

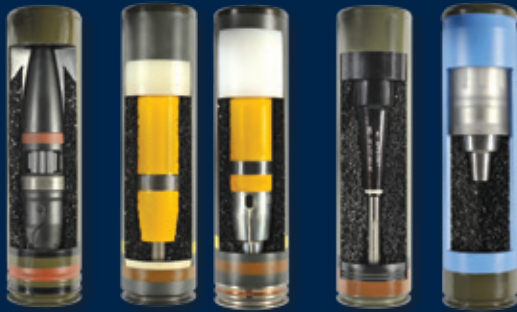
# **RAPIDFIRE LAND**

**Anti-Air & Anti-Ground  
Defence Gun System**

# **KNDS**



# / RAPIDFIRE LAND main characteristics



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# KNDS

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## Operational benefits

### Precision and high firepower:

- High firing precision for an unequalled Probability of Kill (PK) thanks to sensor/effector colocalisation
- Cost effective engagement (few rounds per target neutralisation)
- The power of a 40mm system with the high compactness of 40 CTAS
- Firing rate up to 200 rounds/min
- Up to 140 ready-to-fire rounds in the turret and up to 280 with additional ammunition in reserve

### Fast into action:

- Rapid deployment (installation and decamp)
- Fire on-the-move capability
- Short reaction time from target detection to firing
- Automatic firing policy proposition upon threat detection
- Highly automated: man-in-the-loop only for weapon engagement and firing order
- Only one operator and one chief operator

### Improved Survivability:

- Day and night operation
- Equal firing performances in integrated or autonomous mode
- Natively armoured turret, designed to be integrated onto tactical protected vehicles

### Integration:

#### Versatile concept according to Concept of Operation (CONOPS), with various types of integration:

- Deposable flatrack - truck mounted
- Armoured vehicle (truck or tactical vehicle)

Maximise the neutralisation efficiency while avoiding useless ammunition firing thanks to integration into:

- Air Defence platoon
- Higher Air Defence command chain

## Key missions

Thanks to its powerful and accurate gun and optronic Fire-Control System (FCS), RapidFire Land is an autonomous or GBAD-integrated system. Designed to counter massive attacks performed with simultaneous heterogeneous air and ground threats:

- **Air targets:** Unmanned Aerial Vehicles (UAV), loitering munitions, helicopters, Fighters Ground Attack (FGA), cruise missiles, RAM, etc.
- **Ground targets:** armoured vehicles, Unmanned Ground Vehicle (UGV), etc.

Associated with a high performance 3D radar and a versatile Command and Control (C2), RapidFire Land provides unrivalled anticipation capability.

## Key features

The RapidFire Land system integrates: optronic Fire-Control System (FCS), remote controlled turret including gyro-stabilised 40 CTAS (Cased Telescoped Armament System) – in-service on French Jaguar and UK Ajax and contracted on Belgium Scorpion armoured vehicles, operator firing console, ammunition.

### Fire Control System:

- Dedicated tracking and firing algorithms
- High performance gyro-stabilised optronic sight head: infrared, daylight and laser range finder
- **Optronics enable:**
  - Visual identification
  - Target tracking
  - Real-time neutralisation assessment

**Effective range:** Up to 4000m

### Adapted to target:

#### Air and ground defence capabilities with real-time selectable ammunition:

- 1 Anti-Aerial Air Burst (A3B) integrating hundreds of tungsten pellets
- 2 Two types of fused High Explosive General Purpose Round (GPR) ammunition:
  - Point Detonating (PD)
  - Air Burst (AB)
- 3 Armour Piercing Fin Stabilized Discarding Sabot (APFSDS) against armoured vehicle penetrates >140mm of Rolled Homogeneous Armour at 1500m
- 4 Target Practice (TP)



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KRV-091-EN-06/2024

# THALES