

UMKHONTO-IR

Surface-to-air Missile System

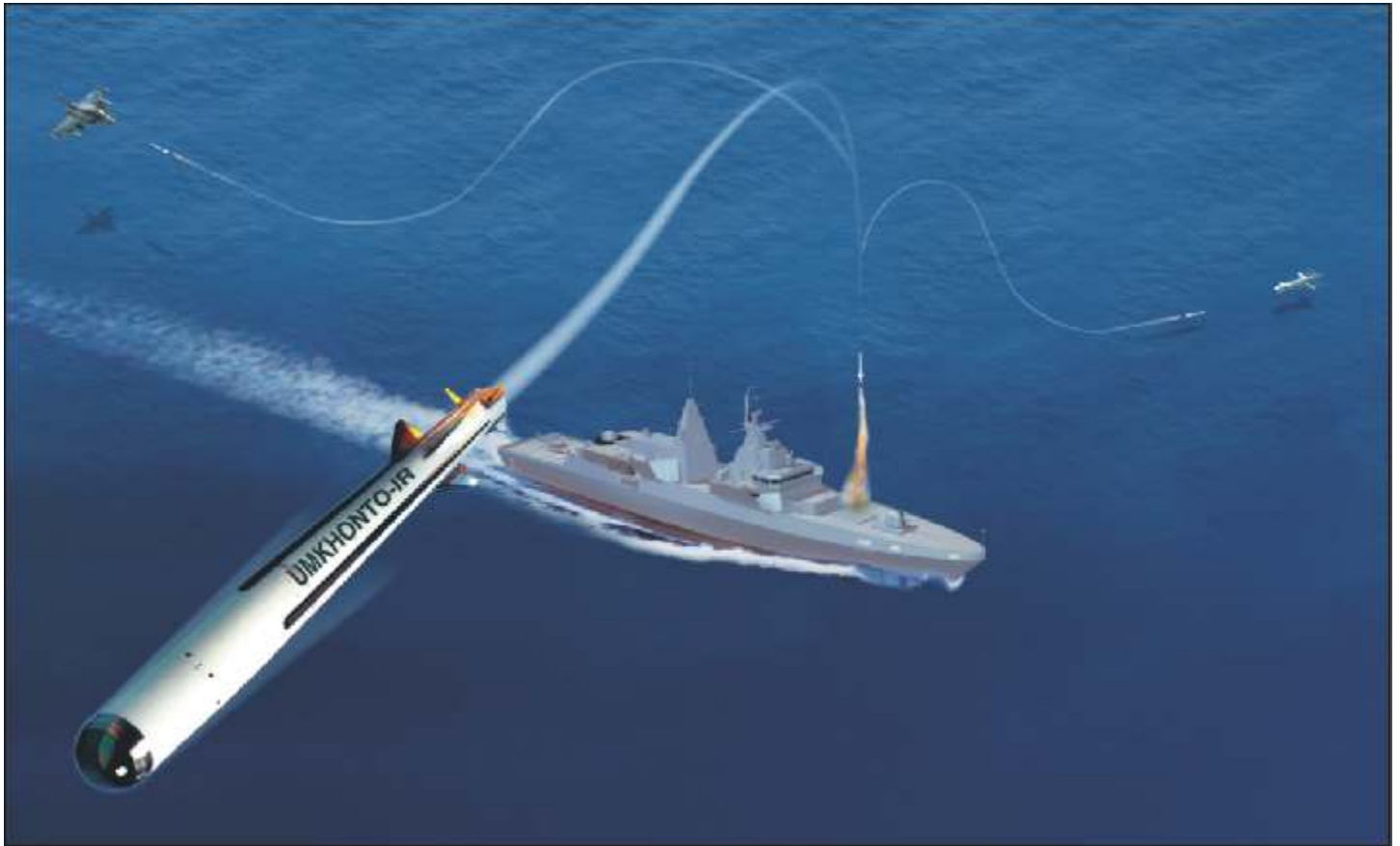


The Umkhonto-IR missile is a vertically-launched, high-velocity, infrared homing missile specifically designed for providing all-round defence against simultaneous air attacks from multiple combat aircraft (fixed-wing or helicopter) and missiles. The missile and associated subsystems are supplied as a missile group for easy integration into naval combat suites or ground-based air defence systems.

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SYSTEM FEATURES

- Multiple-target engagement (up to four targets)
- Ease of integration
- High kill probability (23 kg warhead)
- Countermeasure resistance
- Absence of line-of-sight limitations
- Ease of maintenance (high BIT coverage)
- All-round (360°) coverage (with vertical launch)

SYSTEM OPERATION

- Target is acquired and tracked by 3-D target acquisition radar
- Missile is launched and flies to a lock-on point, using an on-board inertial navigation subsystem
- IR seeker locks on and missile intercepts target under seeker control
- Continuous updating of target course from surface radar during missile flight, via a telecommand link, to enable engagement of manoeuvring targets.

SYSTEM SPECIFICATIONS

Physical Characteristics

- Missile length : 3 320 mm
- Missile diameter : 180 mm
- Wingspan : 500 mm
- Launch mass : 135 kg
- Canister length : 3 800 mm
- Canister maximum : 650 mm diameter

Performance Characteristics

- Range : 12 000 m
- Ceiling : 8 000 m
- Maximum Mach No. : 2
- Time of flight to 8 km : 18 s