



MoST-5 / MoST-10 Modular Tactical Shooting Range

MoST-2 Container Shooting Range

MoST-1 Mobile Container Shooting Range

MoST-SH Modular Shoot House

Mobile Bullet Traps







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MoST-5 / MoST-10 MODULAR TACTICAL SHOOTING RANGE

## SHOOTING RANGE USES

**Modular Tactical Shooting Ranges MoST** are fully indoor shooting facilities for a variety of training types for uniformed services as well as for private uses. They are made of steel modules which can be transported to any suitable location having a flat, paved surface and then assembled.

A MoST system does not require fixing to the ground.

The time of building the shooting range is between 180 and 360 days, depending on the MoST size.

Each MoST system is designed for:

- firing live ammunition with a maximum energy of 3600 J;
- training for shooting on fixed or moving firing lanes;
- shooting practice, tactical shooting, sports shooting, and leisure shooting;
- burst fire with automatic firearms;
- firing scenarios, including target retrieval system, strobe lights, artificial fog, and sound effects;
- shoot houses and 180° firing sectors with mobile bullet traps deployed in the lane zone;
- disassembly and relocation, or modification of the firing lane length at any time;
- ventilation to guarantee the highest air quality during firing, including reduction of lead concentrations below the limit;
- air conditioning to ensure comfort in all seasons;
- environmental protection by preventing the release of combustion dust and by maintaining low noise emissions.

MoST-5 and MoST-10 systems have Certificates of Compliance issued by the Military Institute of Armament Technology in Zielonka, Poland.

# AVAILABLE FIRING RANGE SIZES

Each MoST system consists of steel modules, measuring inside 2.5 m height and 5 m width (MoST-5) or 2.9 m height and 10 m width (MoST-10). When assembled, the modules form an integrated facility capable of supporting various shooting range functions, including the firing zone and all the auxiliary functions required for a fully professional tactical training range

MoST systems are available in eight sizes, varying by firing lane width and length:

1. MoST-5 shooting ranges with an internal width of 5 m, internal height of 2.5 m, and shooting axis lengths of 25 m, 50 m, 100 m, and 200 m
2. MoST-10 shooting ranges with an internal width of 10 m, internal height of 2.9 m, and shooting ranges of 25 m, 50 m, 100 m, and 200 m

The modular design of the MoST system allows the range length to be modified, by the addition or removal of the modules. Each MoST range can also be disassembled and relocated at any time. The standard width of each module is 2.5 m, and the total range length can be changed by adding or removing individual modules



MoST-5



MoST-10



# SHOOTING RANGE STRUCTURE

Each MoST shooting range comprises the following modules:

- Logistic module
- Communication module
- Shooting stall module
- Shooting modules
- Bullet trap module
- Ventilation module

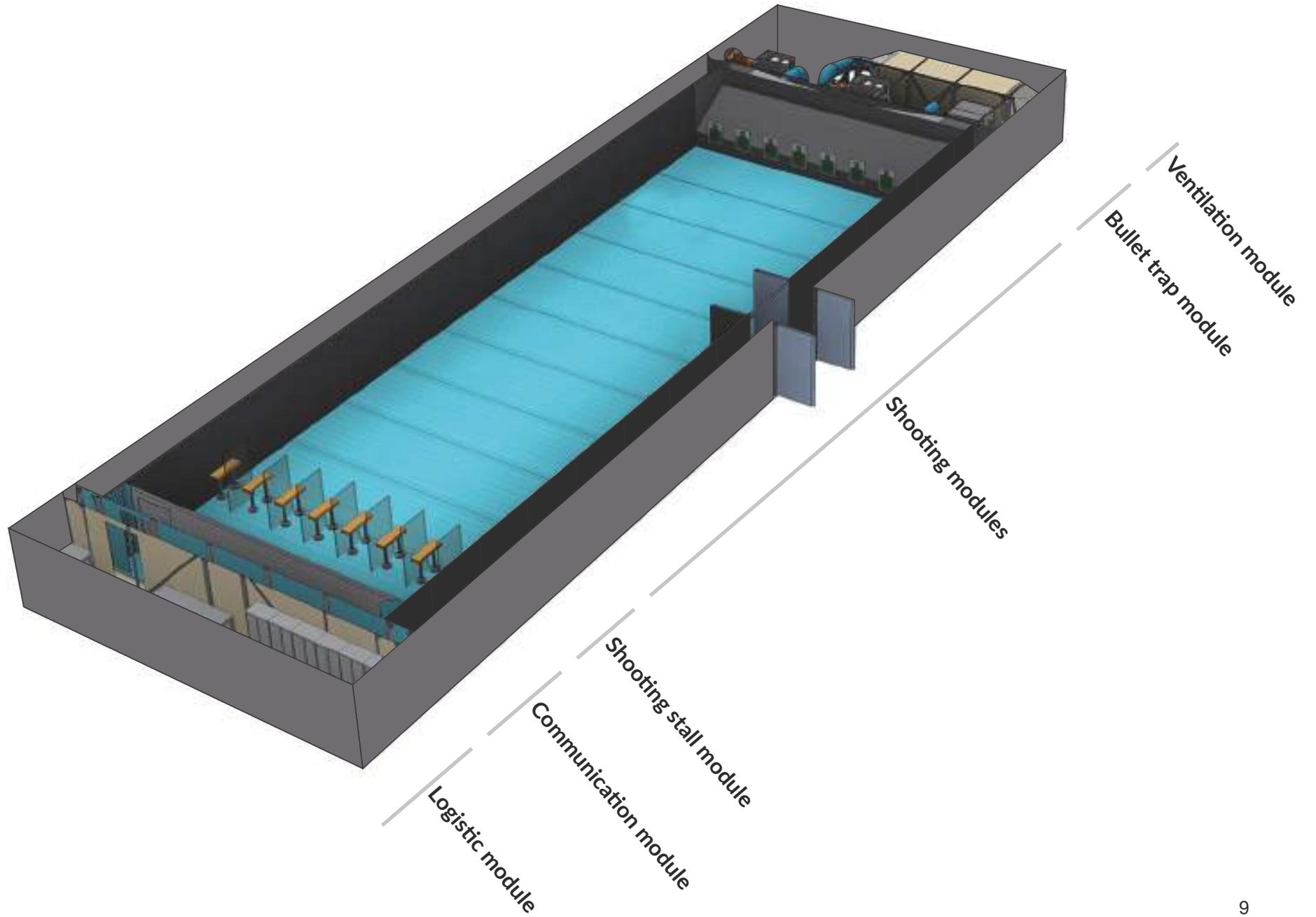
All modules exposed to live fire are designed as welded frames, combined with sufficiently strong, hard-wearing steel sheet able to resist piercing. The modules are delivered separately to the installation site, where they are assembled on a level and hard-paved surface, aligned, and combined into a single facility. With the modules assembled, the integrated facility, the side walls and the ceiling surface are lined with façade panels to ensure sufficient thermal and noise insulation performance. The MoST is ready for operation once connected to an electrical power source and furnished with the required fixtures.

## Logistic module

This is the fire control room, and houses the range master's control workstation, including a display unit for viewing the CCTV feeds from the firing lanes, and controls for operating ventilation, lights, sound and other equipment. The logistic module features an external door, and a bulletproof door internal leading to the communication module. The logistic module configuration is customizable, and may be expanded to include a medical station, a briefing room, a locker room, etc.



MoST shooting range  
View from shooting stalls



## Communication Module

This module ensures communication between the logistics module and the station module. The room has an “Air Wall” expansion chamber that supplies fresh air to the shooting range. The module is lined inside with flame-retardant rubber anti-ricochet panels.



## Shooting Stall Module

This module contains separate shooting stations, separated by removable partitions. Each station is equipped with ceiling lighting and cameras. Each station has a control panel for the target feeder. The interior of the module is lined with flame-retardant rubber anti-ricochet panels.



## Shooting Modules

The 2.5 m long shooting modules are combined to form the firing lane zone, for firing lanes of 25, 50, 100 or 200 m. The internal lining of the modules comprises anti-ricochet panels. Mobile bullet traps can be supplied and installed in the firing lane zone. When deployed in parallel with both side walls, they create a 180° firing sector; however, armour-piercing, tracer and incendiary rounds cannot be used.



## Bullet Trap Module

This module features granular bullet trap fitted across the entire module width. The bullet trap module also features pre-installed top and bottom connections for the ventilation ductwork. The internal lining of the module comprises anti-ricochet panels. The granular bullet trap has a capacity of approximately 100,000 shots per firing lane. The bullet traps need periodic maintenance for continued use.



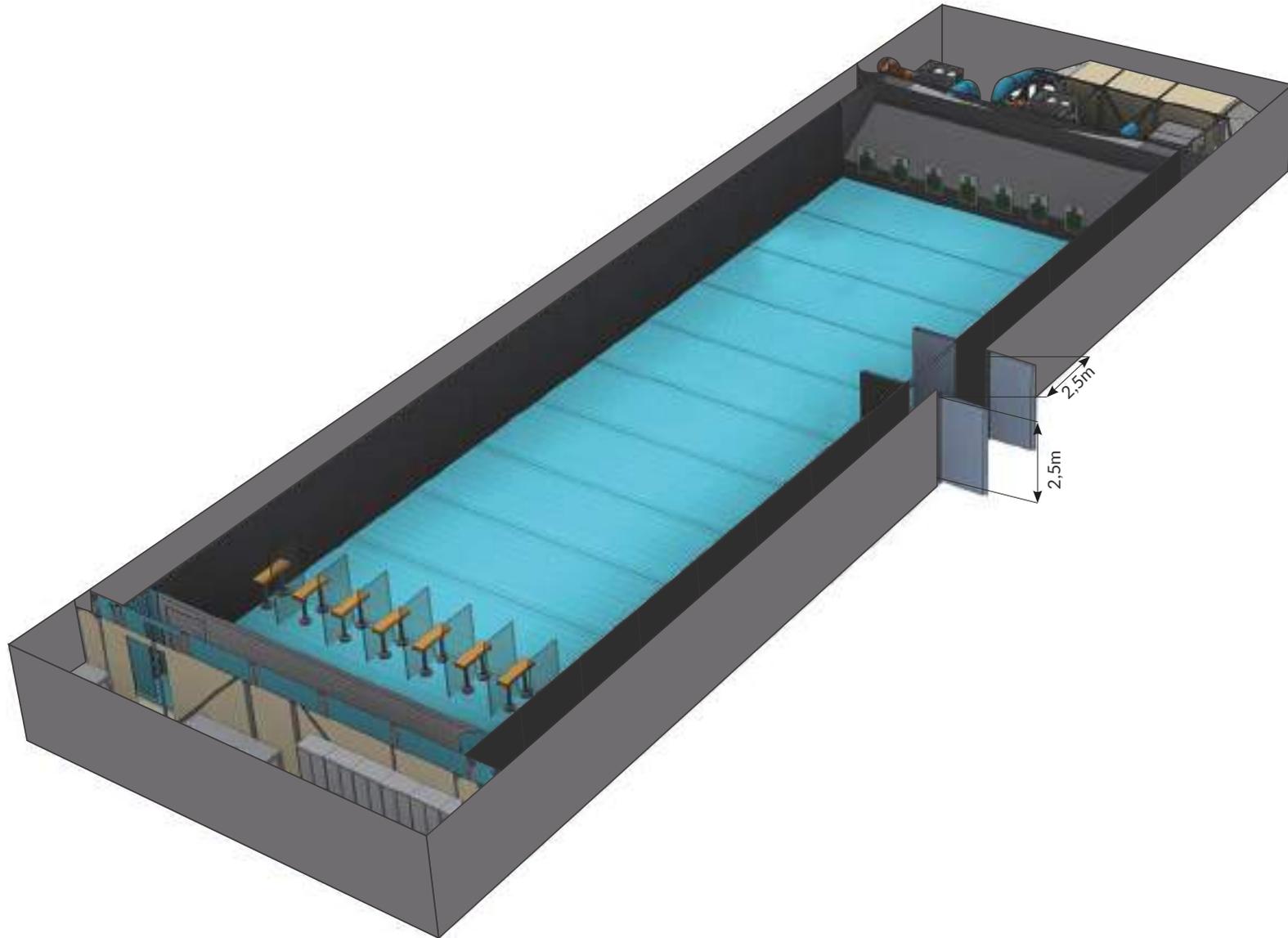
## Ventilation Module

This module uses two coupled units, each 2.5 m wide. The module houses the heat recovery air supply, exhaust unit and ventilation filter units. The latter have a filter separation efficiency of 99.9%. Aside from its unique air filtration system, the AHU also features heat recovery systems. This significantly improves the energy efficiency of the electric air heating in winter and air conditioning in summer. The automatic controls of the ventilation system maintain steady indoor air parameters and comfort in all seasons.



# CAR MODULE

An optional version of the shooting module, available on request. This features a garage-style door through which vehicles or other large objects can be moved in and out of the lane zone.



# BALLISTIC FEATURES

The state-of-the-art solutions designed for the MoST system facilitate shooting practice alone, in pairs or in task teams, and are freely configurable. With computer-aided control systems, the ballistic feature can be programmed with various firing scenarios.

The ballistic features comprise:

- Main bullet trap
- Anti-ricochet panels
- An optional target retrieval system (with target carriers, turntables and lifts)
- Main, tactical and emergency lamps
- Audio system
- CCTV system

## MoST operating features:

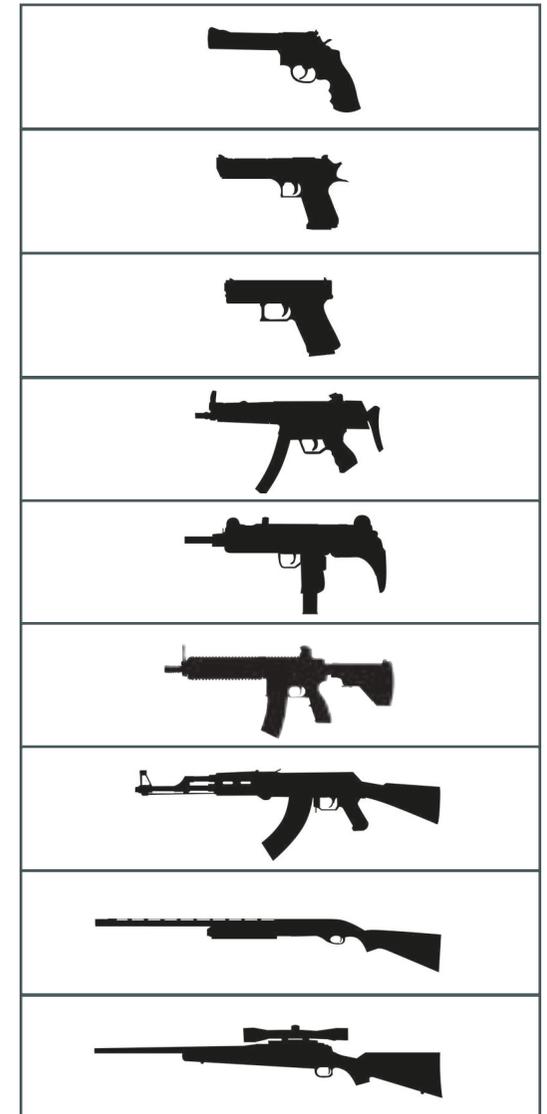
- firing on fixed and moving lanes
- 16° ricochet angle for the maximum safety of the users
- full containment of fired projectiles
- long service life of the bullet traps
- firing live ammunition with a maximum bullet energy of 3600 J;

## Target retrieval system

Target carrier:

- projectile hardened
- stepless speed control
- management with PC workstations, tablets, laptop computers, hard-wired control panels, touch screen displays, etc.
- programmable and highly accurate target positioning
- high-quality components for low-noise and reliable operation

## MoST-supported firearm types



Turntable:

- projectile hardened
- stepless speed and 360° rotation
- optional tilt arm for targets behind covers
- can be integrated with target carrier systems and target lifts

## Tactical lamps

The tactical lamps comprise a system of LED RGB lamp fixtures (providing white and coloured light) installed within the lanes to illuminate the firing zone and the targets.

The LED lamp fixtures with ballistic shielding feature:

- resistance to projectile fire
- management by PC workstations, tablets, laptop computers, hard-wired control panels, touch screen displays, etc.
- stepless brightness adjustment
- strobe mode
- lamp group control

## Audio system

The integrated and fully programmable audio system can output any sound required by the fire scenario

## CCTV system

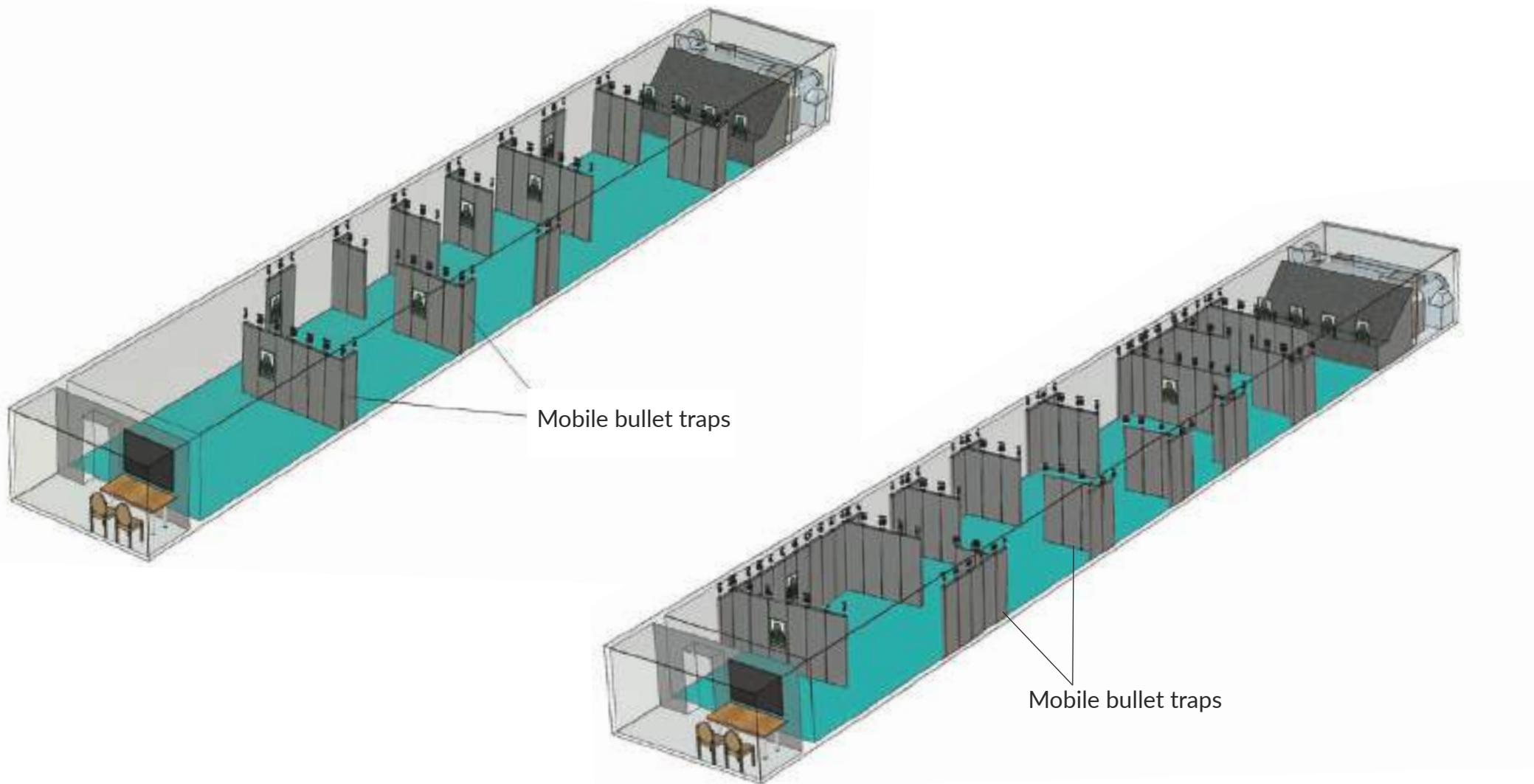
The CCTV system features:

- visual monitoring of each shooting stand during use
- video recording and playback
- integration of visual cameras for projectile hit location determination



# MOBILE BULLET TRAPS WITH "SHOOT HOUSE" OPTION

The optional mobile bullet traps can be deployed in any configuration in the firing zone to create shoot houses for tactical live-fire training. See the configuration shown below.



**A. MoST TECHNICAL SPECIFICATIONS PER SIZE**

Item	Designation	MoST-5				MoST-10			
		25	50	100	200	25	50	100	200
1	Firing zone size:								
	width [m]	5	5	5	5	10	10	10	10
	length [m]	25	50	100	200	25	50	100	200
	min. height [m]	2,5				2,9			
2	Shooting range external dimensions:								
	width [m]	6.5	6.5	6,5	6,5	12.6	12.6	12,6	12,6
	length [m]	40	65	115	215	40	65	115	215
	height [m]	4.4	4.4	4.4	4.4	4.6	4.6	4,6	4,6
3	Peak power [kW]	94	100	120	160	170	179	215	283
4	Shooting range overall weight [t]	140	225	395	734	273	437	766	1425

**B. BALLISTIC SPECIFICATIONS**

1	Firing zone outer partition structure:	Notes							
	main bullet trap	bulk bullet trap							
	side walls & ceiling	Steel panels + anti-ricochet rubber panels							
	floor	Steel panels, rubber panels							
2	Safe limit angle (ricochet angle)	16°							
3	Supported firearm and ammunition types	- pneumatic weapons, 4.5 mm (shot) - rimfire pistols and rifles, e.g. 5.6 mm - centerfire pistols and revolvers, e.g. 7.62 mm, 9.65 mm, 11.43 mm - smoothbore shotguns, e.g. 12 gauge - rifles and carbines, e.g. 7.62 mm NATO (not supported: armour-piercing, tracer and incendiary rounds)							
4	Automatic firearm support and limitations	Short-burst fire (up to 5 rounds)							
5	Bulk bullet trap cleaning / emptying intervals	MoST-5 400k rounds				MoST-10 800k rounds			

**C. HVAC**

1	Filter separation efficiency of indoor and exhaust air	99.9%							
2	Air treatment	winter heating, summer cooling, heat recovery							

**D. NOISE, LIGHT, AND CCTV MONITORING**

1	Outdoor sound pressure level, measured 5 m from the shooting range	55 dB(A)							
2	Light types	main lights, tactical lights, and emergency lights							
3	CCTV monitoring	Each shooting stand is visually monitored with CCTV IP cameras + video feed recording							

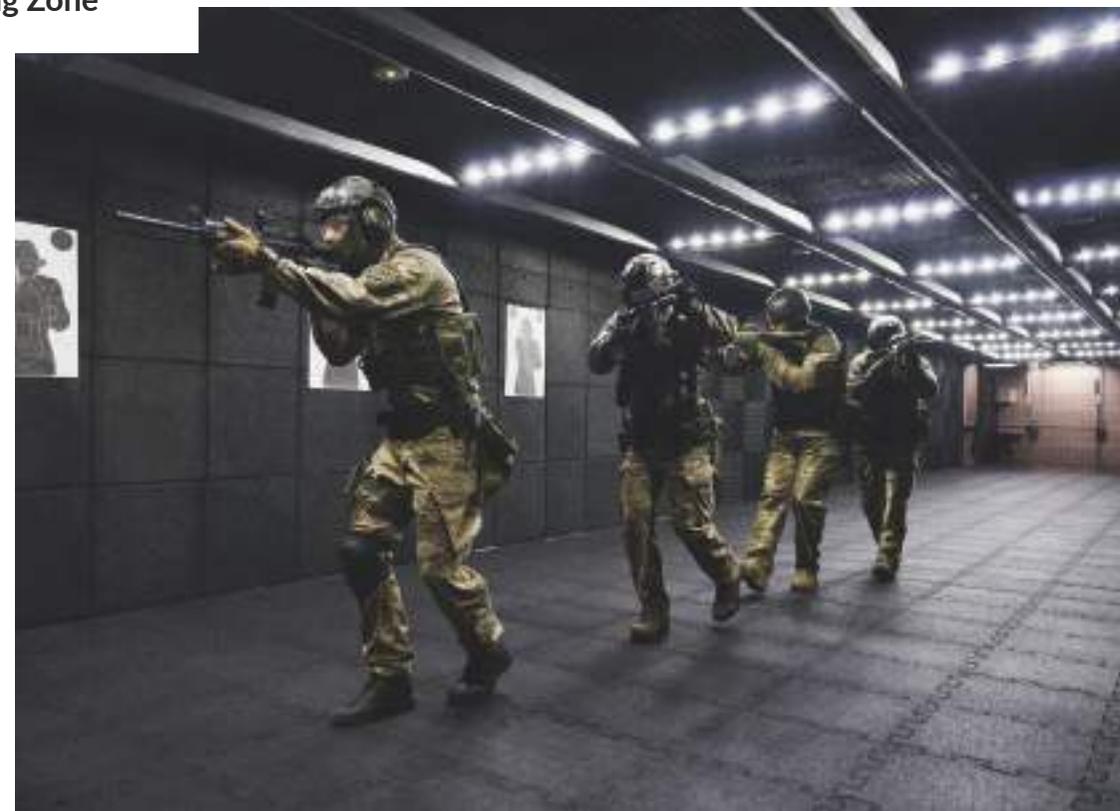


Shooting zone





Shooting Zone





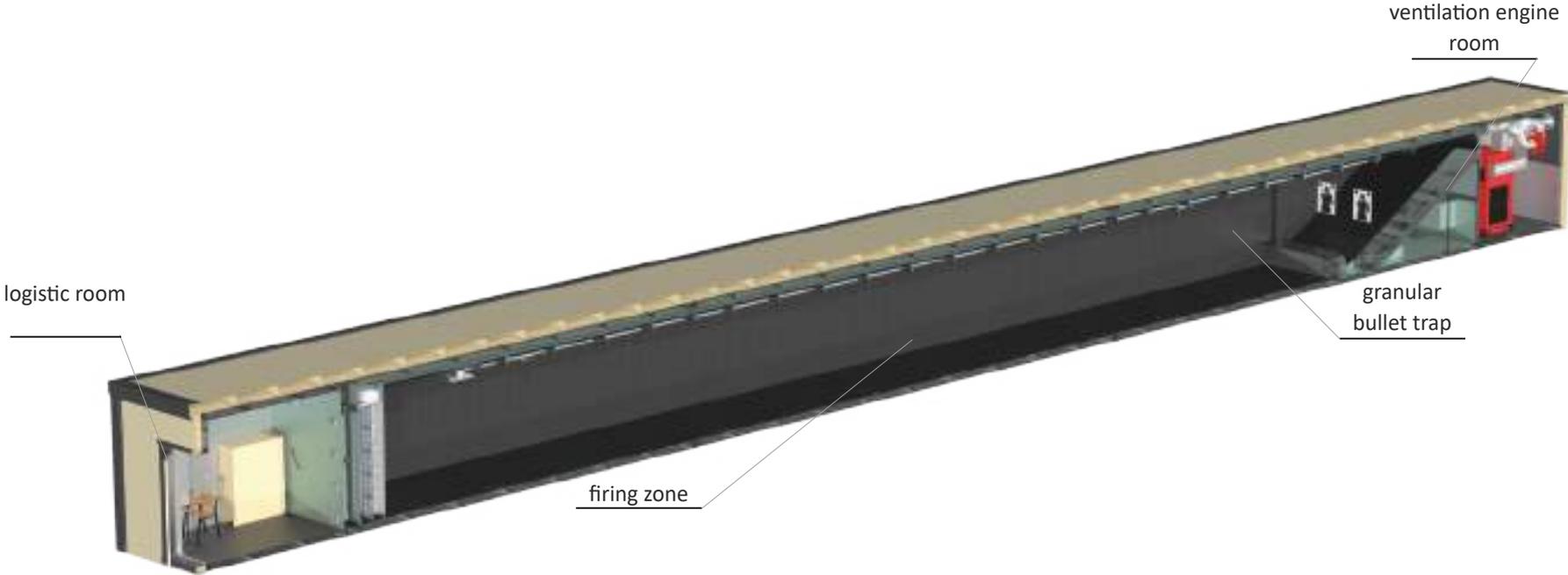
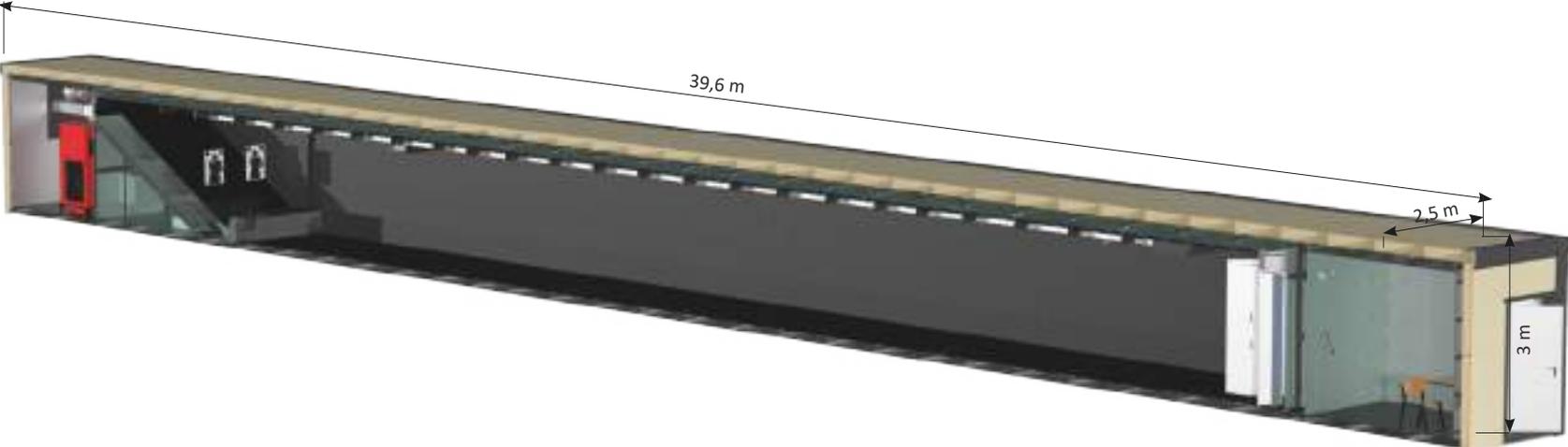
**MOST-2 CONTAINER SHOOTING RANGE**

# MOST-2 CONTAINER SHOOTING RANGE

## MoST-2 Container Shooting Range

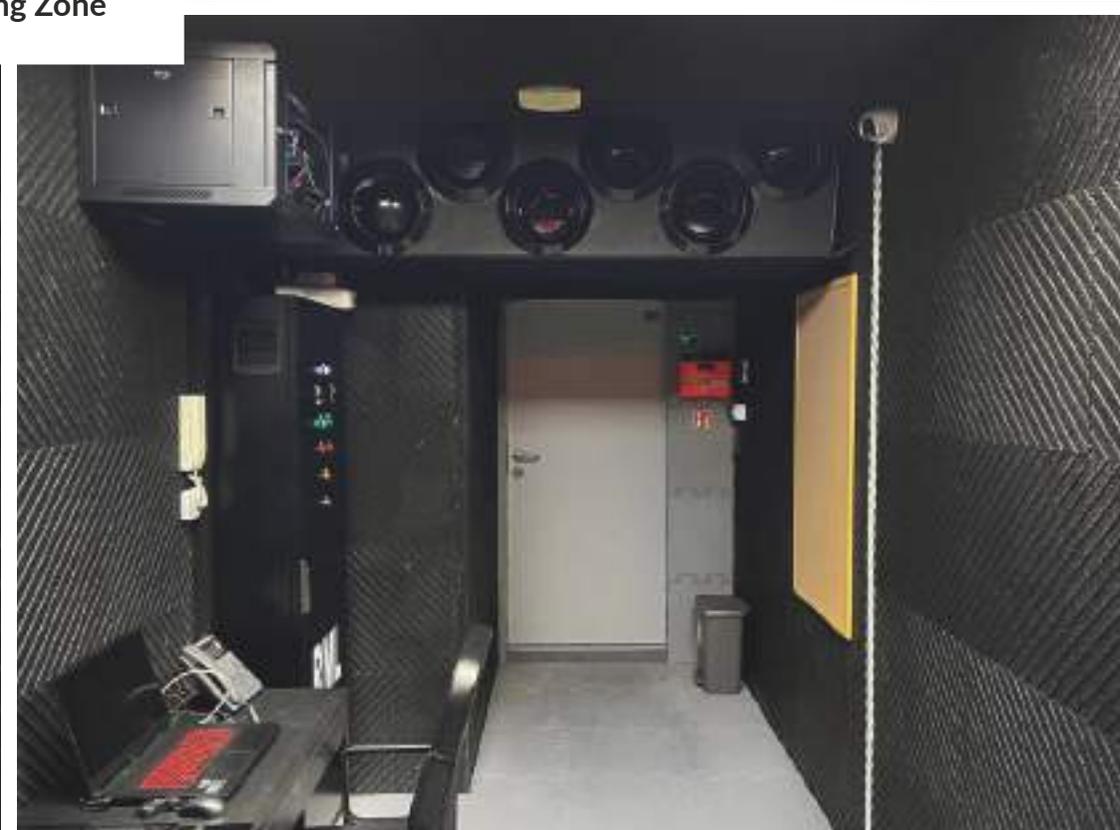
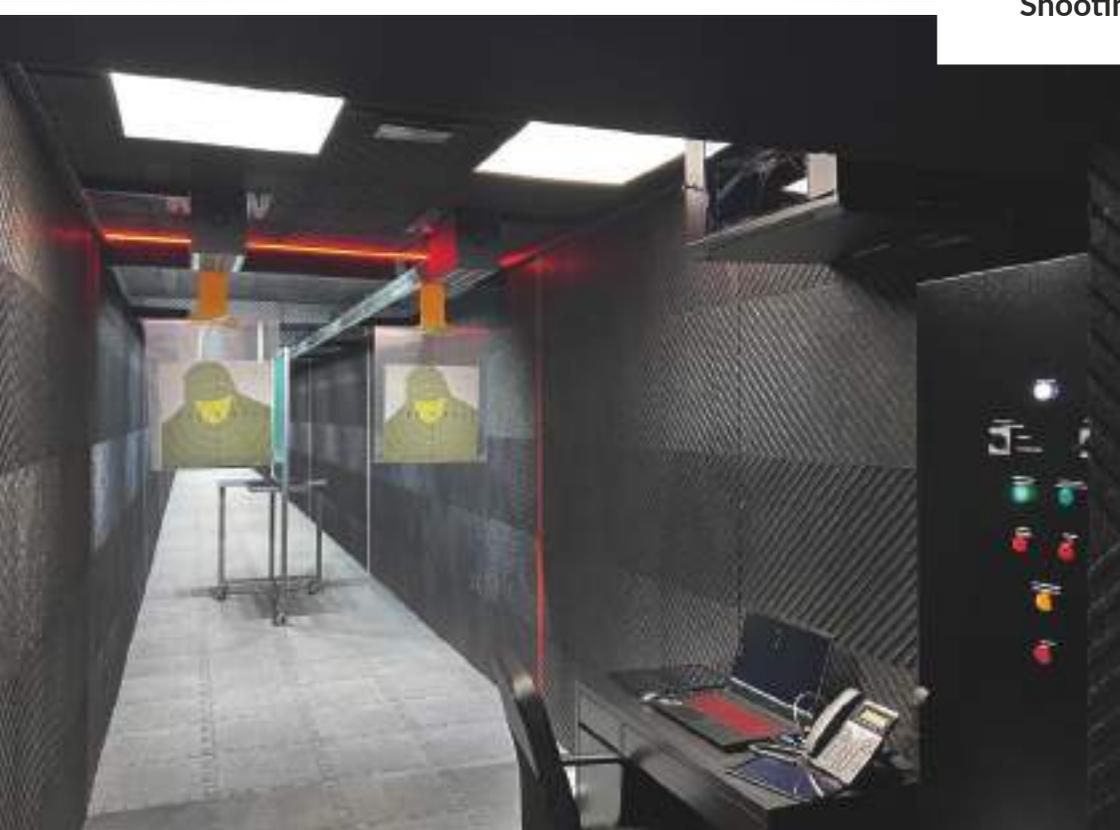
- can be used as an advanced training facility for all uniformed services, as well as a commercial facility;
- is a fully enclosed facility equipped with a tactical lighting system, target transporters, a CCTV system and an optional multimedia trainer;
- has a 25m actual shooting axis length;
- is built with four modules (three modules of 40ftHC container size and one module of 10ftHC container size);
- It is equipped with two shooting positions;
- It is equipped with a durable granular bullet;
- allows the use of ammunition with a maximum initial energy of 3600 J bullet, including the weapons listed below:
  - » rifle and carbine up to and including 7.62x54R mm (excluding ppc., tracer and incendiary rounds),
  - » pistol and side-loading rifle, such as 5.6 mm caliber,
  - » central-fire pistol and revolver, e.g., 7.62 mm caliber; 9.65 mm; 11.43 mm,
  - » smoothbore rifle, 12-gauge caliber,
  - » pneumatic weapon, caliber 4.5 mm (shot);
- guarantees the highest air quality thanks to an excellent ventilation and air conditioning system;
- guarantees low noise levels outside;
- the peak power of the shooting range is 42 kW;
- the lead time is 90 days;

MOST-2/3 CONTAINER SHOOTING RANGE





Shooting Zone



# MOST-2/3 CONTAINER SHOOTING RANGE



The background features a large red area on the left, transitioning into a dark blue diagonal band on the right. The red area has a subtle gradient and is overlaid with a darker red triangular shape. The dark blue band is a solid, diagonal stripe.

**MOST-1 MOBILE CONTAINER SHOOTING RANGE**

# MOST-1 MOBILE CONTAINER SHOOTING RANGE

## MoST-1 Mobile Container Shooting Range

- can be used as a personalized shooting range, commercial facility as well as training facility for uniformed services;
- has an actual shooting axis length of up to 7m, supported by a multifunctional video simulator designed for both basic and advanced training through the projection of various scenarios and exercises, including simulated shooting distances of up to 100 m;
- is housed in a 40ftHC shipping container to maximize optional applications (on vehicles, aboard ships, ready for air transport);
- equipped with one shooting position sized for unobstructed instructor control;
- is equipped with a durable granular pelletizer;
- gives the ability to use ammunition with a maximum initial energy of 3600J bullet, including the weapons listed below:
  - » pneumatic weapons, 4.5 mm (shot),
  - » rimfire pistols and rifles, e.g. 5.6 mm,
  - » centerfire pistols and rifles, e.g. 7.62 mm, 9.65 mm, 11.43 mm,
  - » smoothbore shotguns, e.g. 12 gauge,
  - » rifles and carbines, e.g. 7.62 mm NATO (not supported: armour-piercing, tracer and incendiary rounds);
- guarantees the highest air quality thanks to an excellent ventilation and air conditioning system;
- the peak power of the shooting range is 11 kW;
- lead time is 60 days;

# MOST-1 MOBILE CONTAINER SHOOTING RANGE



## MOST-1 MOBILE CONTAINER SHOOTING RANGE



The background features a large red trapezoidal shape on the left, which transitions into a dark blue trapezoidal shape on the right. The two shapes are separated by a thin white diagonal line. The red shape has a subtle gradient and is partially overlapped by a darker red shape at the bottom right.

MOST-SH MODULAR SHOOT HOUSE

# MOST-SH MODULAR SHOOT HOUSE

## MoST-SH Modular Shoot House

- A modular system for live ammunition training.
- Available as a fully customized, sheltered training room: a shoot house, an outdoor shooting range, an in-vehicle combat training site, etc.
- Supports scaling of training difficulty, variations in scenario conditions, and challenging CQB training situations.
- Deployable as a training facility with near-life-like conditions.
- Supports live ammunition training with a maximum energy of 3600 J.
- The modular design enables deployment in stages over time.

1

Specify the desired room layout, or choose from the set of predefined layouts

2

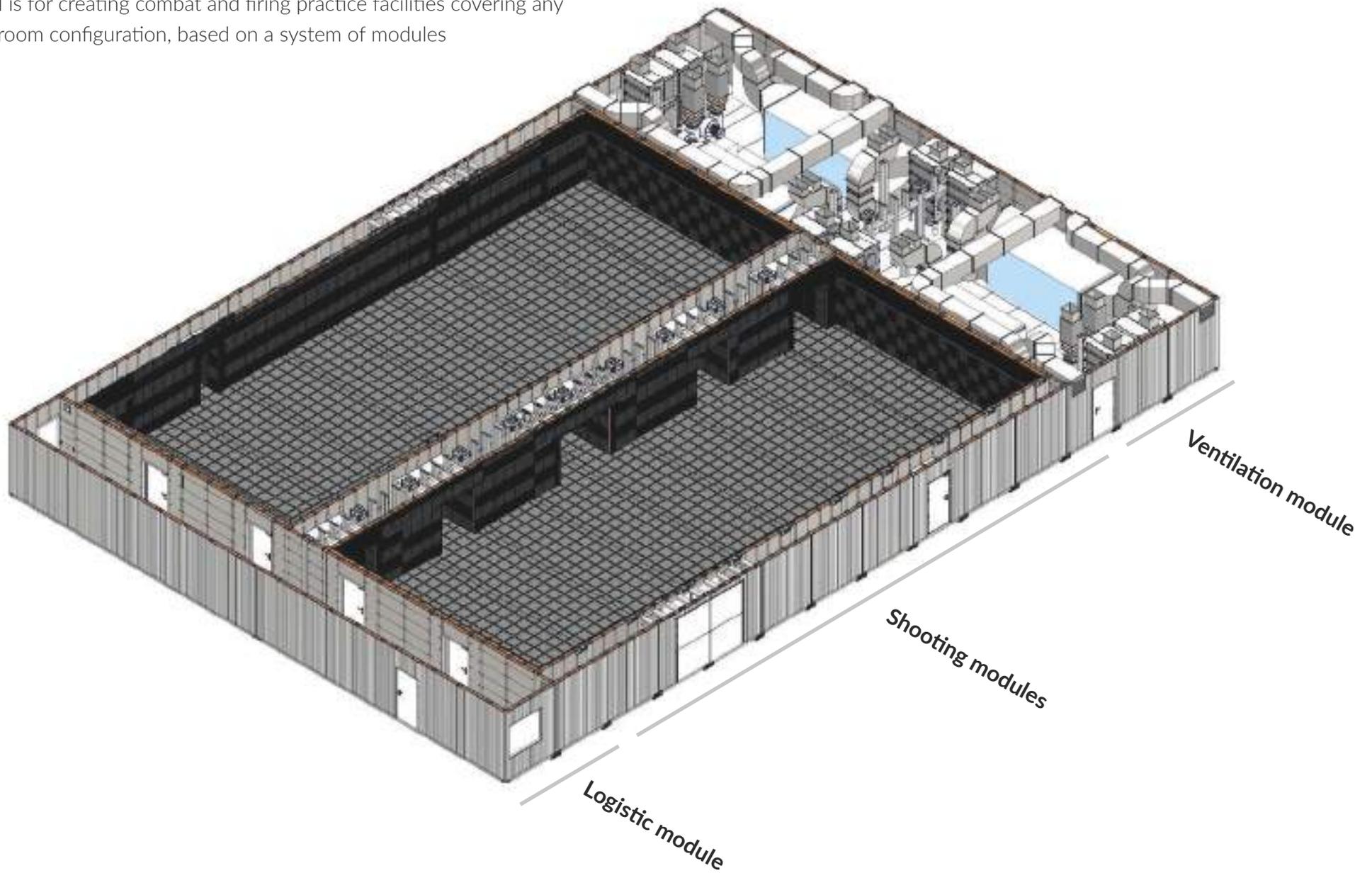
You will receive a set of modules, and the rest depends on your needs and imagination.

## MoST-SH MODULES

Type image	Type specs	Type image	Type specs
	KMS-600W mobile bullet trap		SLIDER cover
	PIVOT wall		Window module
	Door module		Tunnel module

## MoST-SH - FULLY CONFIGURABLE

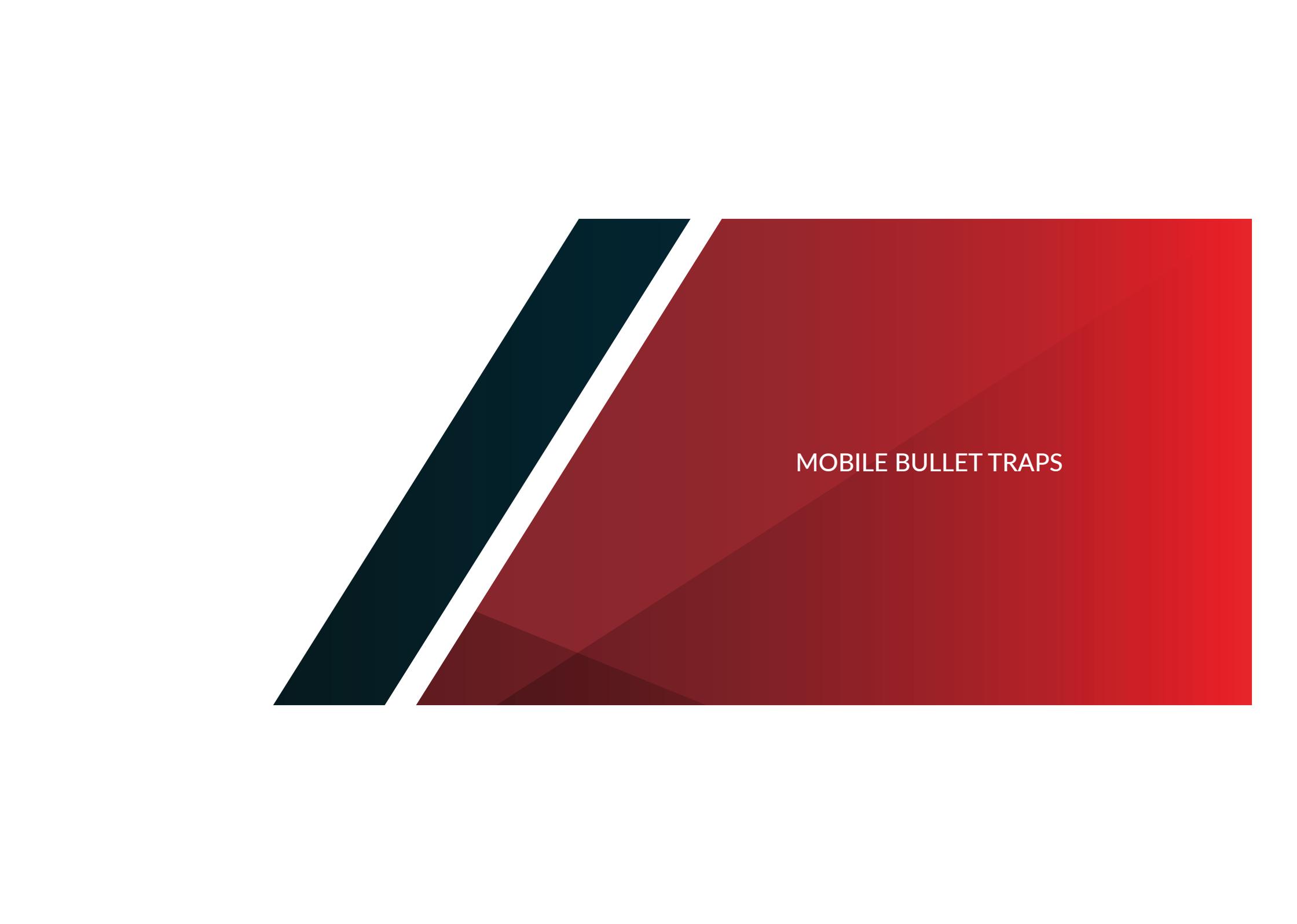
MoST-SH is for creating combat and firing practice facilities covering any area and room configuration, based on a system of modules





Shooting Zone

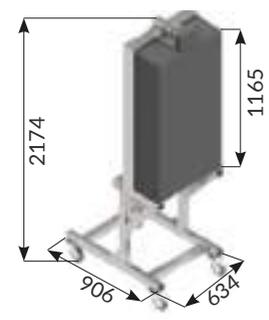




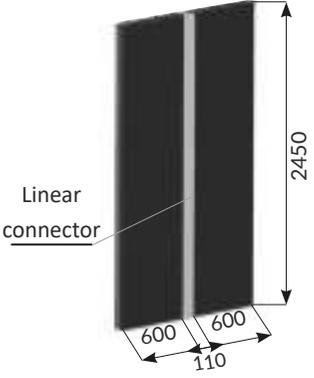
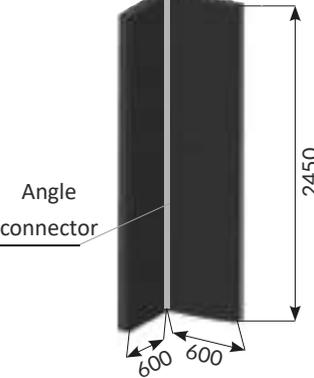
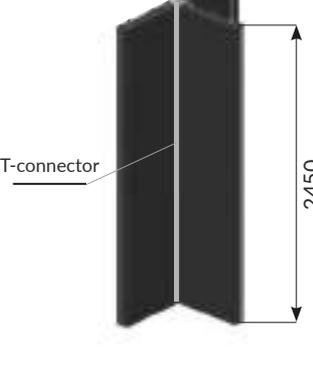
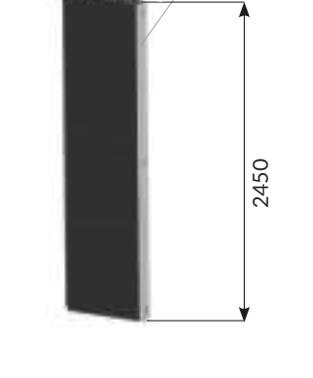
MOBILE BULLET TRAPS

# MOBILE BULLET TRAPS

The mobile bullet traps are intended for live-fire tactical training in sheltered and outdoor shooting ranges. The mobile bullet traps can be deployed in linear series or as standalone units. The mobile bullet traps facilitate any deployment configuration for building "shoot houses". The mobile bullet traps withstand live round fire with a maximum bullet energy of 3600 J, including the following calibres: 9 mm, 5.62 mm, and 7.62 mm (and 7.62 NATO) (excluding: armour-piercing, tracer and incendiary rounds). The KMB-600 bullet traps withstand live round fire with a maximum bullet energy of 6600 J, e.g. .338 LM

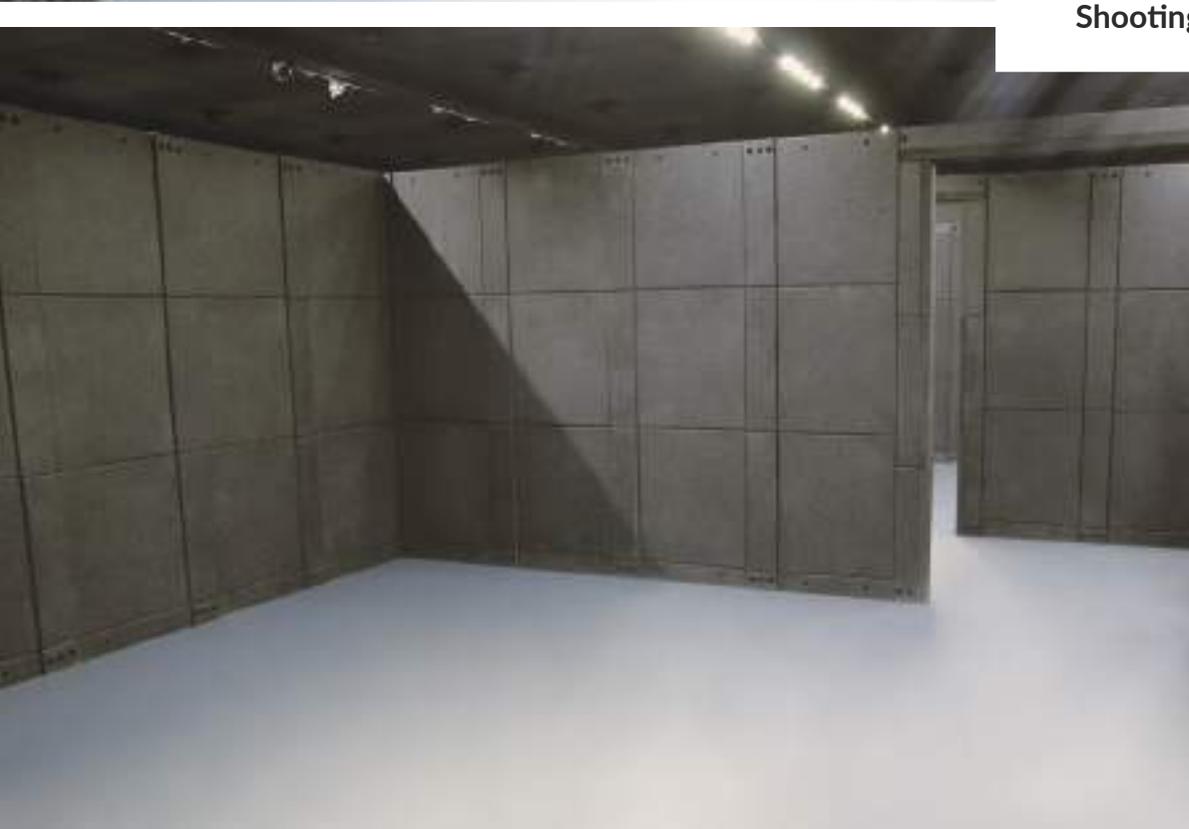
TABLE I: STANDALONE MOBILE BULLET TRAPS	
	
KMR-600 mobile bullet trap	KMB-600 mobile bullet trap
Mobile bullet trap on a wheeled dolly and a backstop. 50 mm anti-ricochet panels installed on one backstop side. Weight: 150 kg	Mobile bullet trap on a wheeled dolly and a backstop. 50 mm anti-ricochet panels and 300 mm solid blocks installed on one backstop side. Weight: 345 kg
Ballistic resistance up to 3600 J	Ballistic resistance up to 6600 J

**TABLE II: "SHOOT HOUSE" DEPLOYMENT BULLET TRAPS**

				
<p>KMS-600W shoot house bullet trapp</p>	<p>Linear connector LL</p>	<p>Angle connector LK</p>	<p>T-connector LT</p>	<p>Bullet trap edge guard ZK</p>
<p>The bullet traps are deployed in indoor shooting ranges with 2.5 m headroom. 50 mm thick anti-ricochet panels installed on both backstop sides. When installed on a floor, each bullet trap is braced against the ceiling with props. Weight: 252 kg</p>	<p>The linear connector provides a joint between two KMS-600W mobile bullet traps. Weight: 87 kg</p>	<p>The angle connector provides a square (corner) joint between two KMS-600W mobile bullet traps. Weight: 106 kg</p>	<p>The T-connector provides a square joint between three KMS-600W mobile bullet traps (with two in a line and one square at the line joint). Weight: 159 kg</p>	<p>The edge guard provides side trim for the outer KM-600W mobile bullet traps. Weight: 71 kg</p>



Shooting Zone



# CERTIFICATE AND CONCESSIONS







For over 30 years, Klimawent S.A. has been a globally recognized Polish manufacturer and seller of industrial ventilation equipment. The company's offer includes a wide range of filter ventilation devices, workstation extractors, fans, and car exhaust extractors. Klimawent S.A. also specializes in the installation of ventilation and air conditioning systems in industrial facilities. In 2017, the company began manufacturing containerized and modular tactical shooting ranges and mobile bullet traps. Klimawent S.A. has its own design office and research and development laboratory, thanks to which the devices manufactured by the company are innovative.





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