

SMART AND TO THE POINT ●

I-DERBY™ ER

Short, Medium, and Long-Range Air-to-Air & Surface-to-Air Missile



Enhanced Capabilities Ensure Air Superiority

The I-DERBY ER™ is an innovative active radar air-to-air missile providing fighter aircraft with outstanding performance in short-range up to long Beyond Visual Range (BVR) intercepts + aft hemisphere.

The missile incorporates RAFAEL's state-of-the-art RF seeker, based on solid-state technology. The new seeker is software-defined, enabling full flexibility by controlling all functional parameters via software.

The major improvements to I-DERBY ER include an increased range (100 km) and expanded ECCM capabilities.

Like its predecessors in the DERBY Family, the versatile DERBY ER presents a look-down/shoot down capability and LOBL and LOAL operational modes.

The system is designed for simplified integration on leading fighter aircraft including the F-16, F-15, Sukhoi-30, JAS-39 Gripen, Mirage-2000, LCA-Tejas, M346FA and F/A- 50.

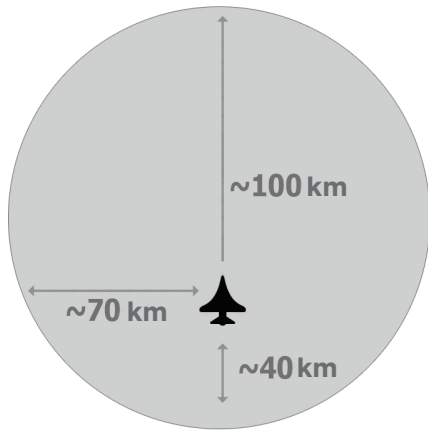
Offering exceptional warfighting capability, I-DERBY ER ensures outstanding air superiority for the 21st century.



Benefits

- 100 km launching range
- Multi-range air-to-air missile (short/medium/long-range)
- All-weather operation
- Effective against aircraft, helicopters and UAVs
- Simplified integration
- Dual use: Air-to-Air & Air Defense
- Modern, state-of-the-art active radar seeker
- Data link receiver utilizing RAFAEL's Global Link™ or customer's data link
- Outstanding kinematic capability
- High flexibility for handling new emerging threats (e.g., new target types, new EW threats)





DERBY MK-III Missile Full-Sphere Launch Capability (for Subsonic, Medium Altitude Interceptor and Target)



Innovative Interceptor for Air Defense Missions

I-DERBY ER can be used as an interceptor in the SPYDER™ Extended and Long-Range Air Defense Systems, and fits existing SPYDER canisters.

Both SPYDER systems are designed to engage and destroy a wide spectrum of threats including fighter aircraft, helicopters, cruise missiles, UAVs and standoff weapons.

The SPYDER system is combat-proven and operationally deployed in several countries.

Main Capabilities

- Full-sphere launch envelope includes aft hemisphere
- Look-down/Shoot-down capability
- LOBL/LOAL modes of operation
- Two-way communication - Uplink + Downlink
- Robust, high-performance ECCM

Technical Specifications

Weight	260.1 lb	122 kg
Length	142.5 in	362 cm
Wingspan	25.2 in	64 cm
Diameter	6 in	16 cm



I-DERBY ER Missile



Air & Missile Defense Systems Division

Tel: +(972)73-336-7990

Fax: +(972)73-336-7989

Email: rafael_ads@rafael.co.il

HQ Tel: +(972)73-335-4714

Fax: +(972)73-335-4657

Email: Intl-mkt@rafael.co.il

www.rafael.co.il

I-DERBY™ is a Trademark of RAFAEL Advanced Defense Systems Ltd
 UNC. T30NewV1-ENG0822 V1ENG/ Studio | MSS