

A-DARTER

Fifth-generation Air-to-air Missile System

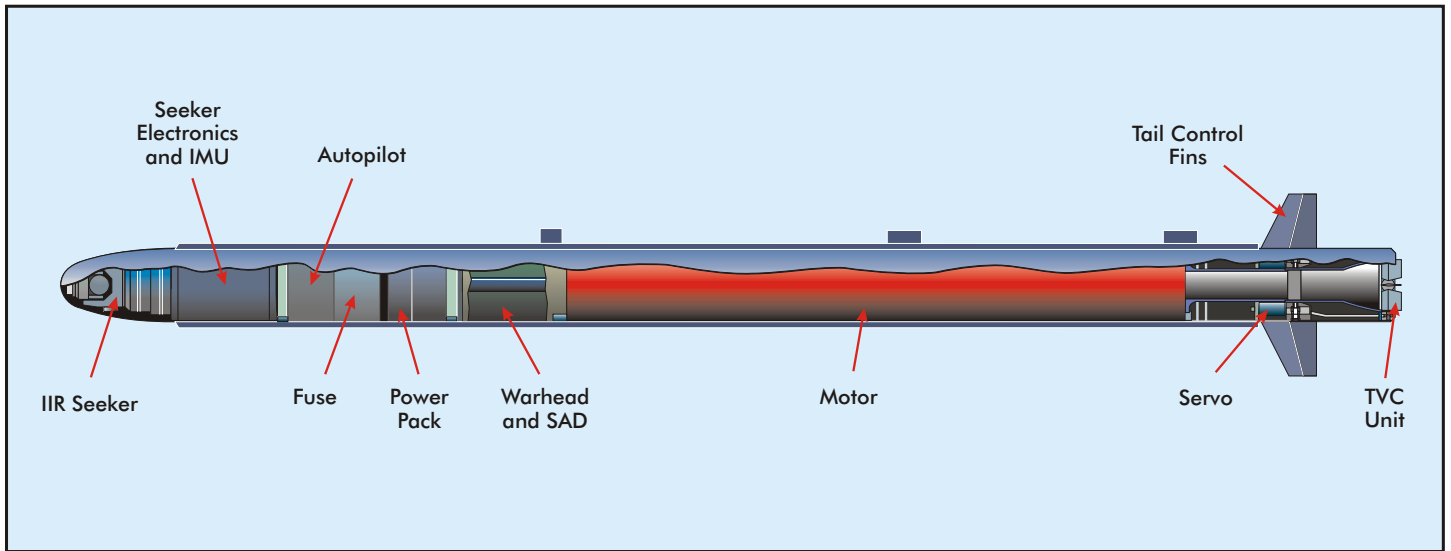


A-Darter is a fifth-generation short range air-to-air missile system designed to meet the challenges of future air combat against next-generation fighters in a hostile ECM environment.

DENEL DYNAMICS

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SYSTEM FEATURES

- High agility to handle the closest of close combats
- A two-colour thermal imaging seeker with high sensitivity and a multi-mode ECCM suite
- A low-drag, wingless airframe, ensuring ranges beyond those of traditional short-range missiles
- Lock-on after launch and memory tracking capabilities
- A lightweight design compatible with traditional Sidewinder stations

PRINCIPLE OF OPERATION

The A-Darter may be designated to a target by using the aircraft's radar, a helmet sight, or the missile's autonomous scan feature if radar silence is required. The seeker's large look-angles and the airframe's agility make high off-boresight helmet-designated firings possible. Long-range intercepts, beyond IR detection range, are possible, using the lock-on after launch mode.

AIRCRAFT INTEGRATION

The system is designed to interface with MIL-STD-1553 avionics bus system. Compatible to LAU-7 type launcher mechanical interface.

TECHNICAL DATA

- Length : 2 980 mm
- Diameter : 166 mm
- Mass : 90 kg

