

Czech Defence Industry & Security Review®



2/2017

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EDITORIAL

Dear readers,

The last issue of the CDIS Review Journal, on the occasion of the IDEX exhibition held in Abu Dhabi, introduced numerous significant and important enterprises dealing in defence and security industry in the Czech Republic.

The similar journal of Review for Defence and Security Industry, available in both Czech and English versions from the www.msline.cz page, offered its readers the presentations of mainly Czech, but also foreign, companies who would exhibit at the 14th IDET international fair of defence and security technology held in the Czech Republic. Being the main media partner of the fair for the Czech Republic, our publishing house in

cooperation with the international journalist jury has awarded GOLD IDET NEWS (page 42) for the best product to the following three companies: EXPLOSIA, MEOPTA and VVÚ.

In this issue, the leading companies from the Czech Republic present their products and services and, some of them, would like to use this opportunity and invite you to visiting their stands at DSEI fair in London and MSPO in Kielce.

I would like to thank the Embassy of the Czech Republic to the United Kingdom, to the Industrial Cooperation and Organisations Management Division headed by the deputy minister of defence Tomáš Kuchta and to the Ministry of Industry and Trade of the Czech Republic for their cooperation in the preparation of this issue as well as during DSEI exhibition.

I wish all exhibitors many successful business activities!



Šárka Cook
Editor-in-Chief



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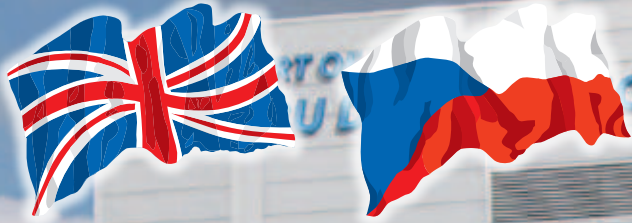
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Message by H. E. Libor Sečka

Ambassador of the Czech Republic in the United Kingdom of Great Britain and Northern Ireland



It is a great pleasure for me to make a few opening remarks on the occasion of the Czech Republic's presentation at the Defence and Security International Trade Fair (DSEI) in London. First, because the DSEI is one of the most prominent exhibitions in terms of defence technology and its importance is global. And second, because the Czech Republic is once again represented at the DSEI by the best Czech defence sector companies offering a broad range of state of the art products and technologies.

The spectrum of concerns and threats to both global and regional security is exceptionally broad in our times. From traditional military hard security threats, to the new challenges presented by terrorists who are building on the unprecedented development and public accessibility of new technologies such as drones and encrypted communication. Our countries require fully prepared and equipped security forces to deal with all eventualities.

In the same manner, the answers to these threats need to be swift, complex and accurate, the means of our counter measures sophisticated and our solutions reliable and lasting. In this context, I am glad to note that the Czech Republic is a very well suited partner to cooperate with in the area of security. Thanks to its long tradition of engineering

and industrial production, the Czech Republic is a reliable business partner to many countries around the globe. In fact trade and innovation are in our life blood as a nation and the level of trade globally far out stretches the territory of a mid sized country like the Czech Republic of some 78 thousands square kilometres and population of 10 million inhabitants. Production, from training jets and avionics, to passive surveillance systems, trucks and small weapons, on to nano-technology based filters and fabrics, electronics and communication systems, and much more beyond, one can find a whole broad spectrum of defence related products which are designed and manufactured in the Czech Republic and offered to international partners, including the United Kingdom.

I am glad to acknowledge that a number of defence sector companies from the Czech Republic are present at the show, offering state of the art products based on cutting-edge and reliable technologies. Starting with body armour and tactical equipment by "4M SYSTEMS", personal safety systems for working at heights by "LANEX/TENDON", proven handguns by "Česká zbrojovka", semi-automatic rifles by "Zbrojovka Brno", ammunition by "SELLIER & BELLOT" and optical systems for assault rifles by "MEOPTA", to aviation instruments by "MESIT Aerospace", to name just few of the many Czech exhibitors presented

at the DSEI, the portfolio of Czech solutions displayed is impressive.

As Ambassador of the Czech Republic in London, I am pleased to note that the ever growing amount of bilateral trade and investment between the Czech Republic and the United Kingdom of Great Britain and Northern Ireland is underscoring the mutually beneficial nature of cooperation between Czech and British companies. In fact, the UK is the fourth largest export territory for Czech companies, next only to our three neighbouring states of Germany, Slovakia and Poland. While the automotive and machinery industries are the main pillars of bilateral trade, sophisticated areas of the defence sector such as optics and electronics are also becoming increasingly important subjects of cooperation. To name just the most recent business case, the British giant, BAE Systems, has contracted the Czech manufacturer, Ray Service, to deliver components for their vehicle-mounted mortar system. Successful partnerships like this, with the leading global companies, prove the highest expertise of the Czech manufacturers and the win-win nature of cooperation with the Czech Republic.

Having said that, I would like to wish to all the Czech and international companies presenting at the DSEI this year much success in building their future partnerships.

Opening Speech by Mr. Tomáš Kuchta

Deputy Minister, Ministry of Defence of the Czech Republic



It is my honour and pleasure as the Deputy Minister of Defence of the Czech Republic to make a few opening remarks in the latest CDIS Review issue on the occasion of two important defence exhibitions both taking place in September this year.

Both MSPO and DSEI are taking place in countries that are being carefully watched not only by us – their European neighbours and allies.

Poland has been heavily investing in the modernization and development of its armed forces in the shadow of current security development on the eastern border of Europe and it is conducting multiple acquisition programs focusing on strengthening its capabilities in many important domains. Such programs are very complex and require international cooperation as well as participation of many large and small enterprises as suppliers of components and sub-assemblies. This leads to a mutually enhancing collaboration in many fields resulting into.

Thus I consider the jubilee 25th MSPO exhibition to be one of the most important events in the whole Europe and a great opportunity to negotiate various deals and collaboration projects in order to ensure strong and modern armed forces of all member states. Czech Republic will be represented by 7 state-owned and private companies including LOM PRAHA, VOP CZ or TATRA EXPORT.

I also closely observe the situation surrounding United Kingdom leaving European Union. We live in an era where the international defence-industrial cooperation among countries is absolutely necessary in order to maintain technological superiority and stay on the edge of development. In order to achieve this both the United Kingdom and EU member states must work hard on keeping the industrial relation intact.

The interest of Czech companies to continue and further develop cooperation with their British counterparts is evident by their large presence at the DSEI 2017. Almost

15 Czech companies including such names as CZUB, Meopta, Omnipol, Mesit or Sellier and Bellot are going to participate and I am sure there will be numerous visits of British as well as other representatives at their stands. This year's DSEI creates a respectable audience of 34,000 visitors from all around the world including Ministers, Armed Forces representatives and key industry partners. The unique capabilities of Czech companies combined with the ability to accustom to their customers' needs are highly praised all around the world.

I would like to point out that the Czech Republic and the United Kingdom are bound both by historical events as well as today's cooperation in various fields and I am sure that no matter what the future bring our relationship will remain intact and even stronger than it is today.

Ladies and gentlemen, I wish you a great time at both events and I firmly believe in a bright future of the European defence industry.

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Win-Win Partnership: Czech and British Defence Industry



The Czech defence industry: A smart and reliable partner for big projects

Although the Czech Republic is not a large country in terms of territory or population, it is the sixth safest state in the world (2017), has an open, export oriented economy, and in fact is one of the nations with its highest share of GDP formed by exports of manufactured goods. These are mostly machinery products such as electricity power plants and mills, transport products ranging from motorcycles and cars, to buses, trams, trains and aeroplanes (all of which are designed, tested, certified and manufactured in Czech lands) and of course beer. All of these products are successfully exported around the globe and are only part of the extensive range of goods Czech manufacturers have to offer.

Not mentioned above though is one of the most traditional Czech sectors: the defence and security industry with its related electronic, optic and machinery production. In fact, the Czech munitions industry was already well developed before the First World War and further strengthened before the Second World War - for British people one item will always stand out - the "Bren" Light Machine Gun which was originally developed in the Czech city of Brno, from where part of its name originated and the other half of the name came from the British factory in Enfield where it was made. During the period when the Iron Curtain divided Europe, when the Czech Republic as a part of Czechoslovakia found itself within the sphere of Moscow, the

nationalised Czech defence factories kept producing weapons mostly for the Warsaw Pact forces, such as small arms, machine guns, antitank weapons, but also armoured infantry vehicles, tanks, airfield radars, systems for passive radar reconnaissance and even jet aircraft such as the Aero L-39 Albatros, the most widely used jet trainer in the world. Since the end of the Cold War the Czech Republic has joined NATO, the Czech Army has become a professional force and has radically modernised most of its equipment – SAAB

Gripen fighter aircraft and Pandur wheeled armoured vehicles are now being used by the Czech forces for air policing missions in the Baltic states and allied missions in Afghanistan respectively. Apart from active missions the cooperation between the Czech and British Armed forces is thriving - 71 new bilateral cooperation projects are envisaged and planned for 2017-2019 period, mainly in the fields of training and exchange of personnel. Keeping standards high and the armed forces prepared for all eventualities, the Czech Army is now considering the procurement of new arms systems and some of those items in the pipeline are - dozens of new howitzers, 12 new multi role helicopters and hundreds of infantry fighting vehicles.

The Czech defence industry has over the last 25 years successfully transformed and internationalised itself. Building on its long industrial history of producing high quality weaponry such as guns, aircraft and heavy equipment, as well as sophisticated technologies for radars, the privatised Czech defence companies are now diversifying their portfolios and seeking dual-use technologies such as nanotechnologies, telecommunications, civil aviation technologies, navigation and enhanced reality. Thanks to this successful transformation, the Czech defence companies are nowadays exporting more products than they are delivering domestically to the Czech market, which means that they are building win-win partnerships globally. Parts for a number of world renowned aircraft such as the Airbus A400M, the Sikorsky UH-60M Blackhawk, the Sikorsky S-76 and



the Embraer KC-390 are being manufactured by Czech companies. Whole L-159 fighter jets manufactured in the Czech Republic have been delivered to the Iraqi air force in 2016 and plans for the relaunch of production of these light subsonic jets, as well as production of a new generation L-39 trainer jets are being considered.

Czech companies are in cooperation with their counterparts from the United Kingdom of Great Britain and Northern Ireland. To highlight just a few of the successful partnerships we only have to look at the Czech company Ray Service for example which has been contracted by BAE Systems to develop and produce cabling assemblies for mortar systems; previously the Czech steel company Vitkovice became the first foreign supplier of steel to a British naval shipyard - Vitkovice steel was used in the construction of Alternative Landing Ship Logistics landing craft for the Royal Navy; the Czech military codification software developer Aura cooperated with British technical publications and NATO codification specialists Allan Webb on several projects to provide a comprehensive codification, procurement and inventory management service to clients based in the UK and internationally; and of course, Czech hunting and sports rifles are being sold in the UK, not to mention examples from the different area of the ammunition industry. A number of Czech companies have also teamed up with British counterparts in the run up to start of the modernization projects of the Czech Army. Such partnerships enhance the competitiveness of both the Czech and their partner British companies and serve as starting points for larger international projects.

Business opportunities in the British defence sector

Britain being the fifth largest exporter of



weapons and defence related goods and technologies is something which attracts Czech companies who have competences in the fields of the aviation and space industry, small weapons and many other high-tech components which have use for various sub sectors of defence and dual use industries. There is great scope for cooperation and good business opportunities for British and Czech companies.

From the aerospace viewpoint, the UK is the second largest producer in the world, with a wide portfolio of services and products, from the design and production of wings, engines, landing gear, fuel systems, and avionics. Over 90 % of the sector's turnover is generated by exports. The major manufacturers are Airbus, Bombardier, BAE Systems, AgustaWestland and Rolls Royce. In the space technology sector, a number of UK hi-tech companies, such as Surrey Satellite Technology, are active, focusing in particular

on telecommunications, navigation, meteorology and Earth observation applications. Britain is the most important European supplier for Boeing, which, in the summer of 2016, has entered into a partnership with the UK government to further invest in the country and plans to open its first British factory in Sheffield. In Wales, the town of Broughton is home to the Airbus factory which assembles wings for all of the brand's models. Opportunities for Czech manufacturers are mainly offered to subcontractors for British companies, for example in the field of electronics and in the rapidly evolving segment of composite materials.

A number of opportunities arise from the development plans of the British Ministry of Defence, which is planning to spend £178 billion on equipment and support over the next decade. These include the announced procurement of two additional Typhoon squadrons and an additional squadron of F-35 Lightning II combat aircraft to operate from the two new Queen Elizabeth class aircraft carriers and nine new Maritime Patrol Aircraft. In addition much of the equipment and support tools needed by British military personnel in transition from Future Force 2020 to Joint Force 2025 needs upgrading or replacing.

Speaking about the other sectors, perspective areas for establishing collaboration with major British defence industry manufacturers are primarily in innovative technologies such as 360° situational awareness, future soldiers, connectivity, advanced materials, control systems and software architectures. Also traditional areas, where reliability and durability is the cornerstone, for example in the hydraulics sectors in connection with the planned construction of new British naval combat vessels including 4 new nuclear submarines, represent a window of opportunity for the Czech-British defence industry win-win cooperation.

**Aleš Opatrný, Economic counsellor,
Embassy of the Czech Republic in London**



Czech Companies did not Miss the Top-Level International Meeting of Defence Industries at DSEI

The DSEI (Defence System & Equipment International) fair ranks among the world's leading defence exhibitions. The biannual event took place for the ninth time from 15 to 18 September, 2015, on the premises of the ExCel Exhibition Site. Compared to its predecessors, it broke every imaginable record, including its size, number of participants or number of visitors. There were approximately 1,500 exhibitors and altogether 42 national pavilions of countries from five continents, including the Czech Republic, which traditionally presented its defence industry at an official stand organized by the Ministry of Industry and Trade. Attending the show gives companies a unique opportunity to establish new contacts, set a foothold in new markets, but also maintain and intensify existing business cooperation relations.

The DSEI fair is a global event, and therefore enjoys a special position among other defence and security industry events. Attending the show gives companies a unique opportunity to establish new contacts, set a foothold in new markets, but also maintain and intensify existing business cooperation relations. "The DSEI fair is ranked number one among defence-oriented fairs. Not being present is tantamount to not existing at all. Thanks to the official participation of the Czech Republic, we had an opportunity to meet important visitors representing the state administration of Pakistan. We estimate this single contact could land us a contract for almost 10,000 short-barreled arms for Pakistan," is how Mr. Miroslav Buček, Assistant of Senior Sales Manager, Česká zbrojovka Uherský Brod, explains the importance of the exhibition.

MESIT Přístroje's experience with participation at the DSEI exhibition in London is also positive. "We have managed to expand existing contacts and establish new ones from Africa to Australia. We hope we will be able to convert them into tangible business contracts with attractive profit and financial characteristics. We can now appreciate previous DSEIs; the contacts we started there have developed into profitable business cases," said Mr. Vladimír Michalík, MESIT Přístroje's Business Development Manager.

This year, the collective Czech exhibition occupied an area of 190 m² and housed 16 exhibitors, including B.O.I.S. - FILTRY, Česká Zbrojovka, DICOM, ERA, EVPÚ Defence, Gumárny Zubří, MESIT Přístroje, OMNIPOL, OPTOKON, ORITEST, Poličské strojírny, RAMET, RETIA, SELLIER & BELLOT, Zbrojovka Brno, and Zeveta Ammunition, most of them regularly attending the event.





A delegation of the Czech Ministry of Defence led by Deputy Minister Mr. Tomáš Kuchta paid a visit to the Czech national exhibition during the fair; the Deputy Minister also took part in the opening ceremony of the Czech stand, as well as in the presentation of awards to winners of the "Best Czech product presented at DSEI 2015" competition. The winner, which was selected by a panel composed of mainly foreign defence journalists, was the armoured vehicle VEGA manufactured by the company SVOS, which had its own stand at the fair. This year has once again confirmed that the organization of the Czech Republic's official participation at the DSEI fair is a project which has been successful in the long run and in which companies find many positives. "As to OMNIPOL, the presence at the DSEI exhibition is a fixed part of its marketing activities. This year's participation met our expectations, both in terms of contacts with our existing customers and with respect to new business opportunities. The standard of the official national stand under the aegis of the Ministry of Industry and Trade was high and contri-

buted to making all Czech exhibitors more visible. Changes in the accompanying programme, which brought very positive responses, were a pleasant innovation," said, inter alia, Mr. Zdeněk Burian, Marketing Manager of OMNIPOL.

The overall satisfaction of Czech exhibitors is also confirmed by Ms Zuzana Rudinská, Marketing Manager of EVPÚ Defence. "Our assessment of the fair is very positive, as the number of visitors was very high compared to previous events. We appreciated some organizational innovations, such as the fast-tracked entry for exhibitors who no longer have to suffer through long queues to X-ray frames at the site's gates. We also appreciated the accommodating attitude of the Ministry of Industry and Trade in every respect. The accompanying programme brought important visitors from the Middle East to our stand. And the event generally contributed to a better visibility and awareness of our company," Ms Rudinská summarized.

Ministry of Industry and Trade
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Contact Person:
Mr. Milan Nedvěd – Sales Director

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Explosia Pardubice Relies to Bi-Modular Charges

She is slowly preparing to celebrate 100. years anniversary, he works with explosives nearly 25 years. She is one of the world's leading manufacturers of propellants and explosives, he among the world's leading full-service ammunition experts. Explosia, a state-owned company, and Dipl. Eng. Zbyněk Akštein, Ph.D., Head of Research and Development department, together forms an inseparable pair, which represents the latest Bi-modular charges.

In the introduction, let's explain what are Bi-modular charges.

Full-combustible Bi-modular charges are designed for gun-howitzers. The purpose of howitzers is in most cases indirect shooting on area targets. Simply put, depending on the distance you want to shoot, so many charges you should use. In the history metallic cartridges were used for propelling charges, which formed not an insignificant portion of unusable weight. Full-combustible Bi-modular charges thus not only allow the use of the total weight to deliver energy to the shot, but after the shot the chamber can be immediately charge with another shot without waiting for the cartridge to be removed.

How long has Explosia been engaged in developing Bi-modular charges?

The evolution of full-combustible propelling charges in Explosia has been in progress since the 1990's. But it didn't come from scratch, but we already had experience with the combustible materials for the base cartridges, designed for Russian 125mm tank guns. At the end of the 1980's, we also collaborated on the development of the ONDAVA system, which was intended to increase the efficiency of the 152 mm self-propelled gun-howitzer DANA. It was envisaged to create additional full-combustible propelling charges, which would add to the standard long-range charge. This system eventually didn't find application, because the main gun developer left the 152 mm caliber and began to devote a caliber of 155 mm.

What was before these modular charges, why are they actually developed and produced?

Before Bi-modular charge systems were, and in some countries still are, used „bag-charges“. These charges have smokeless powder divided into several cloth bags, which are attached to the straps and together form the full charge. The range adjustment for this type of filling is performed by removing a certain amount of cloth bags from the charge. These removable bags with smokeless powder aren't longer usable and are usually disposed. The great disadvantage of

cloth bags is their tendency to absorb a moisture and occasional leaving of unburned parts in the gun chamber.

For what weapons are the modular charges made?

Bi-modular charges are designed for present-day 155 mm gun-howitzers. The "present-day" in this case are weapon systems with a barrel length of at least 39 calibers and a chamber volume of at least 19 liters. Charges are of course designed for the latest systems with a barrel length of 52 calibers and a chamber volume of 24 liters. Some producers offer modular charges solution also for other calibers, for example 130 mm.

What level are today's charges at? And specifically charges from the Explosia?

Today's charges are in accordance with ballistic memorandum (JBMoU - Joint Ballistics Memorandum of Understanding, the convention unifying requirements for 155mm guns and ammunition). The memorandum divides the basic range of up to 30 km into six zones defined by the muzzle velocity, and currently it means that two types of modular charges are used. One type is used for short ranges and the other type serves to reach large ranges, usually over 15 km. So far, the original concept of the Memorandum has not been fulfilled, namely the creation of an uni-mo-





dular system, a system of only one type of modular charges for all zones.

Explosia currently produce the second generation of Bi-modular charges made up of the two types of modular charges just mentioned. The system is called the 155 mm BMCS (Bi-Modular Charge System) and consists of short-range BC-E modules (zones 1 and 2) and TC-F modules (zones 3 to 6).

Do Pardubice's charges have any competition? And how they stand in comparison with rivals?

Of course, competition is, and although we don't have a financially supported research base like some of our competitors, we are able to withstand a direct confrontation. Such a confrontation was a few tenders in India and a direct rivalry over the Polish customer where we won.

What's the principle of the charges? What are their "intestines"? Is it a secret, or can something be revealed?

Every producer of modular charges has own secrets, mainly the composition and technology of the three most important parts. The most obvious is of course a full-combustible casing, which must meet several contradictory requirements. He must be mechanically strong to withstand military treatment, he must be safe for a lot of external stimuli and, on the other hand, after the initiation in the chamber, it must burn out completely. The second major part is the ignition set, a tube leading through the center of the charge, which allows almost instantaneous ignition of all charges in the chamber. Well, and last

but not least, it is the powder charge with smokeless powder itself. For low muzzle velocities a vivid nitrocellulose powder is used, while for high muzzle velocities a powerful triple-base powder is used, the main component of which is nitroguanidine in our case.

The Pardubice's producer of explosives has also launched a new development center built in tens of millions of crowns. Why and what will it serve?

Developments in this area haven't stopped and new requirements are still emerging. It is necessary to keep up with the competition. The new development center will be used to develop new and optimize existing production technologies for full-combustible ammunition parts. Not only for 155 mm caliber charges, but also for containers of supplement mortar charges. In the future we also want to devote to more ammunition of the NATO-caliber segment, such as 120 mm tank ammunition.

To what extent would Explosia be able to produce modules?

This is a little more difficult question. As I said before, Explosia succeeded with first-generation charges. The production unit, after the end of the contract, has been preserved and there has not yet been such a great request that the start of this „Moloch“ has been profitable again. In its biggest production glory it was able to produce combustible munition parts for 80,000 long-range Charges D per year in one shift. At present days the smaller workplace with an annual capacity of about 12,000 modular charges per year is used.

However the requirements for the charges are growing, so for the next year we offer a production capacity of 25,000 to 50,000 modular charges.

How do you personally see the future of this area? Is it where to move? And if yes, what does the Explosia do for it?

In the field of combustible ammunition parts we would like to have a total inertia to moisture. In the field of powerful smokeless powder we would like to achieve even greater performance but at the same time reduce its negative impact on the wear of the barrel. As far as powder charges are concerned, we are working on higher temperature independence than standard smokeless powders, that is, their basic internal ballistics parameters, such as maximum chamber pressure and muzzle velocity, will not dependent on ambient temperature. And, of course, we would like to reach the highest level, creating the uni-modular system.

Does Explosia exclusively deal with this type of product?

No, we are also engaged for example in the production of industrial explosives or propellants. At present we can boast for example a means intended to combat terrorism. It's called Desintegrator - special small charge designed for the „opening“ of suspicious baggage or items without ignition of any explosive hidden inside. Next, for example, Semtex Razor is a favorite tool for firefighters. This flexible linear shaped charge is designed to destroy metal structures but also flood barriers, etc. The range of our products is really wide.

www.explosia.cz

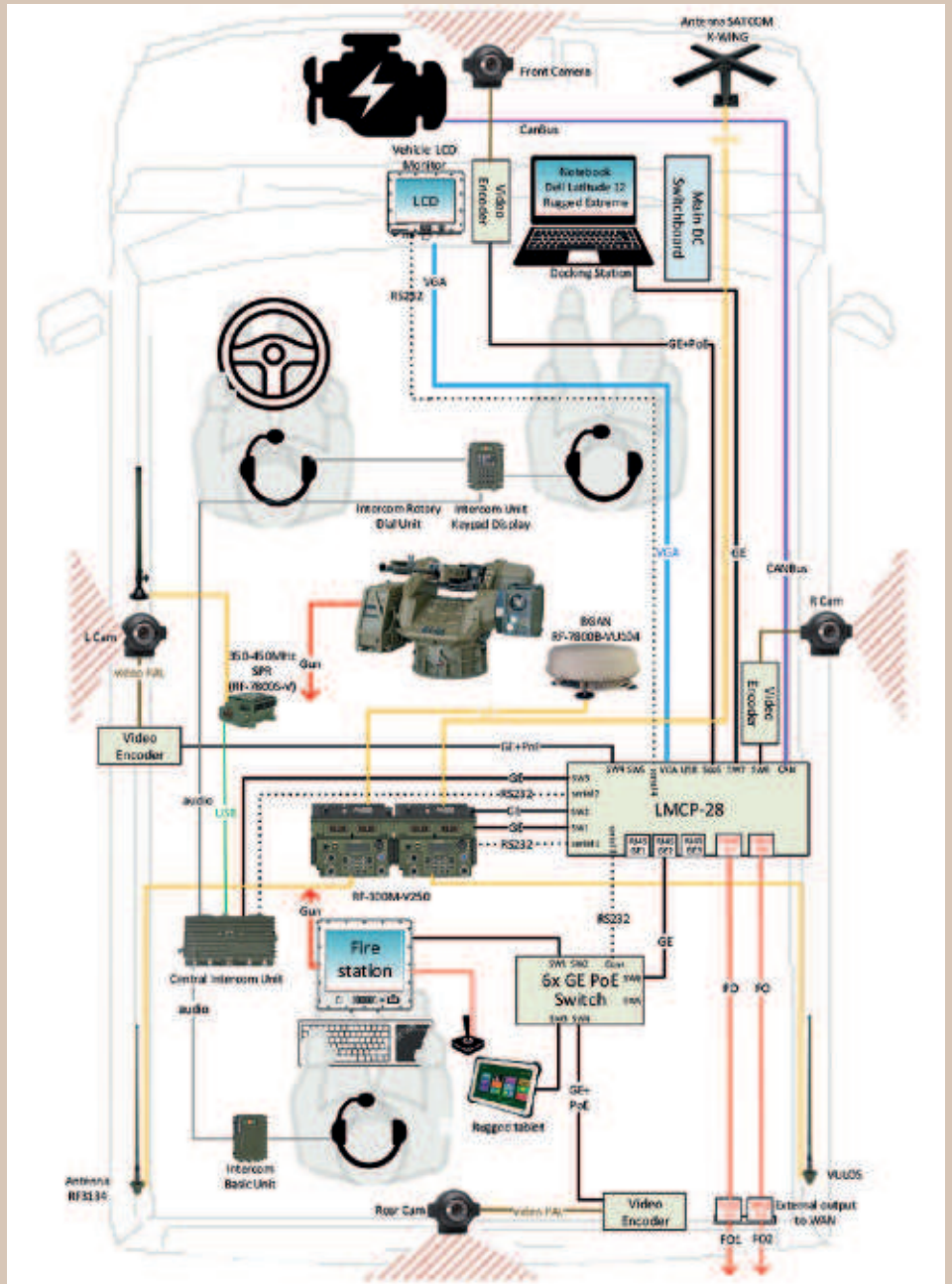
OPTOKON LMCP-28 – Mobile Computing Platform

The LMCP – Light Mobile Computing Platform – is a small, specialized, compact computer in ruggedized housing with various fiber optic and metallic interfaces for connecting devices in command and control systems. The LMCP can record a video from multiple IP cameras at the same time, network routing, network switching, communication with the radio through the serial interface and a powerful server. Administration can be carried out either locally or remotely by using the management controller.

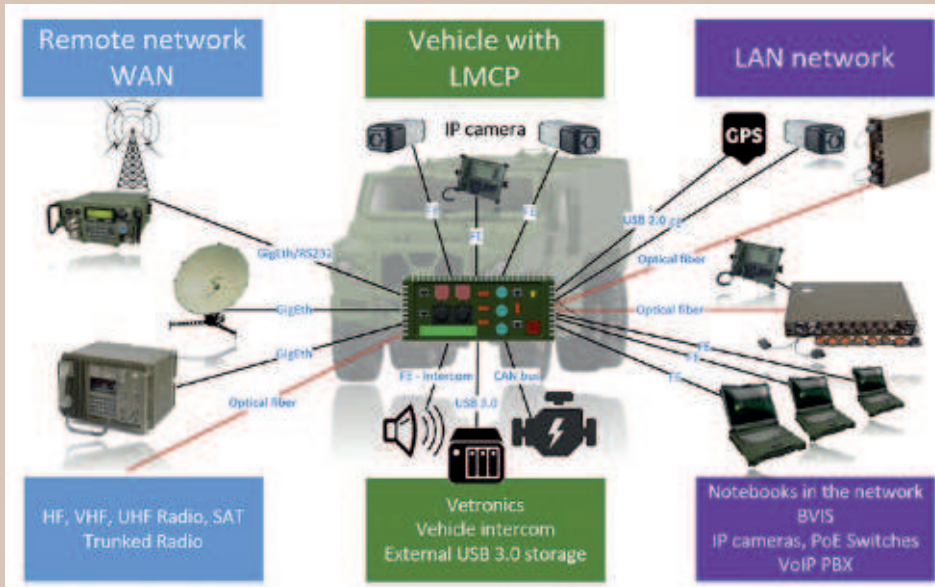
The LMCP is a powerful versatile mobile computing platform that integrates a robust Gigabit Ethernet router, a manageable Ethernet switch and a server based on the Intel Xeon processor six core D-1528 with 9 MB Cache and a speed of 1.9 GHz. This processor family provides the System-on-a-Chip platform aimed at low power and demanding server applications. The extremely high performance supports four memory positions with a total capacity of up to 64 GB and a modern m.2 PCI-E x 4 3.0 for SSD.

The LMCP offers a wide selection of data interfaces (Fast Ethernet and GigEth, HMA optical connectors, USB 2.0/3.0, video, VGA, serial, and CanBus). The security of the stored data ensures bay removable SATA HDD storage for SSD disks up to 2 TB.

The LMCP hardware design meets the demanding military requirements for small dimensions, low weight, and high performance with low power consumption. The LMCP is able to work in challenging environments and the EMI/RFI is compatible with IP-65 standards, MIL STD-810 and MIL-STD-461, enabling tactical deployment both in wheel and in tracked vehicles. The highly resistant architecture, operation at high temperatures



Example of an application



without fans, and its dimensions make it the ideal choice for a space-constrained vehicle.

Additional parameters:

- 4x RAM DDR4
- 2133/1866/1600MHz ECC/non-ECC
- Up to 5 routed GigEth interface
- 8x Fast Ethernet switch with 2x GigEth (optional optics HMA or metallic RJ-45)
- 2x RS232 and 1x CAB bus guided through D-Sub connectors, 2x USB 3.0 and 1x USB 2.0
- Power supply: 10-32 V DC

A typical application of LMCP using all types of connected devices can be used in Signal Corps vehicles although the architecture enables to design any type of special military vehicles for use in the digital battlefield.

WWW.OPTOKON.COM

OPTOKON HMA Connectors for Harsh Environment

OPTOKON offers several types of optical connectors for use in harsh environment climatic conditions. These are medium-sized connectors designed to connect nodes in harsh environment conditions using fiber optic cables. Special connector designs guarantee reliable operation even in the toughest operating conditions and are available for both multimode and single mode applications.

HMA-J - Harsh environmental Expanded Beam fiber optic connector

HMA-JF - Harsh environmental ferrule connector

HMA-HX - Harsh environmental hybrid connector

The HMA-J connector benefiting from Expanded Beam technology with the precision optical alignment system creates immunity from water, mud, dust, oil and other contaminants. The HMA-J Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves.

The HMA-JF uses 1.25 mm ferrules, which are already industry proven in both single mode and multimode applications. The unique design of the HMA-JF allows users to ensure high-performance and very low SFF insertion loss for Small Form Factor optical connectors under field conditions. The HMA-JF connector has a similar construction to the HMA-J connector and uses all the benefits such as immunity from water, mud, dust, oil and other contaminants.

The new HMA-HX hybrid connector is the same as the HMA-JF connector with the exception that it offers two metallic pairs that can be used as electrical contacts to extend the connectivity of the connector.

These highly durable HMA connectors can be used in military applications, heavy industries, the petrochemical industry and broadcasting applications in order to establish temporary optical networks.

* * *

We are pleased to inform you that **OPTOKON** will be participating at the **DSEI 2017** and **ECOC 2017** exhibitions. Please accept our invitation to visit us at **DSEI Stand N8-322** and **ECOC Stand 464**.

HMA-J	Optical Loss MM	50/125 @ 850/1300 nm 0.7 dB typ.
	Optical Loss SM	9/125 @ 1310/1550 nm 1.0 dB typ.
	Return Loss	9/125 @ 1310/1550 nm >32 dB



HMA-JF	Optical Loss MM	50/125 @ 850/1300 nm 0.3 dB typ.
	Optical Loss SM	9/125 @ 1310/1550 nm 0.5 dB typ.
	Return Loss	9/125 @ 1310/1550 nm >45 dB (typical 48 dB)



HMA-JF Harsh environmental ferrule connector

HMA-HX	Optical Loss MM	50/125 @ 850/1300 nm 0.3 dB typ.
	Optical Loss SM	9/125 @ 1310/1550 nm 0.5 dB typ.
	Return Loss	9/125 @ 1310/1550 nm > 45 dB (typical 48 dB)



HMA-HX hybrid connector with two metallic pairs



EUROPEAN UNION
European Regional Development Fund
Operational Programme Enterprise
and Innovations for Competitiveness

We are Setting New Trends in the Field of Monitoring Systems



In these present days of fast technologic progress, it is vital for every decent company to move their products forward so it doesn't stay behind its competitors. The better companies, however, are not content with just improving of their existing products, but they come up with new, revolutionary solutions, which surpass their competitors. One of such companies is also the company EVPÚ Defence, which brings to market new products every year, dictating new trends on the field of monitoring systems. And this year is no exception.

HD Cameras

Image resolution is one of the most important factors affecting image quality. In a present era of digital data transfer an analog solution is no longer as demanded as before. Thus company EVPÚ Defence offers a wide scale of cameras with a digital resolution up to Full HD for both short range and long range applications. Thanks to the high resolution and higher aperture of used lenses the cameras may reach up to double ranges of visibility compared to analog solutions.

Image calibration during temperature fluctuations

Not always can cameras work under favourable climatic conditions. They often have to deal even with high temperature fluctuations. These fluctuations can cause blurring of

an image, especially to cameras with a multiple optical image zoom. The company EVPÚ Defence has come up with a solution of the problem, which allows to regulate a back focal length of the cameras and thus compensate unfavourable temperature effects.



Camera SUMO HD32

The cameras SUMO HD32, newly allow the automatic regulation of the back focal length in dependence on the temperature, and thus they prevent from blurring of the image at high or by contrast low temperatures. This function is controlled fully automatic in the cameras, but in case of need, it can be controlled by user via software.

Pan-tilt MSR-W

This year, the company EVPÚ Defence is getting ready a project of new pan-tilt MSR-W, which, compared to other, usual pan-tilts, allows transfer of fluid medium to attached optical devices, whether for a purpose of cooling or lens showering. This ability makes the pan-tilt MSR-W totally priceless namely at desert areas, where cameras are exposed to extreme temperatures and sand polutions.

The possibility of transmissions of electric power of about five hundred and seventy watts, together with video signal at HD-SDI format, data communication, Ethernet 100 BaseT and three separate fluid media to both arms of the pan-tilt, where there were movement abilities and other technical parameters of original pan-tilts of this series maintained at the same time, makes of the pan-tilt MSR-W a completely revolutionary project.

The new pan-tilt MSR-W can carry a load up to 100 kg. The arms of the pan-tilt moves in range from -45 to +45 degrees and rotation speed of both elevation and azimuth axis is impressive one hundred degrees per second.

Imaging system SeeCheck

SeeCheck is an imaging system intended especially for vehicle surroundings monitoring or for vehicle crew protection outside the vehicle at day or at night.

The system is equipped with a positioning sensor unit with integrated imaging modules. The positioning sensor unit allows a fluent azimuth (movement range 0° - 350°, rotation speed 0 - 90°/s) guiding to ensure continual tracking around the vehicle.

The sensor part of the positioning unit consists of the day and night surveillance division. An uncooled thermovision module



(image sensor uncooled microbolometer, FPA format 640 x 480, spectral band 7.5-13.5 μm, sensitivity <math><50\text{ mK}</math> at f/1.0, interface RS232) with a fixed focus is used in the night division. In the day division, there is used a high resolution of 650 TV lines CCD module, again with a fixed focus. CCD module image sensor is 1/3" color CCD, resolution 976 x 582 PAL, 976 x 494 NTSC, sensitivity 0.005 lx at F1.2.

The imaging system can be controlled via a controlling unit with installed user SW, which displays image information to selected monitors and allows following options of control:

- control of the display unit via function buttons or a touchscreen
- display of the image information from the selected module
- control of the positioning unit
- switching of the image from individual modules to display monitors
- parameters settings of IR modules (brightness, contrast, colour pallets, digital zoom)
- creation of "scanning" modes
- fusion of the IR a CCD image
- addition of digital image stabilization for the system usage during a ride

Its weight 2,5 kg and smaller dimensions 125 x 169 x 123 mm make this system very easy to install on any type of vehicle.

The product complies with EN61000, MIL-STD-810 and MIL-STD-461.

www.evpudefence.com



MSR-W front



MSR-W back

Interview with Managing Director of the ORITEST

Today, we visit the headquarters of ORITEST spol. s.r.o., located in the centre of Prague, the capital of the Czech Republic. Over the course of the last year, the company has undergone some significant changes. Despite this, the company's focus remains unchanged. On the other hand, their portfolio has expanded, which is what we are going to look into with the company's Managing Director, Dipl. Eng. Josef Orel.

Nice to meet you, Mr. Orel. Could you tell me what has changed in your company over this year?

There was a significant change towards the end of 2016, when our company headquarters were relocated to a place not far from our original address, but which is much more accessible as well as more represen-

tative. Another significant step at the turn of the year was founding the new company Oritest Group s.r.o.

So after 25 years of successful management of ORITEST, you founded a new company? What is the difference between these companies, i.e. what was the reason for creating a new company?

Yes, we will be celebrating the 25th anniversary of our company this August. The foundation of the new company was neither planned nor was there long term preparation for it. We were contacted by a powerful foreign investor as a company with many years of experience in CBRN. The good reputation of our company on international soil also played a major role. The focus and business of the original company ORITEST re-

mains unchanged, with the company still engaged in the development and manufacturing of further generations of simple detection devices for industrial toxic substances and chemical warfare agents. The ambition of the Oritest Group is to build on this foundation and to develop it extensively, first and foremost by manufacturing its own Czech devices for spectrometric detection of substances, developing cooperative production of surveyor vehicles and decontamination systems, and offering comprehensive solutions in the area of protection against weapons of mass destruction in collaboration with other Czech and foreign entities. All of this begins from a conceptual design, equipment supplies and appropriate training. This is intended for users in the armed forces, but is also becoming increasingly



used in the areas of environmental protection, toxic waste disposal and inspection mechanisms. At the beginning of this year, Oritest Saxonia was founded in Leipzig to focus on the implementation of development programmes in instrumentation technology, employing top specialists in the field. They are also tasked with establishing the necessary production capacities.

This sounds like an exhausting enterprise that requires a great amount of effort and administration.

That's true, it wouldn't be possible without new people. Fortunately, we have acquired new colleagues for our team, both in the Czech Republic and from international companies, who have been renowned experts for many years. While the workload has increased by orders of magnitude, striving to achieve magnificent goals with an inspiring team is energising.

I can tell from your sincere expression that the work is indeed very exciting and fulfilling for you. Is there more enjoyment coming from the operation of the newly founded company?

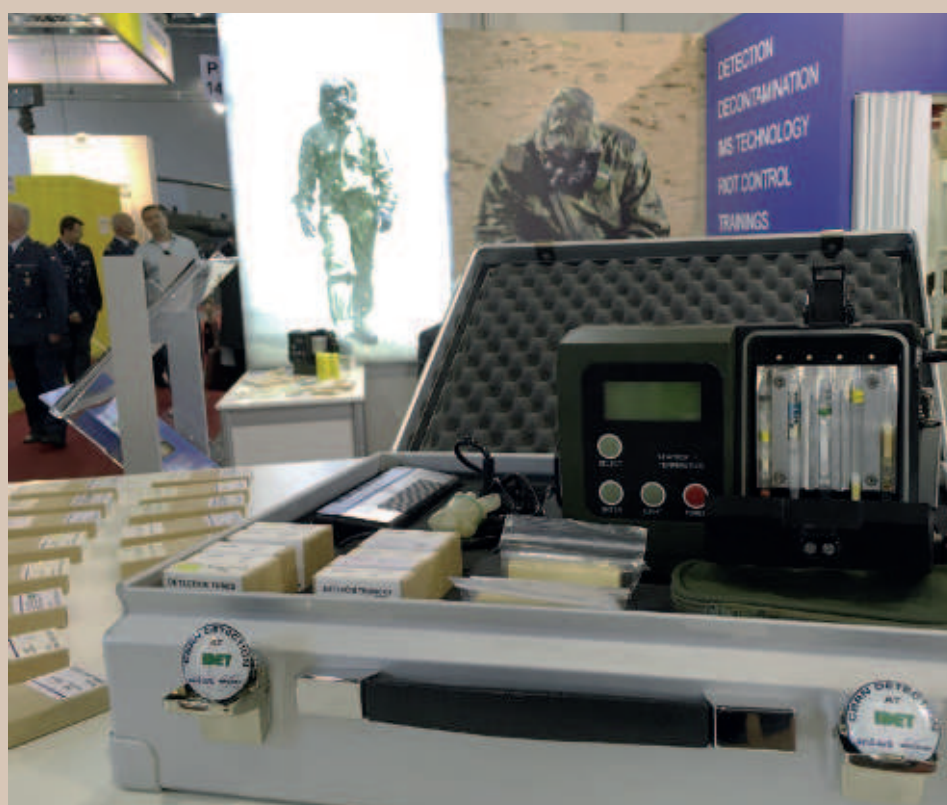
Recently, I have very much been enjoying my time with my one-year-old granddaughter, brought to our team by my daughter, who also happens to have been working for our company for years. I am equally happy that my son Aleš has also joined us after gaining some experience in other companies.

It is very gratifying to see the strong international acclaim of our results. Symbolically coinciding with the 100th anniversary of the first use of mustard gas and a few weeks before the 25th anniversary of ORITEST, representatives of Kärcher Futuretech, Bruker Daltonik and the Oritest Group met at the headquarters of Oritest Saxonia in Leipzig to confirm their interest in strategic

collaboration in the development and delivery of products for comprehensive solutions for CBRN defence. Considering the still-well received international reputation of Czech CBRN defence in general, the challenge that we have taken on borders on outrageously big and daring, but is also acceptable.

In addition, we have attended major exhibitions and symposiums, as we do every year. I'd like to mention the IDEX trade fair held in Abu Dhabi, where we had a successful meeting with the senior management of CBRN UAE, setting up several projects with a high probability of implementation. Subsequent trade fairs would include LAAD in Rio de Janeiro, CBRNe in Madrid, IDET in Brno and NCT Europe in Sonthofen, while we are also looking to attend DSEI in London.

www.oritest-group.cz



www.oritest-group.cz

New Premises of Quittner & Schimek Seen Through the Lens

Last year we presented an interview with Mr. Jiří Šimek, Managing Director of the company. One of the topics was relocation to the new site and joining of all activities and departments under one roof.

The firm is dynamically growing and the previous situation was on the limit with regard to large production volume of wire harnesses and electromechanical assemblies for Aerospace & Defence Industry, not only from production area perspective, but also rapidly increased demands for procurement, delivery and stocking of components, wires & cables and finished products before despatching to customers as well.

Currently there are 260 employees of various professions. Investment in the acquisition and upgrading of large production area has created excellent conditions for further expansion of the company.

We were impressed by the scope and the quality of new production areas, intelligent distribution systems for energy and IT, workshops and offices.

In total it has been upgraded 7,500 m² till now and additional hall with area of 8,000 m² are ready for future development or new activities.

We are pleased that we can bring you closer to the new premises thanks to high-quality pictures and allow you to look at the offices, stocks, production areas and the production itself.

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ERA in Cooperation with the German Company SMAG Introduces a Brand New Mobile Antenna Mast for its System VERA-NG

The first results of ERA's cooperation with the German manufacturer SMAG is the new mast system type Ftm 25/6 which complements ERA's unique passive reconnaissance and surveillance system VERA-NG. They have already signed a contract for delivery of the first batch of container mast systems at the IDET exhibition in Brno in June. Further projects and possible deliveries are in the planning stage.

The objective of this project has been to connect both products in an optimal way. The passive radar system VERA-NG by ERA,

and the container and mast for its antenna from SMAG work together as one unit. This state of the art technology permits maximum mobility on rough terrain. During transport, the entire system is protected and invisibly stored in a military shelter container.

"We have known ERA company for many years now, as this company has developed and modified the passive radar systems VERA-NG. This surveillance and reconnaissance system has been verified as a very reliable and unique system on the market. We developed together a new mobile mast system type Ftm 25/6 Medium, which connects both systems in an

optimal way. The complete system is hosted in a twenty feet long container, which comes with the mast and is easy to transport to any point of mission," stated Wolfgang Schnelle, SMAG Managing Director.

The great advantages of the new mast system are high payloads (up to 300 kg) with highest accuracy at the mast point, even at high wind speeds without using any kind of guy wires. The masts are fully automated, operable at intermediate heights, and ready for any type of mission after a very short installation time. The passive EMS Tracker Vera-NG is a self-learning ELINT system and can be perfectly complemented with the reliable SMAG antenna mast.

"ERA is pleased to cooperate with such an experienced and flexible partner. We really need to differentiate our portfolio of suppliers in order to balance the risks and are glad that the SMAG components perfectly complement our antennas to create one united mobile system," stated Viktor Sotona, ERA Managing Director.

The Mobile Antenna Masts are manufactured in Salzgitter, Germany as of the beginning of 1974. Over 1,900 masts are in successful operation worldwide. SMAG is the unique manufacturer of Mobile Antenna Masts worldwide up to a height of 40 m without using any kind of guy wires. The Mobile Antenna Masts are globally used for disaster and military operations, for mobile communication, radio and broadcasting transmissions. The mast systems are tailor made and can be mounted e.g. on trailers, trucks, containers, armoured vehicles and platforms.

On VERA-NG – the world unique passive surveillance system by ERA

Deployable Passive ESM Tracker (DPET) VERA-NG is the unique, highly mobile passive surveillance system for detection, location, identification and tracking of air, ground and naval targets. The system's design is fully mobile in all three versions ERA offers to military bodies all over the world. The sensors could be placed either on masts of two different heights (12 and 25 metres) with tubular telescope structure or light weighted tripods or quadpods. They can be easily transported either in the special lorries of different brands as an integral part of the delivery or in general purpose vehicles. It has been delivered in a "roll-on/roll-off" configuration including a fully configured mobile command centre containing all the processing, analysis and observation equipment. This ensures rapid tactical deployment in any terrain circumstance.

www.era.aero



SOKOL™ 2.0 - Parachute Training Simulator

High Fidelity Parachute Training System

SOKOL™ 2.0 was developed by e.sigma for the multi-stage and holistic training of parachute-jumpers from beginner right down to paratrooper, Special Forces and amphibian troops. The training on SOKOL™ 2.0 covers the operational spectrum from HALO (high altitude – low opening) to HAHO (high altitude – high opening) jumps.

The system provides parachute training capability and functionality as required for free-fall, mission exercises and emergency procedures. The safe simulator environment allows the trainee to fully concentrate on his/her jumping skills without distracting thoughts of injury and dangers posed during inclement weather jumps, or critical operational problems with chute, its lines, or other auxiliary equipment. Utilizing customer-specific parachute types, trainees learn to master dangerous situations while using the familiar equipment in 3D-Virtual-Reality training prior to their first live descent.

In contrast to real jump, training on SOKOL™ 2.0 offers an optimization, as exercises can be repeated under the same conditions as often as desired. Exercises can be expanded by making all sorts of adjustments, such as to wind and weather conditions, daytime and nighttime, thereby making the situational difficulty selectively harder for the trainee.

The training program is rounded off by the use of auxiliary simulation equipment such as GPS, (audible) altimeters (e.g. Pro-Dytter, Visio), automatic activation devices (e.g. Cypres, Vigil), radio and compass.

The simulator features realistic representations of environments,

horizon and descent movement. It utilizes photorealistic geo-specific visual databases with typical environmental scenes such as desert, mountains, shorelines, urban landscapes.

SOKOL™ 2.0 can be networked within the SOKOL™ product range, but also with other simulators from e.sigma or third party providers, thus enabling multi-stage group training.

Thanks to the broad spectrum of training possibilities, SOKOL™ 2.0 superbly closes the gap between theoretical learning and practical exercise. It represents a useful and cost-effective supplement to traditional training devices, such as pendulum-rigs, suspension rigs, jump-towers and wind-tunnels.

www.esigma-systems.com



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SIMULATION TOOLS

RESEARCH & DEVELOPMENT

Story of RETIA – Transforming Traditional Radar Manufacturer to State-of-the-Art Solution Provider

RETIA transforms from traditional radar modernization and manufacturing company to a technological company with portfolio of complete solutions on top technological level.

The RETIA Company was established in 1993 as a limited liability company, but transformed into a public limited corporation three years later and has remained so until now. Since its establishment, it has continuously grown not only in size, but above all in the volume and significance of its contracts. To meet rising customer demands, the company purchased, renovated and completed development of manufacturing premises in which it still resides. Thus, along with numerous technical and organizational transformations, it has been able to obtain and accomplish significant contracts for the Czech Army, as well as major export projects for foreign customers.

Radars, command and control systems – RETIA's key product areas

From the very beginning, Retia focuses on

systems solutions, which enable to its customers to tackle demanding tasks in the best way. The portfolio of products and services consists of military and security systems, and recording systems. Within the first pillar, RETIA offers comprehensive solutions for air defence and other units of the army. It specializes in development and production of new radar systems and command and control systems as well as modernization of radar and missile systems, including integration of the friend-foe identification (IFF), so as to ensure even more efficient utilization of the used military technology, according to NATO standards. As the military market develops, RETIA is more and more focusing on own development of highly sophisticated products which will soon be the pillar of RETIA's profitable growth.

The company's key solutions in the area of military systems include the VSHORAD module. It consists of the short-range radar ReVISOR (already proven in Czech Armed Forces), combined with C2 module and air observer. The ReVISOR is able to detect, identify and track, with high data refresh rate, air

targets, including low-flying targets and targets with low radar cross section (e.g. drones). Thanks to ReVISOR integration with command and control system and an air observer, the VSHORAD module creates turnkey solution for low-level air defence.

The VSHORAD module is of course not the only Retia contribution to the valuable air defence solutions. RETIA also develops a very sophisticated 3D multi-regime and multi-purpose 3D sensor for very short range targets detection like drones or ground-based targets. Another key RETIA project is mid-range 3D radar suitable for surveillance as well as weapon control. RETIA already tightly cooperates with several important customers who started the acquisition process for this type of radar.

The feedback on the latest results of product development are very positive and it shows that RETIA is able to fulfill the most demanding requirements of its customers. With its worldwide activities, RETIA customers can be sure they obtain the best value for the money for their air defence applications no matter in which part of the world they are.

www.retia.cz



M10(A) Personal Headsets

The MESIT aerospace, s.r.o., company's primary business activity is the development and production of electronic equipment, instrumentation and precision mechanics designated for both civil and military technology. In the 1970's, the company introduced its own intercom system as well as the first personal headsets primary used within the L-410 aircraft. MESIT have been subsequently produced several communication systems and headsets generations like VICM 180 mainly intended for the ground military applications up to state of the art M10, respectively M10A. Based on this experience the company achieved the rank of the world's most advanced manufacturers especially of military personal headsets with thousands units exported all over the world during recent years.

Unique M10 and M10A headset's modular concept offers a wide range of variants in accordance with the purpose of their use. Headsets can be adjusted to any intercom system to provide clear communication in various types of military tracked or wheeled vehicles including heavily armoured personnel carriers and main battle tanks. Each communication set excels in its very rugged design suitable for extreme environment. The detachable noise-cancelling flexible boom microphone with associated wind sock or throat microphone together with sturdy swivelling earphones containing replaceable soft ear cushions to perfectly fit each head shape fulfil the requirements of intelligible and reliable communication in a very noisy environment with a great protection for the ears by very high noise reduction while maintaining maximum comfort for the users. The headset M10A includes ANR system provided by an electronic feedback circuit built on an independent printed circuit board fitted into each earshell. A small noise sensing microphone as well as loudspeaker is also a part of ANR system to provide low frequency acoustics communication signal to compensate for the effect of ANR cancellation.

M10A headset is equipped with the binaural Talk-

-Through (TT) function for situational awareness to monitor surroundings ambient sounds with an external sound reproduction ration 1:1 and electronically compressed output level (it amplifies weak sounds and attenuates the strong ones to protect the user's hearing) whereas the headset need not be taken off the head. TT microphones are independently integrated in both left and right earshell. Furthermore, M10A can contain the voice operated audio output feature to receive the ambient noise with the boom/throat microphone whereas a threshold level to activate the audio output is derived from this noise. This feature allows the operation of the headset without having to continually activate the Push-to-talk (PTT) switch or inline pressel box. All mentioned functions can be easily (de)activated by the integrated control button.

M10A headset requires power supply in a range of (6.5 to 37.5) VDC, while M10 headset is a passive version which does not need any power supply – M10A has integrated automatic fully passive mode capability which ensures its continuous usage even without power supply. In addition, M10A contains integrated microcontroller driven self-test mode and acoustic indication of operation modes. Both headsets M10 and M10A meet the military specification like MIL-STD-810, MIL-STD-461. They can contain different types of flexible boom of throat microphones, additional input for the connection of a second microphone or gas mask adapter, integrated PTT switches or inline control modules, connectors, bailout cables, carrying bags etc. Personal headset can be equipped with adjustable headband or Crewman's Helmet Protective Harness composed of a comfortable soft-liner or a hard-shell (bump protective or ballistic helmet) with liner. Adjustable liners can be supplied in a summer, winter or tropic version. Ballistic protection hard-shell meets NIJ standard, helmets can be supplied in a different colours including textile camouflages.

Dr. Tomáš Mazúrek
MESIT aerospace, s.r.o.
www.mesit.cz



Czech Defence Industry & Security Review 2/2017



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GUMOTEX Presents News in the Portfolio

Reliability, simplicity and speed. We could continue enumerating, but these properties are the key ones when action is needed. And these are exactly the properties that the inflatable tents of GUMOTEX Rescue Systems have. The GUMOTEX brand does not loaf around, but is constantly innovating.

GUMOTEX Rescue Systems products are familiar to members of all rescue teams. They have been partners of soldiers, firemen and rescuers for more than twenty years. It was never a unilateral relationship. Whether inflatable tents, decontamination showers or basins, flood barriers, rescue boats or protective clothing, there has always been a philosophy that people who use their equipment every day, have their equipment "well-thumbed". And their feedback has also resulted in novelties that GUMOTEX presented this year.

The inflatable tent GTX – 09A is a new product that has been developed directly for military use. This "tiny" tent, with its weight of only 65 kilograms, is an ideal companion for units in combat vehicles. Using a connecting link, they can be connected to the vehicle, so one unit can be created easily. In addition, these tents can be arranged in a chain behind each other to create a place for accommodation or material storage. The military inflatable tent HF – 46A has already been serving well in the Czech Army for some time, both during military exercises and military actions, where they easily served the role of a canteen, a quarter, or a warehouse. Thanks to its interconnectivity with other tents and even with the large-capacity tent, they can also grow into a comprehensive facility of almost any size. A space of 44 square meters can be transformed into a control room, an accommodation facility, or a field hospital as required. Additionally, this tent can also be fitted with extensive accessories, such as a sun shield, internal insulation liner, levelling floor or electricity distribution. It is manufactured from high quality flame-retardant materials.

This year's innovation for this tent is a new wiring infrastructure, which has "slimed down" a couple of kilograms, particularly thanks due to a significantly smaller distribution board, so handling it will be even easier and faster. Also the number of cables used for electricity distribution to the sockets has decreased. There are still twelve sockets available for the soldiers, six on the right and six on the left. The system for inflating the tent is new; it can be completed with a pressure controlled pump and furthermore, valves and lighting are in series connection making it easier to install and operate the tent.

Tent HF – 46A meets the strictest military standards and is listed as military means of NATO, together with the large-capacity tent MHHF – 1A they have their NSN stock numbers (NSN 0148340000824 and NSN8340160069496).

www.gumotex-rescue-systems.com



Inflatable tent GTX – 09A



Military inflatable tent HF – 46A



Military inflatable tent HF – 46A



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www.gumotex-rescue-systems.com

Promotion of VOP CZ through Presentation of NIMR Vehicles

As a major supplier to the NIMR Company, VOP CZ is a marketing and manufacturing partner for the entire range of NIMR vehicles, which are mainly intended for Central Europe.

This year the company chose the NIMR AJBAN and RIV (Rapid Intervention Vehicle) from the wide range of NIMR vehicles, for the purpose of presentation. The AJBAN 440A is a highly mobile, four-wheel drive armoured vehicle, equipped with the most modern ballistic and mine protection equipment. Its modular design allows it to be configured to meet the requirements of the most demanding operation tasks, to provide support and to take part in combat missions. The RIV version is a modified, open and lighter version based on the AJBAN, intended for rapid deployment units, and is equipped with a Maserati engine for example. These vehicles have previously been presented at several major events in the Czech Republic.

The NIMR AJBAN 440A 4x4 vehicle was presented to representatives of the Czech Ministry of Defence and the Czech Armed Forces at the Industry Days event in Vyškov at the end of February. VOP CZ technology, the NIMR AJBAN 440A and the TAROS Robotic Device, took part in the FOURLOG 2017 international army logistics training event, for students of military schools from four countries, in the second half of March. Practical exercises took place in the Březina u Vyškova military training area and the NIMR AJBAN 440 headed the entire logistics column.

The NIMR AJBAN and the RIV were presented to the professional public in May at the Military Day event in the Březina u Vyškova military training area, under the patronage of Minister of Defence Martin Stropnický, and subsequently at the IDET 2017 International Trade Fair of Defence and Security Techno-



BAHNA 2017

logies. The objective was to offer the Czech Armed Forces a modern, light, armoured vehicle of first-class parameters, which could also be used as a platform for chemical, reconnaissance, logistics, medical and other versions.

The vehicles were presented to the general public in June at the Ground Forces Mud Day event in Strašice in Rokycany and at the Hranice Games at General Zahálka's Barracks in Hranice.

The company also organised a presentation for professionals and the press. Reporters and representatives of the Czech Armed Forces were able to see the AJBAN and the RIV in the field and on the test track at VOP CZ. They were pleasantly surprised with the quality and technological standards of both vehicles.

Spectators were able to see just the NIMR AJBAN vehicle at other events for the public,

which included the Day of Support Forces of the Czech Armed Forces in Králíky in August and Tank Day in Lešany by Prague in September. VOP CZ will also present this vehicle in Poland at the MSPO International Trade Fair of the Defence Industry in Kielce and at NATO Days in Ostrava.

VOP CZ is also presenting NIMR vehicles within the scope of a so-called Road Show, in individual regions of the Czech Republic over the course of 2017.

The NIMR AJBAN and RIV vehicles meet requirements placed on reconnaissance vehicles and also as multi-purpose vehicles for modern armed forces. Vehicles are assembled from components of leading European and global producers and some parts are manufactured in the Czech Republic. If successful in the tender, NIMR vehicles will be manufactured for the Czech Armed Forces at VOP CZ.

www.vop.cz



IDET 2017



Industry Days

NIMR AJBAN

The AJBAN Class of 4x4 vehicles provides a multipurpose platform for all military requirements, from utility vehicles to fully protected patrol vehicles. Due to the modular nature of the vehicle, it can be configured to suit a variety of operational roles and catering for various mission systems.



Zetor Engineering is Developing Tracked and Wheel Combat Vehicle Platforms

Zetor Engineering, the design and development company, originated in 2014 as a subsidiary of Zetor Tractors, the tractor manufacturer based in Brno. The new company focuses on defence industry specialising in developing platforms for highly mobile tracked and wheel off-road vehicles which meet current and future requests of armed forces. Doing this, Zetor Engineering draws on experience and analyses of deploying current combat vehicles of this type in combat operations as well as prognosis of future conflicts.

“The period of current conflicts reveals significantly higher danger faced by vehicles. Security of the vehicles used at present is insufficient in such conflicts, their durability is coming to its end and they are not able to meet strict requirements concerning crew safety even if renovated,” says Isabela Vršková, the Company’s representative.

The direction of Zetor Engineering was presented to the public on the occasion of Defence and Security Technology Fair (IDET) which took place in late May and early June in Brno, the Czech Republic. The visitors could

see a model of the inner layout of the tracked combat vehicle under development – platforms for different kinds of superstructures – provisionally called Wolfdog.

The concept can be used in different modifications ranging from Rapid Deployment



Project WOLFDog



Project FOX

Vehicle for up to 8 troopers, command vehicle, sapper vehicle, and medical vehicle to a modification equipped with a combat turret. The final modification of the vehicle depends on the requirements of potential customers.

“The project targets on markets in countries which are going to replace their combat vehicles with vehicles meeting requirements of modern armed forces. The presented concept has potential of further development at least in the next thirty years,” says Isabela Vršková providing further details.

The visitors of the fair were also able to see a prototype of a four-wheel FOX Rapid Deployment Vehicle. This Light Tactical Vehicle offers a high terrain performance and is designed for the needs of Special Forces, or Rapid Deployment Forces respectively. “The vehicle can deploy a four-member crew and equipment including arms. It is designed with emphasis on high design modularity allowing different combinations of arms and gear depending on specific mission conditions,” says Isabela Vršková.

For more details about the Company and its projects visit www.zetorengineering.com.

Knowledge and Experience are a Guarantee of Quality

The company VORRENS s.r.o. was founded in 2009 as a company focusing on supplies of material and services for users of air and ground technology, including military equipment. The founders of the company have more than 20 years of experience in domestic and international trade, predominantly with sophisticated technical products.

VORRENS has, since 2009, progressively built and broadened its network of agencies and partners, which is now spread throughout the countries of Europe, the Commonwealth of Independent States, central and northern Africa and south-east Asia. Employees at the company draw on their many years of experience in trading in the services and products of Czech engineering and more. VORRENS s.r.o. holds an ISO 9001 certificate and is authorised to trade with military material in accordance with Act No. 38/1994 Sb. (Coll.) as amended. VORRENS is a member of Defence and Security Industry Association of the Czech Republic and French-Czech Chamber of Commerce. VORRENS has two main divisions.

Division of special materials is focusing on deliveries of:

- materials, products and services for maintenance, repairs and operation of aircraft and helicopters
- ground support equipment for aircraft’s operators
- pilots and crews equipment, rescue and general protection means
- protection equipment and suits for police and military special forces, including ballistic protection of cars, ships and helicopters
- communication technology for air and ground
- inflatable modern military decoys, models of arms and military equipment
- pilot’s and ground personnel training.

Division of mechanical engineering is focusing on deliveries of:

- electrical engines and generators for industry and power stations
- forming machines, forging rollers and presses of Czech provenience
- means and systems of transportation
- technology for mini-brewery and food industry
- consultancy and advisory.

VORRENS exclusively represents French manufacturer of pilot’s helmets, electro-acoustic and communication equipment such headsets, microphones and intercoms, ELNO company, in the Czech Republic.

www.vorrens.cz





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IDET Fair Was Successful

The IDET - PYROS - ISET trade fair trio with its commercial, political and international significance is the second most prestigious event of the year right after the International Engineering Fair. The opening of the fair was attended by President Miloš Zeman, Minister of Defence Martin Stropnický, Chiefs of the General Staff of the Czech and Slovak Republics, representatives of the Presidium of the Police of the Czech Republic and the General Directorate of the Fire Brigade, foreign defence ministries and embassies. A total of 17 foreign delegations from Belgium, Brazil, Egypt, Philippines, France, Kazakhstan, Latvia, Macedonia, Hungary, Germany, Norway, Poland, Austria, Slovakia, Sweden, Rwanda and Turkey took part in the fair at the joint invitation of the Czech Ministry of Defence and Chief of General Staff of the Armed Forces of the Czech Republic.

388 exhibiting companies from 30 countries took part in the IDET exhibition, 58 % of them from abroad. For three days, 32,828 visitors passed through the exhibition centre gates. On Saturday a Security Day took place at the exhibition grounds, focusing on the presentation of the integrated rescue system for the public, on which the Army of the Czech Republic was presented with the fire and police techniques. This extraordinary event did not miss over six thousand visitors.

This year's IDET partner country Turkey showed a very impressive exhibition of leading Turkish companies, including Aselsan or Rocketsan, that belong among the largest companies in the world. A large Turkish delegation was led by Deputy Defence Minister Mr. Suay Alpay. In his words, Turkey's participation opened a new phase of relations between the defence industries of both countries; he also praised the quality of the event, the professionalism of BVV and the Brno Exhibition Centre.

Golden IDETs awarded to five exhibitors

The Golden IDET awards were handed out at the Slavkov (Austerlitz) Chateau at a festive evening and five exhibitors won this prestigious award. It was Agados s.r.o., which caught attention of the expert jury with its PK-4 Kaga mobile field kitchen, SVOS s.r.o. received the Golden IDET for its semi-armoured open light vehicle PERUN ST. Additional awards were won by the company Robinson Armament Co. for its XCR-M 7.62x51 NATO precision rifle, by the exhibitor EXCALIBUR ARMY for its BM-21 MT 4x4 self-propelled rocket system, and by the company Fidelis CyberSecurity USA for its Fidelis Network & Fidelis Endpoint integrated system. The Jury also decided to grant an honorary mention to the AFCEA Cyber Security Task Force for its longstanding contribution to the training





and education of armed force specialists in information and communication technology and cyber security.

"Long live the honest armourers," wrote president Zeman in the BVV memorial book. "The armament industry is an industry like any other, and arms exporters need to be promoted like any others," the president said in his opening speech.

"We all know, except maybe a few activists, that securing law and order, i.e. security is the main task of the state. Unfortunately, an ideal world of goodness does not exist. That is why there must be the army, security forces and security fairs. I believe that the IDET / PYROS / ISET fairs will contribute to strengthening our safety," said the BVV CEO Jiří Kuliš in the introductory speech. He responded to the opinion of some activists and city representatives that the Brno Trade Fairs

as a city company should cease providing space for arms trade and stop organizing the IDET trade fair. He also thanked the Ministry of Defence and the Czech Army for their cooperation.

"The Army and the Ministry of Defence of the Czech Republic strongly cooperate in organising IDET; I take that for granted ... IDET has several dimensions. It is extremely important for our citizens to know that they have an army, what it does, how it is armed – to know what their taxes are for. In today's rather complex security situation, this is all the more important," said Martin Stropnický, Minister of Defence, to the importance of the fair.

This year's security fairs have been a pleasant surprise, judging by the exhibitors' reactions. They will enter the history of the event as one of the best.

www.idet.cz



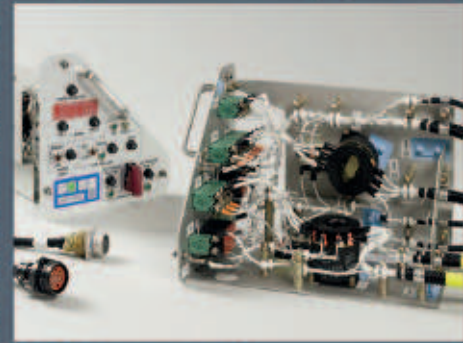
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Quotes about the Fairs

I welcomed the invitation to IDET as I believe that the arms industry is an industry just like any other and arms exporters must be supported just like all the others.

**Miloš Zeman,
President of the Czech Republic**

The Army and the Ministry of Defence of the Czech Republic strongly cooperate on IDET, I take this as a matter of course and I will especially appreciate if IDET gets visited by as many citizens as possible. IDET has several dimensions and first of all I wish to express how immensely important it is for our citizens to know that they have an army, what the army does and what arms it is equipped with – so that they know what their taxes are spent on. In today's rather complex security situation this is all the more important.

**Martin Stropnický, Minister of Defence
of the Czech Republic**

The army is present at every IDET edition. This year, there are close to three hundred soldiers here who support the exhibition and fifty pieces of equipment, i.e. ground and air force equipment. This is a good opportunity to show how the army has evolved and what equipment it uses. The public can see how funds are spent on the defence of the state. And we feel really at home here.

**Josef Bečvář, Chief of General Staff
of the Armed Forces of the Czech Republic**

Unfortunately, there is no ideal world of good. That is why there must be an army, security forces and security fairs. I believe that the IDET/PYROS/ISET fairs will contribute to improving our security.

Jiří Kuliš, CEO, BVV Trade Fairs Brno

At the trade fair we signed an agreement between DSIA and our Hungarian counterpart, the Hungarian Defence and Security Industry Association, which aims at closer cooperation. Furthermore, at the Czech-Austrian Forum I invited our Austrian colleagues

to join this agreement and support us in our efforts. I have some concerns over the current ideas of the European Commission to set up the European Defence Fund and over its impacts on small and medium-sized enterprises in small countries. We want to protect our industry and we wish to invite other countries, such as Austria, Slovakia or Slovenia to join forces to counterbalance pressures of large corporations.

**Jiří Hynek, President of the Defence
and Security Industry Association
of the Czech Republic (DSIA CR)**

The Police of the Czech Republic has focused its exhibition this year on introducing the specific work performed by the Foreign Police Service, which is not so visible to ordinary citizens. Under the working title "Migration" we wanted to introduce to the public what technology we use to protect the state borders and how it would work if we were to detain a group of refugees. The visitors were most interested in testing the technology at the registration point we set up in our exhibition stand. From our point of view, IDET was a success, a large number of visitors arrived and a lot of young people asked about the police work. We also had an HR manager from the Police of the Czech Republic present here.

**Miroslav Tóth, Head of Foreign Police
Department, Regional Directorate of the
Police of the South Moravian Region**

We take part in various defence trade fairs around the world, with IDET being one of the prominent ones. Turkey and the Czech Republic cooperate within NATO and, at the same time, our defence contractors cooperate individually. Turkey has been buying light weapons of Czech production for a long time since the times of Czechoslovakia. Therefore, our cooperation is nothing new. We are pleased to be a regular participant at the IDET fair and this year we will even become the partner country. This confirms

the emphasis we place on the cooperation between the Czech Republic and Turkey in all areas including the defence industry.

**Fethi Etem, First Secretary
of the Turkish Embassy in Prague
and Deputy Ambassador**

I would like to acknowledge the cyber security secondary school competition. We face a huge shortage of people, IT specialists and therefore it is good to start at secondary schools and I hope that it will continue at universities.

**Dušan Navrátil, Government Cyber
Security Authorised Officer**

EXHIBITOR'S VIEW

We are pleased to be able to present our products to the professional and general public. IDET was larger than last time, but on the other hand there were a lot of lay visitors here but we do not mind because our products are intended to serve people across the individual sectors. We received the GOLDEN IDET for the BM-21 vehicle, which is a modernized rocket launcher built on the Tatra chassis. Overall, about two thousand people came to visit our stand. For three days we held continuous negotiations in all areas offered by our stand, which was the largest at the fair, we occupied over 500 m² of indoor space and another 400 m² outside. We signed several cooperation agreements, several memoranda, and met both the existing as well as new business partners.

**Lukáš Novotný, Marketing Manager,
CZECHOSLOVAK GROUP**

This year's IDET is far better than the one two years ago, there were many more political and army representatives as well as the public coming here. We expanded our exhibition and brought interesting exhibits here attracting the interest of visitors. We have a very positive opinion of the fair and we are satisfied with the business, too.

**Martina Jelenová, Office Manager,
BAE Systems**



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This is our first time at IDET. In our portfolio we have a range of products suitable for the army, rescue services and similar entities, which we have been offering in the Czech Republic for only two years and therefore this is our premiere cross-section presentation of the of our offer. We are very happy with the business here; I have held meetings with people from our target group, i.e. soldiers, fire-fighters and rescue workers. We could talk in person about different details of the technology, which was certainly a benefit and I have also arranged further meetings and product presentations for the future. The total offer presented at IDET is excellent, there are interesting technologies here, many of which complement our products. I think that the trade fair standard was very high.

is a major social event and has turned out very well. We are satisfied both in business and social terms.

Zdeněk Zachař, Sales Manager, AERO Vodochody AEROSPACE

I am impressed by the Cyber Pavilion, we have managed to organise such an event for the first time. The Pavilion is obviously very lively all the time, it is visited by curious people who also attend expert announcements from partners and therefore we have achieved what we wished to achieve. We are also satisfied with the secondary school cyber security competition; we very much appreciated our involvement and promotion. The winners will move on to the international round and we will certainly continue with this competition. I am excited about this year's IDET and I think everyone is satisfied here.

Michal Slezák, Executive Director of the Cyber Security Association, European Cyber Security

IDET is very important for small and medium-sized Czech businesses as it provides access at reasonable costs to potential customers in basically the same scope as in other large international trade fairs.

Adolf Kapic, Defence and Security Industry Association

I think more people came to IDET than two years ago. Visitors certainly enjoyed the equipment, we have arrived with fifty pieces. There was a great interest in simulation and training technology for air and ground equipment. Visitors could see what it is like to be inside a helicopter, tank or Pandur. The laser shooting range was a great success and a lot of people came to see the field hospital. People were also interested in our recruitment booth, both in professional units and military schools.

Jana Zechmeisterová, Spokesperson of the Ministry of Defence and ACR

The Prague City Police stand presents our now product, a two-story extendable system built into the river police service vehicle. Other extendable systems for utility vehicles, built-in structures and unbreakable outdoor cases, ideal for storing sensitive equipment. There is great interest in our solution and this trade fair is generally very positive from our point of view. It is not about the number of visitors but about the quality of potential customers and I feel very good about that.

Jan Kupský, Managing Director, ALFAVARIA Group

This year's IDET was very interesting both from the point of view of the visitors and certainly also for us, the exhibitors. We liked it in business terms but also the goods that were here to see. We are satisfied.

Juraj Urban, Managing Director, General Dynamics European Land Systems – Czech

I consider this edition as very successful, the entire Hall P is full and a number of foreign and domestic delegations have arrived. IDET

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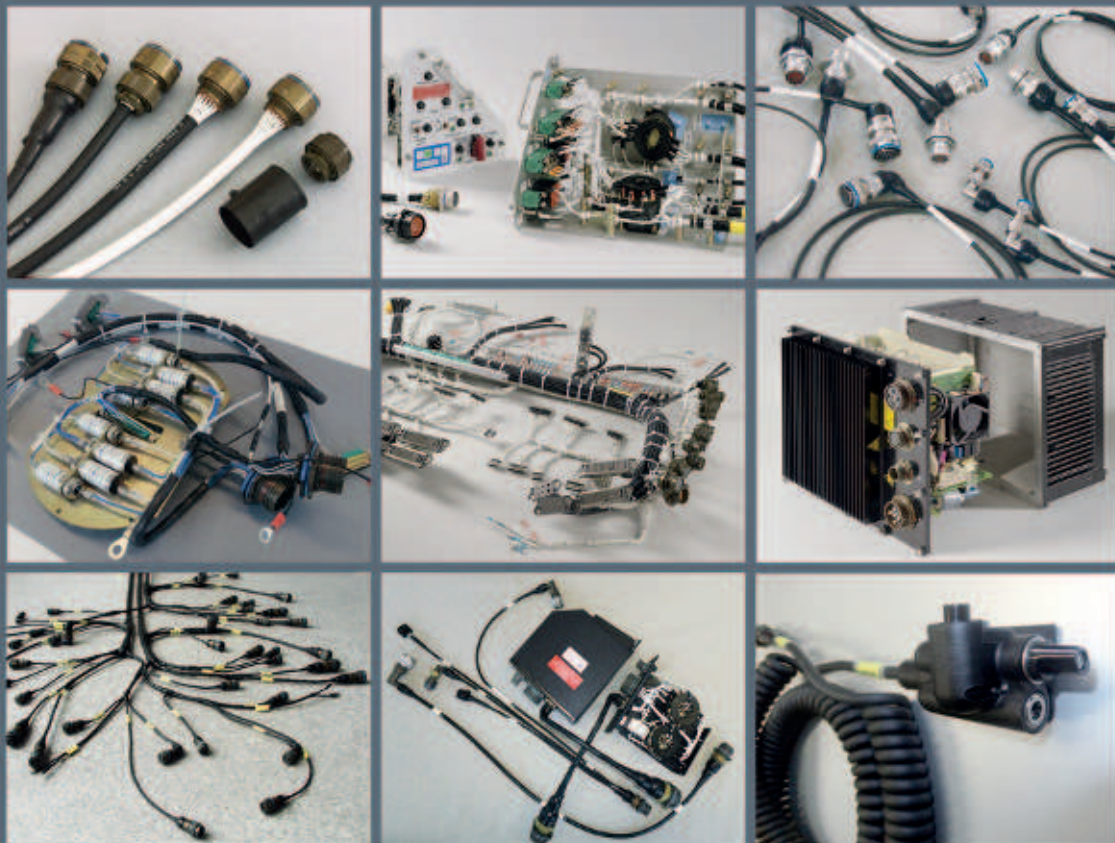
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