

IRIS-T SLM

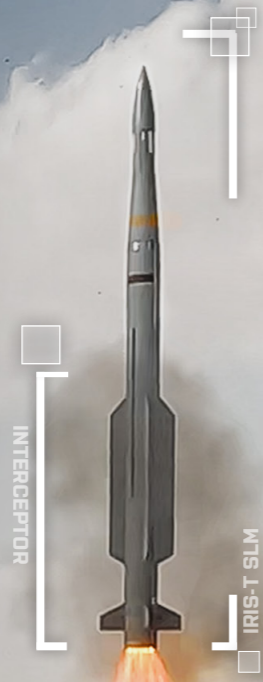
Evolutionary development – consistent quality

The heart of our outstanding air defence system is the IRIS-T SLM interceptor. The further development of the IRIS-T air-to-air interceptor to IRIS-T SLM was specifically designed for ground-based air defence. Selective adaptations in aerodynamics and propulsion result in an extraordinary intercept range of 40 km and an altitude coverage of 20 km.

The thrust-vector control enables maximum lateral acceleration immediately after launch, thus allowing a unique maneuverability for the engagement of targets even at very short range.

The imaging IR seeker enables a high-precision terminal approach with extraordinary direct hit probability which has been proven in real combat engagements.

[INTERCEPTOR]



Features:

- > 360° protection due to high maneuverability
- > Image-generating, jamming-resistant IR seeker
- > 40 km effective intercept range and 20 km altitude coverage
- > Smallest inner dead zone due to thrust-vector control
- > Highest direct hit capability
- > High firing rate and quick response capability
- > Smokeless and insensitive solid propulsion system
- > Target data transmission / mission abort via in-flight uplink
- > All-weather capability

Tailored to the Mission.

Diehl Defence's modular **IRIS-T SLM** and **IRIS-T SLS** air defence systems offer economically attractive solutions for reliable protection against a wide range of air threats.

The **unique integration philosophy** enables the use of different command systems, radars and communication solutions which allows to realize customer-specific configurations – whether it is a reconfiguration, a modernization of already existing air defence systems or the procurement of a new capability.

GROUND-BASED AIR DEFENCE

IRIS-T SLM

IRIS-T SLS

IRIS-T SLS Mk. III

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IRIS-T SLM

[MRAMD]

Uncompromising, combat-proven protection

Our combat-proven system IRIS-T SLM consists of a **radar unit**, a **tactical operations center (TOC)** and several missile **launchers**. The IRIS-T SLM interceptor is used to protect assets from aerial threats in the medium range class.

All elements of the air defence system are mounted on 20-foot ISO frames which allows both tactical mobility and strategic agility in constantly changing operational scenarios.

The system IRIS-T SLM, which has been tested for NATO interoperability, is characterized by its capability of long-term-protection of critical infrastructure, military assets and installations and can also be used in addition to already existing air defence systems. Support vehicles provide a stand-alone operation of up to 90 days.

Features:

- > 360° protection due to high maneuverability
- > High effectiveness, multiple-target engagement
- > Image-generating, jamming-resistant IR seeker
- > Minimum manpower requirements thanks to a high level of automation
- > Flexible system architecture
- > Network capability (NATO interoperable)
- > High tactical and strategic mobility
- > All-weather capability
- > High sustainability (self-sufficiency up to 90 days)
- > Adaptable individual logistic concept
- > 20-foot ISO frame for standardized transport

Threat Catalog:

- > Strategic bombers
- > Fighter aircraft / bomber
- > Unmanned Aerial Systems (UAS)
- > Combat helicopters
- > Anti-radar missiles (ARMs)
- > Cruise missiles
- > Precision bombs
- > Drones
- > Large caliber rockets
- > Battlefield short range ballistic missiles

Launcher & Interceptor

- > Up to 40 km effective range and 20 km altitude coverage
- > 20 km deployability
- > High firing power, effectiveness and multiple-target engagement
- > 360° protection
- > Smallest inner dead zone
- > High degree of automation for rapid (re-)deployment
- > Minimum personnel requirement

Radar unit

- > AESA technology
- > Resilient with modern ECCM
- > 250 km range
- > 360° surveillance
- > Elevation angle up to 90°
- > Integrated IFF incl. Mode 5

TOC

- > Airspace surveillance
- > Threat analysis and weapon assignment
- > Fire control
- > Mission planning
- > Multi-data link capability (real time non real-time)

IRIS-T SLS

[SHORAD]

Unique agility for mobile air defence

The system IRIS-T SLS offers short-range air defence (SHORAD) for very short and short ranges in order to protect troops and objects against threats from the air. The use of the air-to-air interceptor IRIS-T with unchanged hardware offers a cost-effective possibility to use already existing ammunition stock.

The interceptor software is being updated automatically during the loading procedure on the vehicle-independent missile launcher to ensure maximum flexibility during a mission.

Features:

- > 360° protection due to high maneuverability
- > Image-generating, jamming-resistant IR seeker
- > Up to 12 km effective range and 6 km altitude coverage
- > Smallest inner dead zone due to thrust-vector control
- > Highest direct hit capability
- > High firing rate and quick response capability
- > All-weather capability
- > 10-foot ISO frame



4x IRIS-T Interceptor

- > Identical missile for the air-to-air and ground-to-air role
- > Unique thrust-vector control
- > Automatic, role-dependent software update
- > Variable use



IRIS-T SLS Mk. III

[SHORAD]

Compact combat power with maximum mobility

The protection of moving troops against air threats constitutes a future challenge. The highly agile air defence system IRIS-T SLS Mk. III faces exactly this scope of duties with ease.

The capability to fire-on-the-move protects mobile forces and defends (high-value) facilities which completes the broad operational spectrum.

IRIS-T SLS Mk. III is equipped with an extendable radar enabling hidden operations. The use of the air-to-air

interceptor IRIS-T with unchanged hardware offers a cost-effective possibility to use already existing ammunition stock.

IRIS-T SLS Mk. III combines radar, command system and missile launcher with effectors in only one vehicle.

With IRIS-T SLS Mk. III, Diehl Defence continues its flexible integration philosophy and offers the possibility to combine different command systems, radars and communication solutions in one integrated system.

Features:

- > 360° protection due to high maneuverability
- > Fire-on-the-move capability, image-generating, jamming-resistant IR seeker
- > Up to 12 km effective range and 6 km altitude coverage
- > Smallest inner dead zone due to thrust-vector control
- > Highest direct hit capability
- > High firing rate and quick response capability
- > All-weather capability
- > Flexible system architecture
- > Network capability (NATO interoperable)

Threat Catalog:

- > Fighter aircraft
- > Combat helicopters
- > Anti-radar missiles (ARMs)
- > Cruise missiles
- > Precision bombs
- > Drones

4x IRIS-T Interceptor

- > Identical missile for the air-to-air and ground-to-air role
- > Unique thrust-vector control
- > Automatic, role-dependent software update
- > Variable use

