

ASTRA

Air-to-Air Missile

SALIENT FEATURES

- Smokeless propulsion system
- Highly agile aerodynamic configuration
- State of the art ECCM features
- High SSKP
- All weather capability
- Secure Data Link
- Laser Proximity Sensing
- Micro miniaturised Technology
- Digital Data Communication through MIL – STD 1553 Bus

KEY MISSILE SPECIFICATIONS

CLASS	BVR (Beyond Visual Range)
WEIGHT	154 kg (excluding Launcher)
LENGTH	3570 mm
LAUNCH SPEED	0.4M to 2 M
LAUNCH ALTITUDE	SL to 20 km
LAUNCH RANGE	80 km HEAD ON 15 km TAIL CHASE
CONTROL	Aerodynamic Control
GUIDANCE	DUAL MODE (Midcourse – Inertial & Terminal – Homing)
SEEKER TYPE	ACTIVE RADAR Ku BAND

AIR LAUNCHER

TYPE	Rail Launcher with Swift Release of Missile
ADAPTABILITY	Mechanical, Electrical and Avionics Adaptability to Su 30MKI, MIRAGE 2000, MIG 29, LCA

STATE OF THE ART TECHNOLOGIES...



CERAMIC RADOME

- SLIP CAST FUSED SILICA RADOME
- EXCELLENT THERMAL AND STRUCTURAL PROPERTIES
- LOW INSERTION LOSS



SEEKER

- ACTIVE RADAR SEEKER (Ku Band)
- SLOTTED PLANAR ARRAY ANTENNA
- LARGE LOOK ANGLE CAPABILITY



ONBOARD COMPUTER

- ADSP BASED ONBOARD COMPUTER
- DUAL PROCESSOR SYSTEM
- UNIQUELY OPTIMIZED CONTROL AND GUIDANCE ALGORITHMS



INERTIAL NAVIGATION SYSTEM

- FOG (FIBRE OPTIC GYRO) BASED SYSTEM WITH HIGH g ACCELEROMETERS
- LIGHT WEIGHT



FIN CONTROL ACTUATION SYSTEM

- MINIATURISED ELECTRO MECHANICAL CONTROL ACTUATION SYSTEM USING BRUSHLESS DC MOTOR
- FAST RESPONSE
- HIGH BANDWIDTH



ONBOARD POWER SUPPLY

- HIGH ENERGY LITHIUM THERMAL BATTERIES



WARHEAD

- DIRECTIONAL WARHEAD TO INCREASE THE LETHALITY & SSKP