

aselsan
FIELDS OF ACTIVITY CATALOG



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COMPANY PROFILE

ASELSAN, established in 1975 to meet the communication needs of the Turkish Armed Forces with national resources, is a joint-stock company affiliated to the Turkish Armed Forces Foundation (TAFF).

ASELSAN, Türkiye's largest defense electronics company, offers a wide range of products to meet the needs of the Turkish Armed Forces, as well as domestic and foreign requirements authorities, in communication and information technologies, radar and electronic warfare, electro-optics, avionics, unmanned systems, land and naval weapon systems, air defense and missile systems, command and control systems, transportation, security, energy, traffic, automation and healthcare technologies.

ASELSAN, which manufactures the best in its field and develops game-changing technologies in line with its global leadership vision, ranked 43rd in the list of the world's top 100 defense industry companies in 2025 and became a global brand.



FIELDS OF ACTIVITY

ASELSAN, establishing cooperation models with local organizations, building partnerships in international markets and making significant investments, offers solutions to both domestic and international needs with a wide range of products. ASELSAN, which produces high-tech products and systems in many fields ranging from command and control and imaging systems to radar and electronic warfare technologies, communication systems, unmanned vehicles and microelectronics with its innovation-oriented approach, continues its activities in 16 different fields of activity with its 6 Sector Departments.

DEFENSE
SYSTEMS
TECHNOLOGIES

RADAR AND
ELECTRONIC
WARFARE
SYSTEMS

MICROELECTRONICS
AND
ELECTRO-OPTICAL
SYSTEMS

AVIONICS
AND GUIDANCE
SYSTEMS

COMMUNICATION
AND
INFORMATION
TECHNOLOGIES

TRANSPORTATION,
SECURITY, ENERGY,
AUTOMATION, AND
HEALTHCARE

DEFENSE SYSTEMS TECHNOLOGIES

Defense System Technologies Business Sector contributes to enhancing ASELSAN's global competitiveness by developing top-tier products with game-changing technologies across a broad product range, spanning from depths of the sea to the sky.

Defense System Technologies Business Sector offers its products among Smart Munition Systems, Land Weapon Systems, Tank Systems, Artillery and Mortar Systems, Naval Navigation and Combat Systems, Sonar Systems, Underwater Countermeasure Systems, Torpedo and Autonomous Underwater Vehicles, Unmanned Surface Vehicles, Land Command and Control Systems, Air and Air Defense Command Control Systems, Counter UAS Systems, Strategic Air and Missile Defense Missile Systems, Operational Air and Missile Defense Missile Systems, Tactical Air and Missile Defense Missile Systems, Air and Missile Defense Gun Systems fields of activity.

Defense Systems Technologies Business Sector's products and systems are preferred by customers in many countries around the world, primarily by Turkish Armed Forces and security forces.





NAVAL SYSTEMS

- Naval Navigation and Combat Systems
- Sonar Systems
- Underwater Countermeasure Systems
- Torpedoes and Autonomous Underwater Vehicles
- Unmanned Surface Vehicles



LAND AND WEAPON SYSTEMS

- Smart Munition Systems
- Land Weapon Systems
- Tank Vehicle Systems
- Artillery And Mortar Systems



COMMAND, CONTROL, COMMUNICATION, COMPUTER AND INTELLIGENCE (C4I) SYSTEMS

- Land Command And Control Systems
- Air and Air Defense Command and Control Systems
- Counter UAV Systems



AIR AND MISSILE DEFENSE SYSTEMS

- Strategic Air and Missile Defense Missile Systems
- Operational Air and Missile Defense Missile Systems
- Tactical Air and Missile Defense Missile Systems
- Air and Missile Defense Gun Systems



01 NAVAL SYSTEMS

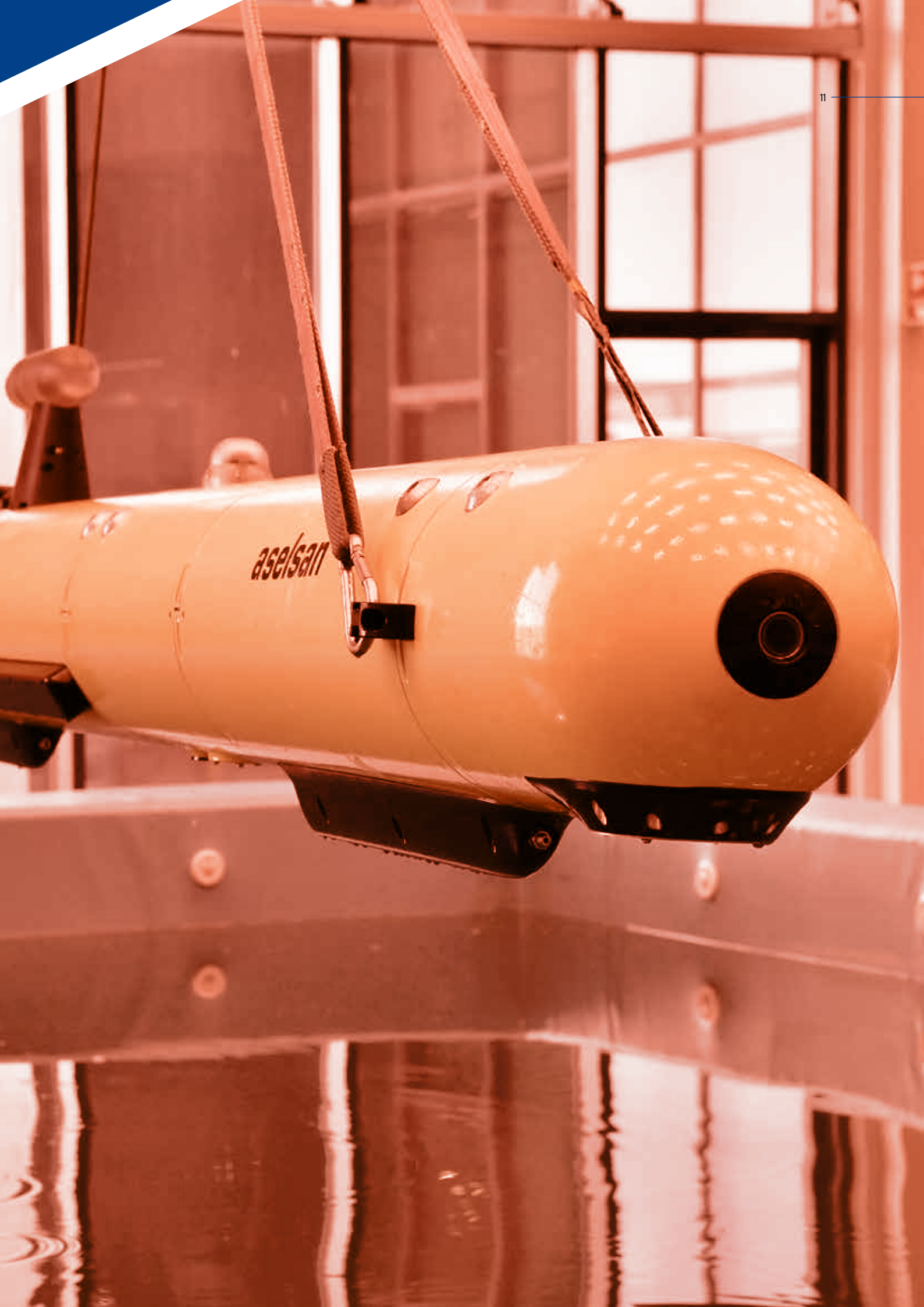
In line with the strategic importance of the maritime operational area for Türkiye, ASELSAN continues its development efforts in the strategically critical field of naval systems to fulfill its mission of being a provider of force-multiplying and game-changing combat systems that ensure our nation's maritime security independently of foreign sources.

To save costs, time, and manpower, the use of unmanned and autonomous surface and underwater vehicles is rapidly increasing. In recent years, significant investments have been made in this field, leading to various breakthroughs in the development of unmanned vehicles, mission payloads for these vehicles, and the enhancement of swarm and autonomous maneuvering capabilities.

In the domains of Underwater Systems and Integrated Combat Systems, cost-effective solutions can be developed in a short time by leveraging acquired technological capabilities and accumulated expertise.

- Naval Navigation and Combat Systems
- Sonar Systems
- Underwater Countermeasure Systems
- Torpedoes and Autonomous Underwater Vehicles
- Unmanned Surface Vehicles





NAVAL NAVIGATION AND COMBAT SYSTEMS

ASELSAN is a system solution partner that provides naval navigation systems, naval weapon systems, fire control systems and special mission systems for all types of naval platforms in a cost-effective manner. Within the scope of construction and modernization of surface and underwater platforms, design, development, production and subsystems integration of Combat Systems are provided.

In this context, world-proven weapon systems and naval fire control systems have been integrated into many platforms.



SMASH 200/12.7
REMOTE CONTROLLED WEAPON SYSTEM



TAKS 100 cSRLS
NAVAL GUN FIRE CONTROL SYSTEM



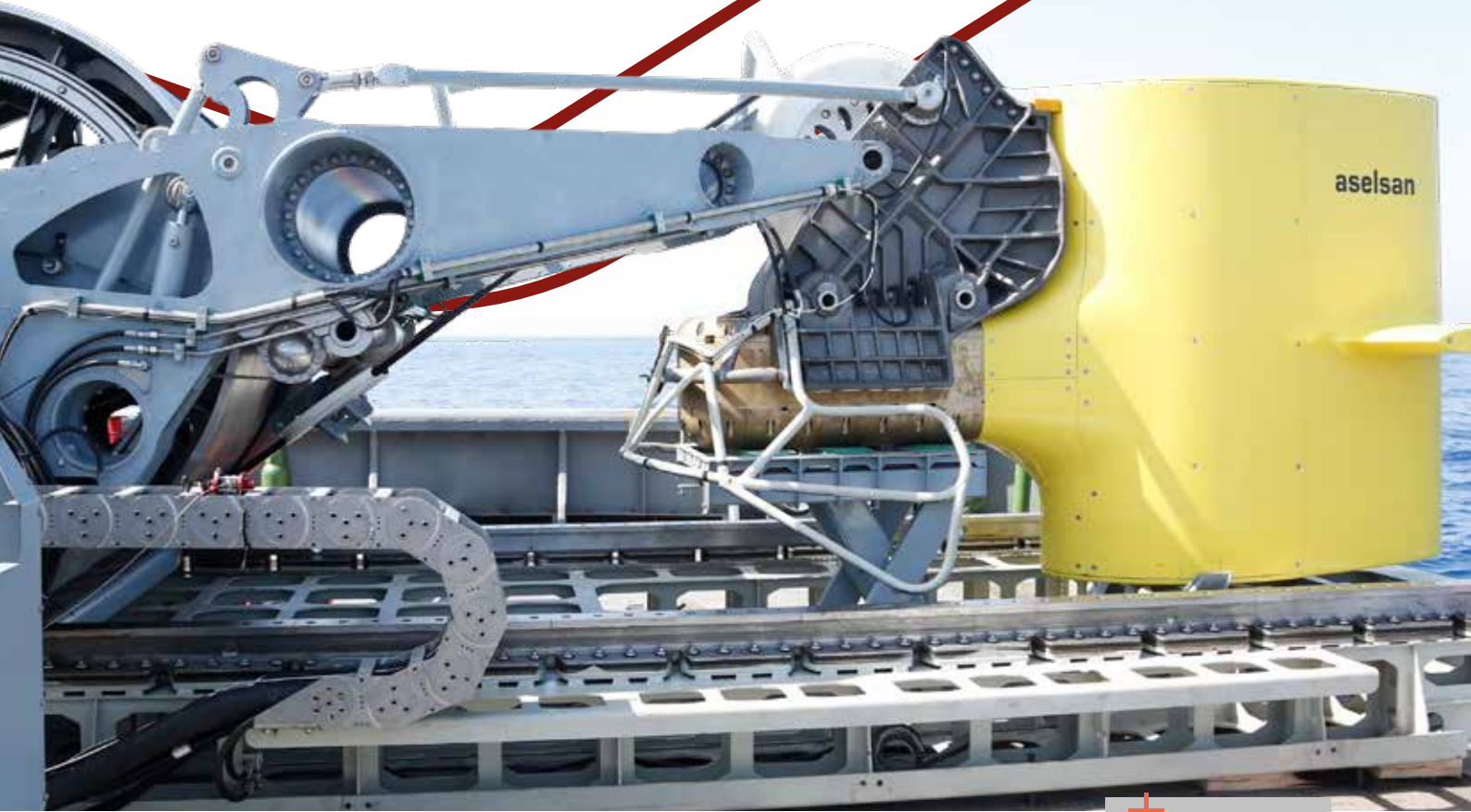
SMASH 200/30
30 MM REMOTE CONTROLLED
STABILIZED NAVAL GUN SYSTEM

SONAR SYSTEMS

ASELSAN continues to be a pioneer in the field by developing high-tech sensors and systems to maximize the detection capabilities of underwater and surface platforms for effective Anti-Submarine Warfare (ASW) and Submarine Defense Warfare (SDW).

Türkiye's first and only Over-the-Horizon Sonar, DÜFAS 100/LR, takes on a game-changing role in ASW operations.

In addition to these systems, FERSAH 100-N/MF was developed to meet anti-submarine warfare needs and is actively integrated on different naval platforms. Besides ASELSAN's ability to produce all of the acoustic sensors that a submarine has, it also continues its efforts to develop a new generation of sonar sensors.



DÜFAS 100/LR
LOW FREQUENCY TOWED
ACTIVE / PASSIVE SONAR SYSTEM



ASELBUOY 100 P
PASSIVE DIRECTIONAL SONOBUOY



FERSAH 100-S CA96
CYLINDRICAL HYDROPHONE ARRAY

UNDERWATER COUNTERMEASURE SYSTEMS

HIZIR 100-N system, developed by ASELSAN to protect surface platforms from torpedoes launched from submarines, and HIZIR 100-S system, developed to protect submarines from torpedoes, have been integrated into many platforms both domestically and internationally.

ZOKA 100-N/ED and ZOKA 100-S/ED provide an advanced defense solution against acoustic homing torpedoes and ensure the safety of submarines and surface platforms.



ZOKA 100-S/ED

ACOUSTIC TORPEDO
COUNTERMEASURE JAMMERS
AND DECOYS



ZOKA 100-N/ED

ACOUSTIC TORPEDO
COUNTERMEASURE JAMMERS
AND DECOYS



HIZIR 100-N

TORPEDO COUNTERMEASURE
SYSTEM FOR SURFACE SHIPS



HIZIR 100-S

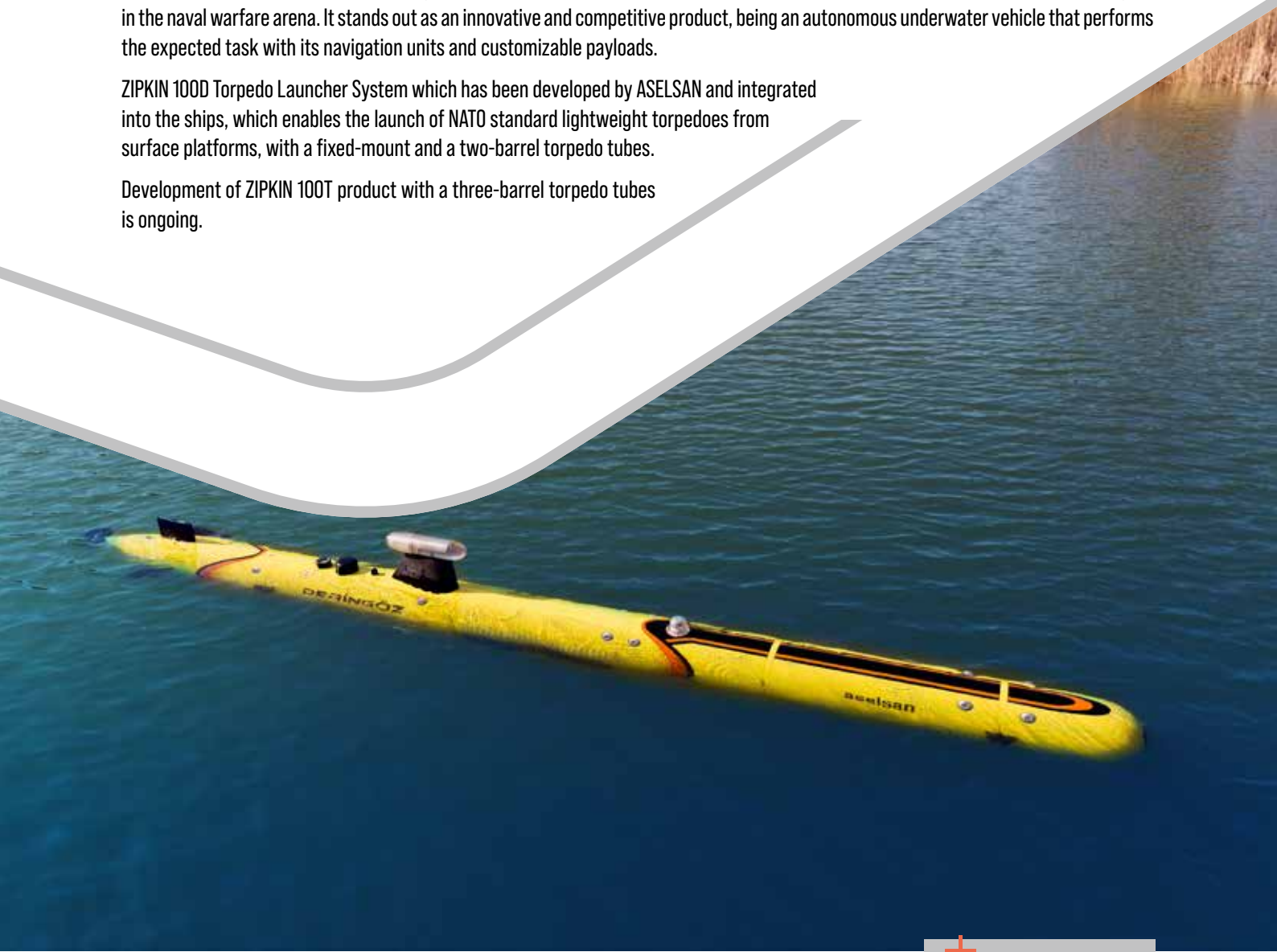
SUBMARINE TORPEDO
COUNTERMEASURE SYSTEM

TORPEDOES AND AUTONOMOUS UNDERWATER VEHICLES

ASELSAN, has taken a step into the family of unmanned vehicles with DERİNGÖZ 100M/600 and DERİNGÖZ 100L/300, indispensable players in the naval warfare arena. It stands out as an innovative and competitive product, being an autonomous underwater vehicle that performs the expected task with its navigation units and customizable payloads.

ZIPKIN 100D Torpedo Launcher System which has been developed by ASELSAN and integrated into the ships, which enables the launch of NATO standard lightweight torpedoes from surface platforms, with a fixed-mount and a two-barrel torpedo tubes.

Development of ZIPKIN 100T product with a three-barrel torpedo tubes is ongoing.



DERİNGÖZ 100M/600
AUTONOMOUS UNDERWATER VEHICLE



ZIPKIN 100D
TORPEDO LAUNCHING SYSTEM



DERİNGÖZ 100L/300
AUTONOMOUS UNDERWATER VEHICLE

UNMANNED SURFACE VEHICLES

Unmanned and autonomous surface vehicles have many advantages such as reducing the need for trained personnel and manpower, eliminating the risk to personnel, reducing costs, increased range and sustainability, speed and information processing, and rapid decision-making processes. Employment of manned/unmanned teams and technologies will transform modern warfare, increasing asymmetric & hybrid operations, leveraging the technologies to the Navy's advantage, and give the warfighter the edge to win the fight.

ASELSAN is proud to be the manufacturer of the first Armed Unmanned/Autonomous Surface Vehicle (USV) (MARLIN 100 EW) to enter the inventory of the Turkish Naval Forces Command (TNFC). ASELSAN is an effective solution manufacturer for the needs of navies with its modern USVs and modular architectural designs in main and supportive naval warfare areas.



MARLIN 100 EW
UNMANNED SURFACE VEHICLE



ALBATROS KAMIKAZE
UNMANNED SURFACE VEHICLE



MARLIN 100 ASW
UNMANNED SURFACE VEHICLE



02 LAND AND WEAPON SYSTEMS

For modernized and/or newly designed tanks, military land vehicles and unmanned land vehicles, integration activities of communication systems, fire control systems, electro-optic systems, inertial navigation systems, radar systems, active protection systems, acoustic detection systems and weapon systems are carried out in this area.

Tank, Artillery, Rocket, Howitzer and Mortar Fire Control Systems, Remote Controlled Weapon Systems, Smart Ammunition and Active Protection Systems and Land and Weapon Systems are being developed and produced under this field of activity.

In the fields of Land and Weapon Systems activity, cost-effective solutions are developed within short timescales for operational requirements.

- Smart Munition Systems
- Land Weapon Systems
- Tank Vehicle Systems
- Artillery And Mortar Systems





SMART MUNITION SYSTEMS

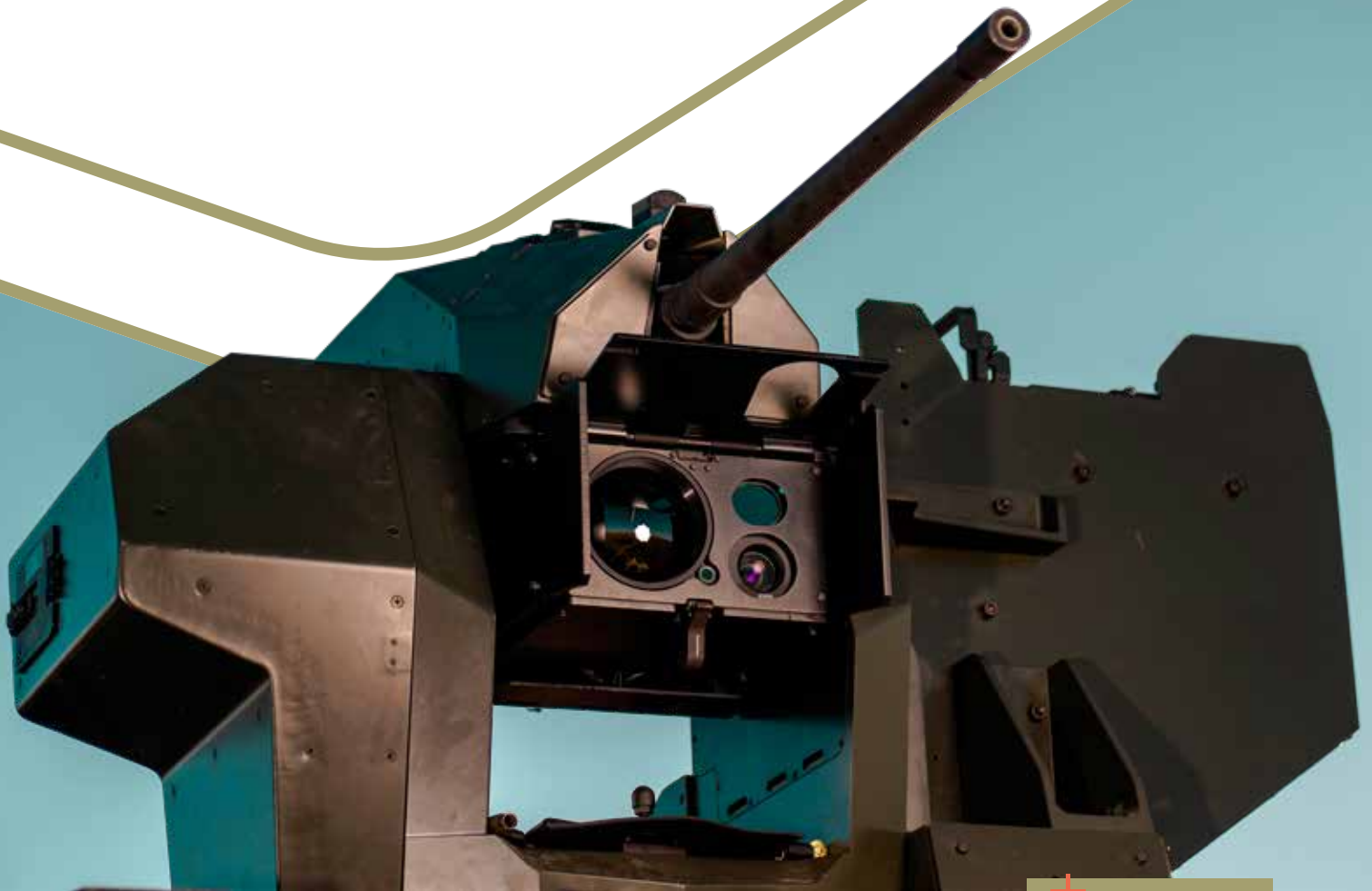
Smart munitions, equipped with sensitive electronic and electromechanical units, ensure increasing the probability of destroying the target with relatively low number of fires. By increasing the probability of hitting the targets with the first shot, they enable attacks on the target while minimizing collateral damage. Smart munitions, as vital elements of modern armies, ranging from air defense to naval operation, where they are widely used across various platforms and gun systems, have capabilities below:

- Fuse electronics include high precision time counting, point detonating, proximity, telemetry-based communication, programmability via electromagnetic coupling and data uploading functions. It can also activate the energetic explosive initiators.
- Having mechanical safe and arming device, the fuse ensures stable and secure performance across varying operational conditions.



LAND WEAPON SYSTEMS

Payloads are developed and integrated for combat vehicles, personnel carriers, next-generation, and special-purpose military vehicles that will maximize the system effectiveness.



SARP 100/12.7
STABILIZED ADVANCED REMOTE
WEAPON PLATFORM



SARP 100/35
35 MM WEAPON SYSTEM

TANK SYSTEMS

Tank systems and subsystems design, development, production, testing and integration activities developed within this field. Competitive and cost-effective tank system solutions utilizing common subsystems are provided to fulfill the customer requirements.



VOLKAN 200/120
FIRE CONTROL SYSTEM



VOLKAN 201/120
M60 TANK FIRE CONTROL SYSTEM

ARTILLERY AND MORTAR SYSTEMS

Design, development, production and vehicle integration of modern fire control systems, mission equipment and turret structures for various caliber NATO and Russian mortars (from 60 mm to 120 mm) and howitzers (from 105 mm to 203 mm) are carried out.

Mortars of various sizes and types (ranging from 60 mm to 120 mm), as well as the modernization of classic mortars, are being developed and produced.



ALKAR 100/81

81 MM MORTAR WEAPON SYSTEM



ALKAR 100/120

120 MM MORTAR WEAPON SYSTEM



VOLKAN 230/105

105 MM HOWITZER FIRE CONTROL SYSTEM



VOLKAN 220/155

FIRE CONTROL SYSTEM

03 COMMAND, CONTROL, COMMUNICATION, COMPUTER AND INTELLIGENCE (C4I) SYSTEMS

Operations planned at the strategic level are carried out on the tactical field in accordance with the Commander's orders after being detailed at the operational and tactical levels. The most critical factor leading to success on the battlefield is the ability to access the correct information at the right time and use this information to make rapid and optimal decisions in managing the operation. The automatic or minimal user-interaction-based sharing of data from the tactical level to the strategic level, ensuring situational awareness at all levels, and presenting alternative courses of action to decision-makers through decision support systems can be achieved through Command and Control Systems. The ability of different command and control systems to work together to make shared, up-to-date, and accurate decisions is among the priorities for the digitalization of the battlefield. Ensuring that various types and numerous sensors and interception systems (such as radar, weapons, electronic attack systems) work together within a command control structure, and strengthening this integrated system with decision support systems utilizing artificial intelligence and big data analysis, will be the most important force multiplier on the future battlefield.

- Land Command and Control Systems
- Air and Air Defense Command and Control Systems
- Counter UAV Systems





LAND COMMAND AND CONTROL SYSTEMS

Land Command and Control (C2) Systems integrate software/hardware solutions to support command and control planning, coordination, management and control of land operations. These systems provide full digital integration with different functional area C2 Systems, providing personnel, logistics, engineering and communication support for the planning/management of all phases of the operation and the processes of the intelligence loop. Supported by automated processes/algorithms, Land C2 Systems enable command and control of manoeuvres and fires to be carried out in coordination with allied countries, air and naval elements to achieve the objectives of the operation through data communications in a digital environment.



KOCATEPE 100 HQ
BATTLEFIELD MANAGEMENT
SYSTEM



ADOP 300
FIRE SUPPORT COMMAND
AND CONTROL SYSTEM



EHKOM 100
ELECTRONIC WARFARE COMMAND AND
CONTROL SYSTEM

AIR AND AIR DEFENSE COMMAND AND CONTROL SYSTEMS

Air and Air Defense Command and Control Systems are advanced software and hardware solutions designed for managing aerial operations, integrating sensors & weapons and communication networks to ensure effective situational awareness and rapid decision-making.

These systems enable seamless integration and coordination among military units, intelligence agencies, defense platforms, air, land and naval forces to ensure protection against diverse threats, including fighters, bombers, UAVs, cruise missiles and ballistic missiles.

ASELSAN provides end-to-end air defence and air command and control solutions at tactical, operational and strategic levels with state-of-the-art decision support capabilities.



HERIKKS 600

AIR DEFENSE EARLY WARNING
AND C4I SYSTEM



HERIKKS 600-T ADOC

DEPLOYABLE AIR DEFENSE
OPERATION CENTER

COUNTER UAV SYSTEMS

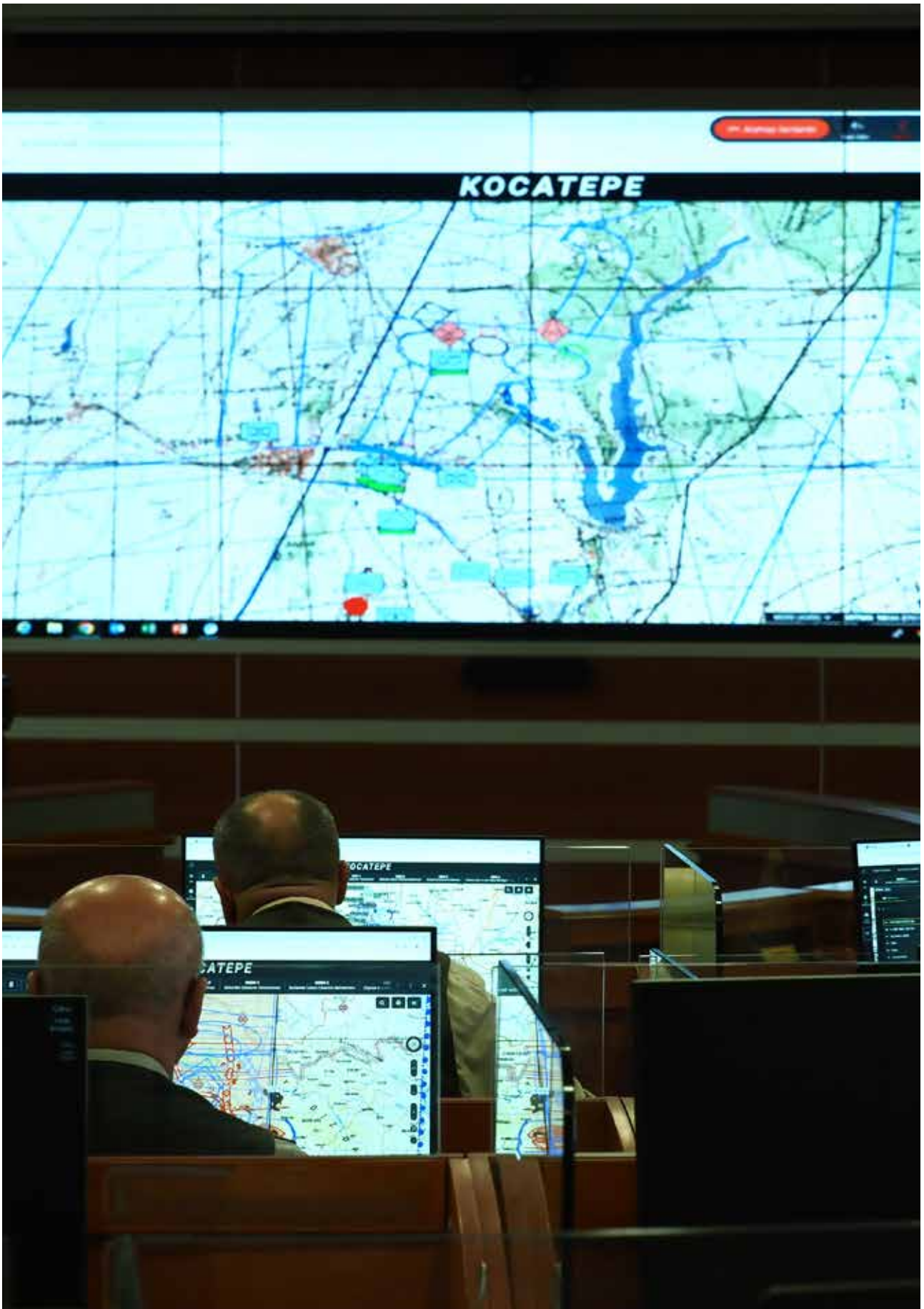
UAV (Unmanned Aerial Vehicle) counter systems are solutions designed to prevent UAVs from posing a threat, and they can be used on land, sea and air platforms. UAV counter systems typically include radar, electro-optical (EO/IR) sensors, jamming and hard-kill systems. İHTAR system is an UAV counter system developed by ASELSAN with different sensor configurations. Multiple İHTAR systems can work jointly to provide regional protection.



İHTAR 100
COUNTER UAV SYSTEM



ŞAHİN 130/40GL
40 MM HARD-KILL SYSTEM



04 AIR AND MISSILE DEFENSE SYSTEMS

Air and Missile Defense Systems are systems designed to protect friendly forces (units, facilities, regions) from all types of air threats; they consist of an integrated set of systems designed for the detection, tracking, and neutralization of these threats.

Today's air threats have very different usage purposes and characteristics. Some of these include low visibility, high altitude and speed movement, low cost, and the evolving threat characteristics emerging from advancing technology. The prominent targets in the wide threat spectrum include: rotary and fixed-wing platforms, air-to-ground missiles and bombs, ballistic and hypersonic missiles, rocket-artillery-mortar munitions, and Unmanned Aerial Vehicles (UAVs), ranging from small-scale to advanced attack aircraft.

In today's conditions, an effective air and missile defense system is one that provides layered protection, can operate in an integrated manner, and is composed of systems optimized according to the threat set, operational requirements, and cost criteria. To this end, Air and Missile Defense Systems activities in ASELSAN are carried out under four main areas listed below.

- Strategic Air and Missile Defense Missile Systems
- Operational Air and Missile Defense Missile Systems
- Tactical Air and Missile Defense Missile Systems
- Air and Missile Defense Gun Systems





STRATEGIC AIR AND MISSILE DEFENSE MISSILE SYSTEMS

The tasks of Strategic Air and Missile Defense Systems are generally to perform long-range and wide area air defense missions to protect the country's airspace. In addition, air defense systems that are effective against strategic attack elements such as Ballistic Missiles, precision cruise missiles, etc. are also included in the group of strategic air defense systems. Long-range air defense systems within this scope constitute the top layer within the Layered Air Defense architecture. In case of integration with lower-layer systems, these systems can make engagement decisions or delegation decisions to lower systems depending on the nature and priority of the threat. The SİPER system, which is a long-range regional and air defense system developed with national resources, is among our Strategic Air and Missile Defense Systems.

**SİPER**LONG RANGE AIR & MISSILE
DEFENSE SYSTEM

OPERATIONAL AIR AND MISSILE DEFENSE MISSILE SYSTEMS

Operational Air and Missile Defense Missile Systems provide high-security solutions with advanced technologies, particularly against low and medium range threats. With high-precision target detection, identification, and tracking capabilities, they perform air defense duties for mobile and stationary units, as well as critical facilities, against threats such as fighter jets, helicopters, unmanned aerial vehicles, cruise missiles, and air-to-ground missiles. Modern radar systems and precise guidance technologies enhance the effectiveness of low and medium range systems, safely neutralizing enemy threats. Furthermore, due to their flexible architecture, they are used in various configurations to meet operational needs in different scenarios, performing superior performance.



HİSAR O
MEDIUM RANGE AIR &
MISSILE DEFENSE SYSTEM



HİSAR A
SHORT RANGE AIR & MISSILE
DEFENSE SYSTEM



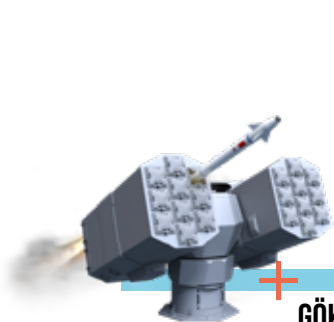
HİSAR 100 MLS
LOW MEDIUM ALTITUDE
AIR AND MISSILE DEFENSE
MISSILE LAUNCHING SYSTEM

TACTICAL AIR AND MISSILE DEFENSE MISSILE SYSTEMS

Tactical Air and Missile Defense Missile Systems are systems developed to provide air defense for stationary and mobile units, as well as critical facilities, especially at very low and low altitudes. It provides flexible operational capability on the tactical field thanks to its ability to operate independently or integrate with upper command and control systems. Developed to provide effective protection across a wide target spectrum, these products offer rapid deployment defense solutions to tactical units. They are equipped with striking capabilities such as target detection, tracking, and mobile firing during movement, thanks to their unique fire control algorithms.

**GÖKSUR**

POINT DEFENSE MISSILE SYTEM

**GÖKSUR 100-N**

POINT DEFENSE MISSILE SYTEM

**GÖKSUR 100-N VLS**

POINT DEFENSE MISSILE SYTEM

**GÜRZ 200**MULTI-PURPOSE ALL-IN-ONE AIR
AND MISSILE DEFENSE SYSTEM

AIR AND MISSILE DEFENSE GUN SYSTEMS

Air and Missile Defense Weapon Systems are developed for Short / Very Short Range air and missile defense of mobile and critical assets. They also provide effective solution for point air defense of higher layer air defense systems. These systems represent the final layer in a layered air defense architecture. They also act as the last line of defense against threats that can not be eliminated by other higher layer air defense systems. Air and Missile Defense Weapon Systems offer cost-effective solutions compared to higher-level air defense systems for the elimination of targets within the threat set.



KORKUT 150/35
VERY SHORT RANGE AIR
DEFENSE SYSTEM



KORKUT 130/35
MODERNIZED TOWED GUNS



GÖKBERK 100/5
MOBILE LASER WEAPON SYSTEM



GÖKDENİZ 100/35StA
CLOSE-IN WEAPON SYSTEM (CIWS)

RADAR AND ELECTRONIC WARFARE SYSTEMS

Within the scope of ASELSAN Radar and Electronic Warfare Systems (REHIS) Business Sector, development and production activities are carried out to meet the needs of domestic and international users, primarily the Turkish Armed Forces, in the fields of Radar and Electronic Warfare (EW).

Achieving superiority and deterrence in modern combat fields is only possible with a powerful army equipped with advanced Radar and EW systems. Three key competencies stand out in REHIS' provision of solutions beyond the capabilities of peer systems. These include extensive engineering experience, mastery of game-changing technologies, and the integrated and holistic consideration of Radar and EW solutions.

Thanks to ASELSAN's robust infrastructure, more effective, adaptable, and reliable defense systems are achieved.

The integration of ASELSAN Radar and EW systems has resulted in the development of advanced algorithms that mutually reinforce each other. These systems provide significant advantages in detecting and identifying threats while enabling real-time awareness of critical details during both wartime and peacetime. Radar and EW technologies, designed with cutting-edge capabilities, play a key role in modern warfare, creating a significant strategic edge in the field.





RADAR TECHNOLOGIES

- Surveillance Radars
- Naval Platform Radars
- Weapon Locating Radars
- Early Warning Radars
- Air Defense Radars
- Airborne/Satellite Radars
- RF Seekers



ELECTRONIC WARFARE SYSTEM TECHNOLOGIES

- Radar ES Systems
- Radar EA Systems
- Communication ES Systems
- Communication EA Systems
- Countering Unmanned Aerial Systems (C-UAS)
- Countering Improvised Explosive Devices (C-IED)
- Active Protection Systems
- EW Self Protection Systems
- Special Mission Platform EW Systems



01 RADAR TECHNOLOGIES

Radar Systems are sensor technologies designed, developed, produced, updated, and maintained to detect, track, classify, and identify threats such as aircrafts, helicopters, air-to-ground munitions, cruise missiles, ballistic missiles, strategic/tactical/small/mini/micro unmanned aerial vehicles, rockets, artillery, and mortar munitions. They aim to detect unauthorized airspace violations at low and high altitudes and address these threats.

Radar systems are utilized in various platforms, including land, sea, air, space platforms, and guided munitions (missiles), across different carrier structures.

ASELSAN has been developing Radar Technologies since the 1990s and offers cutting-edge radar solutions capable of countering a broad range of targets, from hypersonic threats to micro-UAVs, by leveraging various antenna architectures, including AESA. ASELSAN incorporates advanced technologies such as GaN power amplifiers, microwave modules, and state-of-the-art materials in its designs. ASELSAN develops, produces, integrates, tests, and implements these systems, ensuring that they meet operational needs at every level while maintaining the required capabilities and infrastructure.

- Surveillance Radars
- Naval Platform Radars
- Weapon Locating Radars
- Early Warning Radars
- Air Defense Radars
- Airborne/Satellite Radars
- RF Seekers

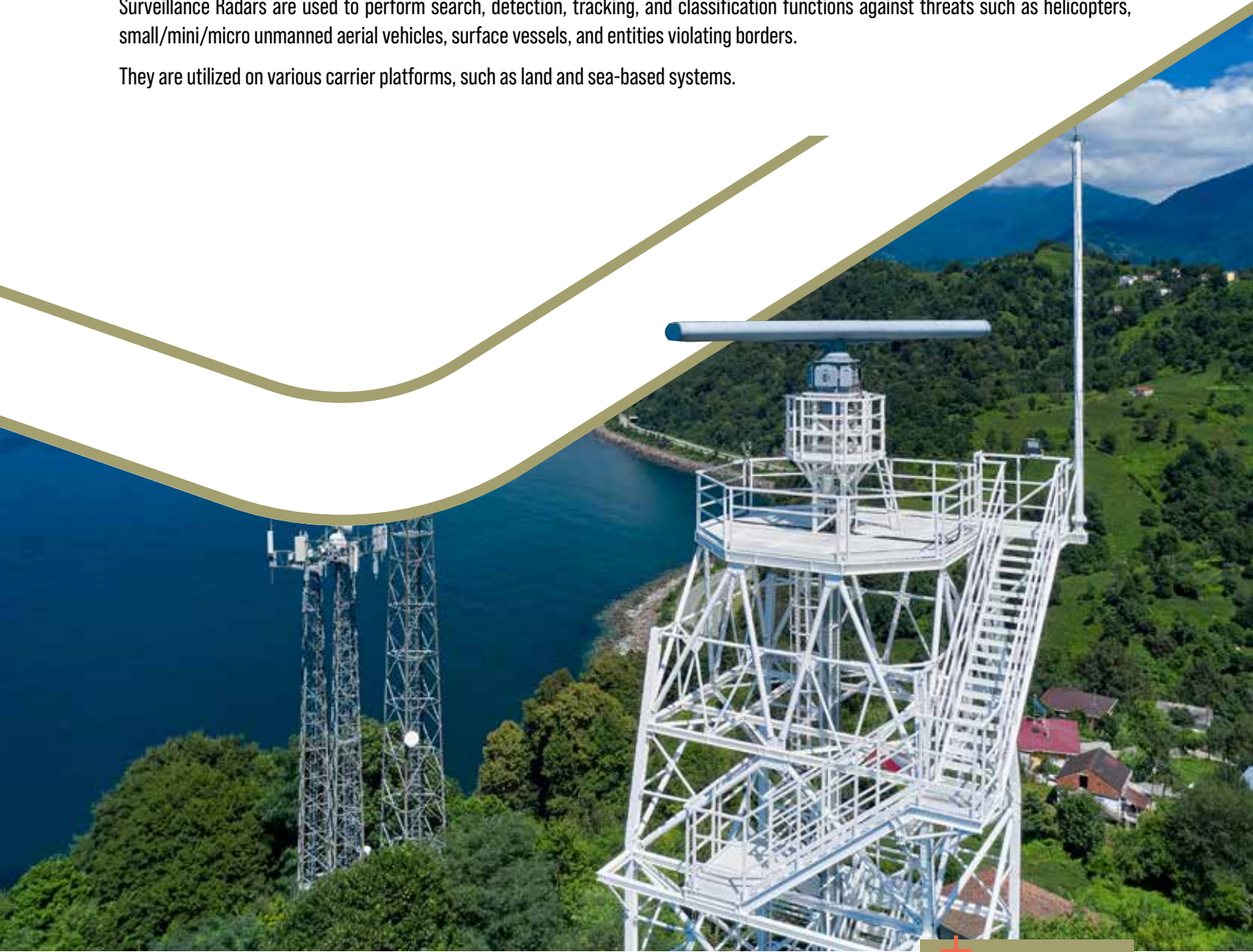




SURVEILLANCE RADARS

Surveillance Radars are used to perform search, detection, tracking, and classification functions against threats such as helicopters, small/mini/micro unmanned aerial vehicles, surface vessels, and entities violating borders.

They are utilized on various carrier platforms, such as land and sea-based systems.



SERDAR 100-Co
COASTAL SURVEILLANCE RADAR



AURA 100-G
UAV SURVEILLANCE RADAR



ACAR 400-G
GROUND SURVEILLANCE RADAR

NAVAL PLATFORM RADARS

Radar sensors designed, developed and kept up-to-date throughout life cycle for detection, tracking and classification for wide range of threats, including fighter, helicopter, guided missiles, UAVs and surface targets, providing precise information for a recognized maritime and air picture.



AKREP 100-NI
ACTIVE PHASED ARRAY
ILLUMINATION RADAR



AKREP 300-N
FIRE CONTROL RADAR



ALPER 200-N
SURFACE PULSED LPI RADAR



CENK 400-N
4D SURVEILLANCE RADAR



CENK 200-N
4D SURVEILLANCE RADAR



AKREP 100-N
FIRE CONTROL RADAR

WEAPON LOCATING RADARS

Weapon Detection Radars are used to perform search, detection, tracking, and classification functions against threats such as rockets, artillery, mortars, as well as improvised explosive devices and mines.

Weapon Detection Radars are also used to calculate the launch and impact locations of munitions such as mortars, artillery, and rockets.



STR 700-G
WEAPON LOCATING RADAR



STR 400-G
DUAL MULTI FUNCTION
WEAPON LOCATING RADAR



YENER 100-G
MODERN MINE
DETECTION SYSTEM

EARLY WARNING RADARS

They are long-range, high altitude coverage sensor systems designed, developed, produced and updated to perform search, detection, tracking, identification and classification functions for air-breathing aircraft, airplanes, helicopters, air-to-ground munitions, cruise missiles, ballistic missiles, strategic/tactical/unmanned aerial vehicles that pose a threat.

These radars have configurations that can be used on different carrier structures such as land platforms (tactical wheeled vehicles, trailers, etc.), air platforms and fixed positions on towers.



ALP 300-G
EARLY WARNING
RADAR SYSTEM



ALP 100-G
MULTI FUNCTION AESA AIR
SURVEILLANCE RADAR

AIR DEFENSE RADARS

Air Defense Radars are ground-based radar systems designed to detect and track threats such as aircraft, helicopters, munitions targeting land from the air, cruise missiles, ballistic missiles, strategic/tactical or small unmanned aerial vehicles, rockets, artillery, and mortar munitions. These systems are used to prevent the aforementioned threats by performing search, detection, tracking, identification, classification, and phase-guidance functions. They are developed, produced, updated, and maintained to provide early detection, threat assessment, and defense capabilities.



AKREP 1000-G

MULTI FUNCTION FIRE CONTROL RADAR



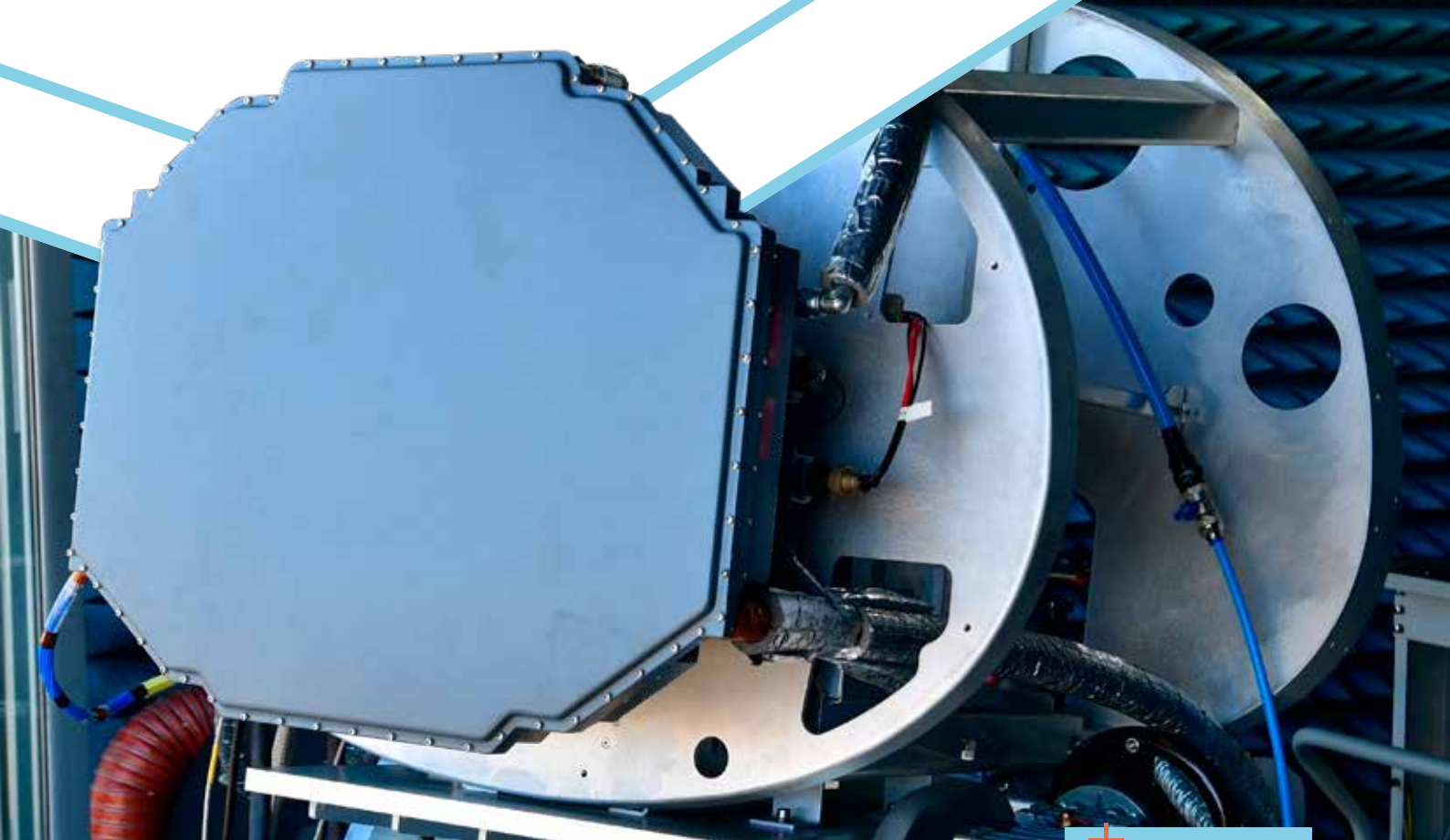
KALKAN II
AIR DEFENSE RADAR



KALKAN 100-G
MULTI FUNCTIONAL MOBILE
SEARCH RADAR

AIRBORNE/SATELLITE RADARS

Airborne/Satellite Radars are designed for fire control providing beyond visual range missile guidance, long-range surveillance with target detection, tracking and identification capabilities, maritime surveillance and Synthetic Aperture Radar (SAR) Imaging, providing complete picture of operational situational awareness. Having Active Electronically Scanned Array (AESA) antenna design, these systems are capable of performing time-interleaved air-to-surface or air-to-air operations with agile beam steering capability. It provides graceful degradation in the presence of Transmit/Receive module failure by using solid state modules within the array ensuring high operational availability.



MURAD 100-A
AESA FIRE CONTROL RADAR



FULMAR 200-A
SYNTHETIC APERTURE
RADAR POD SYSTEM

RF SEEKERS

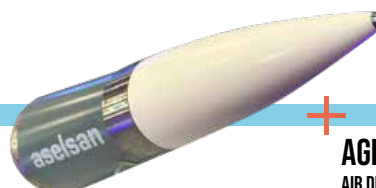
RF Seekers are active radar systems used in the terminal guidance phase of missile systems to provide threat information to the missile's guidance algorithm. RF Seekers, which are essential for the concept of precision-guided munitions, are used to search, detect, and track low radar cross-section targets such as munitions, cruise missiles, ballistic missiles, and low-visibility targets on land, sea, and air.



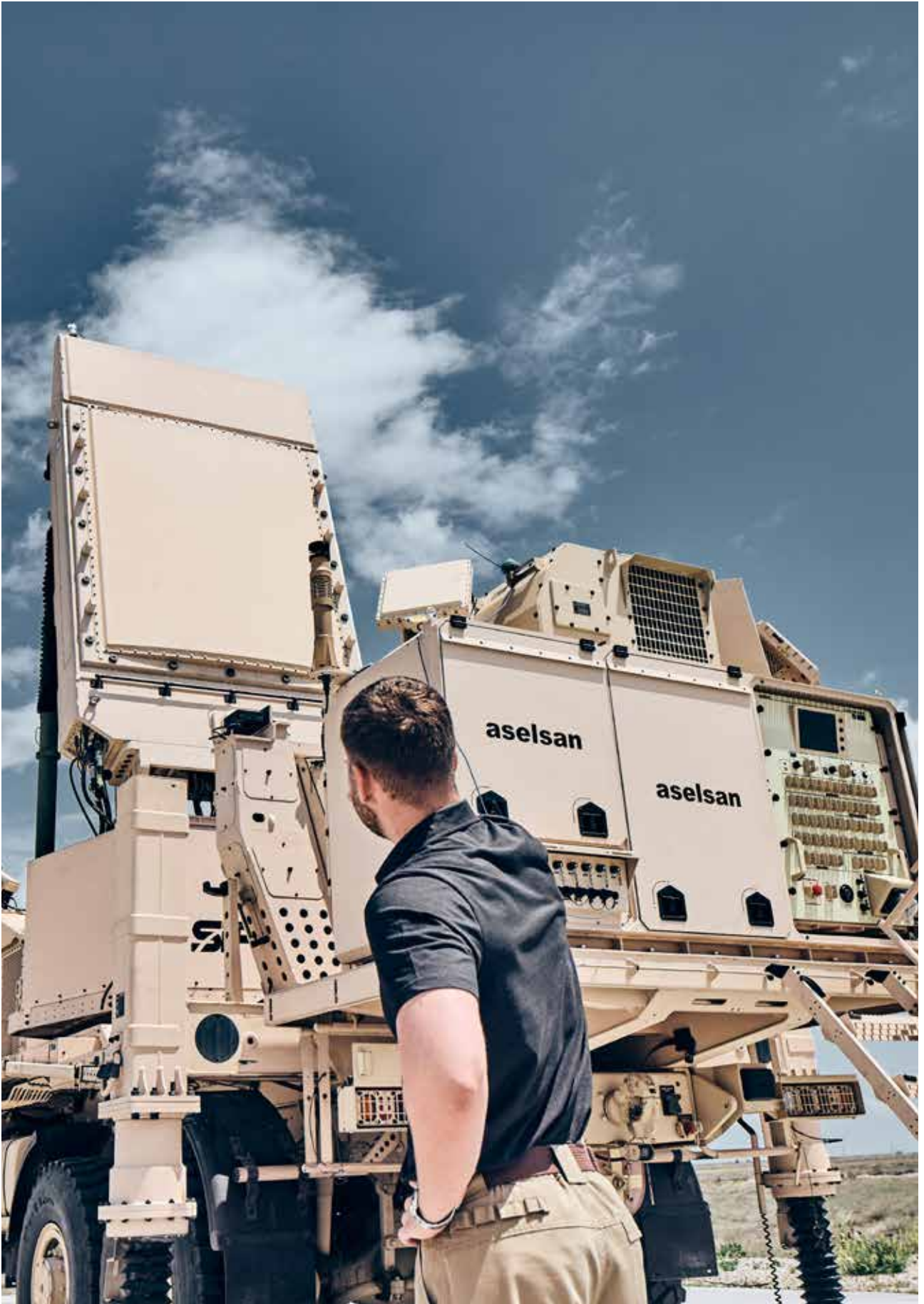
AGRAS
RF SEEKER



AGRAS XS
ANTI SHIP/SURFACE
MISSILES RF SEEKERS



AGRAS SA
AIR DEFENSE MISSILES
RF SEEKERS



02 ELECTRONIC WARFARE SYSTEM TECHNOLOGIES

ASELSAN has been developing critical technologies and world-class advanced technological products in the field of Electronic Warfare (EW) since the 1980s. The company holds a leading position among global defense industry companies with its system design, hardware/software development, algorithm creation, system integration, production, validation, and platform integration capabilities. ASELSAN's EW systems are designed with cutting-edge technology to provide users with the most effective solutions for operational superiority.

ASELSAN, the primary supplier of EW systems for the Turkish Armed Forces, has a long history of providing EW systems tailored to the specific needs of allied nations worldwide. Through its strong emphasis on research and development, ASELSAN continuously evolves its product range to deliver turnkey EW systems that meet global standards and operational needs. The comprehensive product family developed by ASELSAN encompasses land, naval, and air platforms, providing a wide array of capabilities.

- Radar ES Systems
- Radar EA Systems
- Communication ES Systems
- Communication EA Systems
- Countering Unmanned Aerial Systems (C-UAS)
- Countering Improvised Explosive Devices (C-IED)
- Active Protection Systems
- EW Self Protection Systems
- Special Mission Platform EW Systems





RADAR ES SYSTEMS

ASELSAN Radar Electronic Support (ES) Systems designed of product groups that can be configured to cover the radio frequency spectrum in air, land-base, sea and submarine platforms.

ASELSAN Radar ES Systems transforms the art of warfare by providing means to dominate the battlefield. The sophisticated detection, interception and analysis of enemy emissions enable forces to anticipate threats and secure vital operations. Aside from being a mere spectator, ES plays a pivotal role actively influencing conflict dynamics and securing strategic advantages.

ASELSAN Radar ES Systems, which are an important part of the electronic intelligence and self-protection function, can work integrated with the Combat Management System and ASELSAN Electronic Warfare Suite System.



NEWS 100
NAVAL ELECTRONIC
WARFARE SUITE



ARES 2-LCT 100
MAN-PACK ESM SYSTEM



ANTIDOT 2-U/S 100
ELECTRONIC SUPPORT SYSTEM



ARES 2-NC 100
NAVAL COMPACT ESM SYSTEM

RADAR EA SYSTEMS

ASELSAN Radar Electronic Attack (EA) Systems designed and developed for ground/air/naval platforms consist of KORAL, VURAL, ANTIDOT and AREAS systems; with wide frequency coverage, high output power, fast and effective response capabilities have the capability of suppressing threat radar coverage or disabling radar functions for desired durations by applying various jamming and deception electronic attack techniques. With its DRFM based structure, systems can apply coherent and non-coherent jamming/deception techniques against threat radars.

ASELSAN EA Systems can operate integrated with ES Systems or autonomously with different modular design configurations as well.



ANTIDOT 2-U 100, 110, 120
ELECTRONIC WARFARE POD



ANTIDOT 2-U 200
ELECTRONIC WARFARE POD



AREAS 2-NC 100
NAVAL COMPACT ECM SYSTEM



KORAL 200
MOBILE RADAR ELECTRONIC
WARFARE SYSTEM



VURAL 100
RADAR ES/EA SYSTEMS

COMMUNICATION ES SYSTEMS

Communication Electronic Support (ES) Systems provide situational awareness in the tactical field by detecting and tracking of target communications in communication frequency bands (HF, V/U/SHF), monitoring and analyzing signals of interest, estimation of direction and location signals of interest and finally sharing acquired information to allied forces.

Combat proven ASELSAN Communication Electronic Support (ES) Systems can be integrated on any kind of land/air/naval platforms.



PUHU 3-LT
MOBILE V/UHF ELECTRONIC
SUPPORT SYSTEM



PUHU 200
UAV/REMOTE CONTROLLER SIGNAL
DETECTION, CLASSIFICATION &
DIRECTION FINDING SYSTEM



PUHU 4-LCT
PORTABLE HF DIRECTION FINDING
AND MONITORING SYSTEM

COMMUNICATION EA SYSTEMS

Communication Electronic Attack (EA) Systems have been developed for electronic attack operations against target communication systems that communicate in various frequency bands such as HF, V/UHF, KU Band etc.

Our Communication EA Systems' aim is to harm or completely block target communications and/or cause incorrect data transmission ensuring advantage for friendly troops in tactical field.



ILGAR 330-LT
MOBILE V/UHF ELECTRONIC
ATTACK SYSTEM



GERGEDAN 400-LCT
PORTABLE HF JAMMING SYSTEM



ILGAR 420-LT
HF JAMMING SYSTEM

COUNTERING UNMANNED AERIAL SYSTEMS (C-UAS)

ASELSAN's Countering Unmanned Aerial Systems (C-UAS) feature combat proven Counter-UAV Systems that are specially tailored for end-user, jamming at all Radio Frequency Bands, high RF output power, directional and omni-directional antenna configurations, external power supply and unlimited operational duration, software-defined jamming, and user-specific jamming modes. The systems are compatible with Military Environmental Conditions, and ICNIRP Standards.



KANGAL/AD 100
DRONE MINI/MICRO UAV
JAMMING SYSTEM



KANGAL/AD/LR 100
C-UAV JAMMER SYSTEM



KANGAL/FPV
DRONE MINI/MICRO UAV FPV
JAMMING SYSTEM



BUKALEMUN 100
GNSS SPOOFING SYSTEM

COUNTERING IMPROVISED EXPLOSIVE DEVICES (C-IED)

ASELSAN's Countering Improvised Explosive Devices (C-IED) feature combat proven Counter-RCIED Systems that are specially tailored for end-user, jamming at all Radio Frequency Bands, high RF output power, directional and omni-directional antenna configurations, external power supply and unlimited operational duration, software-defined Jamming, and user-specific jamming modes. The systems are compatible with Military Environmental Conditions, and ICNIRP Standards.



EJDERHA
NEUTRALIZATION
SYSTEM



KANGAL/LR
DRONE MINI/MICRO UAV &
RCIED JAMMER SYSTEM



KANGAL-MP 100
SOFTWARE DEFINED MANPACK
RCIED JAMMER SYSTEM



KANGAL
VEHICLE TYPE PORTABLE
RCIED JAMMER SYSTEM

ACTIVE PROTECTION SYSTEMS

Active Protection Systems (APS) are designed and developed to protect the ground platforms against anti-tank guided missiles (ATGM) and anti-tank rockets (ATR). They utilize Soft Kill and/or Hard Kill abilities to eliminate the threats that are aiming at the platform at the optimal time and distance.

ASELSAN AKKOR 10, AKKOR PULAT 10, AKKOR PULAT 20 and AKKOR KAMA provides 360 degrees full protection to ground platforms against anti-tank guided missiles and anti-tank rockets in both asymmetric warfare and operational environment.



AKKOR 10

ACTIVE PROTECTION SYSTEM



AKKOR PULAT 10

ACTIVE PROTECTION SYSTEM

EW SELF PROTECTION SYSTEMS

ASELSAN Electronic Warfare (EW) Self Protection Systems designed and developed for fixed wing and rotary wing aircraft consisting of ARIA-A, ARIA-U, ARC-A, ARC-U, KARTACA-A, SMYB-A and SPEWS-II systems; provide survivability in the mission by supplying easy and fast situational awareness for the pilot/user (minimum workload) with fast and automatic countermeasure techniques application in a threat adaptive manner.

RF or Electro Optical threat data is received by the sensor systems, evaluated after data fusion and most appropriated technique is applied by the countermeasures systems. ASELSAN EW Systems have modular architecture, operate not only in suite structures but also as separate sub-systems.



ARIA-A 100
RADAR WARNING
RECEIVER SYSTEM



ARK-A 100
RADIO FREQUENCY
JAMMER SYSTEM



KARTACA-A 100
COUNTERMEASURE
DISPENSING SYSTEM



KARTACA-A 200
COUNTERMEASURE
DISPENSING SYSTEM



ARIA-A 200
RADAR WARNING
RECEIVER SYSTEM



ARK-A 200
RADIO FREQUENCY
JAMMER SYSTEM

SPECIAL MISSION PLATFORM EW SYSTEMS

Special Mission Platform EW Systems compose of systems that acquire both Electronic Support (ES) and Electronic Attack (EA) capabilities that can be applied on relevant radar and communication targets. These systems can search, detect, monitor, identify and locate radar and communication targets within the system operational frequencies as well as perform detailed analysis on the target signals and apply necessary jamming signals degrading target radar/communication asset's effectiveness.

ASELSAN's Special Mission Platform EW Systems include platforms integrated into both manned and unmanned aerial vehicles, such as ASINT 234-A, ASINT 3-U/ANK, ASINT 23-U/ANK, ASINT 3-U/AKN, ASINT 23-U/AKN, ASOJ 23-A, ASOJ 2-U/AKN, and ASOJ 34-U/AKN.



ASOJ 23-A

STAND-OFF JAMMER AIRCRAFT



ASOJ 34-U/AKN

COMMUNICATION ESM/EA (CESEA) SYSTEM



ASOJ 2-U/AKN

RADAR ESM/EA (RESEA) SYSTEM



MICROELECTRONICS AND ELECTRO-OPTICAL SYSTEMS

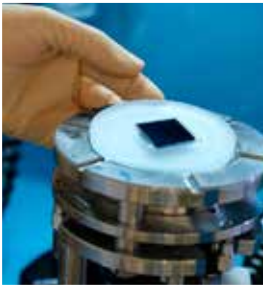
Microelectronics and Electro-Optical Systems (MEOS) Sector Presidency, which is a pioneer in its field in Türkiye, is one of the world's leading technology centers with its high-level R&D capabilities, state-of-the-art production-test infrastructure and qualified human resources.

Innovative and game-changing systems developed for air, space, land and naval platforms; design, development, test, production, sales and logistics support services are provided to military and civilian needs authorities, primarily the Turkish Armed Forces.

MEOS carries out its activities mainly under 9 main areas. In these activity areas; search, tracking, detection, discovery and surveillance systems, thermal / night / day vision systems, missile and laser warning systems, underwater EO systems, tank and armored vehicle systems, gimballed systems, platform integrated systems, weapon and missile sighting systems, infrared seeker systems cooled and uncooled detectors, image intensifier tubes and cryogenic coolers, high-tech systems are being developed for many platforms in various product groups.

MEOS has become an leading actor both in our country and globally with its high-performance, field-proven products. MEOS continues its work with ASELSAN's reliable technology vision on the way to becoming the best in its field.





AIRBORNE, SPACE AND MICROELECTRONIC EO SYSTEM TECHNOLOGIES

- EO Systems with Gimbals
- EO Self Protection Systems
- Laser Systems
- Microelectronic Systems
- Integrated Pod, and Space Electro-Optical Systems



LAND, NAVAL EO AND SEEKER SYSTEM TECHNOLOGIES

- Land EO Systems
- Naval EO Systems
- Portable EO Systems
- Seeker Systems



01 AIRBORNE, SPACE AND MICROELECTRONIC EO SYSTEM TECHNOLOGIES

ASELSAN offers effective system solutions in the fields of air, space, microelectronics, and platform-integrated needs with more than 25 unique electro-optical products exported to 12 countries.

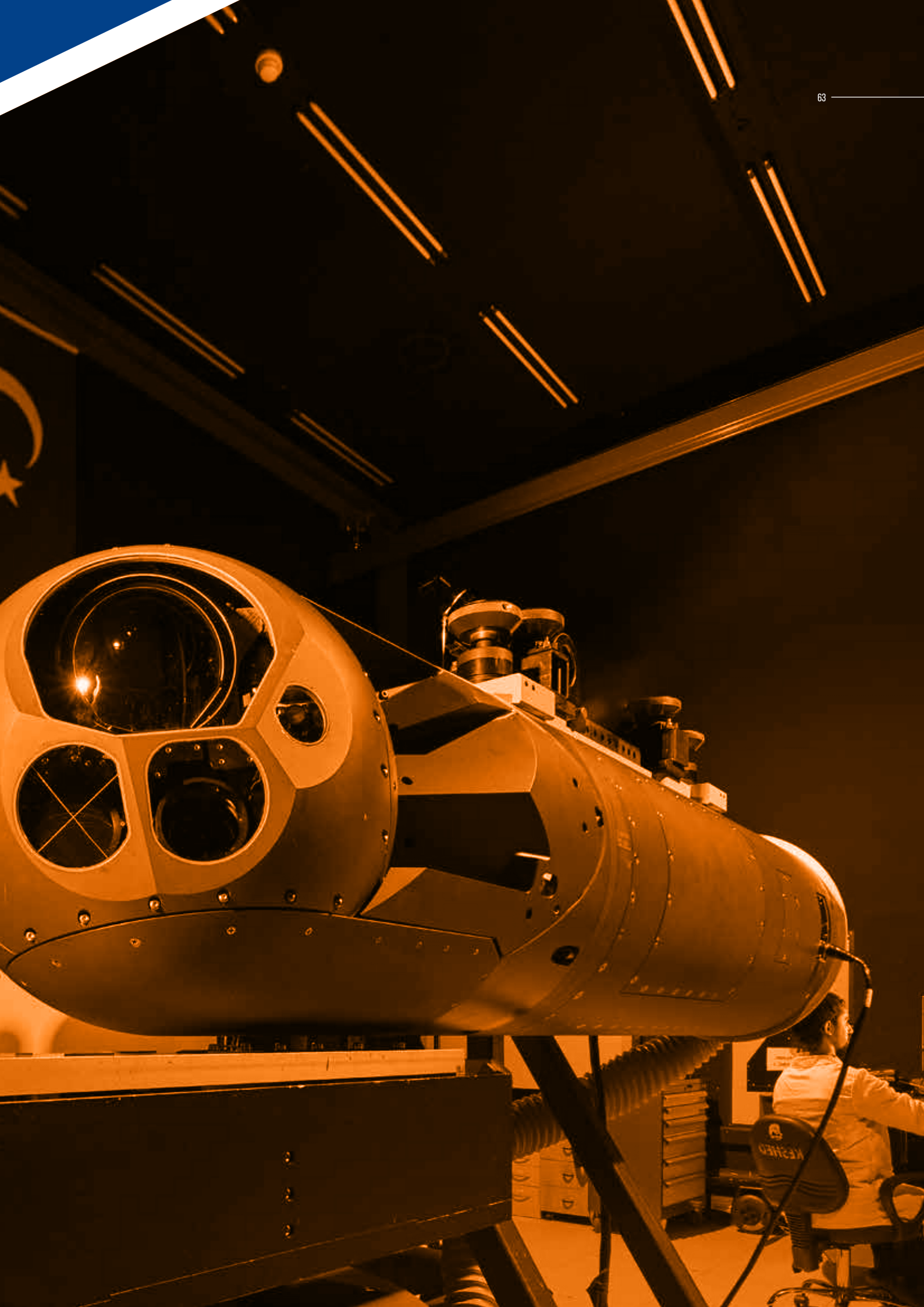
Electro-optical targeting and search-tracking systems integrated into aerial platforms enhance precision strike capabilities day and night, and under all weather conditions. These systems perform critical missions such as reconnaissance, surveillance, target designation, illumination, and pointing. Missile warning, laser warning, and DIRCM systems enable platforms to be protected against various threats.

For land applications, gimballed and platform-integrated systems provide effective detection and identification capabilities for air defense systems, critical infrastructure, and border surveillance operations. These systems are equipped with long-range thermal cameras, day vision sensors, SWIR cameras, laser target designators, and laser range finders, and are capable of operating under all weather and combat conditions.

In the Laser Systems product family, in addition to target designators, range finders, and pointing/illumination units, development efforts continue for next-generation solutions such as laser active imaging, laser countermeasures, laser communication, and laser weapon systems.

Cooled Infrared Detector Dewar Cooler Assemblies (IDDCAs) operating in the MWIR and LWIR bands, uncooled infrared detectors operating in the SWIR and LWIR bands, and Image Intensifier Tubes sensing UV and NIR bands are either under development or serial production within the field of Microelectronic Systems.





EO SYSTEMS WITH GIMBALS

EO Systems with Gimbals are products of high technology, developed for manned/unmanned platforms, capable of performing under all kinds of weather and combat conditions, predominantly used in the surveillance of settlements (e.g., bases, critical facilities) and borders.

With imaging solutions in thermal, day TV and SWIR channels even under long-range conditions, laser pointer and laser range finder & designator features; the systems provide advanced high precision stabilization, automatic target recognition and artificial intelligence based algorithms, emerging as an indispensable game-changing component for modern defense and security applications.



ASELFLIR 500

ELECTRO-OPTICAL
RECONNAISSANCE, SURVEILLANCE
AND TARGETING SYSTEM



ASELFLIR 600

ELECTRO-OPTICAL
RECONNAISSANCE, SURVEILLANCE
AND TARGETING SYSTEM



ASELFLIR 400

ELECTRO-OPTICAL RECONNAISSANCE,
SURVEILLANCE AND TARGETING SYSTEM

INTEGRATED, POD AND SPACE ELECTRO-OPTICAL SYSTEMS

Integrated, POD and Space EO Systems are high-performance electro-optical solutions developed for manned/unmanned aerial platforms and satellites, capable of operating under all weather and combat conditions. Thermal, day vision, and SWIR cameras, along with features such as laser spot tracking, target designation, and range finding, can be provided in either integrated or POD configurations.

These systems stand out with their low radar signature, low drag coefficient, and high precision capabilities. Infrared search and track (IRST) systems enable the passive detection of 5th generation aircraft and various threats from long ranges.

ASELSAN Integrated, POD and Space EO Systems also feature advanced stabilization, automatic target recognition, and AI-supported algorithms, making them a key enabler in modern defense and security applications.



ASELPOD
ADVANCED TARGETING POD



KARAT
INFRARED SEARCH AND
TRACK SYSTEM



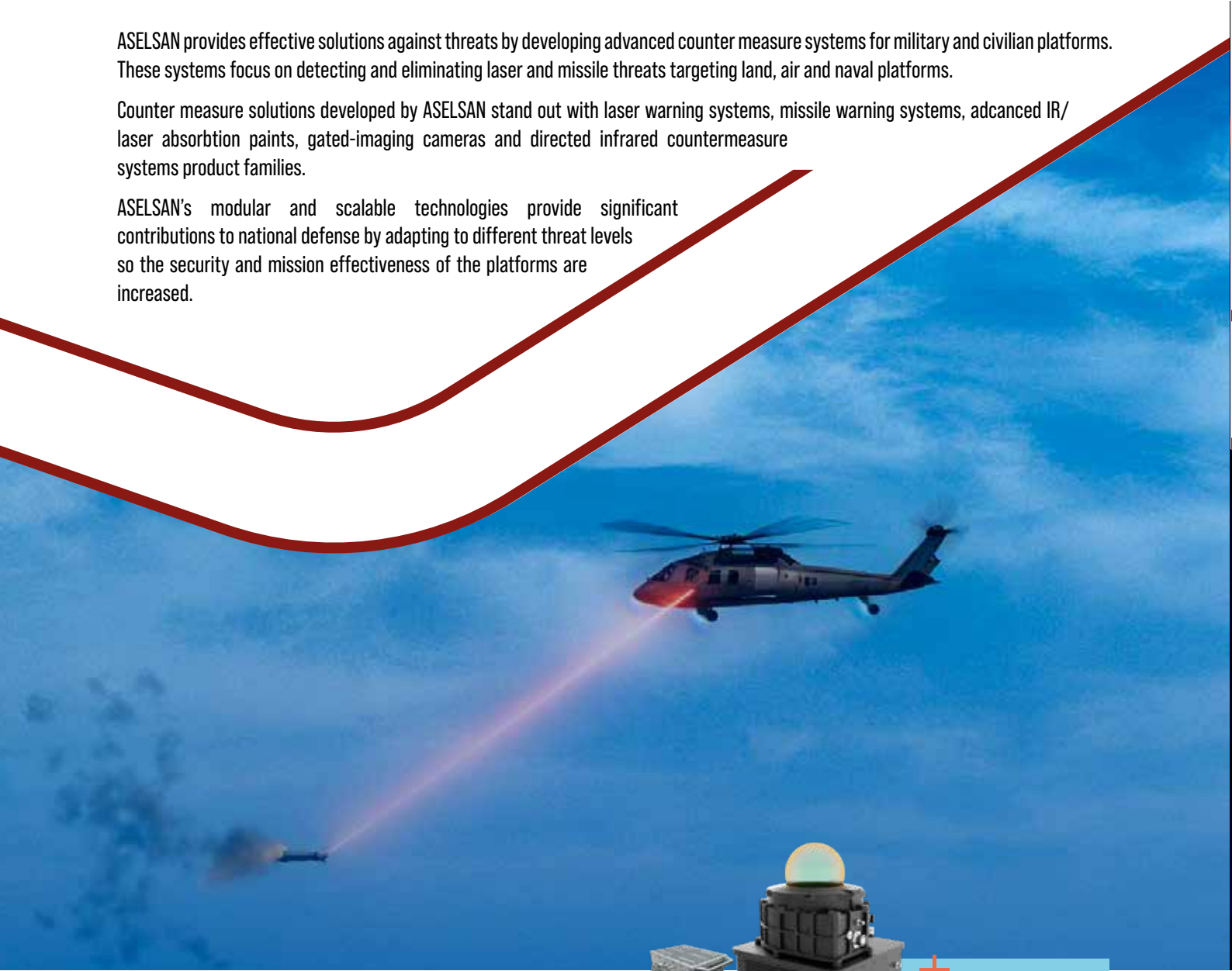
TOYGUN
ELECTRO-OPTICAL SENSOR
SYSTEM

EO COUNTERMEASURE SYSTEMS

ASELSAN provides effective solutions against threats by developing advanced counter measure systems for military and civilian platforms. These systems focus on detecting and eliminating laser and missile threats targeting land, air and naval platforms.

Counter measure solutions developed by ASELSAN stand out with laser warning systems, missile warning systems, advanced IR/laser absorption paints, gated-imaging cameras and directed infrared countermeasure systems product families.

ASELSAN's modular and scalable technologies provide significant contributions to national defense by adapting to different threat levels so the security and mission effectiveness of the platforms are increased.



YILDIRIM 100
DIRECTED INFRARED COUNTER
MEASURE (DIRCM) SYSTEM



IRIS 120
TURKISH UV MISSILE
WARNING SYSTEM



IRIS 200
IR BASED MISSILE
WARNING SYSTEM



LIAS 400
TANK LASER WARNING
RECEIVER SYSTEM

LASER SYSTEMS

ASELSAN has been leading technology in the military laser systems in Türkiye with its investments and trained manpower for over 30 years. ASELSAN laser target designator and range finder units are used in dozens of different systems, from targeting pods integrated into air platforms and submarine periscopes to compact products designed for “single-soldier”.

With the competence and knowledge gained, ASELSAN is also leading the in game-changing technologies. Studies on laser active imaging systems that maximize image processing and tracking capabilities, high-power laser weapons and long-range laser communication systems that can provide data transfer even in electronic warfare environments are ongoing, and these systems will be put into use in very near future.



CETVEL 300
EYE SAFE LASER RANGE
FINDER



CETVEL 100
EYE SAFE LASER RANGE
FINDER

MICROELECTRONIC SYSTEMS

The most critical component of Electro-Optical Systems, which provide superiority in operational environments, is the high-tech sensors. These sensors, capable of detecting in Ultraviolet (UV), Visible, Near, Short, Mid or Long Infrared (IR) wavelengths, enable Electro-Optical Systems to perform Reconnaissance, Surveillance, Targeting, Warning, and Tracking functions; furthermore, Missile Seekers to passively detect and engage targets.

Electro-Optical systems are integrated into platforms such as MMU KAAN (TFX), HİSAR, SOM, ATAK, and Unmanned Aerial Vehicles (UAVs), utilizing various types of sensors. To minimize dependency on foreign sources and enhancing the export opportunities, sensor development activities are carried out within ASELSAN.



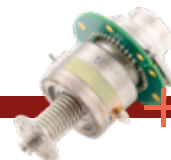
TIGRIS 640x512 15 μ /MW
MWIR INTEGRATED DETECTOR DEWAR
COOLER ASSEMBLY



MARTIS UV100
SOLARBLIND UV IMAGE INTENSIFIER
TUBE



LEOP 640x512 15 μ /SW
UNCOOLED SHORT WAVE
INFRARED DETECTOR



FELIS 384x288 15 μ /MW-JT
MCT SENSOR MATERIAL USING DEVELOPED
COOLED INFRARED DETECTOR SET



02 LAND, NAVAL EO AND SEEKER SYSTEM TECHNOLOGIES

ASELSAN provides reliable and high-performance system solutions for land, air, and naval platforms with over 70 unique electro-optical products exported to 18 countries.

Electro-optical systems—widely used in settlements such as police stations, base areas, and critical facilities, as well as in border surveillance operations—comprise system solutions that include long-range thermal cameras, day-vision cameras, SWIR cameras, and laser rangefinder sensors. These systems are designed to perform under all weather and combat conditions.

Within the MEOS Sector Presidency, developed, national solutions are designed and produced for the electro-optical systems required in modern tanks and armored vehicles on the tactical battlefield, along with the integration of these systems onto their platforms.

ASELSAN's naval electro-optical systems, deployed on a variety of platforms ranging from search and rescue boats to landing ships and aircraft carriers, serve a broad spectrum of missions—from combating smuggling and irregular migration to countering naval intrusions.

Portable tactical electro-optical systems, night-vision sights, thermal weapon scopes, day sights, and portable observation systems together serve as the “eyes” for the Turkish Armed Forces and security agencies under any environmental conditions.

The Seeker System Technologies, designed with unique solutions for anti-tank missiles, air defense missiles, and air-to-ground munitions, deliver strategic superiority. With high-resolution infrared detectors that provide an expansive field of view, these systems enable the precise detection and tracking of both stationary and moving targets during day and night operations.

ASELSAN's pioneering position in defense technologies is reinforced by the high quality of the Land, Naval EO, and Seeker System Technologies developed under the MEOS Sector Presidency.





LAND EO SYSTEMS

The Land EO Systems for Reconnaissance and Surveillance family includes system solutions equipped with long-range thermal cameras, day-vision cameras, and laser rangefinders—capable of operating under any weather and combat conditions. In particular, the products in the Land EO Systems inventory are extensively used by the Turkish Armed Forces and security agencies in settlements such as police stations, base areas, control points, and critical facilities, as well as in border surveillance operations.

In addition to these, all types of EO system solutions required on the tactical battlefield for modern tank platforms and tracked/wheeled armored vehicles are designed and produced nationally within the Land EO Systems family and integrated into the relevant platforms. The EO systems integrated into these tanks and armored vehicles are effectively utilized by end users in combat zones.



DRAGONEYE

ELECTRO-OPTIC SENSOR SYSTEM

DRAGONEYE 2

ELECTRO-OPTIC SENSOR SYSTEM



SAGER 100

THERMAL SIGHT FOR KORNET-E
ANTI-TANK GUIDED MISSILE



KARTALGÖZÜ 200

TANK SIGHT SYSTEM

NAVAL EO SYSTEMS

ASELSAN Naval EO Systems cater to the needs of naval platforms ranging widely from small-scale search and rescue boats to large landing ships and aircraft carriers, as well as from underwater platforms to coastal surveillance stations.

Specifically designed for naval conditions and developed to operate on a 24/7 basis, ASELSAN Naval Electro-Optical Systems not only offer long-range reconnaissance and surveillance capabilities under challenging conditions but also successfully perform in self-defense and integrated warfare scenarios.



AHTAPOT 100



ORFOZ 120
ELECTRO-OPTIC BORDER/
COASTAL SURVEILLANCE
SYSTEM



PIRi 120
INFRARED SEARCH AND TRACK
SYSTEM



MARTI 200-N
ELECTRO-OPTICAL
RECONNAISSANCE AND
SURVEILLANCE SYSTEM

PORTABLE EO SYSTEMS

Portable electro-optical systems—often referred to in the literature as “single-soldier” devices—can be mounted on a soldier’s weapon or various platforms, carried in-hand, or worn over the shoulder, and are easily transportable by a single operator.

Day and night sights, designed to facilitate targeting, are built to withstand high levels of vibration and shock. These devices provide superior day/night vision capabilities not only in favorable weather conditions but also in adverse natural environments such as fog and haze, or in combat scenarios featuring dust or smoke.

Portable Electro-Optical Systems product family, aimed at reconnaissance and surveillance, consists of integrated binoculars. These systems are characterized by a robust, modern, and lightweight design that meets military operational requirements.



DORUK 120

HAND-HELD ELECTRO-OPTIC
SENSOR



TİMSAH TM100

MULTIFUNCTIONAL THERMAL
MONOCULAR



TİMSAH T360D

THERMAL WEAPON SIGHT



NOVA A100

NIGHT VISION MONOCULAR

SEEKER SYSTEMS

The Seeker family—uniquely designed by ASELSAN for anti-tank missiles, air defense missiles, and air-to-ground munitions—delivers high performance that ensures strategic superiority and facilitates safer operational execution. The high-resolution infrared detectors, which offer wide field of view and wide field of range, allow for the high-precision detection and tracking of both stationary and moving targets during day and night operations. Currently, the product family includes the KILIT 13K, KILIT 130, KILIT 13U, KILIT 23T, and KILIT 32H seekers.



KILIT 32H
LOW/MEDIUM ALTITUDE AIR
DEFENSE MISSILES



KILIT 13K
ANTI-TANK MISSILES IMAGING
INFRARED SEEKER



KILIT 130
ANTI-TANK MISSILES IMAGING
INFRARED SEEKER



KILIT 23T
AIR TO GROUND
MUNITION IIR SEEKER

AVIONICS AND GUIDANCE SYSTEMS

Within the Avionics and Guidance Systems (AGS) Sector, production and development activities are carried out in line with the needs of domestic and international users, especially the Turkish Armed Forces.

Within ASELSAN, The Avionics and Guidance Systems (AGS) Sector serves for many countries with its wide product range, production area equipped with the latest technology and high quality approach focused on continuous improvement.

Game-changing systems, which are of extremely critical importance for the defense of countries and developed in line with the tactical needs of modern armies, are produced within ASELSAN by virtue of the superior engineering and problem-solving competency of the AGS Sector. All military or civilian products are designed and tested under harsh environmental conditions encountered on the air-sea-land platforms.

The AGS Sector Presidency continues to work effectively after sales by carrying out the procurement/management of sub-materials required for the maintenance and sustainment of the product throughout its life cycle and integrated logistics support activities.

The vision of AGS Sector Presidency, which reflects the competence of ASELSAN to produce the best in its field, is to support sustainable development, be a pioneer and leading technology manufacturer and carry ASELSAN's position in global competition to the top with confidence-oriented success.





AVIONICS SYSTEM TECHNOLOGIES

- Avionics Systems



GUIDANCE AND NAVIGATION SYSTEM TECHNOLOGIES

- Guidance Systems
- Navigation Systems



01 AVIONICS SYSTEM TECHNOLOGIES

With ASELSAN Avionics System Technologies, leading activities are carried out for our country to gain technological independence in the field of aviation and in accordance with the “National Technology Move” studies, product/system development, aircraft integration and infrastructure/human resources creation. Critical systems with high technological depth used in air platforms and supplied from foreign countries, and the sub-technologies of these systems, are designed and developed by ASELSAN engineers. Therefore, while the needs of Turkish Armed Forces are met at the highest level nationally, value-added and innovative solutions for global market with increasing sales potential are also created.





Passenger List			
No	Name	Age	Sex
1	John Doe	35	M
2	Jane Smith	28	F
3	Robert Johnson	45	M
4	Emily White	22	F
5	Michael Brown	30	M
6	Sarah Green	38	F
7	David Black	42	M
8	Lisa Grey	25	F
9	James Blue	33	M
10	Amanda Yellow	27	F
11	Christopher Red	40	M
12	Michelle Purple	31	F
13	Daniel Pink	36	M
14	Stephanie Brown	29	F
15	Andrew Green	41	M
16	Rebecca White	24	F
17	Kevin Black	34	M
18	Nicole Grey	32	F
19	Brandon Blue	26	M
20	Christina Yellow	37	F
21	Jonathan Red	43	M
22	Victoria Purple	23	F
23	Benjamin Pink	39	M
24	Elizabeth Brown	30	F
25	Gregory Green	44	M
26	Hannah White	21	F
27	Isaac Black	35	M
28	Karen Grey	33	F
29	Lucas Blue	28	M
30	Megan Yellow	36	F
31	Nathan Red	46	M
32	Olivia Purple	25	F
33	Peter Pink	48	M
34	Quinn Brown	32	F
35	Ryan Green	37	M
36	Samantha White	27	F
37	Timothy Black	42	M
38	Ursula Grey	34	F
39	Victor Blue	31	M
40	Wendy Yellow	29	F
41	Xavier Red	47	M
42	Yvonne Purple	26	F
43	Zachary Pink	38	M
44	Alicia Brown	35	F
45	Benjamin Green	40	M
46	Chloe White	24	F
47	Daniel Black	36	M
48	Evelyn Grey	33	F
49	Frank Blue	28	M
50	Gina Yellow	37	F
51	Harry Red	43	M
52	Ivy Purple	23	F
53	Jack Pink	39	M
54	Karen Brown	30	F
55	Liam Green	44	M
56	Mia White	21	F
57	Noah Black	35	M
58	Olivia Grey	32	F
59	Peter Blue	28	M
60	Quinn Yellow	36	F
61	Rachel Red	46	F
62	Samuel Purple	25	M
63	Tina Pink	38	F
64	Uma Brown	35	F
65	Victor Green	40	M
66	Wendy White	24	F
67	Xavier Black	36	M
68	Yvonne Grey	33	F
69	Zachary Blue	28	M
70	Alicia Yellow	37	F
71	Benjamin Red	43	M
72	Chloe Purple	23	F
73	Daniel Pink	39	M
74	Evelyn Brown	30	F
75	Frank Green	44	M
76	Gina White	21	F
77	Harry Black	35	M
78	Ivy Grey	32	F
79	Jack Blue	28	M
80	Karen Yellow	36	F
81	Liam Red	46	M
82	Mia Purple	25	F
83	Noah Pink	38	M
84	Olivia Brown	35	F
85	Peter Green	40	M
86	Quinn White	24	F
87	Rachel Black	36	F
88	Samuel Grey	33	M
89	Tina Blue	28	F
90	Uma Yellow	37	F
91	Victor Red	43	M
92	Wendy Purple	23	F
93	Xavier Pink	39	M
94	Yvonne Brown	30	F
95	Zachary Green	44	M
96	Alicia White	21	F
97	Benjamin Black	35	M
98	Chloe Grey	32	F
99	Daniel Blue	28	M
100	Evelyn Yellow	36	F

AVIONICS SYSTEMS

Participating in recent aviation development and modernization projects with its highest technology avionics systems, ASELSAN meets user requirements with its design, development, production and integration of hardware/software/platform capability for the most critical avionics devices of military air platforms. In this field, ASELSAN has been developing products on mission and flight control computers, display systems, mission systems, inertial navigation systems, weapon management systems, electrooptic systems and communication systems. ASELSAN also carries out integrated logistics activities and management of required spare units for maintenance of avionic systems during product life-cycle.



ADEN L2820T
LARGE AREA DISPLAY



ATRAS 400
TRAFFIC AND TERRAIN COLLISION
AVOIDANCE SYSTEM



ACORE 400
INTEGRATED CENTRAL
CONTROL COMPUTER



ARVEN RNE 400
RADIO NAVIGATION EQUIPMENT



TULGAR
HELMET MOUNTED
DISPLAY



AVCI
HELMET INTEGRATED
CUEING SYSTEM



02 GUIDANCE AND NAVIGATION SYSTEM TECHNOLOGIES

As a global leader in the defense industry, ASELSAN plays a pioneering role in the field of guidance and navigation systems.

ASELSAN's Guidance Systems are designed to deliver high precision, accuracy, and efficiency, adapting to the demands of modern warfare. These cutting-edge solutions ensure superior strike capability and operational effectiveness.

Equipped with state-of-the-art technology, ASELSAN's Navigation Systems provide advanced solutions for positioning, orientation, and stabilization across space, air, land, and sea platforms, as well as for payloads and munitions.

With its commitment to domestic and national innovation, ASELSAN strengthens the independence of the national defense industry by integrating advanced engineering and R&D solutions into its systems. Designed with high-end hardware and software infrastructure, ASELSAN's guidance and navigation technologies demonstrate exceptional performance even in the most challenging conditions, ensuring strategic superiority and secure operations.

ASELSAN's expertise in this domain extends beyond national borders, making its products the preferred choice not only for the Turkish Armed Forces but also for allied nations worldwide. By delivering cutting-edge guidance and navigation solutions, ASELSAN continues to lead the way in building a safer future and advancing technological excellence.





GUIDANCE SYSTEMS

Air-to-ground free-fall general-purpose bombs are transformed into high-precision smart munitions with ASELSAN-designed and manufactured guidance kits. The Laser Guidance Kit (LGK) offers a cost-effective solution against both stationary and moving targets, while the Precision Guidance Kit (HGK) ensures exceptional accuracy in all weather conditions, day and night. Additionally, the Wing-Assisted Guidance Kit (KGK), with its deployable wing structure, enables long-range releases, allowing safe operations without entering enemy territory. TOLUN P is designed to provide maximizing the number of munitions loaded per aircraft by multi-carriage rack systems SADAK Family. With its penetrating warhead, TOLUN P can breach reinforced concrete up to 1 meter thick, effectively neutralizing hardened targets.



TOLUN P

INS/ GNSS GUIDED ALLUP
ROUND MUNITION



SADAK 4T

SMART PNEUMATIC
QUAD RACK



SADAK 2MK

SMART PNEUMATIC
DUAL RACK



GÖZDE

LASER PRECISION
GUIDANCE KIT



HGK

PRECISION
GUIDANCE KIT



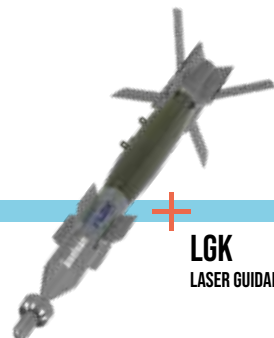
KGK

WING ASSISTED
GUIDANCE KIT



LGK

LASER GUIDANCE KIT



NAVIGATION SYSTEMS

Navigation Systems field of activity, encompasses the development of engineering capabilities, infrastructure, and investments in inertial navigation systems, inertial sensors (gyroscopes, accelerometers, and inertial measurement units), global navigation satellite system (GNSS) receivers, and alternative navigation support systems for GPS/GNSS-denied environments (such as terrain- and vision-aided support). It aims to establish a comprehensive knowledge base in these domains, conduct in-depth research, and advance navigation technologies. Integrated navigation solutions that fuse data from inertial and various onboard platform sensors are provided to meet the navigation and target guidance requirements of land, air, and naval platforms, as well as precision-guided munitions. These solutions, which offer varying performance grades from tactical to strategic, are primarily delivered to the Turkish Armed Forces and allied nations.



ANS 610-M
NAVAL INERTIAL
NAVIGATION SYSTEM



ANS 420-L
TACTICAL LAND INERTIAL
NAVIGATION SYSTEM



GBOX-A
AIRBORNE GLOBAL NAVIGATION
SATELLITE SYSTEM UNIT



ANS 611-A
AIRBORNE INERTIAL
NAVIGATION SYSTEM



KILAVUZ 31
TACTICAL GRADE INERTIAL
MEASUREMENT UNIT

COMMUNICATION AND INFORMATION TECHNOLOGIES

To address the tactical, operational, and strategic communication and information technology needs that may arise in future battlefields and public safety operations; cutting-edge solutions are being developed for land, air and naval platforms through systems that are robust, resilient, AI-powered, and capable of high speed and flexibility.

- Tactical communication solutions for land forces,
- Long-range and low-frequency communication capabilities for naval platforms,
- Avionic and air-to-ground communication systems for airborne assets,
- Integrated mission-critical communication systems using narrowband and broadband technologies for public safety,
- LTE/5G wideband communication solutions
- Integrated communication infrastructures for search and rescue missions using unmanned systems,
- AI-enabled joint operational capabilities secured by advanced cryptographic infrastructures,
- Proprietary communication solutions spanning from user terminals to ground segments and even into space, covering all layers of satellite communication,
- Solutions developed in-house with end-to-end control over technology design and integration,
- High-assurance security architectures based on original waveforms and quantum-resistant cryptographic algorithms.





PUBLIC SAFETY COMMUNICATION AND INFORMATION TECHNOLOGIES

- Integrated Public Safety Communication Systems
- Public Safety and Mission-Critical Communication Systems
- Mobile Broadband Communication, Cyber Security and Information Technologies



MILITARY COMMUNICATION AND INFORMATION TECHNOLOGIES

- Military Land Communication Systems
- Military Naval Communication Systems
- Military Airborne Communication Systems
- Data Link Systems



SATELLITE, SPACE AND IDENTIFICATION SYSTEMS

- Satellite and Space Systems
- Identification Systems
- Satellite Communication Systems



01 PUBLIC SAFETY COMMUNICATION AND INFORMATION TECHNOLOGIES

Public Safety Communication Systems, a critical infrastructure that insures social peace of mind, are being taken to a new dimension with smart solutions blended with technology developed in our field of activity. The systems developed and put into use in this field bring together all public institutions under a digital umbrella, from the police and gendarmerie units that keep the pulse of the cities, to the rescue teams that heals the wounds in natural disasters, from the health workers who save lives, to the officials in the fields of transportation and energy.

Public Security Communication and Information Technology Systems, which keep information security at the highest level with unique encryption algorithms and operate uninterruptedly 24/7 even in natural disasters and extraordinary situations, offer an uninterrupted, secure and reliable communication infrastructure in crowded metropolises thanks to 5G broadband infrastructure and in the remotest corners of our country with its wide coverage area in narrow band. Thanks to tactical cloud systems and various communication applications developed on it, all of the capabilities obtained are provided to users in the form of mobile solutions to be used in the desired region.





INTEGRATED PUBLIC SAFETY COMMUNICATION SYSTEMS

Within the scope of this field of activity, secure and reliable 24/7 communication is ensured between law enforcement forces, military, gendarmerie, police, emergency search and rescue and response teams, as well as units such as transportation, maritime navigation, fire brigade, health services and municipal services. Technologies such as data analysis, geographic information systems and digital monitoring enable timely and on-site response to incidents. Equipped with reliable network infrastructures, cryptography and cyber security measures, mission-critical communication systems play an important role in maintaining social order by integrating technology and communication. State-of-the-art system solutions are created in frequency bands and communication protocols varying according to the needs of the user's coverage area, data rate and number of users, and turnkey applications are offered to users by including system management capability.



ASTELA 3721

MISSION CRITICAL MOBILE RADIOS



JEMUS

THE GENDARMERIE INTEGRATED
COMMUNICATION AND INFORMATION
SYSTEM



KETUM

ENCRYPTED POLICE RADIO AND
COMMUNICATIONS SYSTEM

PUBLIC SAFETY AND MISSION-CRITICAL COMMUNICATION SYSTEMS

Within the scope of these systems, JEMUS (Gendarmerie Integrated Communication and Information System) and KETUM (Encrypted Security Radio Communication System) systems are being established for the Gendarmerie General Command and the Turkish National Police. In this field, which aims to integrate the elements of the relevant security forces all over Türkiye, indigenous communication systems that are encrypted, resistant to natural disasters and operational 24/7 are being established for law enforcement agencies. In public security and mission-critical communication systems consisting of handheld/vehicle/fixed radios, stations that integrate these radios with each other and centers where the entire network is managed, the units integrated into floating and flying platforms eliminate the limits in terms of coverage area.



ASTELA 3725
MISSION CRITICAL MOBILE RADIOS



ASTELA 3711
MISSION CRITICAL
HANDHELD RADIO



HYBRA 3815
MISSION CRITICAL HYBRID
HANDHELD RADIO



EXTENDAS 3791
VHF INDOOR REPEATER

MOBILE BROADBAND COMMUNICATION, CYBER SECURITY AND INFORMATION TECHNOLOGIES

This area, where new generation communication systems, cyber security solutions and technologies for processing information are developed, focuses on reliable and sustainable solutions for military elements at tactical and strategic levels, public institutions and the private sector.

In line with the needs of the future, artificial intelligence, big data analytics, the internet of things, block chains, cloud infrastructures, mission-critical software and advanced cyber security technologies are used to protect critical infrastructures and ensure the security of the digital society.



ASNOVA 100 E
TACTICAL CLOUD



aseISWITCH IndS
INDUSTRIAL TYPE ETHERNET
SWITCH DEVICES



SAHAB 1D
ONE-WAY DATA DIODE SYSTEM



02 MILITARY COMMUNICATION AND INFORMATION TECHNOLOGIES

Communication Systems and Information Technologies offer comprehensive communication solutions at the tactical, operational, and strategic levels for modern armies operating on land, air, and naval platforms. For over 50 years, ASELSAN has been developing secure, resilient, and flexible communication technologies tailored to meet the demanding requirements of the tactical field — a legacy now embodied in integrated and indigenous systems such as TURAN. All of our products and systems have proven themselves under real combat conditions.

Within this domain, we develop secure waveform architectures resistant to electronic warfare, custom cryptographic frameworks, and advanced algorithms resistant to quantum-level threats. These technologies ensure highly secure and reliable communication networks for users.

In addition to narrowband and wideband network-based data services compatible with C4ISR architectures, the systems provide low-latency data services for air defense applications and flexible voice and data services for unmanned platforms in GNSS-denied environments.

With artificial intelligence and big data analytics, our edge-computing-based solutions offer uninterrupted communication independent of the transmission channel, along with user-friendly communication applications. Network-centric architectures also enable remote access, over-the-air provisioning, and key management, meeting the high operational readiness levels required by the tactical field.





MILITARY LAND COMMUNICATION SYSTEMS

Unique solutions utilizing game-changing technologies are provided to address the seamless and secure voice and data transmission requirements of domestic and international end users at tactical, operational, and strategic levels across land platforms, fixed/mobile command posts, and dismounted units.

Considering the operational concepts of end users, our flexible solution portfolio can be configured/integrated into portable, deployable and vehicular platforms (sheltered, armoured) for mobile needs, as well as fixed base stations at operational/strategic level.



TASMUS
TACTICAL AREA
COMMUNICATION SYSTEM



ARTCom 9661 V/UHF
GROUND RADIO FAMILY



TASMUS TARAS
DEPLOYABLE RADIO LINK
COMMUNICATIONS SYSTEM

MILITARY NAVAL COMMUNICATION SYSTEMS

Naval Military Communication Systems meet all external and internal communication needs of surface platforms and shore units.

Thanks to their flexible and modular structure, a comprehensive communication components is provided over the main control units for surface and underwater platforms. These platforms can be customized in terms of size and mission; and reliable and uninterrupted communication is ensured by modular solutions installed on platforms tailored to environmental conditions and operational needs.

With integrated communication systems that include the software-based Naval Radio Family supporting NATO standard waveforms and Identification of Friend or Foe Systems, a force multiplier capability is offered in joint operations.



GEMS-100M

INTEGRATED NAVAL
COMMUNICATION SYSTEMS



ARTCom 9671 HF 1000-MG

SRC 9671 HF NAVAL/FIXED STATION
RADIO FAMILY



ARTCom 9671 V/UHF 150-MG

SRC 9671 HF NAVAL/FIXED STATION
RADIO FAMILY



ARTCom 9671 VLF RX-MG

SRC 9671 HF NAVAL/FIXED
STATION RADIO FAMILY

MILITARY AIRBORNE COMMUNICATION SYSTEMS

Military Airborne Communication Systems provide secure and uninterrupted communication between all fixed/rotary-wing, manned/unmanned airborne platforms and flight control towers.

Developed in compliance with airworthiness criteria, avionics standards and civilian air traffic control regulations, EW-resistant V/UHF and HF radio family, communication relay systems, fixed and mobile communication tower systems, fighter aircraft integrated communication, navigation, identification systems and military airborne communication solutions are being operated successfully without interruption.



ARTCom 9681 V/UHF-A
AIRBORNE RADIO



ARTCom 9681 HF-A
AIRBORNE RADIO



ARTCom 810
MINI AIRBORNE RADIO

DATA LINK SYSTEMS

Data Link Systems provide secure, continuous and electronic warfare resistant communication between manned/unmanned platforms and between platforms/missiles and ground control stations, eliminating dependency and strengthening our global competitiveness.

The Tactical Data Link product family, which provides exchange of encrypted tactical data with low latency, the Intelligence, Surveillance and Reconnaissance Data Link product family which provides high speed, low latency transmission of sensor and control data between platforms and the Missile Data Link product family, which provides transmission of current target information to missiles, are successfully used in national platforms and missiles.



GÜDÜ 200-MG
DATA LINK SYSTEM



T-Link A
TERMINAL NETWORK SYSTEM



T-Link C
TERMINAL NETWORK SYSTEM

03 SATELLITE, SPACE AND IDENTIFICATION SYSTEMS

Our activities in the field of satellite, space and identification system, which will meet the future needs of defense and communication, are carried out with the aim of increasing national capacity, reducing foreign dependency, and strengthening global competitiveness. With the scope, our work includes:

- Communication systems in GEO (Geostationary) LEO (Low Earth) orbits,
- Satellite-based navigation solutions,
- Intelligence surveillance, and reconnaissance capabilities from space.

These efforts are shaped around critical Technologies, which are developed using national and indigenous resources. In this context, our competencies are deepened through the development of satellite payloads and ground terminals, while encrypted and secure communication infrastructures ensure the highest level of information security.

This vision is not limited to space platforms only; it is also complemented by Identification Friend or Foe (IFF) systems. IFF solutions, developed in modular and suit structures in line with the needs of modern battlefields, can be integrated into air, land and sea platforms

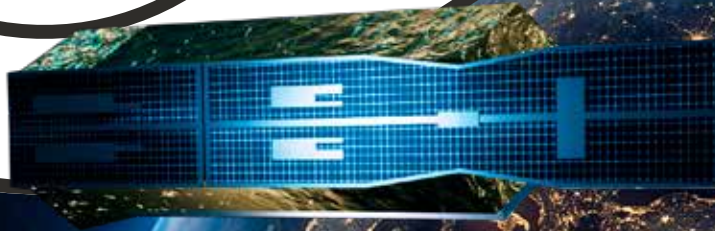




SATELLITE AND SPACE SYSTEMS

The work in the field of Satellite and Space Systems is carried out based on defined roadmaps, considering the needs of our country and evaluating technological developments worldwide. Our activities in the field of Satellite and Space Technologies are carried out in three main areas: Communication (GEO- Geostationary Orbit and LEO- Low Earth Orbit), Satellite-Based Navigation, and Space-based Intelligence, Surveillance, and Reconnaissance.

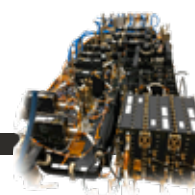
In this context, ASELSAN's strategy for satellite and space technologies is to develop its competencies in such a way that it can produce the best-performing products at every level, from systems to equipment, with unique and innovative solutions, and to create exportable products that can compete globally



LOCUS XBTx
ADAPTIVE X-BAND
TRANSMITTER



LOCUS LEOKa
LEO Ku-BAND COMMUNICATION
PAYLOAD



LOCUS GEOKu-100
KU-BAND COMMUNICATION
SATELLITE PAYLOAD

IDENTIFICATION SYSTEMS

Activities in the field of Identification Systems, which enable the accurate and rapid identification of friendly units, are carried out in accordance with NATO and EUROCONTROL standards.

IFF based surveillance system solutions that can operate in encrypted and non-encrypted interrogation modes can be provided.

ASELSAN, with its own crypto solutions, is one of the few companies in the world operating in this field and can offer full-scale, original, national and innovative integrated Identification System solutions on air, land and sea platforms.



IDENTIFY TP-100
IFF MODE 5/S TRANSPONDER



IDENTIFY CIT-500
IFF MODE 5/S COMBINED
INTERROGATOR/TRANSPONDER



IDENTIFY BTID-900
BATTLEFIELD TARGET
IDENTIFICATION DEVICE

SATELLITE COMMUNICATION SYSTEMS

Satellite-based communication solutions eliminate line-of-sight limitations and ensure uninterrupted and secure communication in mission-critical environments. These systems stand out with their mobility, adaptability across various platforms, compact and portable design, ability to deliver sustainable, secure and reliable communication—delivering high performance under all operational conditions.

Effectively deployed on air, land, and sea platforms, they enable the secure transmission of data collected from both manned and unmanned systems to strategic command centers. Offering an integrated structure across different operational units, these solutions support cross-platform interoperability and provide a flexible communication infrastructure that can be centrally managed.



AcroSAT Ku180/FA
SATELLITE COMMUNICATION SYSTEMS

AcroSAT X180-FA
SATELLITE COMMUNICATION SYSTEMS



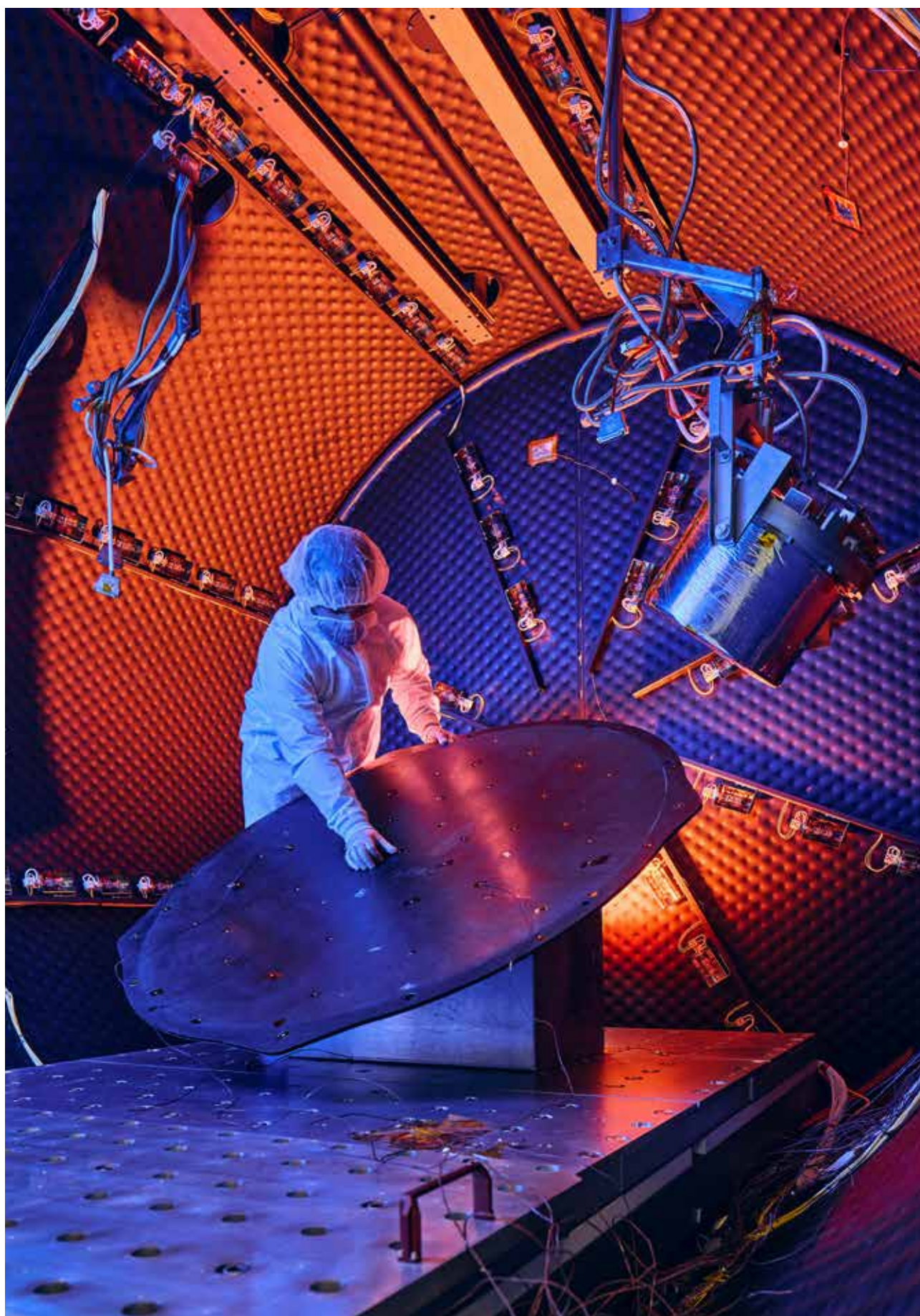
AcroSAT X60-0M
SATCOM ON THE MOVE VEHICULAR
SATELLITE COMMUNICATION TERMINAL



AcroSAT Ku53-A
AIRBORNE SATCOM TERMINALS



AcroSAT X150-M
SHIPBORNE SATELLITE
COMMUNICATION TERMINALS



TRANSPORTATION, SECURITY, ENERGY, AUTOMATION, AND HEALTHCARE SYSTEMS

UGES (Transportation, Security, Energy, Automation, and Healthcare Systems) Business Sector continues its activities with the aim of transforming ASELSAN's advanced technology, expertise, and qualified human resources, which it has gained in the defense industry, into benefits for our country's civilian technology sectors.

The UGES Business Sector ensures sustainable growth through industrial products that design the future and develops solutions that meet global standards with advanced technology. It carries out activities in the fields of transportation, security, energy, and healthcare, including technology, hardware, software, product and system development, manufacturing, domestic and international sales, and after-sales support. It aims to be a leading solution provider with innovative, environmentally friendly, and energy-efficient systems and products in these areas.





SECURITY SYSTEM TECHNOLOGIES

- Public Security Systems
- Homeland Security Systems
- Facility Security Systems



TRANSPORTATION AND ENERGY SYSTEM TECHNOLOGIES

- Intelligent Transportation and Warning & Alarm Systems
- Electric/Hybrid Traction Systems
- Railway Systems
- SCADA and Energy Systems



HEALTHCARE SYSTEM TECHNOLOGIES

- Medical Imaging Systems
- Life Support and Diagnostic Systems



01 SECURITY SYSTEM TECHNOLOGIES

In the scope of Security System Technologies;

CityGuard Public Security, RoadGuard Road Security, BorderGuard Border Security, LineGuard Line Security and FacilityGuard Facility Security system solutions consist of the integration of ODAKAN Cameras, KAHİN Video Analytic Systems, GEKO Vehicle Recognition Systems, GEÇİT Passing Control - Biometric Identity Verification Systems, ARIN X-Ray Baggage Scanning Devices, Artificial Intelligence based MIDAS Fiber Optic based Intrusion Detection System, aselZone Early Detection and Warning Systems, AVAZ Long Range Acoustic Systems, GÜKAS and MÜGAS Mobile Surveillance Systems to the MİRSAD Physical Security Information Management System and KAYIN VMS Software.

- Public Security Systems
- Homeland Security Systems
- Facility Security Systems





PUBLIC SECURITY SYSTEMS

Artificial intelligence and deep learning based high-tech imaging and recording systems for ensuring public safety, detecting suspicious vehicles/people, and preventing illegal events. With the use of high-resolution artificial intelligence supported smart cameras, the needs preventing terrorism and maintaining public order are met quickly and effectively.

CityGuard Public Security System and RoadGuard Road Security System consist of components such as AI based smart cameras, vehicle recognition system, face detection cameras, body-worn cameras, thermal cameras, video analysis systems and video management software.



GEKO

VEHICLE AND PLATE RECOGNITION
SYSTEM



ROADGUARD 100
ROAD SECURITY SYSTEM



ODAKAN
CAMERAS

HOMELAND SECURITY SYSTEMS

Within the scope of Homeland Security Systems; integrated electronic security systems tailored to specific needs are provided to operational bases for enhancing the area of dominance of the units responsible for counter-terrorism and border security, along with ensuring the security of borders, petroleum, natural gas pipelines and electricity transmission lines. With the Physical Security Information Management Software MIRSAD enabling the detection and identification of threats as well as the use of the systems for intervention when necessary. The field of Homeland Security Systems includes MIDAS Fiber Optic-Based Intrusion Detection System, GÜKAS and MÜGAS Mobile Surveillance Systems, aselZone Early Detection and Warning Systems and AVAZ Long Range Acoustic Systems that have user experience-driven and development-friendly artificial intelligence-based solutions. ASELSAN provides competitive international alternatives with BorderGuard and LineGuard system solutions in this field.



BORDERGUARD
BORDER SECURITY SYSTEM



AVAZ 400
LONG RANGE ACOUSTIC SYSTEMS



aselZone SİSMİK
SEISMIC EARLY WARNING SYSTEMS



MIDAS
FIBER OPTIC BASED INTRUSION
DETECTION SYSTEM

FACILITY SECURITY SYSTEMS

In the field of ASELSAN Facility Security Systems, critical high-tech products such as cameras, recording devices, video analysis systems, X-ray baggage scanning devices, and access control systems are being developed to ensure end-to-end security of a facility. System solutions are created and installations are performed according to the specific needs.

FacilityGuard - Facility Security Systems have been developed to continuously detect, diagnose and track threats through an integrated security management software, where various ASELSAN products and all sensors work together, as needed in critical facilities. Providing effective and integrated security management, FacilityGuard offers an end-to-end high-security system solution with various products and software, all developed by ASELSAN.



ARA
VEHICLE RISK
ANALYSIS SYSTEM



ODAKAN YAKA
BODY WORN CAMERA



ODAKAN UMA 8T5
LONG RANGE DAY-TV
& UNCOOLED THERMAL CAMERA



ARIN X100D
X-RAY BAGGAGE SCANNING
SYSTEM



02 TRANSPORTATION AND ENERGY SYSTEM TECHNOLOGIES

In the main business domain of Transportation and Energy Systems:

In the scope of Intelligent Transportation and Warning & Alarm Systems, the following systems are being developed and offered to users:

- Toll Collection Systems
- High-Speed Weight Measurement and Inspection System (HSWIM)
- Electronic Supervision Systems
- Warning and Alarm Siren Systems
- AI-supported Preventive/Predictive Maintenance Center Monitoring & Management Systems

In the scope of Railway Systems, the following systems are being developed:

- Train Control and Management Systems
- Onboard and Trackside Signaling Systems for Metro, Tram, and Mainline trains and locomotives
- Traction Motors and Driver Units
- Electric/Hybrid Traction Systems, including Military Vehicle Traction Systems and electric motors for various platforms, primarily focusing on propulsion and traction systems.

With ASELSAN's power electronics design, development, and testing infrastructure, solutions for various needs can be developed, even up to power levels of 7.5 Megawatts.

In the scope of SCADA and Energy Systems, software and hardware development are ongoing for managing energy production, transmission, and distribution processes, as well as data center design and system integration. SCADA (Supervisory Control and Data Acquisition) Systems collect real-time data from transmission lines and systems, particularly in oil and natural gas pipelines, and provide object-oriented solutions to meet the user's control and analysis needs, all from a single center.

- Intelligent Transportation and Warning & Alarm Systems
- Railway Systems
- Electric/Hybrid Traction Systems
- SCADA and Energy Systems





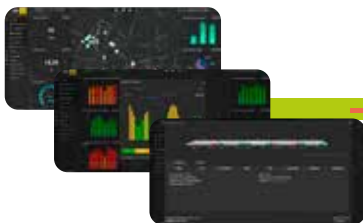
INTELLIGENT TRANSPORTATION AND WARNING & ALARM SYSTEMS

INTELLIGENT TRANSPORTATION SYSTEMS

With over 30 years of experience in Toll Collection Systems (aseiTOLL), ASELSAN supports the full range of toll collection operations on highways through technologies such as License Plate Recognition Systems and the Next-Generation Single Gantry Multi-Lane Free-Flow System. In the area of Electronic Enforcement Systems (aseiFLOW), ASELSAN leverages artificial intelligence and big data technologies to enhance road safety, including vehicle detection, classification, and high-speed weight measurement systems. Through Uruk Central Monitoring and Management System, ASELSAN offers decision support services, which include AI-powered predictive maintenance, real-time monitoring, workflow creation, and reporting. These services establish alarm and warning mechanisms to anticipate faults before they occur. Uruk supports processes of defense, railway systems, transportation, energy, and healthcare.



aseiTOLL
TOLL COLLECTION SYSTEMS



URUK
MONITORING AND
MANAGEMENT SOFTWARE



UIB
URUK MONITORING UNIT



aseiFLOW HSWIM
HIGH-SPEED VEHICLE DETECTION
AND WEIGH IN MOTION SYSTEM

WARNING & ALARM SYSTEMS

a-WARN İKAS Warning and Alarm Siren System is designed to promptly alert individuals in the event of disasters, emergencies, and civil defense situations that pose a threat to life and property. The system's primary objective is to ensure the rapid dissemination of alerts to individuals under such circumstances.

Developed and manufactured by ASELSAN, a-WARN İKAS can be managed from one or more central locations, enhancing situational awareness through a range of warning sounds, pre-recorded messages, or live announcements.



a-WARN İKAS
PUBLIC ALERT AND
WARNING SIREN SYSTEM



a-WARN İKAS

ELECTRIC/HYBRID TRACTION SYSTEMS

ASELSAN develops electric/hybrid or axle-integrated system architectures for various military vehicles, such as 6x6 and 8x8 platforms. These solutions include propulsion/traction and control systems, power distribution systems or cooling systems that a platform requires.

Based on these architectures, ASELSAN designs and develops key components, including electric motors, drivers, power distribution units, DC/DC converters, switchboard, driver display panels, vehicle, torque and charge control units.



eTRAC MIL WHEEL
MILITARY HYBRID TRACTION
SYSTEM SOLUTION



eTRAC
MOTOR CONTROL UNIT FOR HYBRID/
ELECTRIC VEHICLE APPLICATIONS

RAILWAY SYSTEMS

ASELSAN develops aselRAIL solutions for railway vehicle technologies. CESUR® product family, traction motors, traction control units, auxiliary power units, battery systems, and train control management systems, has been designed and produced using local resources. COBaLT CITYLINE, a member of the COBaLT signaling system product family, is serving Türkiye with products that comply with international standards and are certified. With these systems, the next-generation National Electric Trains and Locomotives will become safer and more efficient in freight and passenger transportation. This will add another system solution to those provided by ASELSAN's aselRail Traction and Train Control Management Systems for the National Electric Train and National Electric High-Speed Train.



**COBaLT
CITYLINE**
METRO SIGNALING SYSTEM



COBaLT ONBOARD
ERTMS/ETCS LEVEL-1 & LEVEL-2
ONBOARD TRAIN PROTECTION
SYSTEM



aselRAIL
TRACTION SYSTEM/
TRACTION MOTOR

SCADA AND ENERGY SYSTEMS

ASELSAN continues its work on software and hardware development, data center design, and system integration for the management of energy production, transmission, and distribution processes, primarily focusing on SCADA (Supervisory Control and Data Acquisition) through GridMENTOR.

Using real-time data obtained from the ARTU (Advanced Remote Terminal Unit), information flow is provided to the user from a single center, allowing for system control and monitoring.



ARTU
ADVANCED REMOTE TERMINAL UNIT



GridMENTOR
SCADA SYSTEM



03 HEALTHCARE SYSTEM TECHNOLOGIES

ASELSAN aims to provide effective solutions to meet the industry's needs by developing innovative products in the field of Healthcare System Technologies. Operating in critical areas such as Medical Imaging, Life Support and Diagnostic Systems, ASELSAN leverages its advanced engineering capabilities and strong production infrastructure to develop globally competitive products.

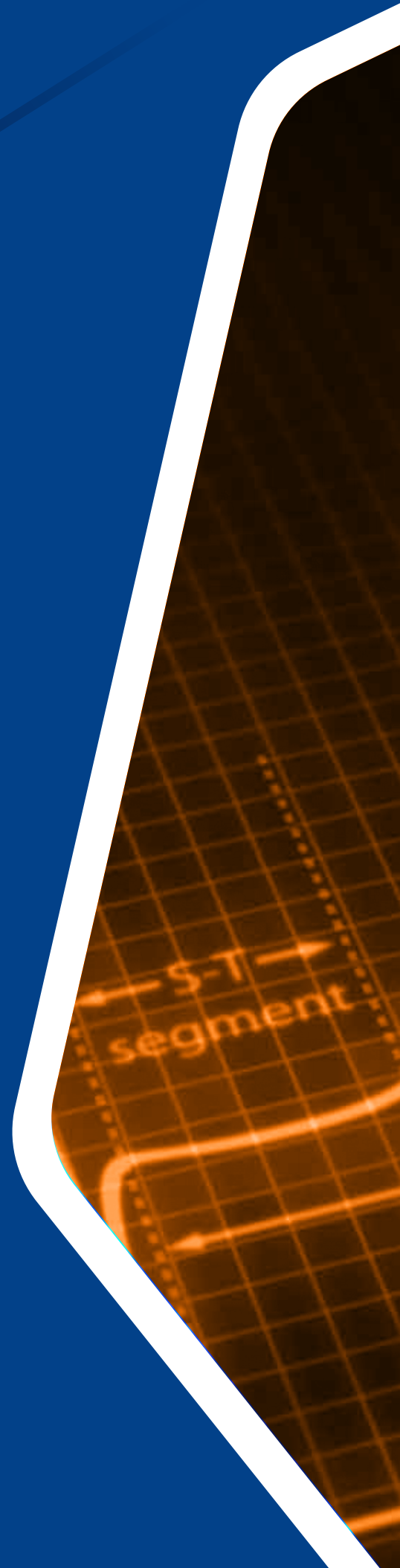
In Medical Imaging, ASELSAN offers portable and efficient solutions with mobile X-ray technologies. In the short term, the company plans to integrate AI-Powered diagnostic analysis technologies into its products, enhancing the efficiency of diagnostic processes.

In Life Support and Diagnostic Systems, ASELSAN strengthens healthcare services with critical devices such as defibrillators and heart-lung machines, while maximizing patient safety through remote monitoring capabilities.

With its domestic manufacturing expertise, ASELSAN supports national healthcare infrastructure while also striving to become a leader in international markets through innovative technologies. The company continues to contribute to the digital transformation of healthcare services with AI-driven advancements and cutting-edge engineering solutions.

CAPABILITIES

- Development of high-tech medical devices
 - Domestic and national production infrastructure
 - Integration of remote monitoring
 - AI-Powered diagnostic and analysis solutions
 - Internationally awarded industrial design
-
- Medical Imaging Systems
 - Life Support and Diagnostic Systems





MEDICAL IMAGING SYSTEMS

HealthView ADR-M100 Motorized Digital Mobile X-Ray System, the first product developed in the healthcare field and launched into mass production in 2024, offers high-resolution digital imaging to support diagnostic processes. By adding artificial intelligence-supported image analysis features to advanced technology healthcare products developed by ASELSAN, it is aimed to accelerate diagnostic processes and increase accuracy. With the Mobile C-Arm Fluoroscopy device, dynamic and real-time imaging is provided in operating rooms, aiming to increase accuracy and effectiveness in surgical interventions. ASELSAN aims to offer innovative solutions with its X-ray and Magnetic Particle Imaging (MPI) product families in the Medical Imaging Systems field. It is aimed to strengthen ASELSAN's innovative position in the sector by offering products with pioneering technologies such as MPI.



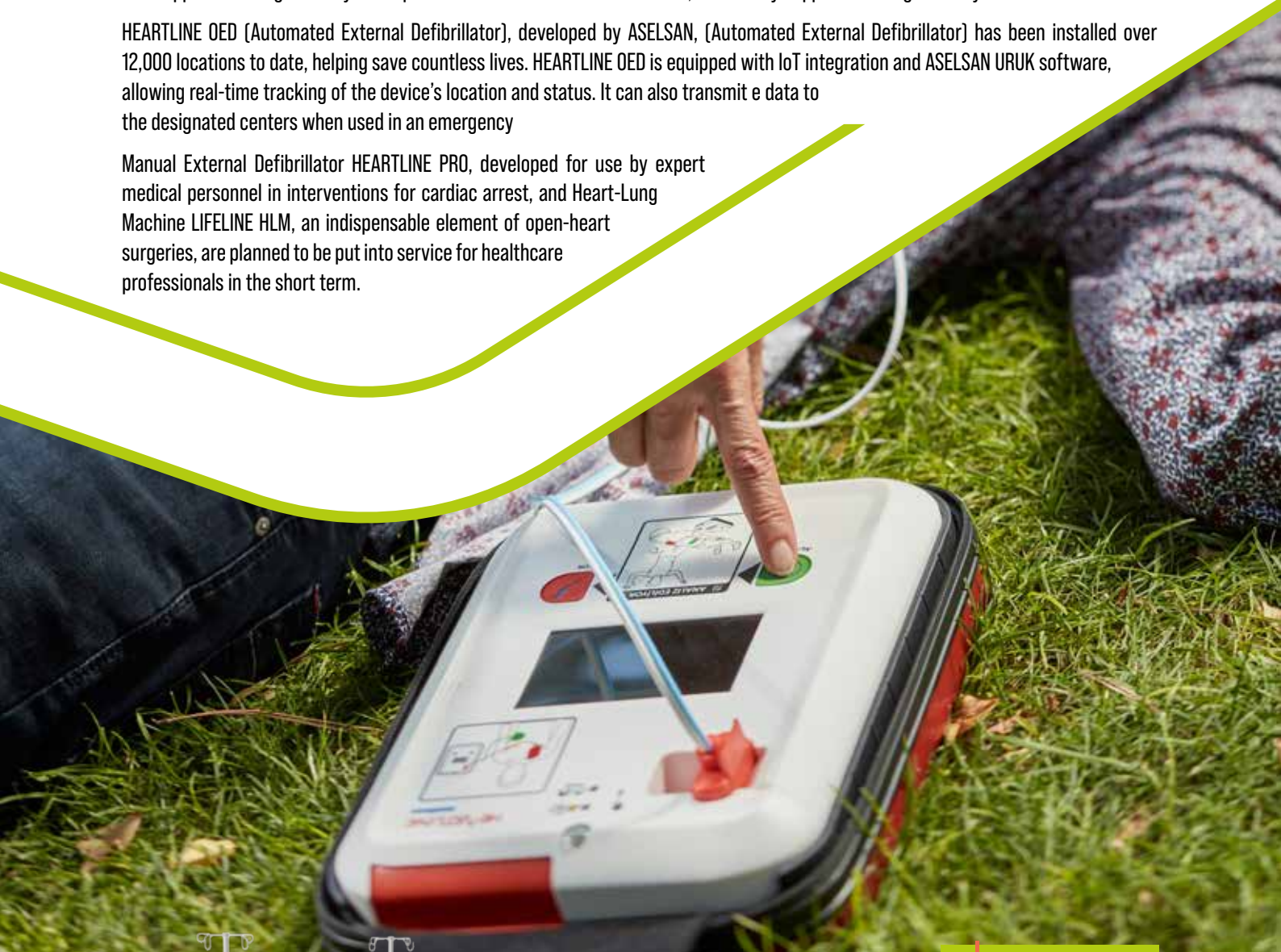
HealthView ADR-M100
MOTORIZED DIGITAL MOBILE X-RAY SYSTEM

LIFE SUPPORT AND DIAGNOSTIC SYSTEMS

Life Support and Diagnostic Systems product families include Defibrillators, Circulatory Support and Diagnostic Systems.

HEARTLINE OED (Automated External Defibrillator), developed by ASELSAN, (Automated External Defibrillator) has been installed over 12,000 locations to date, helping save countless lives. HEARTLINE OED is equipped with IoT integration and ASELSAN URUK software, allowing real-time tracking of the device's location and status. It can also transmit e data to the designated centers when used in an emergency

Manual External Defibrillator HEARTLINE PRO, developed for use by expert medical personnel in interventions for cardiac arrest, and Heart-Lung Machine LIFELINE HLM, an indispensable element of open-heart surgeries, are planned to be put into service for healthcare professionals in the short term.



HEARTLINE OED
AUTOMATED EXTERNAL
DEFIBRILLATOR



LIFELINE HLM
HEART LUNG MACHINE



HEARTLINE PRO
BIPHASIC DEFIBRILLATOR
& MONITOR

aselsan

HEADQUARTERS - MACUNKÖY

Mehmet Akif Ersoy Mah. İstiklal Marşı Cad.
No:16 Yenimahalle, Ankara, Türkiye

www.aselsan.com

U S S | E S S E



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