



# ICE BREAKER™

## Advanced, Long-Range Strike Capability

### Innovative Weapon System to Dominate the Modern Battlefield

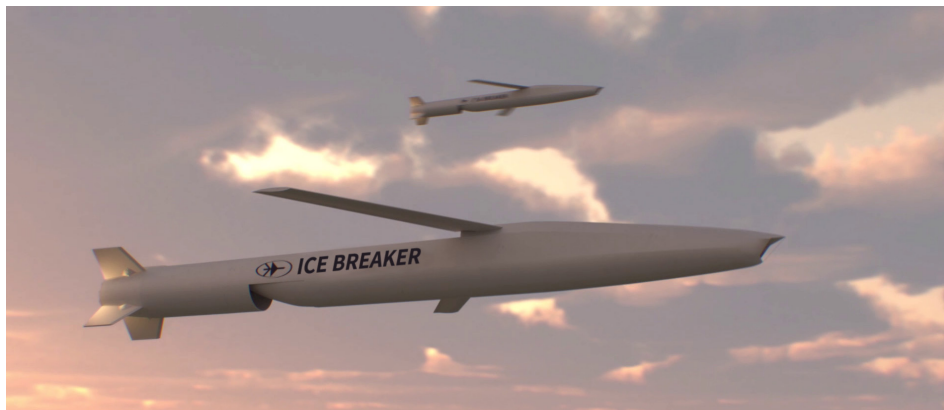
ICE BREAKER™ is a long-range, autonomous, precision-guided weapon system enabling significant attack performance against a variety of high-value land and sea targets. The system is resilient to electronic countermeasures and fully operational in GNSS-denied arenas.

ICE BREAKER is one of RAFAEL's cutting-edge precision-strike solutions, based on operational experience and today's most up-to-date technologies.

DESIGNED TO MEET THE NEEDS OF THE NEW ERA

### Benefits

- Highly effective and lethal against a variety of targets
- Long-range (300 Km), low-level terrain following over land, sea-skimming over sea
- Compact, lightweight, and compatible with jet fighters, light attack aircraft, and helicopters as well as small maritime vessels and ground vehicles
- Multi-service capability: aerial, land, and sea launch
- Synchronized attack capability
- Fully autonomous with a man-in-the-loop capability
- Low and controlled collateral damage
- Advanced ATA & ATR capabilities
- Affordable



ICE BREAKER



## Mission Effectiveness

Ice Breaker is a complete, full sphere solution countering various threats on land and at sea. It effectively strikes high-value targets with controlled and low collateral damage.

The missile utilizes an advanced, all-weather, electro-optical IIR seeker based on RAFAEL's innovative legacy of products and operationally-proven capabilities including scene-matching algorithms and ATR – Automatic Target Recognition.

The system complies with strict Rules of Engagement (ROE), allowing its autonomous capability to identify and engage only hostile targets.

The system can counter modern Integrated Air Defense System (IADS) deployments, relying on late detection due to its passive seeker, low-level terrain following flight pattern above land, sea skimming above sea, and the VLO (Very Low Observable) of the missile.

A salvo attack capability enhances missile penetration against well-defended targets. The effective warhead, combined with selective and precise aimpoints, ensures the desired damage to the target from neutralization to destruction with reduced risk to uninvolved civilians in close proximity.

## Main Capabilities

- Designed to operate in an A2/AD environment
- Optimized for deep strike scenarios
- GNSS-independent
- All-weather operations
- Transforms light platforms into dominating fighting machines
- VLO (Very Low Observable)
- Cross-platform launch: air, land & sea
- Advanced mission planning
- Man-in-the-loop for decision backup and BDA

## Technical Specifications

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Length                      | ~ 4 m                                              |
| Weight                      | < 400 kg                                           |
| Range                       | Up to 300 km                                       |
| Velocity                    | High Subsonic                                      |
| Warhead                     | 250 lb                                             |
| Seeker                      | Advanced IIR with AI                               |
| Fused Navigation Solution   | INS + anti-jam GPS + TERCOM                        |
| Control & Planning          | Advanced mission planning & C <sup>2</sup> systems |
| Two-Way Long-Range Datalink | Updates mission on flight & BDA                    |



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