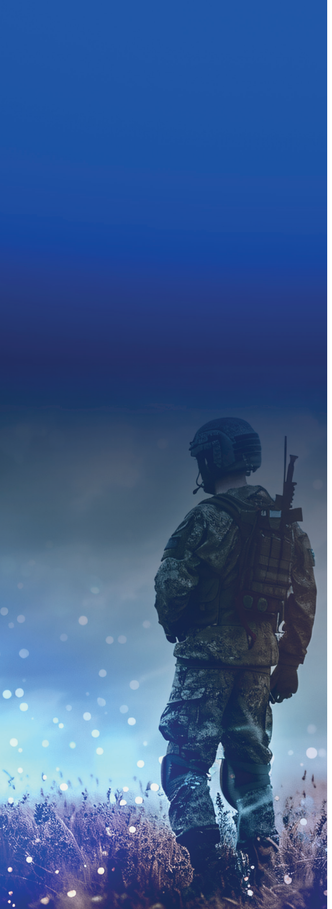
# A Strong Past, **a Secure Future**

The company, which moves forward with a strong vision in the defense industry, adds value to the sector with its reliable and sustainable solutions.

With its determinedly growing structure, it directs the needs of the future from today.

MEDITERRANEAN
DEFENCE
TECHNOLOGY



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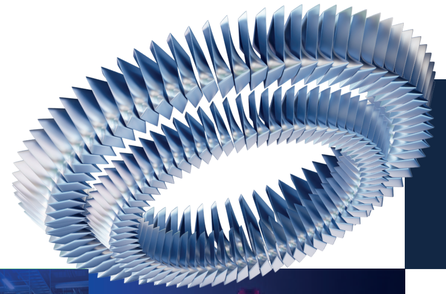
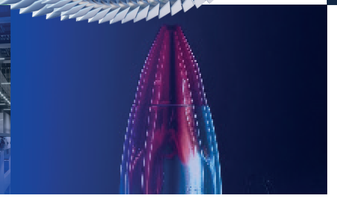


Part 1

Part 2



Part 3

Part 4

# ABOUT US

Mediterranean Defence Technology was established on May 1, 2025, as a strong and visionary step in the defense industry.

Our fields of activity include technology transfer (Ammunition and Weapon Production Line Setup), technical assistance, consultancy, and training services.

With a management team and staff that bring over 30 years of experience and expertise, our company has successfully led numerous domestic and international projects in both Turkey and abroad, contributing to the establishment of dozens of production lines.

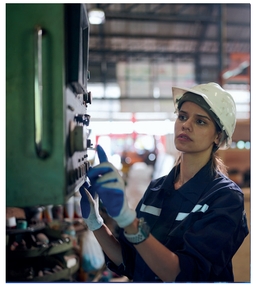
Mediterranean Defence Technology possesses comprehensive knowledge and capabilities to address all types of needs in the defense sector. In addition to technology transfers, we provide consultancy and training services in the following areas:

- Product qualification
- Production line design and production line qualification
- ISO 17025 testing, analysis, and calibration
- Corporate risk management
- Supply chain management
- Change and transformation for institutional development

At the same time, our company aims to grow through strategic partnerships and to offer technology-based solutions. We work in strong synergy with many domestic and international companies that manufacture machinery and equipment for production lines.

Currently, our company is actively involved in production line installation projects across different regions.



# VISION

To make a difference in the defense industry by delivering technological and sustainable solutions in cooperation with friendly and allied nations, both nationally and internationally.

# AMMUNITION
# PRODUCTION LINES

Ammunition production lines can be established in requested calibers for companies operating in the defense industry and military factories. We are at your service with first-class materials and high-tech machinery.

## Turnkey Ammunition Factories & Production Lines

We design, manufacture, and install production lines for the calibers listed below. We also provide customized line supply and integration solutions for existing facilities.

| | | | |
|---|---|---|---|
| 5.56mmx45 | 7.62mmx39 | 7.62mmx51 | 7.62mmx54 |
| 9mmx19 | 12.7mmx99 | 12.7mmx108 | 14.5mm x114 |
| 23mmx152 | 30mmx165 | | |

## Machinery Manufacturers Within Our Ecosystem

ARAZ machines for machines
MEXUS GROUP
YILMAZ MAKINA
HIDROTIM DEFENCE
TIM WOLKE
YETER MAKINA MACHINES MADE SPECIAL

## TECHNICAL ASSISTANCE

### Establishment of Production and Planning System

It involves the design, implementation, and operation of all processes, tools, and methods required for a company to produce its products efficiently and on time.

The goal is to reduce costs, shorten delivery times, and increase customer satisfaction.

### Establishment of Maintenance and Repair System

This system entails the systematic design and implementation of the necessary processes, procedures, and tools for regularly inspecting, maintaining, and repairing machinery, equipment, and facilities within a company.

The goal is to minimize production interruptions, extend equipment life, reduce safety risks, and optimize maintenance costs.

### Establishment of Quality Assurance System

A set of processes, procedures, and activities designed to ensure that the provided services and produced outputs meet specific standards, expectations, and requirements.

The goal is to achieve continuous improvement and minimize errors.

### Establishment of Occupational Health, Safety and Environmental Management System

Covers all processes aimed at ensuring the health and safety of employees in the workplace. This includes risk assessment, awareness, documentation, emergency preparedness, periodic inspections and maintenance, and accident/incident investigation.

The environmental management system includes environmental impact assessment, waste management, energy and resource efficiency, legal compliance, documentation, and environmental awareness.

## Other Ecosystem Solution Partners

ERBAB OTOMAT YEDEK PARÇA SAN. TİC. LTD. ŞTİ.
TMI
MAKAM GRUP

# CONSULTANCY AND TRAINING SERVICES



## CONSULTANCY AND TRAINING SERVICES

- ENHANCING CORPORATE COMPETENCY
- STRATEGIC PLANNING AND PERFORMANCE MANAGEMENT
- CORPORATE RISK MANAGEMENT
- CORPORATE CHANGE MANAGEMENT
- QUALITY MANAGEMENT AND BUSINESS PROCESS OPTIMIZATION
- SUPPLY CHAIN MANAGEMENT
- LEAN MANUFACTURING TECHNIQUES
- PRODUCT OR PRODUCTION LINE QUALIFICATION

# Consultancy and TRAINING SERVICE

## ENHANCING CORPORATE COMPETENCY

Through the training and consultancy services offered under the theme of "Enhancing Corporate Competency," organizations are supported in strengthening the fundamental building blocks necessary to reach their strategic goals more effectively, efficiently, and sustainably.
By analyzing internal dynamics and evaluating existing competencies, organizations are enabled to focus on areas open to development and enhance their overall capacity.

Methods that help organizations reach their goals more effectively and sustainably are identified, with improvements achieved in the following areas:

- Increased Efficiency and Effectiveness
- Strengthening Competitive Advantage
- Enhancing Employee Performance and Motivation
- Improving Customer Satisfaction
- Ensuring Sustainability and Long-Term Success
- Strengthening Corporate Reputation and Credibility



## STRATEGIC PLANNING AND PERFORMANCE MANAGEMENT

The consultancy services offered in the field of "Strategic Planning and Performance Management" aim to guide organizations in defining their strategic direction, monitoring and managing their performance effectively, and transforming the entire organization into a goal-oriented structure to ensure sustainable success.

Within this scope, the following competencies are improved:

- Defining Strategic Direction
- Establishing a Goal-Oriented Approach
- Efficient Use of Resources
- Making Performance Measurable
- Strengthening Decision-Making Processes
- Internalizing a Continuous Improvement Approach
- Establishing Corporate Accountability and Transparency

## CORPORATE RISK MANAGEMENT

The training and consultancy services under "Corporate Risk Management" support organizations in proactively identifying, analyzing, and managing current and potential risks that may hinder the achievement of objectives by establishing a systematic structure. This consultancy aims to enable organizations to gain a resilient, sustainable, and reliable structure by controlling uncertainties.

*Within this scope, competencies are enhanced in:*

- Increasing Risk Awareness
- Identifying Strategic and Operational Risks
- Identifying Financial and Compliance Risks
- Establishing a Corporate Risk Management System (CRMS)
- Strengthening Decision-Making Processes
- Developing Crisis Resilience
- Ensuring Legal Compliance and Protecting Reputation
- Safeguarding Sustainability and Corporate Value

## CORPORATE CHANGE MANAGEMENT

Training and consultancy services in "Corporate Change Management" help organizations manage change processes—such as strategic transformation, digitalization, restructuring, and mergers/acquisitions—through a planned, controlled, and human-centered approach. The goal is to ensure internal adoption of change, seamless implementation, and sustainable success.

*Within this scope, organizations enhance competencies in:*

- Building Readiness and Awareness for Change
- Analyzing Organizational Culture and Resistance Points
- Achieving Structural and Operational Alignment
- Embracing Human-Centered Change Management
- Preventing Performance and Productivity Loss
- Ensuring Sustainable Change

## SUPPLY CHAIN MANAGEMENT

The training and consultancy services provided in the area of "Supply Chain Management" aim to make all supply chain processes—from procurement to production, warehousing to distribution—integrated, efficient, sustainable, and competitive. These services aim to help organizations reduce costs, enhance operational efficiency, and respond quickly, accurately, and with quality to customer demands.

*Within this scope, competencies are developed in:*

- Achieving End-to-End Visibility Across the Supply Chain
- Reducing Costs and Increasing Profitability
- Improving Supplier Performance
- Enhancing Inventory and Stock Management
- Optimizing Demand and Production Planning
- Streamlining Logistics and Distribution Processes

## QUALITY MANAGEMENT AND BUSINESS PROCESS OPTIMIZATION

Through training and consultancy services in "Quality Management and Business Process Optimization," organizations aim to continuously improve the quality of products, services, and processes, increase efficiency, ensure customer satisfaction, and boost competitiveness.

With these services, institutions analyze and improve business processes using a systematic approach and utilize their resources more effectively.

*Within this scope, organizations enhance competencies in:*

- Establishing a Quality-Oriented Corporate Structure
- Analyzing and Improving Current Processes
- Ensuring Compliance with Quality Management Standards (preferably ISO 9001, AS 9100, AQAP 2110, AQAP 2310, etc.)
- Adhering to Legal Regulations Requiring Management Standards
- Increasing Customer Satisfaction
- Improving Performance and Efficiency
- Developing a Culture of Continuous Improvement

## LEAN MANUFACTURING TECHNIQUES

Training and consultancy services in “Lean Manufacturing Techniques” enable organizations to eliminate waste in production processes, improve efficiency, reduce costs, enhance quality, and establish a lean production system capable of responding to customer demands swiftly and flexibly.

Organizations analyze their current production structure, distinguish value-adding and non-value-adding activities, streamline processes, and cultivate a culture of continuous improvement.

*Within this scope, competencies are improved in:*

- Identifying and Eliminating Waste
- Streamlining Production Processes and Developing Standard Work Practices
- Implementing Push and Pull Systems
- Deploying 5S, FOD, and Visual Factory Practices
- Defining Methods to Promote Employee Engagement and Development
- Increasing Customer Satisfaction and Delivery Performance

Additionally, the aim is to improve service quality, shorten delivery times, and reduce costs by eliminating all forms of non-value-added waste. Lean thinking promotes not only cost reduction but also maximizing customer value and continuous improvement.

## PRODUCT OR PRODUCTION LINE QUALIFICATION

Through training and consultancy services in “Product or Production Line Qualification,” methods are established to validate that a product or production line operates and/or is produced in compliance with defined quality, safety, regulatory, and performance criteria, and to ensure the sustainability of such systems.

These services aim to ensure the reliability of production and products, particularly in regulated sectors such as defense and aerospace.

*Within this scope, organizations strengthen competencies in:*

- Meeting Product Requirements
- Ensuring Compliance with Laws and Regulations
- Demonstrating Validity of Product and Production Processes
- Reducing Risks and Ensuring Process Reliability
- Controlling Factors That Impact Production
- Preparing Verification and Qualification Documentation

Our consultancy and training services also offer approaches aligned with the AS 9145 Advanced Product Quality Planning (APQP) standard, especially relevant in the space, defense, and aerospace sectors.

# SOLUTIONS



OUR STRATEGIC SOLUTION PARTNER

## UNITED GROUP
**TEKNOLOJİ ANONİM ŞİRKETİ**

### SOLUTIONS

- QN-202
- GAM-100LR
- GAM-102LR
- Guidance Kit

# MULTI-PURPOSE MINI-MISSILE GUIDED WEAPON SYSTEM

QN-202 Multi-purpose Mini-missile Guided Weapon System is a low-lux TV imaging homing guided precision weapon system, which can be carried and operated by individual soldier and have the "lock on before launch, fire and forget" capability. It is mainly used against light armored vehicle, manpower and firing post. It is suitable for anti-terrorism operation, urban street combat and guerrilla warfare.

# QN 202

## FEATURES AND BENEFITS

### Light weight and portable

QN-202 enjoys an 40mm missile diameter and the weight of the weapon system is no greater than 5 kg, making it possible for an operator to carry 6 rounds of QN-202 at a time, especially suitable for individual combat in complex environment such as cities and mountains.

### Perfect in concealment and survivability

Thanks to the features of low light, low sound, low smoke, and low recoil, it supports to fire in standing position, kneeling position and sitting position, and this results in increased combat survivability and concealment.

### Multi-purpose warhead against various targets

the multi-purpose high explosive fragmentation warhead, with armor penetration and fragment killing capabilities, can e ectively counter manpower, light armored vehicle and firing post. In emergency circumstances, it is even possible to hit a low-speed and low altitude helicopter.

### Platform adaptability

Apart from infantry shoulder-firing, the command and launch unit system can be adapted to various platforms, including rotary UAV, and unmanned vehicle and other platforms. and low altitude helicopter.



## TECHNICAL DESCRIPTION

| Weight | | Dimensions | |
|---|---|---|---|
| Round | CLU | Missile diameter | Missile lenght |
| ≤ 2.5 kg | ≤ 2 kg | Φ 40mm | ≤ 650mm |

| Power | Preparation Time | Effective kill radius |
|---|---|---|
| 90% penetration rate on 60mm RHA target | ≤ 15s (marching to combat readiness) | ≥ 10 m |

| Average Hit Probability | Guidance | Effective Range |
|---|---|---|
| ≥ 80% for static or moving target (for typical targets (6.5m×2.3m×2.3m) with the speed ≤ 80km/h within 400m-2000m) | Low-light TV imaging homing guidance option:IR imaging homing guidance/semi-active laser homing guidance | Max. ≥ 2000m; Min. ≤ 200m (visibility ≥8km, for background contrast ≥ 0.4) |

# MAN-PORTABLE MULTI PURPOSE PRECISION GUIDED MISSILE WEAPON SYSTEM

GAM-100LR anti-tank missile weapon system is a man-portable missile weapon sytem with dual-band passive image homing guidance. It has a maximum effective range of 4 kilometers and is designed to counter the most severe threats from main battle tank, armored vehicle, and fortification. GAM-100LR system is the 4th generation anti-tank missile weapon system. It is an advanced fire-and-forget anti-tank guided missile, with automatic precision guidance and strong anti-jamming capability.

# GAM 100LR

**Lock-on before launch & fire-and-forget**

**Dual-band IR&TV seeker for precision guidance**

**Man-portable & shoulder firing**

**Day & Night operation**

**Direct and arched top attack modes**

**Easy operation and maintenance**

**Attack MBT,APC and etc.**

## TECHNICAL DESCRIPTION

| Weight | | Dimensions | |
|---|---|---|---|
| Missile in Tube | Total Weight | Missile diameter | Missile lenght |
| ≤ 17kg | ≤ 24 kg | 130 mm | ≤ 1,200 mm |

| Missile | Operational Mode |
|---|---|
| Operation Range: Min≤200m; Max≥4km | Lock-on before launch & fire-and-forget |

| Warhead (Optional) | |
|---|---|
| Tandem-Charge HEAT Warhead<br>Penetration Depth ≥900mm RHA+ERA | Anti-structural Tandem Warhead<br>Penetration Depth ≥800mm C40 Concrete wall |

# GAM-100LR

MAN-PORTABLE MULTI PURPOSE PRECISION
GUIDED MISSILE WEAPON SYSTEM



# GAM-102LR

MAN-PORTABLE MULTI PURPOSE PRECISION
GUIDED MISSILE WEAPON SYSTEM

# MAN-PORTABLE MULTI PURPOSE PRECISION GUIDED MISSILE WEAPON SYSTEM

# GAM 102LR

GAM-102LR is the multi-purpose ultra long-range 5th generation missile weapon system of the GAM anti-tank family. It is designed for dismounted infantry as well as for integration on combat vehicles.

Featuring both fire-and-forget and man-in-the-loop operation, network enabled GAM-102LR can also receive third party target coordinates for beyond-line-of-sight firing scenarios.

**Lightweight weapon system, easily crew-portable**

**High hit and kill probabilities against MBTs with (ERA), armored vehicles, defensive structure and firing positions**

**Two firing modes with Man-in-the-Loop allowing retargeting, aim point selection and mission abort:**

- **Lock-on-Before-Launch (LOBL)**
- **Lock-on-After-Launch (LOAL)**

**One munition with a multi-purpose tandem warhead capable of defeating more than 1,000mm of RHA**

**Effective against static and fast moving (80km/h) targets up to 10km+**

**Confined space firing capability**

**Multiple Operation Modes:**

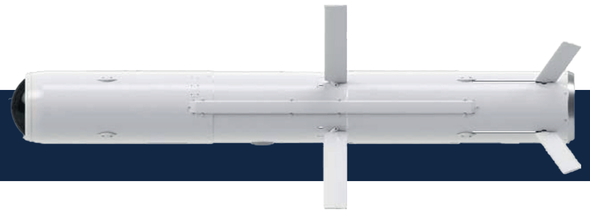
- **Lock-on-Before-Launch (LOBL) & Fire-and-Forget**
- **Man-in-the-Loop Operation & Fire-and-Update**
- **GPS Guidance & Lock-on-After-Launch (LOAL)**
- **Networked operation and coordinated strike**

## Optional Configurations

The GAM-102LR missile system is highly mobile that can be mounted on vehicles, naval vessels, or integrated into remote weapon station.

- Modular architecture for scalable vehicle integration.
- Compatible with armoured vehicles, remote weapon stations, direct firing post adaptation, and naval vessels.

## TECHNICAL DESCRIPTION



| Missile | Warhead (Optional) |
|---|---|
| Operation Range: ≥10km | Tandem-Charge HEAT Warhead Penetration Depth ≥1,000mm RHA |

| Operational Mode | Power |
|---|---|
| LOBL&Fire-and-Forget&LOAL | Rechargeable Battery |

| Avarage Hit Probility |
|---|
| High |

**GAM-102LR – high hit and kill probabilities in all configurations at all ranges and in all weather conditions.**

- Dual-band seeker (uncooled IR and TV channel): uncooled IR seeker allows repeated lock-on to potential targets without consuming resources
- Two-stage main propulsion system (soft launch), optimal for launching from confined space
- Multipurpose tandem warhead, capable of defeating more than 1,000mm of RHA, and all generation ERA
- Advanced image processing for pinpoint guidance accuracy, even against high-speed target at 80km/h
- Direct attack trajectory selectable in anti-infrastructure mode
- High level of day and night reconnaissance and identification capability
- Fire & Update: retargeting, aim point refinement and selection
- Firing on designated target coordinates with accurate flight path due to integrated guidance system
- Top attack trajectories for optimal effect on main battle tanks with ERA
- Highly automated system for minimal operator workload

# TECHNICAL SPECIFICATIONS OF THE GUIDANCE CONTROL SECTION (GCS)

# GUIDANCE KIT

## 1. GENERAL OVERVIEW

- The Guidance Control Section adopts GPS/BD geomagnetic and single-channel control technology to measure the rocket's flight trajectory. When the real-time flight path deviates from the theoretical trajectory, it continuously sends commands to the actuator to adjust the flight attitude by altering aerodynamic movement. This process controls the flight trajectory and corrects the predicted impact point, and it continues until the rocket reaches the target area.

GCS can be mounted on unguided rockets via the original fuze interface. Parameters can be configured via wireless transmission. It supports both proximity and impact detonation. By adding guidance correction capability, it significantly improves the hit accuracy of unguided rockets.Güdüm düzeltme kabiliyeti kazandırarak serbest roketin vuruş hassasiyetini belirli ölçüde artırabilir.

**Hazard classification: 1.2D**

## 2. TACTICAL AND TECHNICAL SPECIFICATIONS

| | | | |
|---|---|---|---|
| Component Weight: | 3.6 kg ±0.2 kg | Fuze Type: | Proximity (UB) or Impact (UT) |
| Effective Length (from warhead front to top of GCS): | 299.5 mm ±1 mm | Navigation Mode: | GPS/BD |
| Total Length: | 441 mm ±1 mm | Mounting Interface: | M52×2 mm |
| Circular Error Probable (CEP): | 30 m | Setup Time Per Rocket: | 5–8 seconds |
| Maximum Range: | Approximately 5% less than the range of the unguided rocket | Launch Platform: | 122 mm and 128 mm rocket launching systems |
| Minimum Range: | To be determined after telemetry tests | Maximum Correction Capability: | 4 km at maximum range |
| | | GCS Diameter: | 100 mm ±0.1 mm |

## 3. OPERATION AND STORAGE ENVIRONMENT

### 3.1 Operational Environment

- Temperature: -40 ~ +55
- Relative Humidity: ≤95% (at 25 )
- Launch Altitude: ≤3000 m (above sea level)
- Maximum Ground Wind Speed: ≤8 m/s
- Rain/Snow: ≤3 mm/hour

### 3.2 Storage Environment

- Temperature: +5 ~ +30 (long-term)
- Relative Humidity: ≤75% (at 25 )
- Shelf Life: 10 years

### 4.1 Upgrade of Unguided Rocket

- To minimize equipment modifications, upgrading an unguided rocket is possible simply by connecting the GCS to the original fuze interface. The corresponding diagram is presented below.

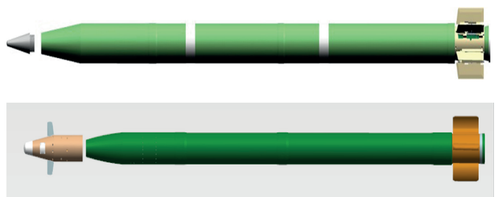
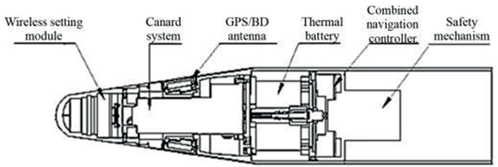


Figure 2. Modernization / Upgrade of the Unguided Rocket

## 4. COMPONENTS

- The GCS mainly consists of a wireless configuration module, fin control system, GPS/BD antenna, thermal battery, integrated controller, and safety & arming mechanism. Its composition is shown in the following figure: Figure 1. GCS




### 4.2 Guided Rocket Operation Process

- The main additional step introduced in rocket operation is the extraction of GNSS data.*

*Note: If GNSS data extraction is successfully completed, the GNSS information can be loaded into the GCS via a handheld configuration device, which shortens the GCS initialization time. Otherwise, the startup time will increase, and hit accuracy cannot be guaranteed.

Based on current meteorological conditions, parameter calculations are performed—including basic trajectory data, control parameters, etc. These parameters are then configured wirelessly.

As Mediterranean Defense Technology, we are honored to share our advanced technology solutions and extensive expertise in the defense industry with you.

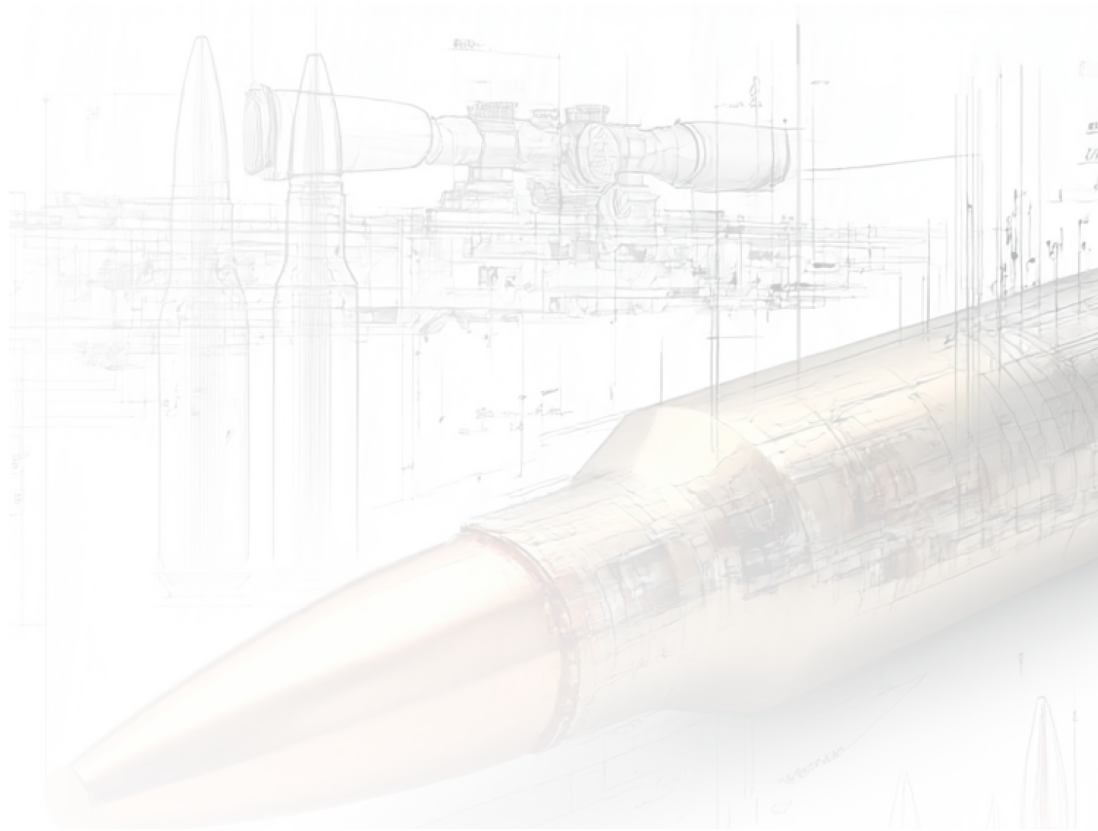
With our reliable, sustainable, and result-oriented approach, we are committed to creating value for our solution partners.

We sincerely thank you for your time and interest in reviewing this catalog.

**Mediterranean Defense Technology**

*Your trusted source of knowledge and experience in the defense industry.*





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