



SECURITY AND DEFENCE INDUSTRY ASSOCIATION
OF THE SLOVAK REPUBLIC



Security and Defence Industry Association of the Slovak Republic

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Members of SDIA SR in alphabetical order

AEROPROGRES spol. s r.o.

Akadémia ozbrojených síl generála Milana Rastislava Štefánika
(Armed Forces Academy of General Milan Rastislav Štefánik)

www.aos.sk

ALES a.s.

www.ales.sk

Aliter Technologies, a.s.

www.aliter.sk

BAE SYSTEMS (International) Limited

BITUMEX s.r.o.

www.bitumex.sk

Corvus Slovakia, s.r.o.

www.corvusarmy.sk

CSBC spol. s r.o.

www.csbc.sk

DELTA DEFENCE, a.s.

www.deltadefence.sk

DMD GROUP, a.s.

www.dmd.sk

DSSI, a.s.

www.dssi.sk

EVPU a.s.

www.evpu.sk

GEMOR Fashion s.r.o.

Incheba, a.s.

www.incheba.sk

Kerametal, a.s. Bratislava

www.kerametal.sk

KONŠTRUKTA - Defence, a.s.

www.kotadef.sk

KONŠTRUKTA - Industry, a.s.

www.konstrukta.sk

Letecké opravovne Trenčín, a.s.
(Aircraft Repair Company Trenčín JSC)

www.lotn.sk



MAGIC TRADING CORPORATION, a.s.	www.magic.sk
MAGNET PRESS, SLOVAKIA s.r.o.	www.press.sk
MANIPUL s.r.o.	
MONOCO a.s.	
NEWAYS SLOVAKIA, a.s.	www.neways-slovakia.sk
Polus Europe, s.r.o.	www.radiobarrier.eu
PPS VEHICLES, s.r.o.	www.ppsvehicles.sk
Profitcomputing, s.r.o.	www.profitcomputing.com
PWC Avis, s.r.o.	www.pwcavis.sk
PYRA GROUP a.s.	www.pyra.eu
S.G.S. – EXPO, spol. s r.o.	www.expo.sk
S.M.S., spol. s r.o.	www.smsdefence.sk
SEVOTECH spol. s r.o.	www.sevotech.sk
SPINEA, s.r.o.	www.spinea.sk
TANAX TRUCKS a.s.	www.tanaxtrucks.sk
Technopol International, a.s.	www.technopol.sk/military
Trenčianska univerzita Alexandra Dubčeka (Alexander Dubček University of Trenčín)	www.tnuni.sk
Virtual Reality Media, a.s.	www.vrm.sk
Vojenský opravárenský podnik Nováky, a.s.	www.vop-novaky.sk
Vojenský opravárenský podnik Trenčín, a.s. (Military Repair Plant Trenčín)	www.voptrencin.sk
Vojenský technický a skúšobný ústav Záhorie (Military Technical and Testing Institute Záhorie)	www.vtsu.sk
VÝVOJ Martin, a.s.	www.vyvoj.sk
ZTS-OTS, a.s.	www.ztsots.sk
ZTS-ŠPECIÁL, a.s.	www.ztsspecial.sk
ZTS VVÚ KOŠICE a.s.	www.ztsvvu.eu
ZVS holding, a.s.	www.zvsas.sk



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The Armed Forces Academy is a state institution of higher education of a non-faculties structure. It is the only educational institution in the Slovak Republic which provides the military professionals – future Armed Forces officers - with academic education in order to prepare them for the national service.

Objectives

- Undergraduate and postgraduate education
- Cadets' military education and training
- Lifelong education
- Research and development
- University of the third age

AFA departments

- Department of Security and Defence
- Department of Electronics
- Department of Social Sciences and Languages
- Department of Informatics
- Department of Management
- Department of Engineering
- Department of the Physical Education and Training







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Manufacturing programme

- Air Force command and control system
- Air Force and Air Defence Mobile Command Posts
- SHORAD SAM interfacing and control
- AAA units interfacing and control
- MANPADS battery interfacing and control
- Civilian and military ATC systems
- Military TWR/APP systems, Radar sites
- Transportable airport ATC centres
- System for support of SAR operations
- Airspace Management systems / AMC centres

- Radar signal processing upgrade, extractors, scanconverters
- Airport PSR upgrade
- PAR upgrade
- Radar networking
- Surveillance Data Performance Analyses
- ATC and GCI simulators
- Consoles and cabinets ...

Services, repairs, spare parts and modernization of defense technology

- refurbishment of TESLA radars





ATM Systems



Air Force Command and Control System



Mobile Command Posts



Military TWR/APP Systems, Radar Sites



Extractors, Scanconverters



Radar Upgrade



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Aliter Technologies, a. s. is an **integrator, developer and consulting company in the area of information and communication technologies (ICT)**. The company specializes in complex secure information and communication solutions:

- Special ICT systems for armed forces, law enforcement agencies, civil protection and rescue teams
- Data Centers, Cloud Computing
- LAN/WAN networks

Our strengths:

- Customized solutions maximizing customers' ROI
- Provision of a whole lifecycle portfolio of services and solutions
- Application of the most modern existing technologies
- In-house R&D program and proprietary product portfolio

Company has two production divisions, ICT Division and Special Systems Division.

ICT Division specializes in providing services for the entire lifecycle of a solution: strategy definition, analysis of requirements, planning and designing, integration, documentation, testing and 24/7 support and maintenance.

Special Systems Division specializes in analyses, design, R&D, production and integration of specialized ICT systems, intended for support of military and non military crises management operations. The Division solutions are assigned **for operations under all exposed working conditions**.

STRATEGY
ANALYSIS
DESIGN
INTEGRATION
TESTING
SUPPORT





Voice Communication Gateway



Rapid Deployable ICT System

COMTANET®

Integrated Solution of Deployable IP based ICT Infrastructure for Support of Crises Management Operations



Data Control Unit



Commander's Decision Superiority

copyright Miroslav Gyűrösi

COMTAG®

Integrated Solution of Tactical Communications Supporting Commander's Decision Superiority in Network Enabled Operations



ISO 9001



AQAP 2110



ISO/IEC 27001



ISO 14001



NATO Secret



EU Secret



National Secret



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DELTA DEFENCE, a joint-stock company resident at Čapajevova 40, Prešov, is the succession organization of the former state company Vojenský opravárenský podnik 028 Prešov. Our company has dealt with repair of military machinery for more than 60 years and has a long-term experience with repairs of tracked and wheeled machinery. With its equipment and trained personnel, the company is currently able to carry out repairs of heavy combat tanks, light tracked vehicles, wheeled armored vehicles, heavy and medium trucks and off-road vehicles.

The production activity of the company was also influenced by the splitting of the former Czechoslovakia. Here origins the need to enhance the production program by such machinery types which were repaired by Czech facilities. The program was extended by repairs of

Since 2005, in cooperation with the German partner DIEHL BGT DEFENCE, the company has been producing a modernized multiple rocket launcher RM 70/85 Modular for 122 mm and 227 mm MLRS



Rocket-launcher RM-70/85 Modular



Ammunition vehicle

vehicles TATRA 815, T 813, AVIA, KAROSA buses, lorries P50, P50N, cistern vehicles and cranes on TATRA vehicles chasses. Repairs of T-55 tanks were also performed.

The former repair facility grows continuously to an enterprise with its own manufacturing program, mainly based on new productions. This was the purpose of the qualitative requirements and of the introduction of the quality management system due to the norm STN ISO 9001:2000. There was also introduced a quality control system due to the NATO norm AQAP 2120 and AQAP 2110. The company was certified for the European Welding Norm EN 729 -2 and was also certified for the manufacturing of containers of the type ISO 1C. The company takes part in the network of franchise partners and repairers of the TATRA vehicles.

rockets and ammunition vehicles to provide logistics support for the Modular system with the containerized ammunition. Logistic support of the said rocket launcher is provided by the ammunition vehicle, whose development and manufacture was implemented by our company as one of the back-up projects of modernization. For the combat use and training for the modernized launcher, the company develops support systems for training, logistic support and repairs.

We have a manufacturing capability to manufacture ISO 1C and 1D containers with possible specific-purpose equipment, for example



Military ambulance vehicle MASH

as a storage, kitchen, septic tank, controlling post or other specialized modifications for communication systems. The company is able to manufacture cable harnesses for civilian vehicles as well as cable harnesses to MIL standards or military equipment. The company is



Command-post communication vehicle

also engaged in the manufacture of spare parts for military equipment, such as: OT-62 TOPAZ, OT-64, DANA, BVP-1, T-55, T-72.

As far as mechanical engineering is concerned, we offer manufacture of welded steel structures with surface machining as well as aluminum alloy structures according to the customers' requirements and drawings.

One of the projects comprised manufacture and supply of prototypes of the Project of Mobile Communication System MOKYS, in cooperation with a foreign partner BAE SYSTEMS, which was integrated into armored ISO containers, transported on chasses of TATRA T-815 6x6 modernized in our company and into armored vehicle RG32M.

In this respect the company performed a successful development of the armored cabin DEL-KA which provides possibility of ballistic protection of the crew according to requirements, in three levels of protection according to STANAG 4569, Level 1 up to 3. Its construction also ensures enhanced anti-mine resistance with possibility of installation anti-mine seats. The cabin is designed for 2 or 3-member crew with possible equipment, e.g.: air-conditioning, filter-ventilation and heating. The cabin is hermetically closed and overpressurised, equipped with a roof emergency opening. Its dimensions meet requirements of being transportable by ship, rail and air (C-130 Hercules).



Carrier DELTA with armored cabin DEL-KA

Besides the project of special carriers of containers of Tactical mobile landing heliport for Slovak Air Forces, participations in manufacture of superstructures of Command-post communication vehicle (KV), which serves as a mobile means for operational communication center of integrated rescue system of the Ministry of the Interior. KV serves as a mobile utility for operational communication center of integrated rescue system. Its double-space superstructure is installed on the cross-country vehicle of high terrain trafficability. The system comprises communication technologies (radio and line), information technologies, electric power supply, navigation system, meteorological subsystem and video system. The superstructure interior premises are divided into operators' workplace and command-post workplace with two independent entrances. Its equipment includes filter-ventilation, independent heating system, air-conditioning, fridge, microwave oven, multi-purpose equipment, by-pass water heater, safes, fire extinguishers, electric supply center, back-up batteries, lamps and lighting, electric distributor, foldable sunblinds. Military ambulance vehicle MASH ranks among our recent notable achievements.



Carrier TMPS

With the objective to ensure fulfillment of all the company's activities at a high quality level in compliance with respective standards and according to customers' requirements, DELTA DEFENCE, a. s. has become a holder of a range of the certificates as follows:

- Quality management system according to the STN EN ISO 9001:2008 standard
- Conformity to SOŠ AQAP 2110/Z1:2009 for the manufacture of products and services for defence purposes
- Conformity to SOŠ AQAP 2110/Z1:2009 for development of products and services for defence purposes
- Certificate for verification of welding services according to DIN EN ISO 3834-2
- Certificate for manufacture of purpose-made and special superstructures
- Certificate for approbation for the manufacture and repair of ISO 1C and 1D type containers
- Certificate for Repairs and services of TATRA vehicles
- Industrial security clearance from the Slovak National Security Authority



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The DMD GROUP, a.s. is a holding type corporation with asset shares in companies concentrated on research, development, production and sales of defence products: KONŠTRUKTA - Defence, a.s., ZTS-ŠPECIÁL, a.s. and ZVS holding, a.s. The main objectives of DMD GROUP, a.s. are coordination of choice and direction of the major and developmental programs, eliminating the duplicities and ensuring unification and standardization of aggregates and material basis, joint realization of the big projects and principal innovations.

KONŠTRUKTA - Defence, a.s., as a 100% subsidiary of DMD GROUP, a.s., is a R&D company having a proven capability in designing, developing and certifying state-of-the-art land and air defense weapons systems, ammunition, command and control systems, electronic systems and other customized special-purpose superstructures and platforms for both wheeled and trucked vehicles.

ZTS-ŠPECIÁL, a.s., as a 100% subsidiary of DMD GROUP, a.s. has a long tradition in gun production. The company is equipped with technology for complex production of cannons from calibre 30mm up to 155mm for a variety of weapon's systems.

ZVS holding, a.s., partially owned by DMD GROUP, a.s. is one of the leading producers of ammunition, manufacturing various types of small, middle and large calibre ammunition and associated charges, fuzes and primers for guns and cannons.

The detailed information of production programme of all three above mentioned companies are to be found under separate leaflets.







DSSI, j.s.c.

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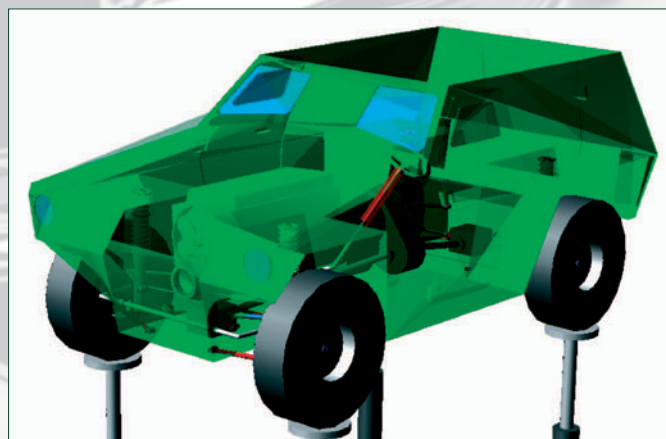
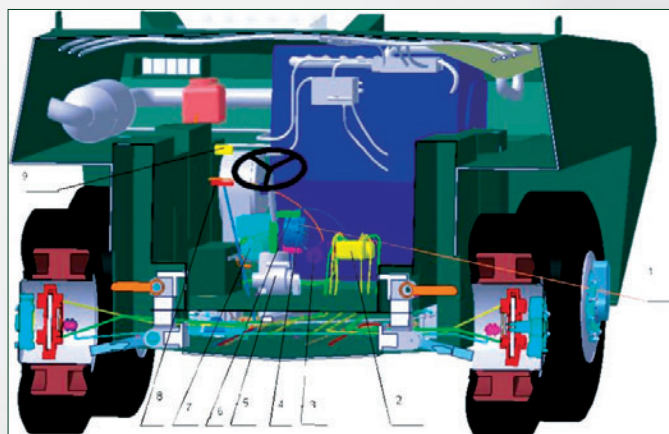
www.dssi.sk

Private research and development company DSSI, j.s.c. was based at the beginning of the year 2004.

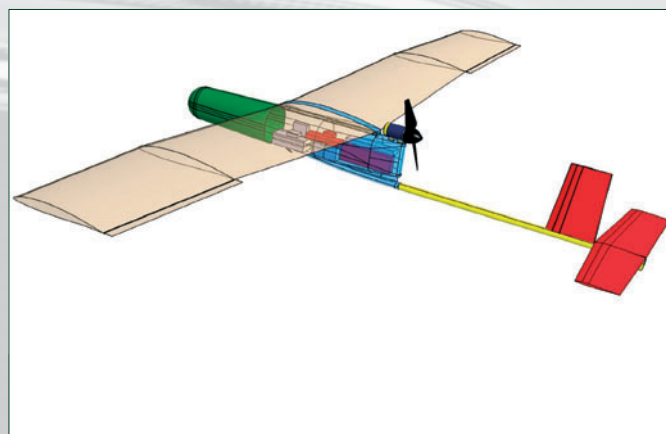
The aim of DSSI activities is to contribute to quality theoretical knowledge and work by innovating original and building new security systems, improving their components with emphasis on technical security defense systems. The company's main research and development orientation in the area of defense and security is processing of studies, analyses, predictions, consulting and schooling. Elaboration of expertise by public bodies, local governments of towns and villages, and the economic sector in Slovakia by providing solutions to actual questions of defense, security and internal safety evokes new phenomena in the development of security with local, regional and international dimensions. In the area of science, research and development, activities in Slovakia are centred on the creation of systemic arrangements translating scientific and technical results into economic practice.

Areas of research and development:

- research of alternative drive systems, hybrid and electric,
- research of intelligent vehicles, vetronic systems, sophisticated subsystems
- non-pilot UAV research
- renewable resources of energy, fuel cells research
- research methods for determination of life cycle price
- automotive engineering of future



In the area of science, research and development, activities in Slovakia put significant demands on the creation of systemic arrangements applying the results of science in the business sphere. In this area, DSSI is profiled as a systemic integrator the main task of which is to create, organize and manage purposefully orientated „ad hoc“ expert teams. The Institute creates innovating nets connecting „ad hoc“ teams with entrepreneurial and industrial subjects in production on the basis of new sophisticated applications and progressive technologies.

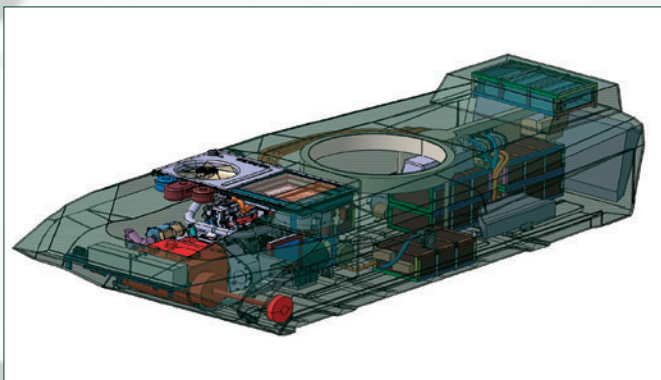


The main concentration of creating innovating networks is contributing in these aspects:

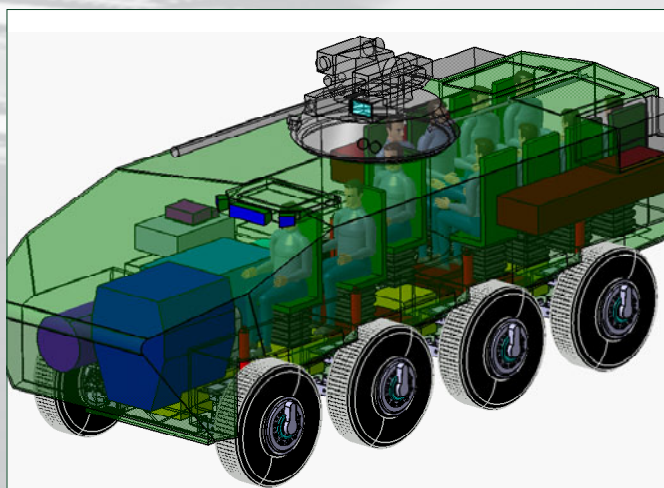
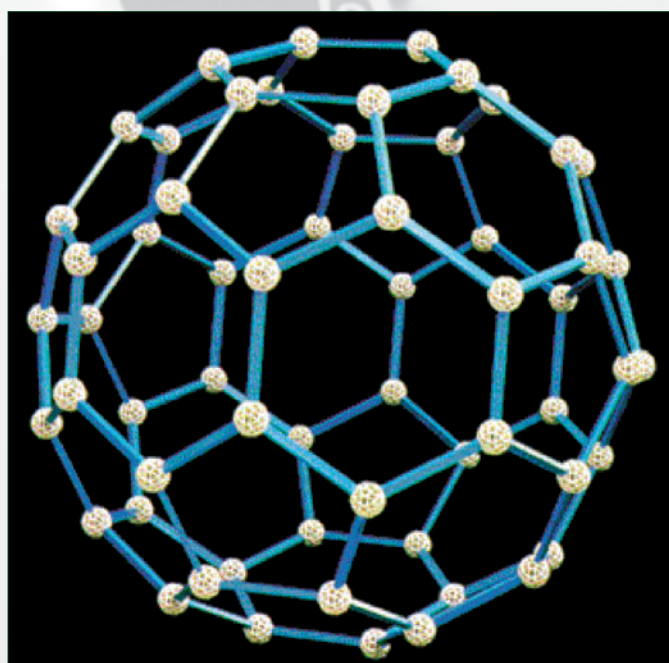
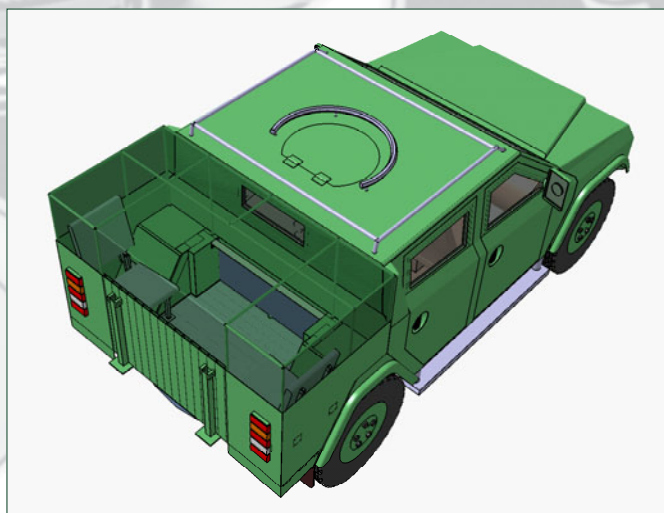
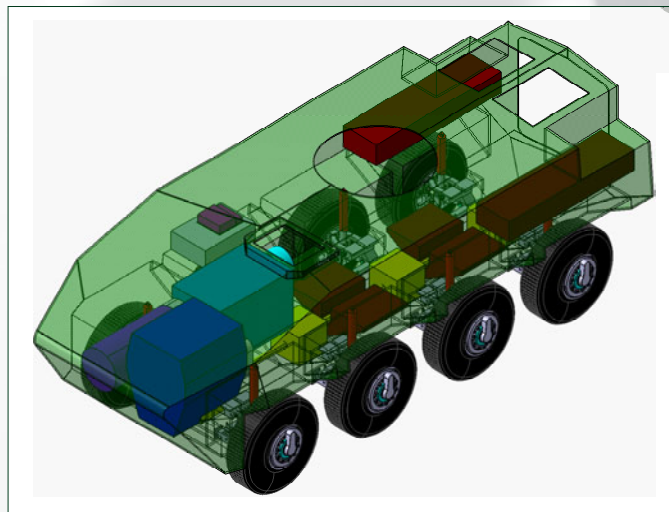
- orientation of research and development, innovation and scientific education on demands of economical based knowledge;
- implementation of non-standard organization's forms of research and development;
- expressive increase of dynamic process in research-developments-produce chain;

Within the frame of DSSI development is created design office of company which, with the support of licensed products of CAD-CAE, is able to ensure design activity in the following sections:

- design, innovation, modernization of vehicles and their construction units;



- design, innovation, modernization of wheeled or tracked vehicles;
- development and projects of implementation sophisticated technologies into construction of vehicles (systems of semiactiv spring, hybrid actuating units, etc.);
- designing of non-pilot devices for vary specification;
- designing of mobile specialized workplace and laboratories;
- consultations in the field of vehicle designing.





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EVPU j.s.c. develops, manufactures and integrates electronic high-performance defense technology and solutions for customers in the world. We are focused on designing, developing, manufacturing and integrating ballistic computers, firing control systems, servodrives, simulators for ground forces, surveillance and reconnaissance systems for defense and for border security. We also offer solutions for upgrading of the firing control system T-72, BMP-1, BMP-2 and anti-aircraft gun ZU-23.

In the process of R&D we use modern facilities, thereby bringing smart and customer attractive solutions in the field of:

Optoelectronic surveillance systems (Stationary, deployable and mobile surveillance systems, SW user applications, control units...)

Fire control systems and gun stabilization for fighting vehicles (firing control systems, stabilization of gun, turret management computers for tank T72, BMP II)

Control and communication systems (Individual range of products for mine-clearing equipment, simulation devices - complete classroom training equipment, desktop versions, vehicle type).

Remote controlled weapon stations (ruggedized design, modular conception allows integration of variety of guns, SW user applications, control unit)

Stabilized and unstabilized two axis pan & tilt heads with high precision



Mobile, deployable and stationary optoelectronic systems



Remote controlled weapon stations with 7.62, 12.7 mm machine gun or AGS17 and integration on armoured vehicle



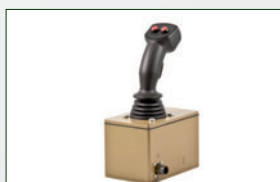
Components for T72 tank modernization



Variety of components designated for infantry fighting vehicles modernization



Components for anti-aircraft gun ZU23 modernization





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KERAMETAL was founded in 1970. It is engaged in both civil and defence sphere focusing on development, marketing and sale of defence systems. Kerametal achieved position of one of the most prestigious organisation following philosophy of participation in the development, production, and sale of the most modern defence



technology systems for the requirements of the Slovak Army, as well as for customers abroad. All these invented and produced systems meet NATO standards, as well as the demanding criteria of modern defence systems throughout the world.

KERAMETAL Company participated in the most challenging projects of the Slovak defence industry such as ZUZANA 155mm self-propelled howitzer with wheeled or track drive, ALIGATOR and TATRAPAN armoured vehicles, TALET T-30 aircraft hauler, RV-20 SAS recovery

vehicle, artillery and mortar fire control system and others. Kerametal is active in the modernization of various defence systems. An example is development, production and successful test completion of the latest light armored vehicle Aligator 4x4 Master, the development of completely new chassis and transmission components for this vehicle, overall modernization of the 152 mm howitzer's Dana



fire control system, modernisation of the T-72 chassis or simulation systems.

Kerametal in collaboration with partners in Slovakia is active in foreign markets for acquisition and sales of live combat simulation systems, land vehicles and flight simulators, optoelectronic devices, mobile hospitals and heliports, technologies for mortar and high calibre ammunition production etc.



• ALIGATOR 4x4 MASTER - Light weight armored vehicle.

ALIGATOR 4x4 - MASTER has been developed and produced to provide the best and diverse solution for the need of the armed forces for light wheeled armored vehicles. ALIGATOR 4x4 MASTER is exceptional mainly because of its light weight, remarkable pay load, low silhouette, high

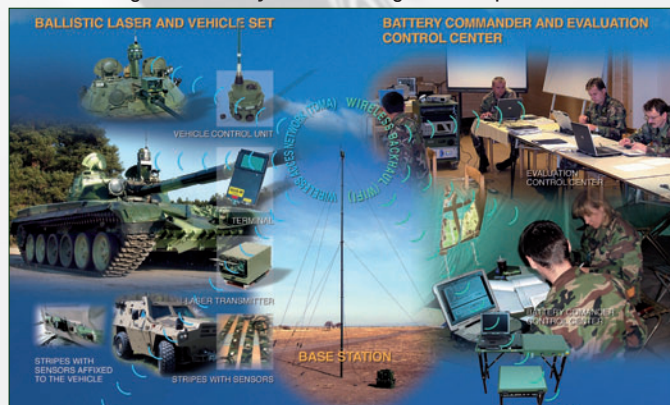


mobility, superior manoeuvrability, high speed, excellent level of survivability, simple transportability for rapid deployment, amphibious regime, above the average ground clearance, and its optimized monocoque hull structure providing all round high level ballistic protection and through its unique modular detachable v-shape floor configuration even rugged anti-mine blast protection. It is ideally suited as adjustable platform for diverse functions and various tactical mission roles such as command, surveillance, reconnaissance, weapon station or police tasks. Vehicle was introduced into the armed forces service in 7 various modifications.

• LIVE COMBAT TRAINING SIMULATION SYSTEM (CTSS)

CTSS shooting and tactical live training simulator is a special optoelectronic equipment compatible with all armour equipment and fits to all infantry weapons.

Main advantages of the system: Training actions performed on real



weapon system, no ammunition consumption, no wear and tear to the weapon, easy to use mobile and modular system, force on force combat tactical training, mode of ballistic firing simulation.

• FIRE CONTROL SYSTEM FOR FIELD ARTILLERY APPLICATIONS

Complete fire control system up to the level of brigade, which is suitable for new units and for the artillery modernisation programs.

• PORTABLE FIRE CONTROL SYSTEM

Operational for any kind of mortars and for towed guns. Applicable for 60mm 81mm 98mm and 120mm mortars and artillery. Simple operation with keyboard, all "Change and View" mode (fire and all other elements are recalculating automatically after any keyboard input from user).



• MOBILE FIELD HOSPITALS

System providing medical aid and perform requirements of compatibility and interoperability with mobile medical units for provision of special medical care in severe exposures.

• LAND VEHICLES AND FLIGHT SIMULATORS



Both FTD and FMS flight simulators for military and civilian aircrafts and helicopters, and simulators for personnel or combat armored vehicles and tanks.

• MOBILE HELIPORTS

Provides all necessary means to support communication with and landing of military helicopters or aircrafts in field conditions, ensures transportation built up and operation of radio communications, radio navigations, landing lights and support systems for air controllers to enable secure GAG communications and landing of helicopters on temporary landing zones. It is autonomous system independent of any support. Land surface transportation is provided by two trucks. System is fast deployable.

• OPTOELECTRONIC SYSTEMS AND DEVICES

The border and coastal line protection and protection of other strategic areas or important sites or buildings are the main missions. Equipment is focused to recognize and identify persons and their transportation equipment by the day or night vision, even while bad weather conditions. Equipment operates on long distances and it could be used as a fixed on poles, masts or towers, deployable for operational use and mounted on vehicles and vessels for surveillance.



• TECHNOLOGIES FOR MORTAR AND HIGH CALIBRE AMMUNITION PRODUCTION



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KONŠTRUKTA-Defence, Inc. is a R&D company that has a proven capability in designing, developing and certifying state-of-the-art land and air defense weapons systems, ammunition, command and control systems, electronic systems and other customized special-purpose superstructures and platforms for both wheeled and tracked vehicles.

Our competence and capabilities have been proven over decades of work in the defense R&D business. Products developed, modernized or modified by our company are used and appreciated by customers in Central and Eastern Europe, Middle East and Africa.

As a truly development company we provide our customers with a coherent and complete service. We identify customer requirements, provide a solution and subsequently design, develop and certify a final product. Using computer aided design technology (CAD, IDEAS) we produce and provide our customers with a complete Technical Data Package (TDP) for a demonstrator, prototype and serial production. Along with the TDP, we secure the manufacture of any hardware designed under our development including the demonstrator and prototype. We plan, organize, execute and evaluate all tests and trials that come under the certification of any system we develop to make sure and prove that the system fully conforms with the technical and tactical requirements imposed by a customer.

KONŠTRUKTA-Defence strives to become an international player in the global marketplace. We have a deep technical understanding in various "Eastern" defense systems spread in reasonable quantities in Europe, Middle and Far East, and Africa. We recognize that there exists a real need in a number of countries, including some NATO members, to modernize existing "Eastern" as well as "Western" systems that are now becoming obsolete after being in service for several decades. This need is expected to grow as national defense budgets continue to shrink. We are here to provide our expertise and produce highly efficient and cost effective solutions. In order to be in a position to serve also those customers who wish to modernize their "Eastern" systems to meet "Western" standards, KONŠTRUKTA-Defence quickly adopts and implements NATO standards and practices. DESIGNING AND DEVELOPING SINCE 1953:

Weapons systems

- Rocket Launchers
- Artillery Systems
- Mortar Systems



Ammunition

- Tank and Antitank Ammunition
- Artillery Ammunition
- Unguided Rockets and Missiles

Electronic systems

- Control blocks for rocket launcher, artillery, and air defense systems
- Fire control and command systems
- Surveillance systems
- Electronic components and elements for weapons and ammunition systems
- Simulators and other training systems

Special superstructures and Platforms

- Integration of weapons systems on both wheeled and tracked chassis
- Integration of armored turreted superstructures on both wheeled and tracked chassis
- Ammunition re-supply vehicles and engineering vehicles
- Other specialized mobile systems

Performance of special tests of weapon systems and other defense related equipment

- Climatic and mechanical tests
- Tests and trials of weapons systems, ammunition and their component parts
- Tests of explosives
- Tests of engineering equipment
- Tests of personnel protective equipment (ballistic vests and helmets etc.)

References as a Supplier to the Armed Forces

- Self-propelled Explosive Mine Clearing Vehicles
- Mine Clearing and Practice Projectiles
- Remote Explosive Initiation Sets
- 81mm Light Mortars
- 81mm Mortar Bombs
- 155mm SpGH ZUZANA 2





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Konštrukta-Industry a.s. is concerned with the development, designing, production and delivery of complete plants, technological and special machines for explosives industry since more than 57 years. The professionals of company are highly experienced and qualified not only in the field of experimental testing of explosives processing. Technological design of complete plants and delivery of technological equipment as well as erection and commissioning are implied part of the project supplied by our company.

PRODUCTION PROGRAMME

AMMUNITION FILLING PLANTS

- Screw Filling Machines
- Casting Lines
- Pressing Machines

EXPLOSIVES PROCESSING PLANTS

- TNT, TNT/RDX, TNT/AI Solid Pieces Production Line
- TNT, TNT/RDX Pellets Production Line
- Flaking Device For Molten Explosives
- Extrusion Machine For Plastic Explosives



PRODUCTION PLANTS

FOR DOUBLE - BASE PROPELLANTS

- Continuous Production Line
- Rolling Mills
- Screw Extruders
- Dryers
- R&D Small Capacity Equipment

EQUIPMENT FOR AMMUNITION ASSEMBLY, FINISHING & CHECKING

- Cleaning Machines
- Spraying Line
- Crimping Machine
- Loading Ability Check Up Machine
- Pull-apart Machine
- Sealing Check Up Device

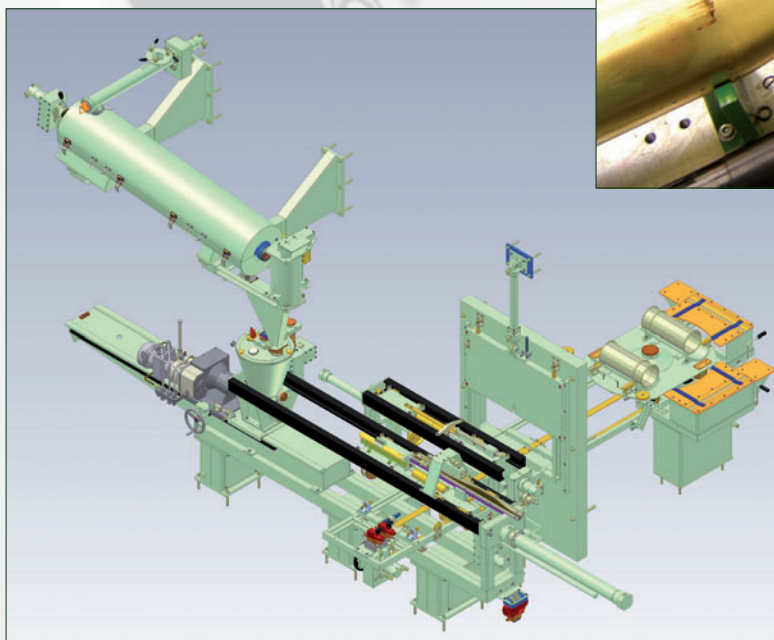
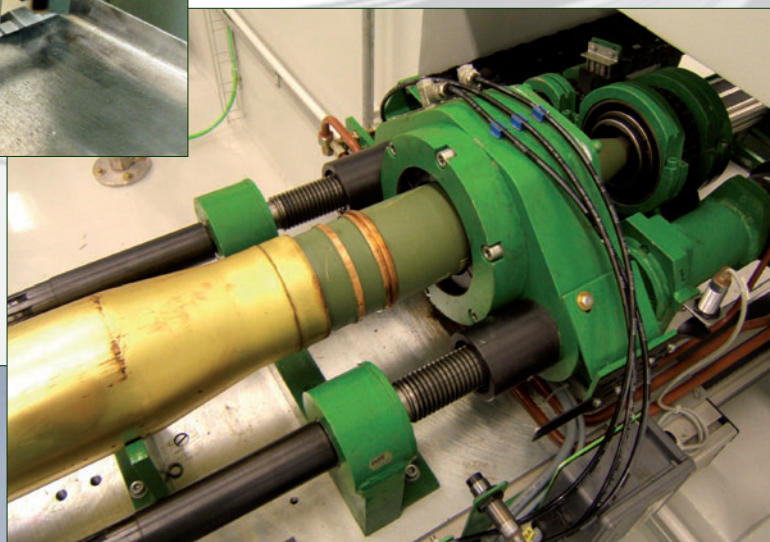
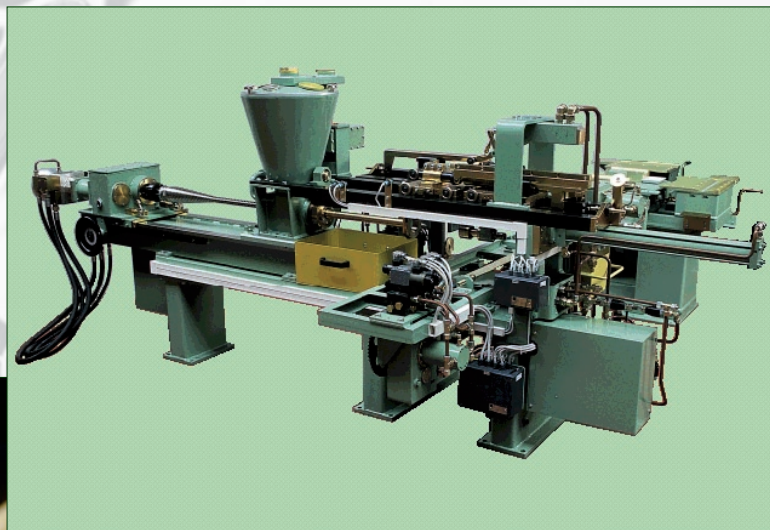
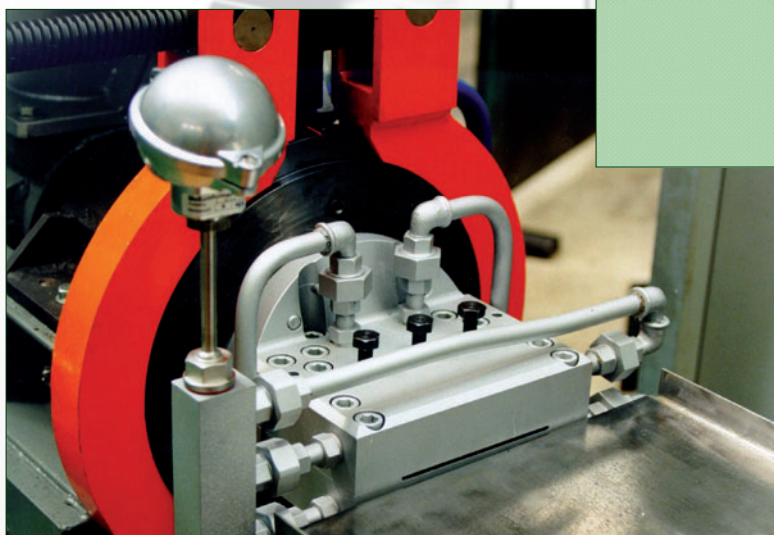
EQUIPMENT FOR AMMUNITION DISASSEMBLY & DEMILITARIZATION

- Ammunition Disassembling Machines
- Equipment for Explosive Charges Removal
- Equipment for Ammunition Elements Disposal
- Equipment for Explosives Reprocessing

INDUSTRIAL EXPLOSIVES PRODUCTION PLANTS

- Explosives Mixing Machine
- Boosters Production Line







LETECKÉ OPRAVOVNE TRENČÍN, a.s.

LETECKÉ OPRAVOVNE TRENČÍN, a.s.

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AIRCRAFT MAINTENANCE, REPAIR & OVERHAUL

TRADITION

- involved in aviation business since 1949
- engaged in maintenance, repair, overhaul, and modernization of fixed wing and rotary wing aircraft including avionics systems, subsystems, mechanical components, and airframes

RELEVANT CAPABILITIES

- extensive purpose-built facilities, workshops, equipment, and tooling to support the core business activities
- dedicated in-house design and technological department qualified and competent to carry out aircraft upgrade and modernization programs
- LOTN owned and operated airfield

COMPETENCE

- 400 employees to include aviation engineers, technicians, mechanics, and support staff

CUSTOMER FOCUS

- renowned provider of high quality services and technical support to the Slovak Air Force and a number of Armed Forces worldwide

CORE PRODUCT PORTFOLIO & CAPABILITIES

PRODUCTS

- **maintenance, repair, overhaul, and modernization** of the following aircraft and their variants:
Mi-8/17/171 multirole transport helicopter
Mi-24 attack helicopter
L-39 multirole trainer aircraft
Mig-29 fighter aircraft
L-410 transport aircraft

- **unique production facilities and test equipment** allowing to perform maintenance, repair, and overhaul of airframes and major avionics and communication systems and subsystems onboard the above aircraft down to the component level

CERTIFICATION

- OEM certified maintenance, repair and overhaul organization by MIL Moscow Helicopter Plant for Mi-8/17 helicopters
- ISO 9001:2008 Quality Assurance System
- NATO AQAP Quality Assurance System
- MAA Certification
- EASA Part 145 Aircraft Maintenance Organization Approval
- MAK Interstate Aviation Committee certified overhaul and repair station for Mi-8/17 helicopters





**MIL Moscow Helicopter Plant Approval Certificate:
Military purpose authorized overhaul facility
for Mi-8/17 helicopters**



**MIL Moscow Helicopter Plant Approval Certificate:
Civil purpose authorized overhaul facility
for Mi-8/17 helicopters**



**ISO 9001:2008 Quality Certificate
&
NATO AQAP Quality Certificate**

**MAK Interstate Aviation Committee Approval Certificate:
Authorized overhaul facility for Mi-8/17 helicopters
&
EASA Part 145 Approval Certificate**



**MAGIC TRADING CORPORATION, a.s.**

Kuzmányho 940/11, 031 01 Liptovský Mikuláš, Slovak Republic

Phone: +421 44 5526 419, +421 44 5475 700

Mobil: +421 915 899 558

Fax: +421 44 5526 837

E-mail: magic@magic.sk

www.magic.sk

MAGIC TRADING CORPORATION, a. s. is a trade, research and development company which deals with special military material supply, mainly for the Slovak Ministry of Defence, Slovak Ministry of Interior, Customs Directorate and other security organizations.

The company was founded in 1996 as a limited company. It was transformed from Ltd to a joint-stock company in April 2003. Management system of MAGIC TRADING CORPORATION, a. s. was awarded with the certificate of quality in October 2004 by company BVQI in accordance with standards ISO 9001:2000 which increased the value of the company.

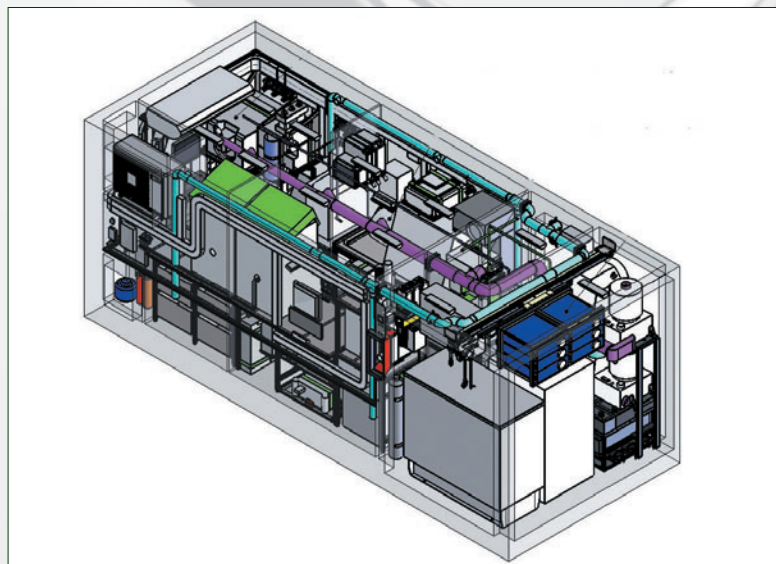
In finding complex solutions and making projects in the field of security and communication systems, MAGIC TRADING CORPORATION, a. s. cooperates with supranational companies such as THALES Defence Deutschland GmbH, Germany, Sagem Défense Sécurité S.A., France, Simrad Optronics ASA / VINGHOG AS, Norway, Accuracy International, Ltd, UK, Heckler & Koch GmbH, Germany, MSA AUER GmbH, MSA GALLET S.A., France, RUAG Electronics, Switzerland, Elcoman SRL, Italy, Rheimetall Waffe Munition GmbH, Germany, etc.

Products and services:***Research and development***

- development of special equipment for the Slovak Ministry of Defence
- development of individual infantry combat system for the Slovak Ministry of Defence
- applied research on digital X-ray radiology
- nanotechnologies research
- tempest PC's development
- research and development in the medical field

Communication technologies

- communication systems analysis
- consulting
- system design and realization
- telecommunication systems



MOBILE IDENTIFICATION AND CHEMICAL LABORATORY - MICHL



VEHICLE FOR THE MONITORING AND SAMPLE
COLLECTION GROUP VSKOV-M

Security systems

- supply of shredders
- information security
- special vehicles for transport of secret documents

Military material supplies

- observing equipment and reconnaissance devices
- tracking, monitoring and evaluating devices
- live simulation technologies
- small arms
- optoelectronics
- weapon accessories
- ammunition
- special vehicles for measuring of parasite electro-magnetic radiation
- special armoured off-road vehicles for army needs
- special chemical, biological and radiological vehicles

The most important projects and products:

MOBILE IDENTIFICATION AND CHEMICAL LABORATORY - MICHL

- Self-sufficient container type laboratory ISO-1C with high level security, special chemical-analytical facility that includes technological area, decontamination module and laboratory area. This Laboratory is equipped with its own communication and control system.
- Laboratory can be transported to its destination place by off road truck TATRA 815 270 R8441300 8x8,2 – equipped with container side loader STEELBRO KL 300/61. Laboratory can also be transported by railways, sea or air.
- The Laboratory performs its tasks in areas adjacent to affected places, not directly in the danger zone, including tasks in urban areas. This Laboratory is suitable for work with the most dangerous chemical materials.

VEHICLE FOR THE MONITORING AND SAMPLE COLLECTION GROUP VSKOV-M

Off road vehicle LAND ROVER DEFENDER, 130 Crew



Cab Chassis Quadtec 2 with special upgrade to personal space and space for equipment.

- Equipment of the vehicle includes the following: board computer, control and communication system with GPS, meteorological sensor, equipment for radiation, chemical and biological research.
- Mobile equipment for monitoring and identification of radiation, chemical and biological (RCHB) contamination. Equipment for individual personal protection and secure breathing masks.

ADVANCED INDIVIDUAL COMBAT SYSTEM

MAGIC TRADING CORPORATION a. s. has been working on this project – a part of Dismounted Soldier Programme - for the Slovak Ministry of Defence since 2004. Estimated time for its finishing is December 2011. Its main goal is to give land forces modern technology for more effective fighting, reconnaissance and survival. Dismounted soldier programme is taken very seriously by HQ NATO and CNAD.





Neways Slovakia, a.s.

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Fax: +421 42 4433 744

E-mail: mt@neways-slovakia.sk

www.neways.nl

Neways Slovakia, a.s. is a Business Unit and Production Facility of Neways Electronics International NV. with the Headquarters in the Netherlands.

Neways is a progressive "Electronics Manufacturing Services" (EMS) provider, active in the International EMS market and a valuable partner for International Defence Material Suppliers.

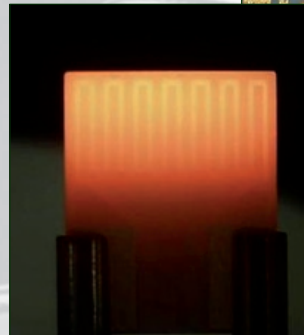
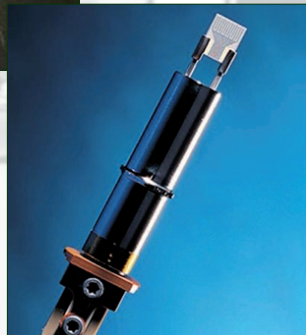
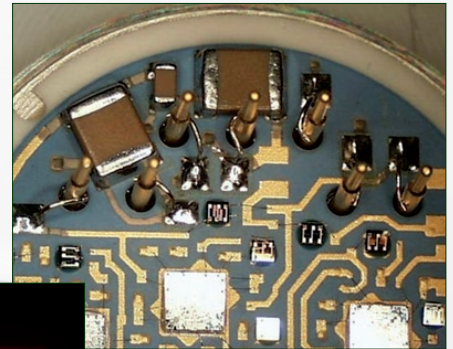
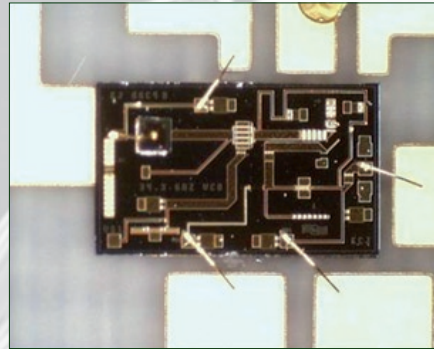
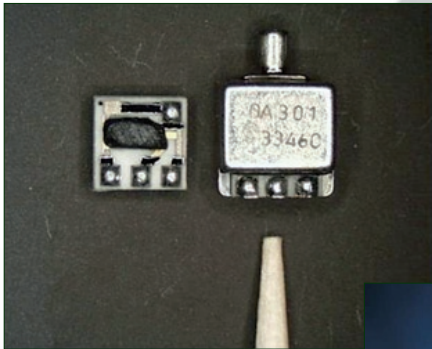
The core activity of Neways consists of a broad range of innovative, "State of the Art", electronics production and assembly processes, distributed in Europe over Operating Companies in The Netherlands, Germany, and Slovakia.

- **Electronics, based on Printed Circuit Board Assembly**
- **Cable and Wire Harnesses, Bundles Assembly**
- **Integration & Test of Systems,**
- **Electrical Cabinets and Consoles**

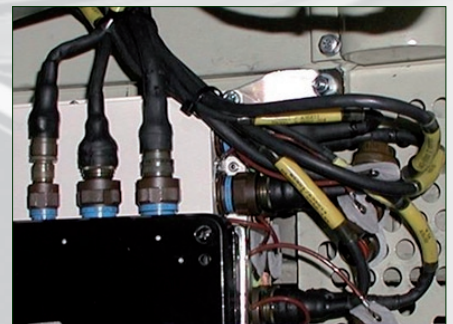
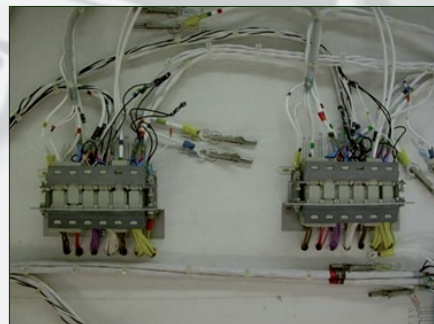
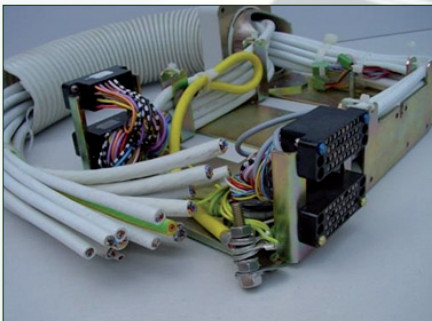
Through intensive co-operation with the Customer, involving the Development, System Integration, Test, Service and Repair of complete (new) products, "Life Cycle Management" has also become a capability of Neways. By early involvement of Neways, our Customers can develop new (defence) systems in a way (Design For Manufacturability) that subsequent production can be performed in the most efficient manner. As an option, Neways can also take care of Product Qualification.

Through intensive co-operation with the Customer, involving the Development, System Integration, Test, Service and Repair of complete (new) products, "Life Cycle Management" has also become a capability of Neways.

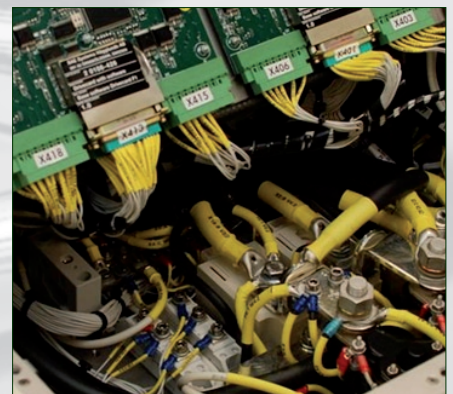




NEWAYS MICRO ELECTRONICS



NEWAYS CABLE & WIRE SOLUTIONS



NEWAYS INDUSTRIAL SYSTEMS



POLUS EUROPE

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E-mail: info@radiobarrier.eu

www.radiobarrier.eu



ZBOP

Polus Europe, s.r.o. is a dynamically developing company focused on complex services (including pre-sales, sales and post-sales services) of the unique autonomous intrusion detection system RADIOBARRIER in European countries. Polus Europe, s.r.o., as the **official authorized distributor of the RADIOBARRIER autonomous wireless intrusion detection system in Europe**, cooperates very closely with the manufacturer – the Innovation Company POLUS-ST LLC, which has been successfully selling its products in the security systems market since the year 2000.

The complex services offered by Polus Europe, s.r.o. include:

- Building and maintaining local dealer networks in Europe
- Visual inspection of the destination area (installation site) with detailed consultations with dealers and/or customers;
- Complex system design according to customer's requirements and needs;
- Installation and commissioning of the system;
- Service

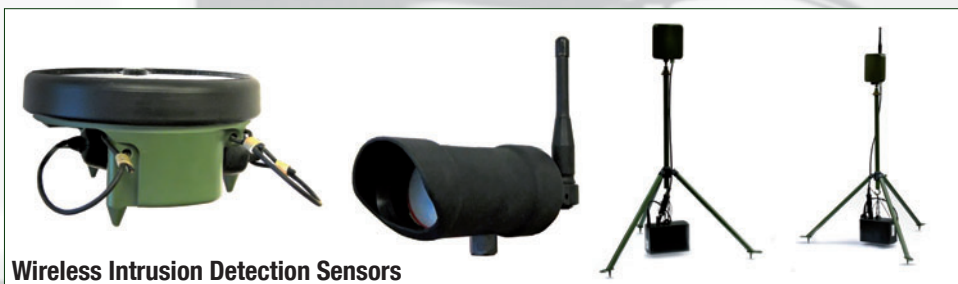
The RADIOBARRIER System is a battery-operated wireless rapidly deployable compact intrusion detection system designed to detect



Receiving and Controlling Equipment

an intruder that has penetrated a protected terrain area. One of the main advantages of the system is **the exceptional concealment that makes it virtually impossible to reveal the installation place.**

The RADIOBARRIER Intrusion Detection System ensures control over protected facilities and terrain areas by displaying signals of intru-



Wireless Intrusion Detection Sensors

sion attempts to the controlled zone and the situation (status of the wireless sensors), with the sensors' coordinates linked to the terrain plan or map.

The RADIOBARRIER Intrusion Detection System includes detection devices based on different physical principles of operation (seismic, radio wave, infra-red and magnetic) and video surveillance devices allowing to detect and identify the intruder.

Radio communication between the devices of the system is based on a special two-way secure radio channel. When the devices are installed on the terrain, data exchange routes are automatically established between them. Each detection device operates as a repeater, thus enabling transmission of alarm information to a long distance (up to 100 km).

Alarm signals from the detection devices are transmitted to the handheld KOPR Control Receiver and/or stationary PORT Operator's Console with the Mapping System software installed on it. The software allows graphically displaying the wireless sensor's location with its linking to a plan or mapping of the protected territory and alerting the operator when alarm situations occur (by sound, text messages or color of the symbols).

In a number of cases, it is not sufficient for the operator to receive only an alarm signal from the installed wireless sensors. The operator may need to see what happens along the detection line,

determine the number of intruders, the direction of their movement, determine if they are armed, etc. For this purpose serves the battery operated video surveillance system which is triggered by a signal from any detection device or by operator's command. The video information is sent to the PTV Handheld TV Receiver and/or stationary Operator's Console to a distance of up to 20 km.

Features

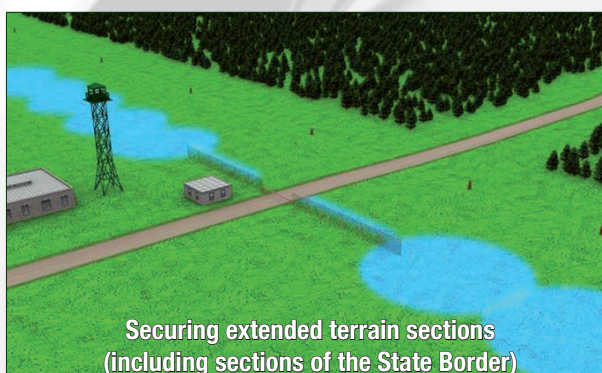
- **AUTONOMY** - Unprecedented autonomous operation time from small-size autonomous power supply sources: seismic detection devices – up to 5 years, microwave and infra-red detection devices – up to 3 years, video surveillance system – up to 6 months.
- **SIMPLICITY OF INSTALLATION AND MAINTENANCE** – compact size, light weight and simplicity of installation allow two specialists to deploy 1 km of the detection line in less than 1 hour. It is worth noting that the detection radius of the seismic sensor is up to 100 m (a human) / up to 200 m (a vehicle).
- **RELIABILITY** – wireless transmission of information via a bidirectional secure radio channel with a guaranteed delivery of alarm messages to a long distance (up to 100 km).
- **INTEGRATION** - possibility of integration at the hardware and software level.
- **ECONOMY** – economy on the cost of design and installation work and materials as no power supply and communication cables are required and there is no need for a preliminary engineering preparation of the terrain.
- **UNIQUENESS** – Protection of facilities that do not allow wire-based solutions, also in mountains.



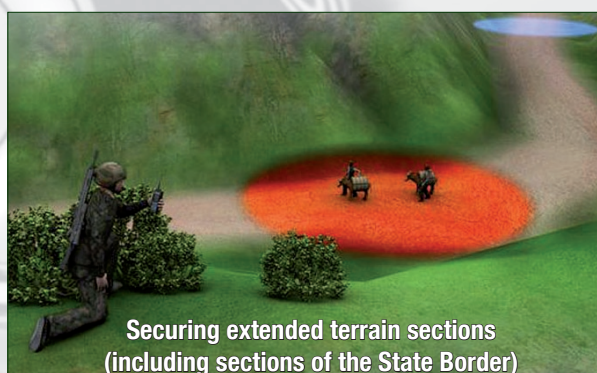
Wireless Battery-operated Video Surveillance System

Characteristics

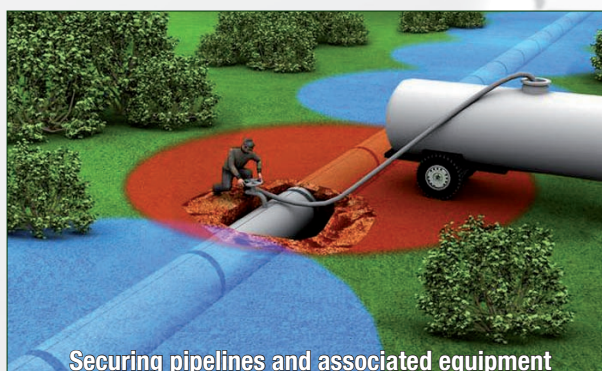
	Basic Performance Characteristics	Values
1.	Autonomous operation time of the RS-U Seismic Multi-Sensor	Up to 5 years
2.	Time required for two person to deploy 1 km of detection line	No more than 1 hour
3.	Alarm and service data transmission	Two-way secure radio channel
4.	Alarm signal transmission range (when using repeaters)	Up to 100 km
5.	Video feed transmission	Radio channel
6.	Video feed transmission range	Up to 20 km



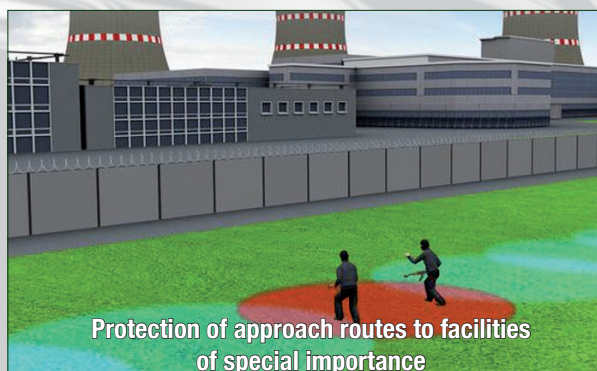
Securing extended terrain sections
(including sections of the State Border)



Securing extended terrain sections
(including sections of the State Border)



Securing pipelines and associated equipment



Protection of approach routes to facilities
of special importance



PPS VEHICLES, s.r.o.

Address: Tajovského 7, 962 12 Detva, Slovak republic

Phone: +421 45 5459 818

+421 905 505 415 - director

Fax: +421 45 5459 818

E-mail: director@ppsvehicles.sk, lietavam@pobox.sk

www.ppsvehicles.sk

Introduction of PPS VEHICLES, s.r.o..

Since its set-up in 1955, Podpolianske strojárne Detva has undergone difficult transformation from a state enterprise to a joint stock company. In 09/2003 PPS Detva was renamed PPS Group, a.s.. The PPS VEHICLES, s.r.o. (Ltd) company was established for special defence production and trade as a subsidiary corporation of PPS.

View of PPS

Company's history in the defence manufacture
PPS Detva has more than 50 years of experience in manufacturing defence armoured tracked and wheeled vehicles.

- In the years 1959-1962: the OT-810 HAKL semi-tracked armoured personal carrier.
- During the years 1962-1973: the OT-62 Tracked Armoured Personnel Carrier.
- Since 1970 it has produced the BVP-1 Infantry Fighting Vehicle and its modifications (VPV, AMBs, BZvP, BVP-1K)
- In 1986, it started manufacturing the BVP-2 Infantry Fighting Vehicle.
- Since 1992, it has manufactured the TATRAPAN Armoured Terrain Vehicle in different versions.



Research and development activities of PPS VEHICLES, s.r.o.

The company uses external development capacities, for wheeled vehicles TATRAPAN, VYVOJ Martin, a.s., for tracked vehicles licence KNOW-HOW.



Manufacturing programme PPS VEHICLES, s.r.o.

The company manufactures the following commodities:

- TATRAPAN 6x6 Armoured Terrain Vehicle
- spare parts

The main manufacturing programme of PPS VEHICLES is the production of TATRAPAN 6x6 vehicles and their modifications. The TATRAPAN 6x6 Armoured Terrain Vehicle is an all-armoured vehicle mounted on a military version of the T815 VP 21 275.1R chassis with removable superstructure.

The TATRAPAN 6x6 Armoured All-Terrain Vehicle is produced in two basic versions:

- TATRAPAN T1/Z1 – standard transport version for task forces
- ZASA - transport / patrol version designed for UN operation
- AMB - ambulance vehicle
- TATRAPAN VESPRA - mobile command staff version
- PVO - air defence mobile command post
- DELSYS - artillery battalion mobile command post
- BAZUS - ZUZANA howitzer battery mobile command post
- VPG - ZUZANA howitzer battery mobile command post (Greece)



- MOD - mobile command post with modernise engine-transmission mechanism
- PVO ASTRA - air defence mobile command staff version
- VŠRV-2 - MOKYS mobile command staff version
- Spare parts

Spare parts present a range of goods and self-production for tracked BVP 1, BVP 2, VPV, AMB-S vehicles and TATRAPAN 6x6 vehicles.

Services and cooperation of special defence technology

Represent operation of service, presentation, technical assistance, repairs and modernisation of special defence technology within activities in the Slovak Republic, but also in abroad according to requirements of customers and other companies' business activities.

The main range of services and cooperation are following products: BVP 1, BVP 2, VPV, AMB-S, TATRAPAN.





S.M.S. s.r.o.
Supplier of Military Systems



S.M.S. s.r.o.

Supplier of Military Systems

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+421 42 4425574

Fax: +421 42 4422325

+421 42 4421150

E-mail: smsdefence@slovanet.sk

www.smsdefence.sk

S.M.S. s.r.o. with over two decades of experience has established itself as a recognised company in the defence sector. We have achieved a firm global position in the market by marketing of products of Slovak and Eastern European Defence Industries Building upon the foundations of our international position in the market, a diversified base and records of proven performance, S.M.S., s.r.o. is a traditional supplier of defence products for the Armed Forces of the Slovak Republic.

In the world of business today, we are a project oriented company and a system integrator of tailored solutions with support of third parties. Our expertise spans over three main business groups – delivery of final products, turnkey solutions & system integration, and consultancy services.

As a dynamic and innovative organisation, we place great emphasis on development of our relationships with customers. It is through skills and dedication of our employees gathered through many years of experience in many countries of the world. Detailed knowledge of the problems from the technical and administrative points of view simply guarantees reliability and complete professionalism in the execution of supplier's activities.

The present quality policy built on experience and expertise of the staff in the area of legislation and generally binding, though unwritten rules of business ethics, is also directed towards the aim to accurately and quickly satisfy specific customer needs.



Our core business is delivery of final products and rendering of related services as follows:

- **AMMUNITION** – ball, blank and training small caliber ammunition, artillery ammunition, mortar bombs and rockets, aviation ammunition, bombs, guided and unguided rockets, modular charges, grenades, fuzes and components.
 - Delivery of final products, prolongation of life-time, utilization and organization of firing tests.
- **INFANTRY WEAPONS** – pistols, assault rifles, sub-machine guns, machine guns, grenade launchers and components.
- **ARMoured & ARTILLERY VEHICLES** – tanks, recovery vehicles, armored personnel carriers, bridge layers, self-propelled

howitzers, ammunition vehicles, howitzers, mortars, rocket launcher etc.

- Delivery and reconditioning, upgrade packages and spare parts for: 122 mm RM-70 rocket launcher, 152 mm self-propelled howitzer m. 77 DANA, BMP-1 & BMP-2 IFV, T-72 & T-55 MBT
 - Maintenance, repair and upgrade of optical devices like day/night sights, periscopes for above listed tanks and infantry fighting vehicles.
- AVIATION & AIR DEFENCE** – transport aircrafts, fighters, helicopters, spare parts and components.
- Delivery of L-39 trainer, Mi-17 helicopter, spare parts supply, upgrade program and training of the crew.
 - Upgrade package for 23 mm AA gun ZU-23-2



Sevotech

opravy špeciálnej spojovacej techniky

SEVOTECH s.r.o.

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Slovak Republic

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E-mail: office@sevotech.sk

www.sevotech.sk

SEVOTECH s.r.o. is private company focused to maintenance and repairs tactical communication devices used in armed forces. Company was found in 1996 and allways expand services of supply communication devices used in Slovak armed forces.

Company has licence for sales military equipment, implemented ISO 9001:2008 quality management system and Certificate of conformity AQAP 2130 by Defence Standardization, Codification and Government Quality Assurance Authority.

Our partner is DICOM company from Czech republic, HARRIS RF Communications from USA and Elbit Systems (Tadiran) from Israel. We cooperate with VOP a.s. Trenčín and supply Slovak armed forces in peace missions.

We offer all maintenance and repairs level for all devices. Also obsolete, but allways used devices R-123, R-130, R-111, R-107, R-173, R-124, R-174, R-140, RDM-6/12, R-3A, OT-64M, OT-64 R3MR, BVP1-K1, BVP-2. We have all necessary technical documentation for maintenance and repairs accepted by Government Codification Authority.

We have professional engineers team and full capability include mobile repair centre, we also supply all accessiores of tactical communications.

Warranty for our services is 6 months for repaired devices and 24 months for new devices.



Elbit Systems CNR 930 Manpack Radio



**Dicom RF-1301
Handheld Radio**

**Elbit Systems PNR 500
Personal Radio**





Diagnostics of R-173



Harris RF-5800M Manpack Radio



Dicom RF-13 Manpack Radio



**Elbit Systems PRC 710
Handheld Radio**



**Dicom RF-20
Handheld Radio**



Diagnostics of RF-13 Radio



**Harris RF-5800
Handheld Radio**



SPINEA



ZBOP

SPINEA, s.r.o.

Okrajová 33, SK-08005 Prešov

E-mail: info@spinea.sk

www.spinea.sk

High precision gearboxes for defence and homeland security

SPINEA, s.r.o. located in Prešov, town in Eastern Slovakia is rapidly growing Slovak company. Its products - high precision reduction gears belong to world hi-tec products in the field of machinery. Spinea is considered to be a technology leader in this segment. There are only 4 companies in the world which are able to manage the production of such a highly sophisticated products, where three of them are Japanese and one is from Slovakia, SPINEA.

Success story

SPINEA is the youngest among the companies in this field. It has though the biggest potential of growth thanks to the quality of technical solution, which is based on the patent of Slovak origin. It was the idea of an unique solution and the courage to invest into the execution of this idea, which were at the birth of the company in 1994, built on the green field. Nowadays we may say that this effort brought the fruits and the reputation of the company is high. The company was accepted in 2008 into the exclusive association of robotic companies EUnited robotics in Brussels, as the first producer of reducers at all.

Advantages of the Twinspin reducers



Twinspin is a unique type of a reduction gear. It is used for the connection with servomotors in order to reduce the initial speed of the servomotor to the required speed at the output depending on the application, where the reduction is practically zero backlash and therefore very precise. If we

add small outer dimensions, low weight and low noisiness with the high reduction ratios possible you will get our main advantages. We produce gears from the size 50 mm, which is a size of bigger watch to size 400 mm. In contrast to our competition our gear incorporates the reduction mechanism and radial axial gear into single unit, which guaranties the stability of performance during the lifetime period. These advantages determine the application of our units in robotics,

machine building, tube benders, paper machines, packaging machines, welding machines, medical appliances, positioning of radars, cameras and solar panels.

Competitiveness leads through innovations



Company must be at least one step ahead the customer. A new product was developed as a connection of synchronous servomotor and reduction gear into a single unit under the name Drivespin. Installation of the unit is much more easier and the connection and sealing of the motor and reducer

are no needed any more. By this way customers get compact unit, which technical solution brings much better features as in the case of performing the connection by customers themselves.

Twinspin – the present and the future solution for defence industry

Research and development in the military field and constant improving of the current military products and systems require unprecedented quality and high precision components more than ever before. Replacement of cost and space consuming hydraulic systems by electro mechanical ones is the trend and the ideal solution appears the Twinspin reducer or compact actuator the Drivespin. Stable performance, high precision and small dimensions are advantages of these products which attract mechanical engineers working in the defence field worldwide. Twinspin reducers and Drivespins can be used for monitoring and surveillance systems with the latest generation of pan-tilt heads with higher payload and higher precision in all axis. Then they can be incorporated in biaxial manipulators for weapon stations, remote controlled vehicles or training and simulation systems.





RADAR - NAVIGATION TECHNIK



ALES RADAR UPGRADE



MONITORING AND KAMERA SYSTEMS



TECHNOPOL INTERNATIONAL, a.s.

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Technopol International, a.s. operates in the domestic and international markets since 1970. We concentrate and develop our activities principally in the commercial sphere. Our commercial focus, with emphasis on export activities, is founded mainly in intermediation and coordination of collaborations among foreign purchasers and the domestic manufacturers to whom we offer comprehensive services in the areas of trade, financial consulting, financing and the execution of commercial transactions. Professionalism, long experience and flexibility are what guarantee our commercial partners lasting satisfaction.

The basic objective is to develop trade relations, in which the main evaluation criterion is the stability, mutual benefits and long-term perspective.

An essential part of our business activity is trade with military materiel. These deals are carried out by a specialised team – commercial group 3 – made up of former armed forces members and professional businesspeople. We realise key projects in the delivery of military hardware, spare parts, maintenance services and complete systems support. Our aim is the successful realisation of export projects focused on newly-made equipment as well as reliable import from the foreign manufacturers we represent in the Slovak Republic.

In cooperation with Slovak and Czech companies the Group is involved in diverse projects including design, development, production, supply, procurement, support and trade of various military systems. Our prime goal is the reliable supply of weapons, weapon systems, ammunition and spare parts. Major international business partners of the Group include NATO, North African and Middle Eastern countries.





RAG 30 - 30mm hand automatic grenade launcher

The RAG-30 hand automatic grenade launcher designed for 30mm grenades is an effective individual weapon which can directly be included into the arrangements of smallest combat unit.

Dimensions, lightweight and unique construction of weapon with essential reduction of the back-rush effect during fire allow in spite of high muzzle velocity and maximum range of the weapon fire in standing, kneeling and prone positions.



VMS 07 - 9mm sub-machine gun

The VMS 07 model machine gun is a modern lightweight automatic hand-held gun. It offers comfort and accuracy with its concept of firing with a partly locked breech bolt in the front position. The machine gun can be easily operated by both the left-handed and right-handed, as well as case ejection to the right or left can be selected due to its design. The VMS 07 can be easily dismantled into main assemblies for the purpose of maintenance and cleaning without using any tools.





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Company Profile:

Virtual Reality Media, a.s. (VRM) is a private company engaged in design, development, and production of state of the art simulators and training systems. VRM was established in 1992 as a computer hardware and software integrator. In 1995 the company adopted a proactive business strategy focused on R&D, production, and sales of simulation technologies. This effort resulted into the first contract awarded in 1995 to VRM by the Ministry of Defense of the Slovak Republic for delivery of MiG-29 fighter aircraft Full Mission Simulator.

At present, VRM employs some 80 highly skilled employees enabling the company to provide high quality products and services to its customers worldwide. The company features a wide range of in-house capabilities including software and hardware engineering, production, and system integration.

VRM is committed to design, produce, and deliver its products tailored to specific customer requirements in accordance with ISO Quality Management System. In addition, for commercial projects, the company observes all relevant JAA/EASA (Joint Aviation Authorities/European Aviation Safety Agency) standards. State of the art technologies, subsystems, and components are utilized throughout the company's development and production processes to provide customers with the most advanced and



sophisticated products including qualified training, maintenance, and product life-cycle support.

Research and Development Activities:

- development of electronic and electro-mechanical hardware for:
 - motion platforms
 - vibrating systems
 - cockpit/vehicle cabin instrument controls
 - control loading systems
- development of software for:
 - image generators
 - hardware drivers
 - flight/drive dynamics models
 - graphical user interface (GUI) for instructor operating station (IOS)
 - computer based training (CBT)

Product Portfolio:

1. Military Simulators and Training Systems:

- Fixed wing aircraft simulators: MiG-29; MiG-21; SU-22; SU-25; and L-39
- Rotary wing aircraft simulators: Mi-17; Mi-171
- Anti-aircraft missiles systems simulators: S-10; S-2; and IGLA



MiG-29 Full Mission Simulator



Mi-171 Full Flight/Full Mission Simulator

- Ground vehicles simulators: T-72 Tank; BMP-2 Infantry Fighting Vehicle
- Multimedia Training Rooms & Computer Based Training (CBT): MiG-29

2. Civil Aircraft Simulators (built to JAR standards):

- Business jets: CESSNA Citation line FNPT ; FNPT II MCC ; FTD trainers; and FFS Level A, B, C, and D
- Single engine propeller aircraft simulators: Zlin-242 FNPT II trainer; and Zlin-143

3. Subsystems and Software Modules:

- 6 Degree of Freedom Hydraulic Motion Platforms - payloads ranging from 1.5 to 12 tons
- Electric Control Loading Systems and Vibrating Platforms
- Power Vision Image Generator software and Immax Image Generator hardware

- Display systems ranging from single-channel flat screen to multi-channel DOME-mounted

Other services provided by the company:

- 3D modeling of a variety of objects including buildings, vehicles, aircraft, ships, etc. to be implemented into various simulated scenarios;
- Terrain database modeling utilizing real digital terrain data, satellite and/or aerial photos;
- Implementation of DIS /HLA protocols to interconnect various simulators into a single network enabling joint tactical and combat training of different capabilities;
- Upgrade and relocation of existing third party simulators including Glass Cockpit conversion and Night Vision Goggles (NVG) compatibility.



T-72 MBT Full Motion/Full Mission Simulator



BMP-2 IFV Full Mission Desktop Simulator



Mi-17 Flight Training Device



CESSNA CJ2 Level C Full Flight Simulator



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Avis System Introduction:

Aviation Management and Information System "AVIS" belongs to the family of C2 systems. It is designed for the support of command, control and communication for tactical and operational levels of aviation. AVIS covers a complex database for recording, planning and real time mission planning containing all needed information for support of decision and management process.

System Characteristics:

- Modular database system
- Automatic data backup due to data distribution
- Data in database are stored securely disallowing unauthorized access
- Different data access levels (nine levels)
- Multi server environment allowing communication between servers
- Decentralized server architecture with a high level of autonomy, also ensuring several days of work without connection to the main server
- Possibility to utilize the system in the terms of independent mobile units while undertaking foreign missions



ATC workplace with built-in Avis system

- Independent mobile units for foreign missions
- System implements processes and workflows according to the NATO regulations

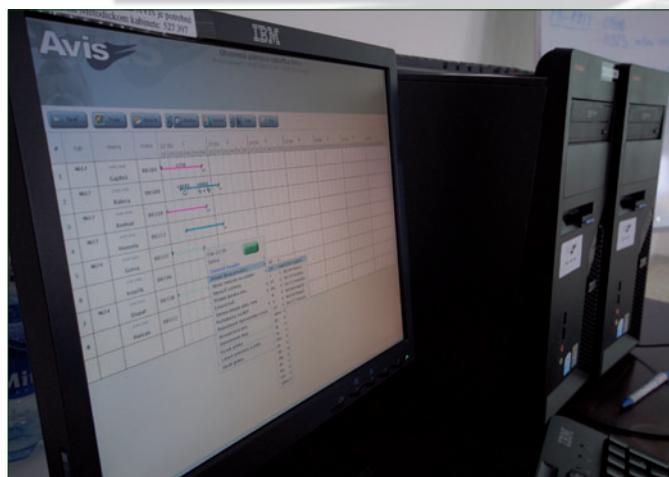


Independent mobile unit

Features:

Flight Crew

- Creation of a training program for flight crews
- Recording, planning, evaluating of flights and individual training fulfillment
- Monitoring of the operational ability of members of the flight crew
- Creation of complex and comprehensive supporting documentation in terms commander's decision and control process
- Automated creation of supporting documentation
- Automated reporting system for evaluation of aviation training and level of training, long-term evaluation of quality of training from tactical level of aviation to General Staff level



Avis workstation: Mission planning

Air Traffic Controller (ATC)

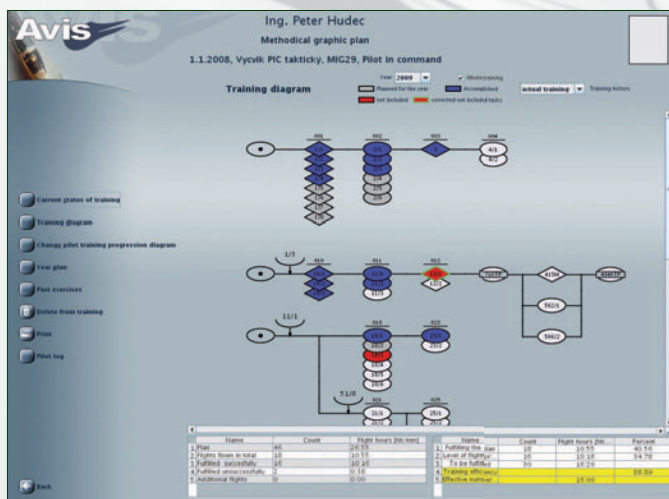
- Creation of a training programme for ATC
- Recording, planning and evaluating of ATC training
- Monitoring of the operational ability of members of the ATC
- Creation of complex and comprehensive supporting documentation in terms commander's decision and control process

Technical

- Implementation of technical module to cover monitoring of the operational ability of flight technology (resource and maintenance planning), training and operational ability of technicians

Future plans:

- Implementation of monitoring module for Air Traffic Safety module
- Implementation of real time flight mission planning (tactical mission planning)
- Implementation of Operational Mission Planning module



Avis screenshot - Training diagram

Target audience

- Our product is targeting all types of air forces and all types of monitoring and evaluation of air forces
- Selected modules of the system (e.g. Module for monitoring of the operational ability of aircrafts) could be used in civil segment of aircraft operation in the terms of Joint Aviation Requirements (JAR) as covered by Joint of Aviation Authorities (JAA).

Advantages of AVIS

- Support of Command & Control for each level of air force command
- Monitoring and evaluation of affiliated unit operational ability for foreign operations
- Continuous monitoring and evaluation of affiliated unit during foreign operations
- Comprehensive electronic system for recording, evaluating, analysis of training and level of training of flight crew, ATC officers and technicians



Avis screenshot - Pilot's combat qualification

- Tools for creation of plans for individual members of the flight crew
- Comprehensive electronic system for recording, evaluating and analysis of operational ability of flight technology
- Partial or full replacement of paper documentation and plans
- Unification of processes and workflows in Military Aviation

Product ratings:

Certificates

- Certification of Military Aviation Authority of the Slovak Republic for usage of our product in Armed forces of Slovak Republic
- Our company is presently implementing the quality certification process ISO 9001 and 27001
- Accession process for certification of "Module for monitoring of the operational ability of aircrafts"



VOJENSKÝ OPRAVÁRENSKÝ PODNIK TREŇČÍN, a.s.

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Vojenský opravárenský podnik Trenčín, a.s. is focused on repairs and development of mobile tracked and wheeled vehicles as well as its modernization.

It is also a manufacturer of ISO 1C containers of various types, mobile field multiprofile hospitals and communication centres. Moreover, it is a supplier of spare parts and provider of warranty and after warranty service and repairs of the Slovak Armed Forces vehicles serving also in NATO and UN peace support operations.







Vojenský technický a skúšobný ústav

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Military Technical and Testing Institute ("VTSÚ") Záhorie is an establishment of the Defence Ministry of the Slovak Republic whose principle line of activities includes research and development tasks and testing of weapons, military equipment and material. The VTSÚ performs its duties independently as well as in co-operation with other military technical institutes, military repair facilities, other components of the Slovak Armed Forces, development and manufacturing companies of the Slovak armaments industry. As of 1 January 2004 the VTSÚ became an MoD-funded organisation. As of 1 January 2007 it was transformed into an independent budgetary organisation overseen by the MoD.

Research & Development

In the area of research & development the VTSÚ covers individual development activities and co-ordinates activities among other research organisations in finding development solutions for military technology while permanently adhering to prescribed parameters and guaranteeing quality product verification. The VTSÚ is involved in co-operating with foreign entities with similar areas of activities in international modernisation projects.

Its development activities cover the following areas of activities:

- weaponry, munitions and their components,
- tanks and vehicles,
- engineer equipment,
- instruction and training apparatuses for the army,
- military technical standardisation.

Testing Activities In the area of testing activities the VTSÚ executes:

- management, implementation and evaluation of weapon and ammunition testing,
- ballistic and specialized measurements,
- meteorological measurements,
- chemical stability tests of ammunition and verification of their physical and chemical properties,
- classification and qualification of explosives, weapons and ammunition,
- explosive ordnance disposal activities.

In 2003 the VTSÚ was awarded the Certificate of Accreditation No. S-145 - Weapon, Ammunition and Military Equipment Testing Laboratory. Since 2002 the VTSÚ has been authorised to carry out assessments of product concordance in accordance with the Act No. 264/1999 Coll. and 436/2001 Coll. as SKTC-173.







**VÝVOJ
Martin**
INNOVATION SPECIALISTS



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VÝVOJ Martin, a.s. has more than 55-years tradition and experience in research and development in various branches of defence industry. Especially in 3D CAD design, manufacture, testing and modernization of mobile tracked and wheeled vehicles and its components. Moreover we focus on 3D CAD design and manufacture of auxiliary tools for defence industry. Thanks to flexible connections to manufacture capabilities of other engineering companies and abilities of governmental support acquisition, we are able to realize challenging technological projects.

VÝVOJ Martin, a.s. is the main site of Slovak Centre for Engineering Development and it is the member of Association of the defence industry of the Slovak Republic.

VÝVOJ Martin, a.s. has certified system of quality control and assurance according to STN EN ISO 9001: 2005 and SOŠ AQAP 2110/ Z1:2009 together with certificate of industrial security applied on classified data. Applied environmental management system STN EN ISO 14001:2005 and work safety system OHSAS 18001: 2007 insures our positive relation to employees and environment. Our NATO manufacturer's code is NCAGE 6002M.

Research and development and design activities

- Development and design of TATRAPAN armored vehicles and its applications
- Development and design of tracked armored transporter OT-90M
- Development and design of turret assemblies
- Development and design of operating manipulators and fixtures for defence industry
- Development and design of testing devices and unique machines
- Main designer of mechanical/electrical part of MOKYS system
- Development and design of containers of various kinds with space division and equipped for military or civil purposes.
- Development and design of armored container carrier 8x8
- Development and design of detecting technologies of IED
- VÝVOJ Martin, a.s. is participating in Slovak Armed Forces Mobile communication system project as main designer, integrator and producer of construction documentation for the whole system

Manufacturing program

- Manufacturer of TATRAPAN armored vehicles
- Co-manufacturer of tracked armored transporter OT-90M



- Manufacture of turret assemblies
- Manufacture of special tank applications (bridging and recovery)
- Manufacture of operating manipulators and fixtures for defence industry
- Manufacture of testing devices and unique machines
- Co-manufacturer of MOKYS system

Services, repairs, spare parts and modernization of defense technology

- Modernization of military mobile technology and TATRAPAN armored vehicles
- Technical and technological consultations
- Engineering projects and applications for grants from structural funds
- Service and spare parts for defense technology



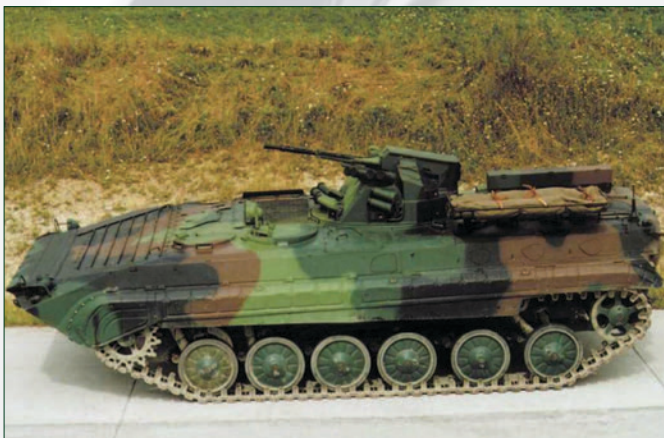
TATRAPAN VŠRV-2



TATRAPAN AMB



Special container applications



OT-90M



OT-90M Turret



The MOKYS project

REFERENCES

BAE SYSTEMS





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Description of the Company's Activities, Orientation, Characterization

ZTS-OTS, a.s. is a company with long-term tradition in the field of defence industry, which has close links with the largest producer of the military technology in former Czechoslovakia.

The main activities of the company is trading in military technology in compliance with the Permit For Trading In Military Material issued by the Slovak Ministry of Economy, and supply of hydraulic components for both civil and military technology.

Production Programme

Assembly of pressure hoses and hydraulic pipes is being carried out

in the company's premises. The hoses and pipes are being produced and supplied for BVP-1, BVP-2, 152 mm SpGH DANA, 155 mm SpGH ZUZANA, BOZENA mine-clearance machine, T-72, T-55, TALET, TATRA 815, RM-70, VT-72.

Services, repairs and modernization of the military technology

ZTS-OTS, a.s. supplies spare parts and complete systems of tanks T-72, T-55, infantry combat vehicles BVP-1, BVP-2, SpGH DANA, SpGH ZUZANA, RM-70, armaments 2A46, 2A42, 2A28, PKT.

The company is offering services related to this technology, including repairs, modernization as well as organizing training.



We provide maintenance and spare parts for the following equipment:



152 mm SpGH DANA



RM-70 GRAD



BVP-2



T-72



HYDRAULIC EXCAVATOR DH112



HYDRAULIC HOSES



ZTS - ŠPECIÁL, a.s.
DUBNICA NAD VÁHOM



ZTS – ŠPECIÁL, a.s.

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The company ZTS – ŠPECIÁL, j.s.c. was established in 1998 as a product of transform's process of the state company ZTS Dubnica nad Vahom. It is the oldest part of Dubnica gun production plant which history is dated since 1937. In course of its operation, the company produced, made up-grades or repairs of approx. 50 types of weapons amounting 50 thousand units. Our products are well known all over the world market thanks to their high quality, processing accuracy while they prove also excellent technical and tactical parameters.

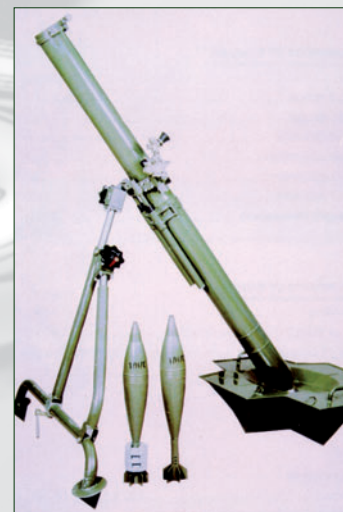
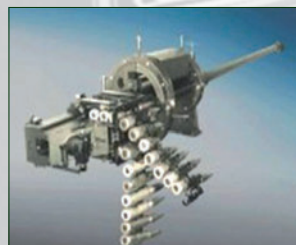
The company is equipped with technology for complex production of cannons from calibre 30mm up to 155mm for the following weapon's systems:

- 30 mm cannon for BMP-2,
- 73 mm cannon for BMP-1,
- 100 mm cannon for T-54, T-55,
- 98 mm a 120 mm mortar barrels
- 125 mm cannon for T-72,
- 125mm modernized cannon 125MS
- 152 mm cannon for SpGH DANA,
- 155 mm/45cal cannon for SpGH ZUZANA model 2000
- 155mm/52cal cannon for SpGH ZUZANA 2

Except that, the company produced and supplied final products of tank, transport and artillery weapon's systems especially:

- 155 mm/52cal ShKH ZUZANA 2
- 155 mm/45cal ShKH ZUZANA model 2000
- The turret 30mm Cobra
- 152 mm SpGH DANA
- 120 mm mortar PRAM S
- 122 mm rocket launcher model 70 a 70/85
- Infantry fighting vehicles BMP1 and BMP2

ZTS-ŠPECIÁL, a.s. Dubnica nad Váhom disposes in his machinery park with special technological devices controlled by CNC systems, which are able to perform the mechanical machining for products of bigger dimensions (barrels, shaft, axles, weldments, undercarriages, welded constructions and etc.). With the current technological devices the company wants to preserve the image of reliable producer of weapon systems in the field of defence production and at the same time obtain statute of high - class producer of heavy weldments in the field of engineering production for building industry (road-building machinery and industrial machine) and for energy industry (wind powerplants and hydro motors).



BARREL'S PRODUCTION PROGRAMME

- 155 MM HOWITZER BARREL WITH LENGTH OF 52 CALIBRES (52.9 CAL)
- 155 MM HOWITZER BARREL WITH LENGTH OF 52 CALIBRES
- 155 MM HOWITZER BARREL WITH LENGTH OF 45 CALIBRES
- 125 MM TANK BARREL WITH LENGTH OF 48 CALIBRES
- 152 MM HOWITZER BARREL WITH LENGTH OF 36 CALIBRES
- 100 MM TANK BARREL WITH LENGTH OF 33 CALIBRES
- 155 MM TANK BARREL WITH LENGTH OF 30 CALIBRES
- 30 MM BARREL OF ARMoured PERSONNEL CARRIER WITH LENGTH OF 90 CALIBRES
- 75 MM BARREL OF ARMoured PERSONNEL CARRIER WITH LENGTH OF 26 CALIBRES
- 120 MM SELF - PROPELLED MORTAR WITH LENGTH OF 19 CALIBRES
- 98 MM SELF - PROPELLED MORTAR WITH LENGTH OF 18 CALIBRES
- 81 MM SELF - PROPELLED MORTAR WITH LENGTH OF 19 CALIBRES

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ZTS - ŠPECIÁL, a.s.
DUBNICA NAD VÁHOM
MEMBER OF ASSOCIATION OF DEFENCE INDUSTRY OF SLOVAKIA

Production of barrels and cannons of calibre 30mm through 155 mm, 98 mm and 120 mm mortar barrels



The turret 30mm VK – COBRA is designed for up-grading tracked and wheeled combat vehicles of ICV, ICFV, APC type (BMP-1, BTR-70, BTR-80, OT-64 etc.)



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ZTS VVÚ KOŠICE a.s. is a private joint stock company, since 1976 dealing in applied research, development and supply of products in the field of machine and electrical engineering. Its workforce of 138 employees includes 72 research design engineers and 40 workers involved in manufacture of products. From professional point of view, the areas covered are machine design, calculation and test methods, design of electronic systems including control software. As a former R&D institute of the ZTS concern it has longterm experience in the supply of defence equipment for the military and the police.

The following have already become traditional areas of activities of the institute:

- mobile robots and teleoperators
- engineering equipment on wheeled chassis
- simulators for instruction and training

Applied research and development of its own products are mainly aimed at the compatibility of new products with NATO standards, at the implementation of state-of-the-art sensor and communication systems, improvement of operational characteristics, application of highly effective mechatronic systems with artificial intelligence features and improvement of soldier-operator comfort at work with the equipment.

The institute participates in the work of expert groups in studies for the NIAG and at the same time, with partners from NATO member countries, prepares research projects for the 7th Framework Programme.

In the field of service and security robotics, the institute is a member

of the Board of Stakeholders of the European Robotics Platform EUROP, with expert activities in the creation of Strategic Research Agenda of European robotics.

An important part of the institute's activities is the cooperation with expert military and police groups as well as the academic community.

The main products can be specified within the relevant product groups as follows:

Mobile robots and teleoperators

- mobile pyrotechnic teleoperator SCORPIO
- mobile reconnaissance robot RETRIEVER
- mobile combat robot SCORPIO-F
- mobile EOD robot TERIER

Engineering equipment on wheeled chassis

- special tank trucks
- heavy load low-bed semi-trailers
- mobile bridge systems

Simulators for instruction and training

- mobile decontamination system simulator OBJEM
- robotic systems simulators

Services, repairs, spare parts and modernization of defense technology

ZTS VVÚ KOŠICE a.s. provides service for its own products, and in the area of robotics also service and modernization of third party products.



Mobile bridge system



Special tank truck for fuel transport



Mobile combat robot SCORPIO-F



Mobile EOD robot TERIER



Mobile IED reconnaissance robot RETRIEVER



Mobile pyrotechnic teleoperator SCORPIO



ZVS holding, a.s.



ZBOP

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General information

ZVS holding is one of the major producer of ammunition since 1937. Since then company produced millions of pieces of various types of ammunition not only for the Czechoslovak and the Slovak Army, but also for foreign armed forces all over the world. We also provide transfer of technologies for above mentioned products ZVS holding a.s. is certified for manufacture and sales of ammunition according to EN ISO 9001:2008 and AQAP2110.



PRODUCTS FOR DEFENCE INDUSTRY – AMMUNITION

Our current production scale:

- Medium and large calibre ammunition and rockets
- 30mm ammunition for 2A42 gun
- 81mm and 98mm mortar ammunition
- 125mm tank ammunition
- 122mm, 152mm and 155mm artillery ammunition

