

- > High mobility
- > Day and night operation
- > Armoured cabin (ballistic and mine protection)
- > Fire on-the-move for self-defence purposes



### KEY FEATURES

#### Gun Effective range:

- > Aerial Target: up to 4000m
- > Infantry Combat Vehicle: up to 2500m

#### Gun ammunition types:

40 mm gun has both air and ground defence capabilities with dedicated ammunition:

- 1 Point Detonating (PD) + Air Burst (AB) fused High Energy ammunition combined in one General Purpose Round (GPR)
- 2 Armour Piercing Fin Stabilized Discarding Sabot (APFSDS) against armoured vehicle, penetrates 140mm of Rolled Homogeneous Armour at 1500m
- 3 Training Practice (TP) for operator training purpose
- 4 Anti-Aerial Air Burst (A3B) for air targets, more than 200 tungsten pellets of at least 3.3g



#### Fire Control System:

- > Gyro-stabilized sensor head
- > Day and night electro optics: IR + Daylight + Laser Range Finder
- > Stabilized turret