

**Ledic Slovakia a.s.**

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Slovenská Republika



Development and realization program of special methods, devices and equipments for training, rehabilitation prevention, recreation sport and free time

## TACTICAL BUILDING AND INDOOR SHOOTING RANGE

# JAKUB BUILDING GUN



**Slovak Republic  
2009**

## JAKUB BUILDING GUN

The object is a combination of tactic facility for training of seizing and securing an object, with a shooting range. It has various windows, doors, balcony, staircase etc. It is possible to train shooting through some of the openings into the object (shooting range) at targets located inside. Of course, it is possible to use the shooting range as combat shooting range. It has a control room with control panel for the system of cameras, audio system, target devices, air-conditioning etc. On the pictures below you can see a shooting range built for the army of Slovak Republic.



**Pictures from JAKUB GUN BUILDING exhibition**

The walls and the ceiling will be covered with steel boards



Tactical part of the JAKUB GUN BUILDING  
In the background you can see the POOL OUTDOOR site



Side low windows for shooting inside, above these is air-condition pipe, below the air-condition module and ventilation for the shooting range



Windows and doors for accessing when seizing a building. In the background you can see helicopter simulator JAKUB COLOSEUM



Door and window access points into the tactical part of the building. Flat roof with ladders and solid railing. Side windows and doors adjusted for shooting inside of the shooting range.



Indoor shooting ranges JAKUB GUN is situated in closed premises. They allow training of basic technical elements, shooting at target as well as advanced techniques of fast shooting at sets of targets at different distances and training of shooting tactics and decision-making processes. One of the advantages is the possibility to set up various realistic situations and simulate conditions that stress the shooter – noise, bad lighting conditions, short time for shooting, etc.

Shooting ranges allow training of shooting in 360° angle. The walls and ceiling are protected ballistically against rebounded bullets by facing made of combination of steel sheets and rubber. The floor is usually concrete, covered with rubber carpet that eliminate rebounding of bullets in case of accidental shooting at the floor. Shooting ranges allow direct shooting against walls protected by ballistic panels made of steel sheets and rubber blocks that are not attached to the sheets surface-on-surface but only by vertical segments. A bullet is slowed down and hits the steel sheet with velocity sufficing only for the bullet to become deformed and fall down the gap between the rubber and the steel sheets on the shooting range floor. The bullet does not split into pieces, what usually results in evaporation of part of the lead that has negative impact on the personnel and the shooters. The thickness of the sheets and rubber blocks is adapted for the required resistance (parameters of ammunition). The steel sheet has hardness of 400-500 Brinell and thickness of 4-12 mm.

Shooting range can be situated in any building or in storage premises that have the necessary dimensions, but it can also be an independent object made of construction steel on a concrete board.

A shooting range usually has:

- air-conditioning with filtration of harmful elements and recuperation of heat,
- regulated lighting,
- monitoring and recording equipment,
- audio-set, artificial fog and similar effects,
- access points or windows, sliding ballistic panels,
- steel drop targets Popper, pendulums, holders for paper targets etc.,
- light partitions to set up rooms and corridors.



Up in front 2nd transverse ramp with the device for smoke machine, stroboscope and adjustable lights. In the back you can see the third ramp with lights and stroboscopes. In right wall between two white lines you can see closed entrance door for shooters



Big bullet-proof window to control room, first transverse ramp with the stroboscopic lights, adjustable lights, dome video camera and air-conditioning output. Audio system in the corner up.



Control room with bullet-proof window, audio, video, rack with controlling electronics. To left main switchboard, control device for air-conditioning.



Rack with electronics equipment for control and programming scenes with lights, stroboscopes, smoke machines, sound effects etc.



Screen of application for control of effects and programming of training scenes.



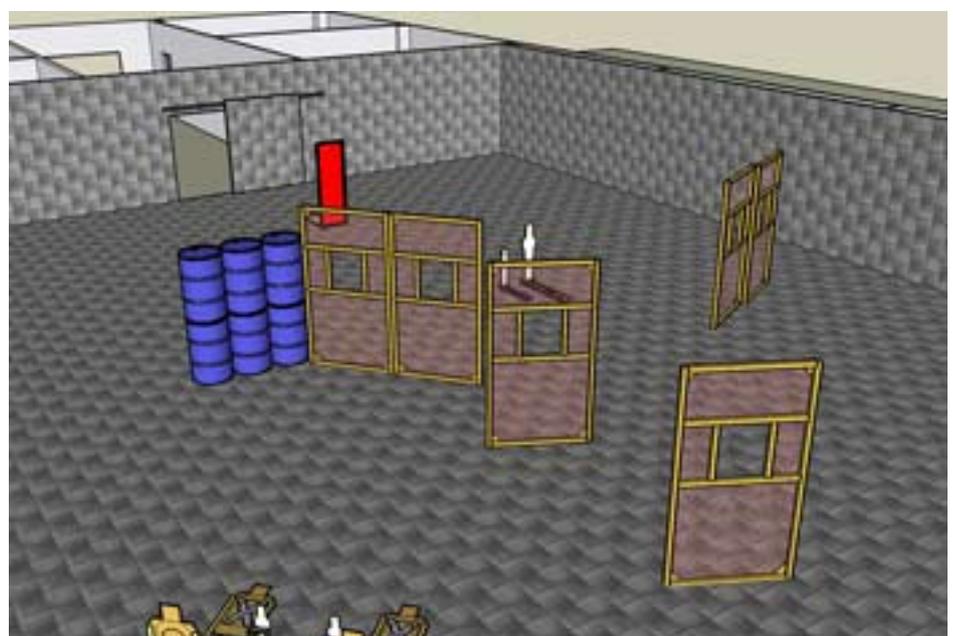
Audio system with camera will be sensible even for recording during reduced visibility

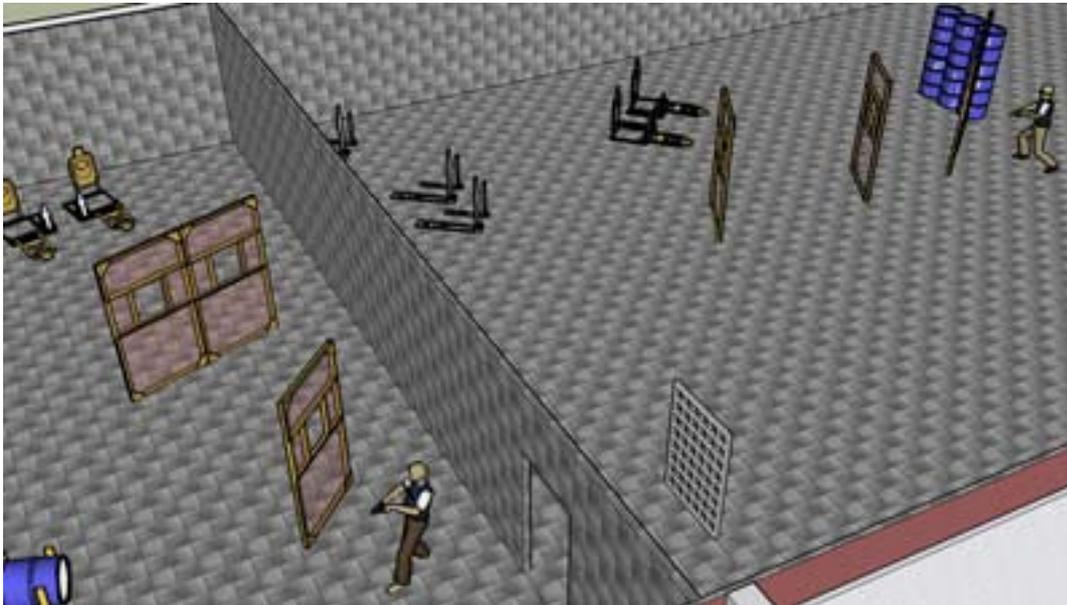


Shooting range can be equipped of the portable transparent or non-transparent screens, bullet traps and various obstacles and targets it can be created many different realistic situations for the training of the hit tactics and for the shooting with live ammunition. Some door can be equipped with special breachable doors, which are resistible and designed for permanent usage. They can be broken down with tools, shooting the lock off with shotgun or with explosives



Possible variant of training scene for special forces





Tactical building JAKUB BUILDING GUN and JAKUB GUN Shooting Range, which is part of it, can be located in the same place as JAKUB KOLOSEUM and JAKUB CLIMBING. The combination of these training systems meaning the possibility of training on all of these simulators at the same time can be very useful for advanced practice by special troops.





Supplier :



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