ADATS
Air Defence Anti Tank System

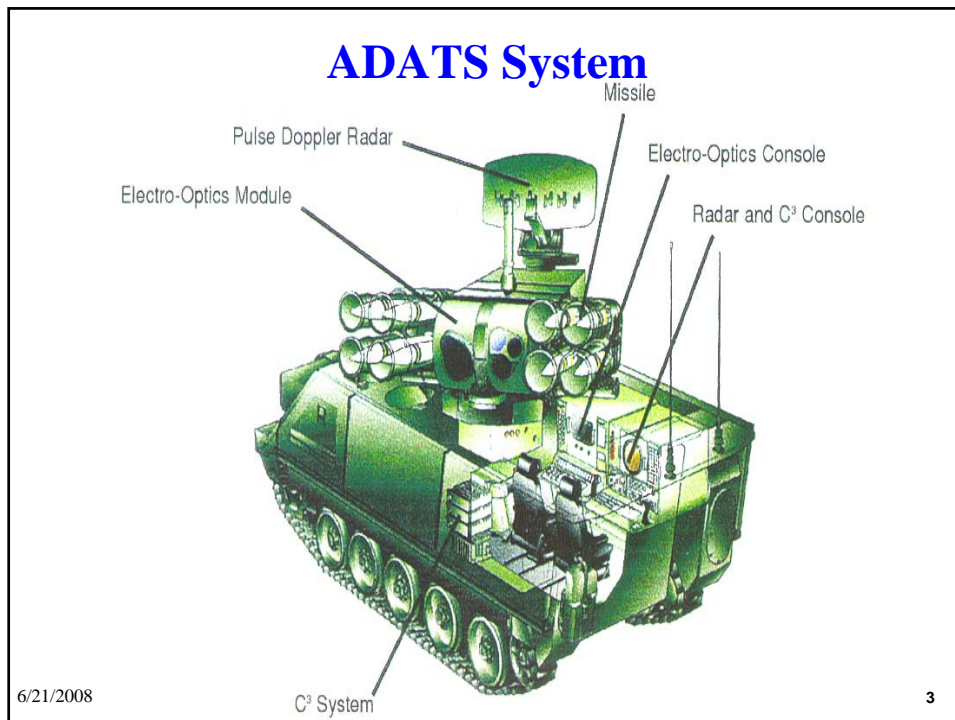http://www.rheinmetall.ca/pub/capabilities/adats.jsp

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ADATS Missile System

1. Surface to air missile, highly mobile, self-propelled, developed specifically for the defence of fixed and mobile assets.

2. Its simple operating procedures require a team of only two people - a radar operator and an electro-optics operator.

3. Used to defend assets such mechanized forces and fixed assets (airports, radar sites and other vital installations) against a wide range of aerial threats.

4. Has an excellent ability against armoured vehicles and also against vessels in a coastal defence.

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ADATS System

Pulse Doppler Radar
Electro-Optics Module
Missile
Electro-Optics Console
Radar and C³ Console
C³ System

3

ADATS System

1. Includes an integrated command, control and communications (CCC) system allowing up to six ADATS to operate as a single tactical unit

2. This integration enables the centralization of threat assessment and deployment of armaments under the supervision of the commander in one of the units ADATS.

3. Enables networked units to be undetectable on radar by obtaining the designation of their targets from a master ADATS system.

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ADATS System

1. Target detection using 'passive' electro-optic (FLIR and TV) instead of 'active' radar (detectable radiation)
2. Use laser beam to guide missile
3. Ability to detect, track and destroy targets at very low altitude
4. Total immunity to interference.

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Quality *Factors* of the System

1. Passive
2. Undetectable
3. Accurate : Higher than 90%
4. Range: 10 Km
5. Mobile
6. 360 degree coverage
7. Day-Night operation
8. All-Weather operation
9. Zero altitude operation
10. On-the-move target acquisition
11. Immune to jamming
12. Armoured piercing: 90 cm
13. CCC
14. Network operation: 6 ADATS
15. Reaction time
16. Reliable

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ISO 9126 Quality Characteristics of the System

- ◆ **Functionality**
- ◆ **Reliability**
- ◆ **Usability**
- ◆ **Efficiency**
- ◆ **Maintainability**
- ◆ **Portability**

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