

# **ADATS**

## **Description:**

ADATS, the world's premier low-level air defense system, uses pulse-Doppler radar and electro-optics to detect targets and lethally accurate laser beamriderguided missiles.

ADATS employs an integrated command, control, and communications (C<sup>3</sup>) network that can coordinate the fire power of up to six ADATS systems.

The ADATS system is highly mobile. It is currently integrated into M-113 and M-3 (Bradley) vehicles, and integration with numerous other platforms is feasible.

# ADATS Missile Impact Fuze Combined Fragmentation/ Shaped Charge Warhead Proximity Fuze Smokeless Propellant High "G" Control Actuation System Receivers

### Features:

- Lethal: Large dual-purpose blast fragmentation and shaped charge warhead defeats both airborne targets and armoured ground targets
- Effective: Very short initial reaction time; 10 km maximum range; Mach 3+ maximum speed; reengagement in less than 2 seconds; defeats all available countermeasures
- Maintainable: Modular system (line replaceable units); extensive use of built-in test; foward maintenance concept; MTTR 1 hour at first line; MTBF >85 hours
- Transportable: Compatible with road, rail and air transport; complete system transportable by C-130 aircraft with minimum preparation
- Wooden Round: Missile in canister maintains high reliability for 10 years without testing
- Quick Reload: Reload all 8 missiles in 10 minutes without mechanical loaders
- Integrated C<sup>3</sup> System: Can link with higher and lower echelon command facilities or defense assets in real time using frequency-agile radios or land lines

# Specifications:

Mounted on a totally mobile and self-contained vehicle capable of speeds up to 60 km/hr, ADATS uses state-of-the-art electro-optics with a heritage of the highly successful Apache TADS/PNVS system, pulse-Doppler acquisition radar, and maneuverable, lethal missiles to defeat the most threatening ground and air targets.

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### **System Performance**

Missile intercept range:10 km Missile ceiling: 7,000m Missile velocity: Mach 3+ Passive target tracking Immune to countermeasures

### **Engagement Capability**

Azimuth: 360 deg Elevation: -10 to 85 deg Air targets Ground targets

X-band pulse-Doppler

### Search Radar

Maximum range: 25 km
Dual beam elevation
Search-on-the-move
capability
Track-while-scan
Automatic IFF/SIF
Frequency and PRF agility
(enhanced ECCM)

### **Electro-Optic System**

High-resolution FLIR
(8 to 12 micron)
High-resolution TV
Digital CO<sub>2</sub> laser
Laser rangefinder
(1.06 micron)
IR missile localizer
Built-in boresight selfalignment system

### Missile Round

Missile
Length: 2.05m
Diameter: 15.2 cm
Launch weight: ~51 kg
Canister
Length: 2.20m
Diameter: 27.3 cm
Dual-purpose high-explosive
warhead
Shaped charge and
fragmentation weight: 12kg
armor penetration: >90 cm
Fuzing system
Proximity fuze plus

mechanical impact fuze

### Lockheed Martin Missiles and Fire Control

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