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UNI SYSTEM JAKUB

is a universal training complex for development of special and tactical skills and physical and psychical abilities of armed forces members and individuals and groups operating within rescue systems, namely fire-fighters and medical rescue workers.

It is formed by a set of relatively individual simulators, whose composition enables full respecting of user's requirements for training facility parameters. The set-up training facility can be gradually enlarged with regard to capacity as well as to number of training possibilities; and also the quality of the training can be improved by completion and modernization of both used and new technologies.

The modular system of individual simulators and the whole system create a prerequisite for its continuous development in dependence on changing requirements for training, development of technologies and needs of users. Used technology enables easy and quick assembly and disassembly and thus transfer of training facilities in case of relocation.

The system is secured with guaranteed warranty and post-warranty service.

The supply of the system includes also the know-how of the training, as well as of operation and maintenance of simulators and the training system as a whole. An essential part of the UNI System JAKUB training facilities is formed by supplementary technologies, which increase efficiency and life-likeness of the training. The development of supplementary technologies for the training takes place continuously and the offer of supplementary technologies reflects experience from trainings as well as new technical information in the field.

The supply of the UNI System JAKUB can in case of user's requirements include also furnishing with equipment for training centre and other components, or also for training of instructors of the user by our experienced teachers.

Training centre of Slovak army in Lest, projected on the basis of the UNI System Jakub



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Training simulator JAKUB CLIMBING

is a methodically coherent training facility for simulated training for mastering all necessary climbing and rescue skills and methods of team solving of situations in heights; it improves physical abilities of soldiers and policemen and significantly contributes to formation of psychical resistance against experience from risk activities, fear from heights, depths and closed spaces.

It is formed by dismountable supporting steel structure installed on a base plate and various types of climbing walls and other accessories according to the type and intensity of the training and choice of the user. The simulator design has long-term resistance against weather effects and requires only minimum maintenance.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
50	10	2	Climbers

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Helicopter and landing simulator JAKUB KOLOSEUM

is intended for training in helicopter utilization for activities of members of armed and special police forces. The simulator enables training of descent with helicopter landing, from low fly-by and by rappel from low and medium hanging position, descent by rappel to various surfaces and terrain and artificial objects, withdrawal of people and material by deck crane, withdrawal of people and material and their transport, rescue and evacuation of endangered people in various critical situations. The simulator, contrary to real helicopter, enables safe training also under worsened weather conditions and in the night also without special equipment and its operation is very economical (ca. 300 times smaller operation costs for 1 hour of training). Its robust construction enables long-term operation with minimum maintenance.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
12	4	4	Instructors / Operators

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JAKUB GUN SMALL, MEDIUM, LONG

are indoor shooting ranges of various sizes, according to requirements of the user. Shooting ranges enable shooting with live ammunition to all sides. Walls, ceiling and floor are ballistic protected against bouncing of bullets. The shooting range can be equipped with advanced simulation stress technology and its equipment enables programming of training scenes, recording and assessing of training. Accessory includes various kinds of electronically controlled as well as classical targets.

The Jakub Gun Long shooting range can be intended for the training of Special Forces in shooting from going car, but also in classical shooting to the distance up to 100 m. It can be used also for training of tactics and combat shooting of Special Forces by using of various screens and various kinds of obstacles and targets. The shooting range can be built in a classic way or it can be combined from special ballistic modules.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
15	2	2	Instructors / Technicians

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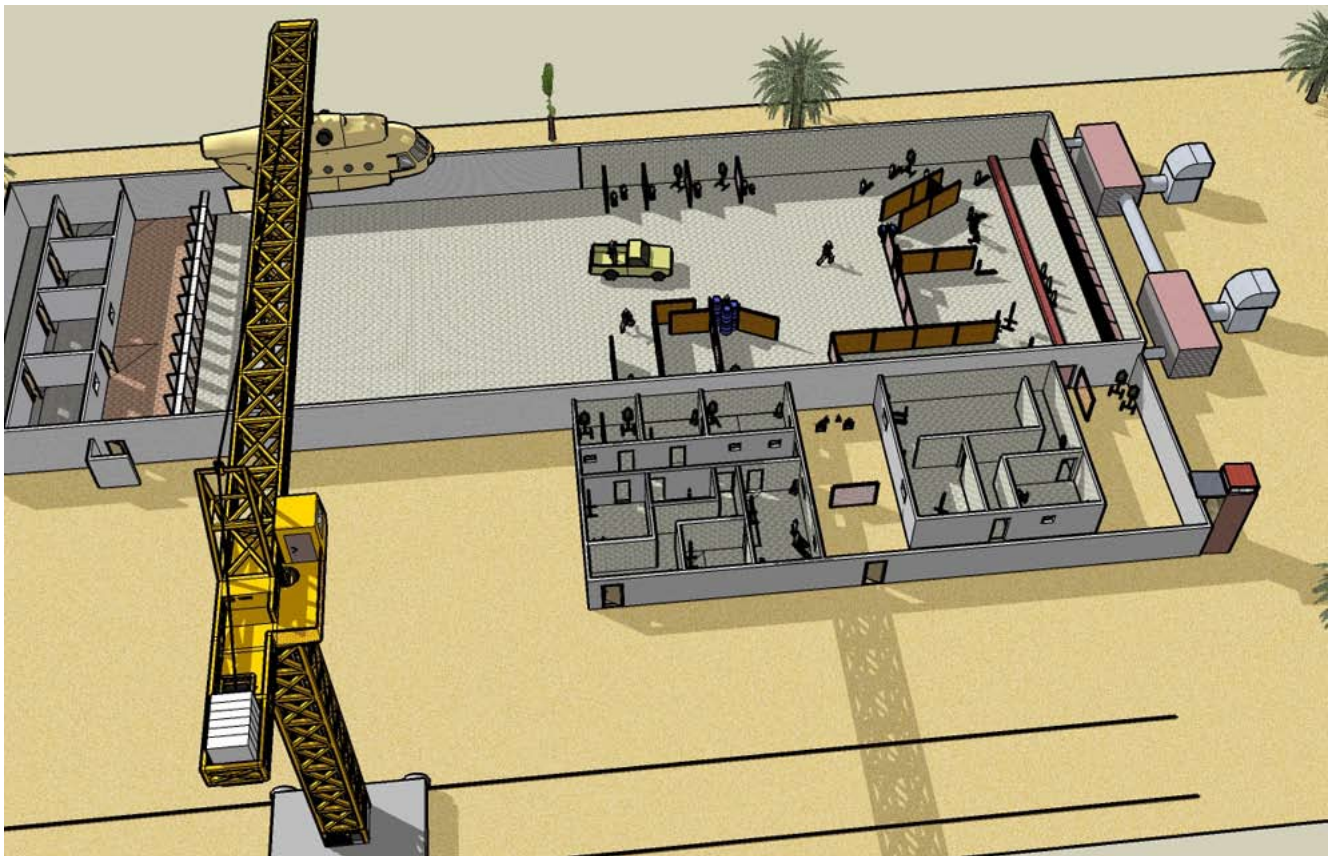
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Multipurpose JAKUB GUN LONG and CQB Village shooting range

JAKUB GUN indoor shooting range and open CQB Village, which is part of it, is a variant of advanced training system. 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. We also recommend the longer rail-track of JAKUB KOLOSEUM alongside the CQB village to achieve cooperation with this simulator in the whole area of the shooting range.

The shooting range Jakub Gun Long can be equipped as multi-functional shooting range intended for the training of Special Forces in shooting from going car, but also in classical shooting to the distance 50 to 100 m. It can be used also for training of tactics and combat shooting of Special Forces (CQB) by using of various screens and various kinds of obstacles and targets. The shooting range can be equipped with advanced simulation stress technology and its equipment enables programming of training scenes, recording and assessing of training. Accessory includes various kinds of electronically controlled as well as classical targets.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
40	4	4	Instructors / Technicians

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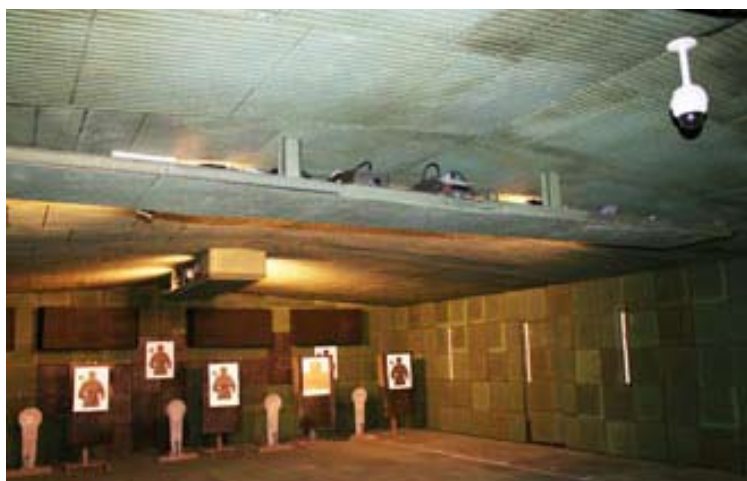


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JAKUB BUILDING GUN

is a building for tactical and shooting training of armed and police forces. The two- or three-storey building houses on the ground floor a shooting range of similar design as in the facility Jakub Gun Small or Medium. Other rooms in the building serve for tactical training, but they can be adjusted also for shooting training. Can be also equipped with breachable doors. The size of the shooting range is optional according to user's requirements. Facility can be used for training of tactics and combat shooting of Special Forces (CQB) by using of various screens and various kinds of obstacles and targets. The shooting range can be equipped with advanced simulation stress technology and its equipment enables programming of training scenes, recording and assessing of training. Accessory includes various kinds of electronically controlled as well as classical targets. It can be built in a classic way or it can be combined from special modules.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
15	2	2	Instructors / Technicians

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JAKUB BUILDING BREACH & EXPLOSIVE

enables training of a violent entry to a defended object. The simple two-storey building is equipped with internal and external staircase with gallery, several burst-in doors, construed for permanent training and for various types of violent opening. Rooms are ballistic protected and enable live shooting from hand weapons. It is also possible to use hand grenades in selected rooms. The building is statically safe also for explosions of smaller blasts up to the equivalent of 50 gr. of TNT. It is possible to build to separate buildings Jakub Building Breach and Jakub Building Explosive in case of higher training load.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
20	6	4	Firemans

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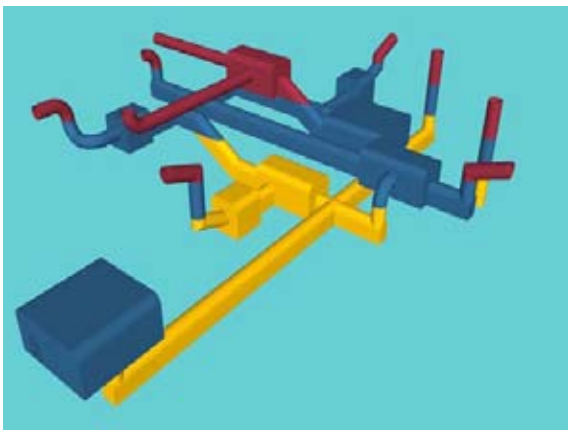


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JAKUB UNDERGROUND

is intended for training in besetting defended underground and cave spaces. It is a set of wells, corridors and rooms of various profiles and sizes on several underground floors. It enables in selected sectors safe usage of live ammunition, hand grenades, flame guns and other combat means. The trainer is equipped with camera system and other advanced technology, enabling monitoring and assessment of training and creating a stressing environment. It is equipped with efficient ventilation. It is suitable also for training of rescuers and healthcare service.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
20	6	3	Instructors/Technicians

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Aircraft simulator JAKUB AIRCRAFT

is a multi-functional training device for simulation training of activities necessary for mastering critical situation in airplanes.

It enables training of special forces, rescue teams, as well as airplane crews for cases of threats to safety of passengers and crews caused for instance in case of kidnapping, accidents, fire, or airplane technology failure.

The aircraft simulator is a modular system, whose individual modules are designed according to the needs of training objective (e.g. various types of emergency exits, number of seats in a row etc.). The resistant design of modules enables long-term and efficient training.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
20	3	3	Instructors / Technicians

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Fire-fighting simulator JAKUB BUILDING FIRE

The two-storey building is intended for fire fighting action, training of evacuation of people and other activities. It enables starting a controlled fire in rooms and fighting such fire. The building is resistant against fire-fighting consequences. It is equipped with a device for waste water collection with central filtration.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
10	4	4	Firemans / Technicians

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Traffic crash polygon JAKUB TRAFFIC CRASH

for standard as well as specific crashes of various transport means. It simulates requirements for rescue of endangered people in such transport means as well as prevention of chain traffic accidents.

Vehicles can have installed portable device for simulation of fire and smoke and the whole polygon can be filled with smoke by efficient smoke machine. The polygon is equipped with device for collection of waste water with central filtration.



Trainig capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
20	6	3	Firemans / Paramedics

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Fire-fighting polygon JAKUB INDUSTRY

this polygon enables training of fire-fighting of industrial objects, containers, cisterns, fuel distribution stations and tanks containing inflammable or dangerous substances; or interventions and removal of consequences of accidents of cisterns and tanks with such substances. It contains a simulated industrial object, tanks and cisterns on reinforced surfaces, adjusted for fire fighting and equipped with a device for controlled fire. The polygon is equipped with a device for collection of waste liquids with central filtration for all polygons.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
50	10	6	Firemans / Technicians

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Training tunnels JAKUB TUNNELS

are purpose-built multi-functional models of real tunnels, which enable simulation and situation training of a wide range of rescue activities executed in tunnels and their surroundings. Training models of tunnels can be road tunnels, railway tunnels or combined. They are structurally designed as purpose-built building objects with prioritised training requirements. Tunnels are equipped with electronically controlled device for simulation of controlled fires and filling with smoke, camera system including thermo cameras and other technologies according to the needs. The simulator includes a control room and methodical room. The simulator is equipped with a device for collection of waste water created during fire fighting with central filtration for all polygons.



Training capaci pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
20	4	4	Firemans / Technicians

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Training wreckage JAKUB WRECKAGE

is a polygon modelling wreckage of building and surroundings, created after for instance an earthquake or breakdown of building after fire, explosion and so on. The wreckage is equipped also with underground spaces, well and other components, where procedures for rescue activities can be trained, such as provision of engineering networks, completion of fire extinguishing, searching for and extrication of people, utilization of technology for removal of cave-in, training of rescue dogs, cooperation with medical workers and other activities.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
30	6	5	Rescuers

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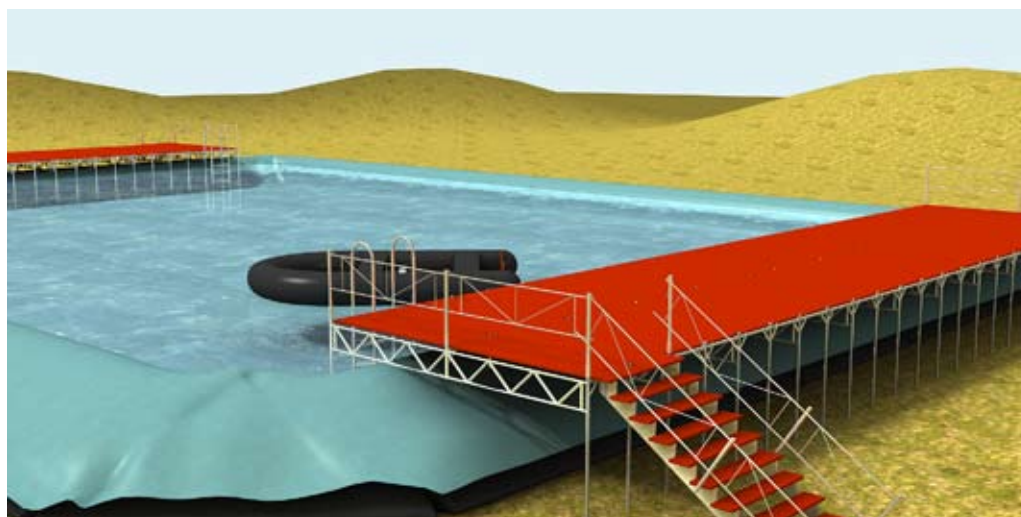
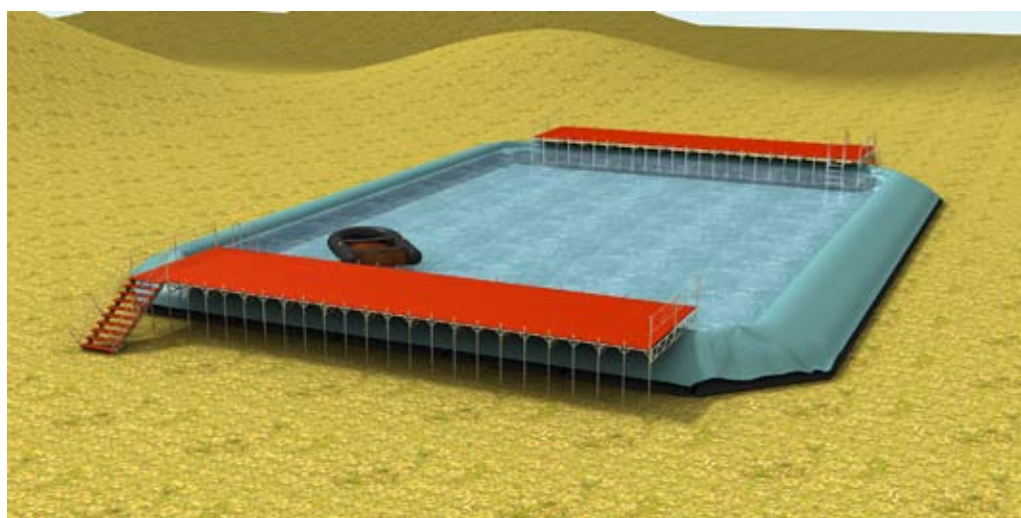


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Training pool JAKUB POOL OUTDOOR

is a purpose-built water pool for outdoor usage, which models water environment and enables training of all required activities in water, such as for instance: training of basic swimming and swimming in garb and with equipment, hidden swimming, swimming in night and under water, swimming against current and in waves, diving without instruments and with them, jumps into water, various methods of rescue and help for the drowning.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
50	4	4	Divers / Technicians

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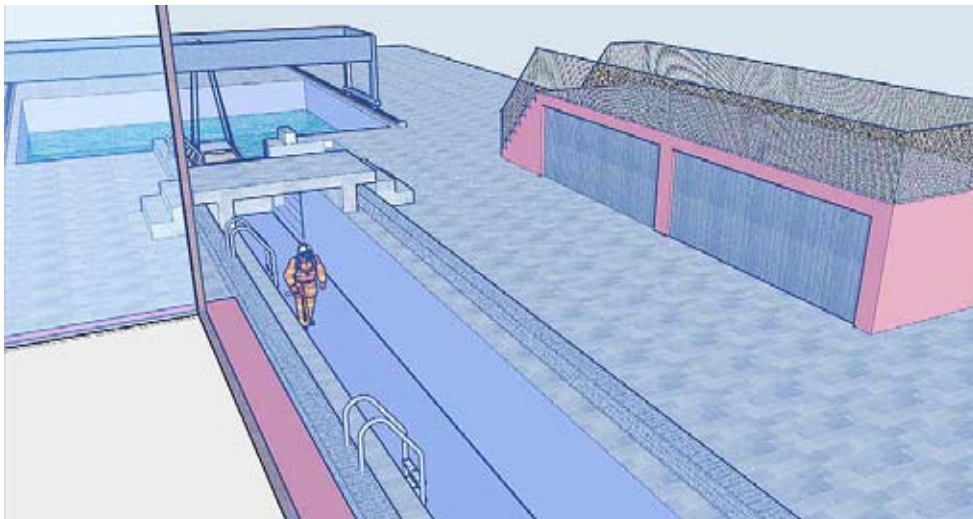
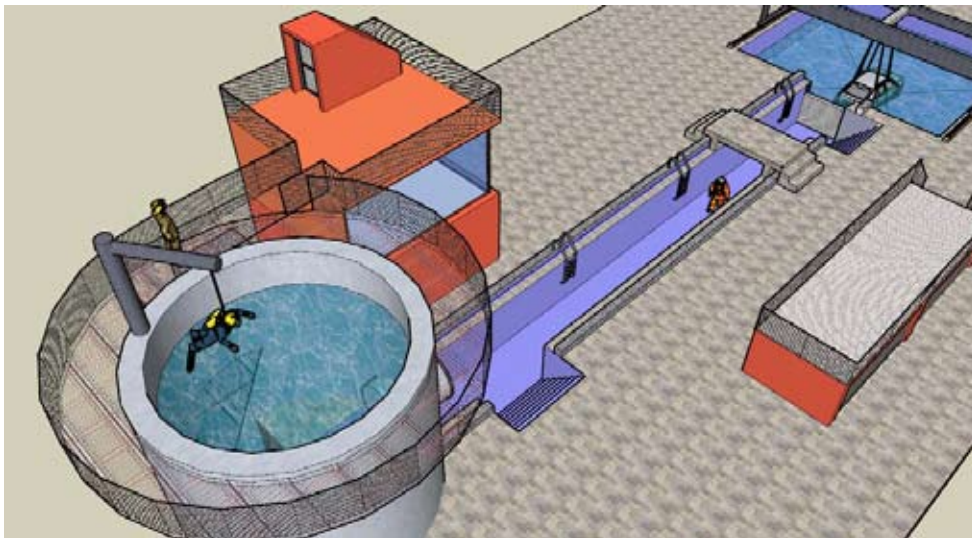


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Diving polygon JAKUB DIVING

is intended for training of army or police divers for training in spaces partially of completely flooded with water and for activities in water current, including work under water, extrication of endangered people and so on. Used technology enables creation of flooding wave or strong water current in artificial basin of the facility.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
30	4	6	Divers / Technicians

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Training hospital JAKUB HOSPITAL

enables practical and professional training of military and civilian medical workers at higher stages of urgent medical care. It contains reception for admission and division of patients, ambulance and three bed rooms. Apart from training of specialists, it provides also a methodical training of layman medical help. It is made from specially produced containers and furnished with necessary equipment, including medical care materials. The access to the hospital is by an asphalt communication including stand-by area.



Training capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
30		4	Technicians

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Control and logistic workplace JAKUB CONTROL & LOGISTIC

Managing, control and logistic centre is a central facility of the training polygon. All important data about training in individual sectors are transferred to the centre. The training is managed, cooperated and assessed on their basis. Information serves also for monitoring with regard to security guard of the training polygon. The centre is equipped with methodical background, library, possibility of training assessment, education, utilization of computer technology and projection.

Workplaces for preparation and planning of training and operation room for training management are established here.

The workplace contains also a section of technical provision of managing, control and communication processes called **JAKUB DATA SECTION**. The task of this section is collection, archiving and assessment of data from the network of sensors, camera systems, operation of communication stations, security elements and other data from the whole training polygon.



Training capacity of polygon pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
200	8	4	Operators / Technicians

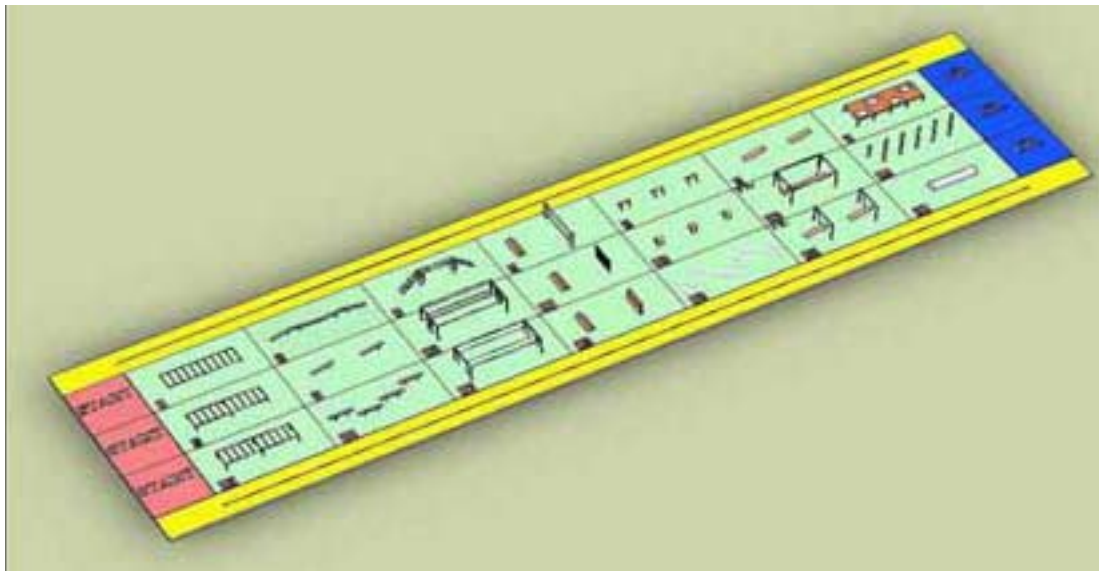
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SUPPLEMENTARY EQUIPMENT FOR GENERAL PHYSICAL PREPARATION

JAKUB PARKUR – Obstacle training ground



JAKUB ROPE – Rope training ground

for training of overcoming depths by rope bridging and solving situations in heights.



Traning capacity pers/hour	Staff for secure of practice - 80% utilization	Staff for secure of operating and service	Notice
50	4	6	Climbers

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REFERENCE LIST OF JAKUB UNI- SYSTEM DELIVERIES

	No. of simulators delivered
<u>Training simulator „JAKUB CLIMBING“</u>	
<i><u>Czech Republic:</u></i>	
Czech Republic Army	19
Prague Municipal Police and Integrated Rescue System	1
The Capital Prague	2
The city of Pribram – Integrated Rescue System	1
<i><u>Arab Republic of Egypt</u></i>	
Egyptian Army - Airborne	1
<i><u>Slovak Republic:</u></i>	
Slovak Republic Army	7
Ministry of Interior - Integrated Rescue System	5
<i><u>France</u></i>	
Firefighting Brigade (Sapeurs-Pompiers)	2
TOTAL Training Center	1
<i><u>Republic of Albania</u></i>	
Republic of Albania Army	1
<i><u>Republic of Georgia</u></i>	
Georgia Armed Forces	1
<u>Helicopter and Paratrooper Simulator „JAKUB KOLOSEUM“</u>	
<i><u>Czech Republic</u></i>	
Czech Republic Army (Vyskov)	1
<i><u>Slovak Republic</u></i>	
Slovak Republic Army (Lest)	1
<i><u>Arab Republic of Egypt</u></i>	
Egyptian Army	1



No. of
simulators
delivered

Small arms shooting range "JAKUB GUN"

Slovak Republic Army	1
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Military, police and rescue activities " JAKUB BUILDING GUN"

Slovak Republic Army	1
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Paratrooper Simulator "JAKUB PARA (DESANT)"

Arab Republic of Egypt

Egyptian Army	1
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"JAKUB VILLAGE" for ARMY, POLICE and RESCUE (CIVIL DEFENCE)

Complex areas with different types of Shooting ranges

Slovak Republic Army, Slovak Police, Slovak Rescue (Civil Defence)

JAKUB VILLAGE – „Village – country“ type	1
JAKUB VILLAGE – „City“ type (including high buildings)	1
JAKUB VILLAGE for Integrated Military, Police and Civil Defence System	1

Fire-fighter Simulator "JAKUB FIRE"

Slovak Republic

Ministry of Interior

Integrated Rescue System Žilina	1
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Rescue Simulator "JAKUB FIRE TUNNEL"

Ministry of Defence, Slovak Republic

Wreckage and Underground Simulator "JAKUB UNDERGROUND"

Slovak Republic, Ministry of Defence	1
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Advanced Target System

Slovak Republic Army

Infantry and MOUT Targets Lifting Device, Targets Rail Platform,	72
Electronic Control Units (MCU and HCU) for target machines	11



uni system
JAKUB

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

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