



## TURMS – D TANK UNIVERSAL RECONFIGURABLE MODULAR SYSTEM

Selex ES has extensive experience and a broad range of technologies to enhance battlespace capability. In the land sector, the company draws on its unique experience to develop tailored vehicle architectures, and a complete range of system solutions and services. TURMS-D is a fully digital, up-to-date system, designed on the basis of the experience gained with the previous TURMS and TURMS-T family.

In modern day conflicts, the traditional enemy and battlefield no longer exist. The threat is now asymmetric and simultaneously fought on many fronts. Tank Universal Reconfigurable Modular System (TURMS) design is fully modular, able to match and fulfill customer requirements, and to integrate with existing capabilities on a wide variety of AFVs and MBTs.

However, fire power remains the prime factor for MBTs and AFVs. The TURMS family FCS is the best answer to this requirement, giving the best results in:

- Firing-on-the-move capability
- Operations by day and night
- Short reaction time

With more than 40 years' experience in design, development and manufacturing of tank FCS, Selex ES integrated TURMS systems on Centauro, Ariete and Freccia of Italian and other armies, and T-72.

Selex ES is also a worldwide experienced company in MBTs modernisation.

### KEY FEATURES

- Total Situational Awareness
- ISTAR (Intelligence, Surveillance, Target Acquisition, Reconnaissance) Capability
- Gunner and Commander: hunter-killer capability
- Integrating last generation thermal imagers, both LWIR and MWIR, for a full day and night operation
- High performance Fire Control System (FCS)
- Complete interface set towards C4I
- Remote control weapon station

## SYSTEM FEATURES

### Modular, Scalable and Open Architecture/Configuration

- Flexible to specific requirements
- Oriented to future sensor technology
- Open to future needs: sensor fusion and advanced sensors
- Fully digital system

### Very Short Reaction Time

- Primary stabilised panoramic commander sight allows the gunner fast target detection and automatic designation.
- Ability to engage a second target with the commander sight during the tracking of the first one by the gunner.
- Immediate firing by the commander sight in case of very close target

### Fully Automatic Computation

Laser range finding, automatic sensor and a state-of-the-art ballistic computer allow very accurate calculation of the ballistic solution.

Special algorithms enable the fire when the probability to hit the target is maximum, taking into account the movement of the own vehicle and the target, and compensating the effects due to the time delays and non-linearities in the artillery.

### Easy System Operation

- Fully automatic computation and high performance stabilisation reduce training difficulties.

## Networking

- Integrated system thanks to the internal digital data bus and digital video bus
- All the devices are networked:
- Full information sharing within the vehicle
- Integration in the external C4I battlespace environment
- Easy to fit and simplified maintenance due to the bus structure
- Reduced weight, lower power consumption, smaller size

## System Composition

- Observation unit (COMMANDER SIGHT)
- Aiming and firing unit (GUNNER SIGHT)
- Ballistic computer
- Ancillary sensors

## Technological Benefits

- Simplified mechanical interface towards platform – no need of major turret machining
- State-of-the-art technology – field proven
- Ultimate sensor technology – increasing the system operating distance
- User friendly interface: a few hours training allows the achievement of optimal results even for an inexperienced operator
- Stabilized line of sight
- Stabilized line of fire
- Last generation IR sight – high performance night firing capability
- All devices are designed, developed and produced by Selex ES
- All the technology is in-house property

## HUNTER KILLER CAPABILITY

