

News from Rafael

Rafael and the I-Derby ER AAM



Rafael Advanced Defense Systems Ltd. has completed the development of the ground-based Air Defence version of the I-Derby ER (Extended Range) air-to-air missile. During the test series concluded in southern Israel, Rafael performed a ground launch to test the missile's command and control, navigation, and flight trajectory capabilities. These tests serve as a significant milestone in I-Derby ER's development, which is the newest and most advanced of Rafael's electromagnetic air-to-air missiles, and it marks the completion of the missile's ground-version development.

Rafael's I-Derby ER missile is an over 100 km long-range air-to-air missile with a dual-pulse rocket motor and an active radar seeker, providing combat aircraft with 'exceptional' performance advantages both at short ranges or beyond visual range. The missile has fire-and-forget capabilities, allowing the operator to tackle multiple targets simultaneously. The missile's light weight allows it to be adapted to a variety

of modern fighter jets, including the F-16, F-15, F-18, Gripen, LCA, Typhoon and more.

The I-Derby ER Missile is identical in shape and size to the Derby missile currently in service worldwide. The ground-based air defence version of the missile can be integrated almost immediately onto air defence batteries such as Rafael's SPYDER system, which provides air defence for ranges between 20 to 60 km. Launched

from the ground, the I-Derby ER missile doubles the existing missile range, and allows target interception within a range of up to 40 km without a booster, and 80 km with a booster.

Rafael marks 10 years since Iron Dome's first combat interception

With over 2,500 combat interceptions, at a success rate of 90%, Rafael has marked the 10th anniversary of the first combat



interception of Rafael's Iron Dome Air Defence System. Iron Dome's development began in December 2007, and was completed in less than 3 years.

Within less than a month after being deployed in Israel, on the evening of 7 April 2011, the system was challenged in combat for the first time. A rocket that was launched from the Gaza Strip was detected by Iron Dome's radar. Within seconds, the data transmitted to the BMC (Battle Management Center) was processed, and the battery operators needed to decide whether to activate an interceptor against the threat. With precise impact location provided by the BMC, pointing to the