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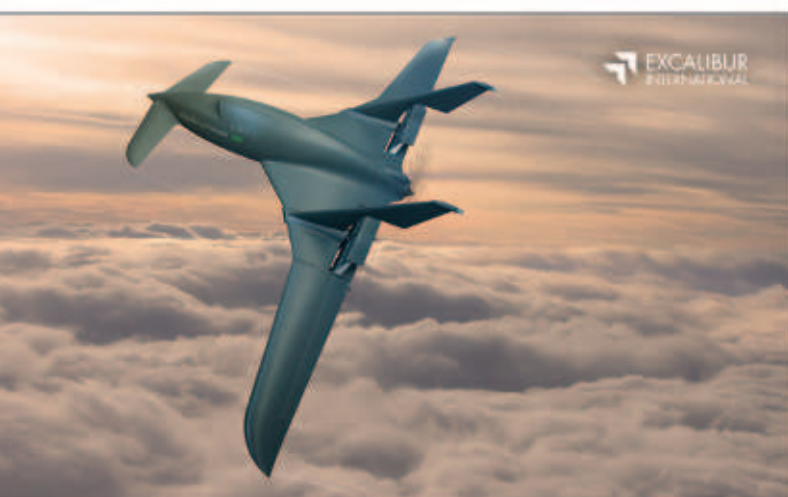


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TRADITION IS THE FUTURE

EDITORIAL

Dear readers,

This Review issue has traditionally been prepared with the view of the NATO Days and the Czech Air Force Days event held on 16 - 17 September in Ostrava, as the MS Line publishing house is a media partner. Since this year, the spectacular event has acquired the AERO Vodochody AERO-SPACE a.s. company, the leading and largest aerospace company in the Czech Republic, for the period of three years. Other companies of no less importance who will present their products at the show as well as other not participating in it are going to introduce you to their products and many interesting new items that were available to see at the largest international fair of defence and security

technology in the Czech Republic in this year named IDET held together with the concurrent PYROS and ISET exhibitions. We have been the main media partner for the Czech Republic to this fair for several years and in cooperation with the international journalist jury awarded the best exhibits of IDET NEWS. The IDET NEWS award ceremony along with GOLDEN IDET took place in the Austerlitz chateau attended by numerous significant guests. Find the resume and feedbacks in pages 34-37.

The Review also contains a summary of the Czech Defence and Security Industry Association activities in the past period and an interview with its many-year president RNDr. Jiří Hynek. On behalf of the entire editorial board, we would like to wish him lot of success in his presidential election campaign.

Šárka Cook, Editor in Chief



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JIŘÍ HYNEK: We are those who must take Responsibility for our Security. But Conceptually

What direction has the Czech defence industry taken? What are the prospects of the common European solution of the security crisis? Why do we need to restart military training and what challenges should we face conceptually as soon as possible? RNDr. Jiří Hynek, the Czech Defence and Security Industry Association president and executive director, gives the answers to the questions.



The Defence and Security Industry Association celebrates 20th anniversary of its origin in this year. How has the defence and security industry transformed during the 20 years?

The defence and security industry experienced huge divergences. The armament industry has always had excellent tradition in the Czech land. The Habsburg monarchy was supplied in a large extent with weapons of Czech production, between the wars we were the third largest arms exporter. During the socialist era, we were under a strong soviet influence but despite we were among the few who were able to maintain our own research and development capacities. At the time that all Warsaw Pact countries had fielded the soviet Kalashnikov AK 47, we developed and fielded the better Sa Mk 58 assault rifle. However right after the velvet revolution the defence industry suffered another strike of the coming wave of idyllic pacifism when and armament collocation belonged to the taboo vocabulary. Thus, the defence and security industry was suppressed to the minimum, while a number of companies either closed their production or moved abroad. In spite of then politicians' disfavour, we managed to maintain the key abilities in military production, including research and development. Now, the situation is opposite with fast growth rising. Since 2011, with the companies beginning to shake off the world financial crisis consequences, in reaction to the worsening security situation in Europe and in the world, the export has substantially increased. The annual growth of military goods by a fourth or more means a rocket boost. Looking back at the 20 years of our association history, the military goods export has grown ten times. In addition, the rhetoric has been

changing too, understanding the defence industry as being strategic and needed. All of that shows a big progress has been done.

It is indeed advantageous for our defence industry.

Yes, but the companies face different challenges. With respect to the growing demand, the companies have to increase the capacity, which seems to be a big challenge. The Czech Republic unemployment rate is now at the historical low, reaching 2.9 per cent in June 2017, ranking third lowest in the world and the lowest in Europe. It is not good for well-running economy. The companies face challenges in recruiting new employees and people less value their jobs. The situation is even worse in the industry sphere due to the lack of engineering-oriented employees. Technical secondary schools have become the last on the young Czechs' list when choosing schools and thus we are losing experience dying with the elder generation.

Is there any solution?

If left uncontrolled to the market, the situation will get into the phase in which the companies will be unable to meet the demands and the customers will replace the Czech producers for the more reliable, more flexible, and with a better production capacity. The companies will start laying off, the unemployment rate will rise and it will be necessary to begin working on recovery. It is the economic cycle. The point is that if you begin to stagnate in an industry you lack in technology progress, which is difficult to make up. Therefore, countries with also a very low unemployment rate, such as Germany, solve the capacity growth requirements through naïve recruitment of foreign employees. However, that brings enormous security risks as the situation can get out of control, especially if the new labour is of different religion and sticks to their habits that are inconvenient or even hateful to the European cultural environment. The ideal solution is that of a long-term nature, not of an immediate key, but may prevent similar situations in future. It is necessary to support



families for more children to be born forming new labour force. At the same time, it is necessary for the industry to improve the attractiveness to engineering fields, it is necessary to convince the young that engineering education is a great prospect for future employment. Moreover, if we decide to support the capacities through recruiting the employees from abroad, you should have a hand on it. We must have the right to choose the country of migrants' origin, to choose particular persons, to check them up. Only the individual policy may limit the security threats and support the Czech economic growth, too.

Is this the reason for your decision to enter politics?

Also. Not only. Contemporary Europe is found out in a tragic situation. Even though we grow up economically, from the security point of view the European leaders have made on our behalf numerous unfortunate decisions for which our children will pay for. Europe is a continent who has lost the concept and turned penetrable for every risky phenomenon. The society is divided, because the ill-conceived integration has brought us more likely to disintegration tendencies. Remaining united is no more our wish or choice but a must. In addition, we do not realize even that either and rather than a team work we demonstrate the inability of coordination. Moreover, we score own goals. At the time that needs actions we just talk of what is necessary to do. Are we able to solve together the situation anyway? I am very sceptic concerning EU. In my opinion, the very interesting original idea has twisted completely. The economic cooperation has changed to a political dictate. Moreover, various directives and regulations begin to abate our economy instead of boosting it. In addition, we, the Czechs, are of too little worth to change anything. We are easy to outvote or to say being undermining the issue as usual. Nevertheless, it is good we are not submissive



even to a colossus like the EU. It shows that our national pride is still there and the common sense wins even if the other are blindfolded. And we are able to arrange many things by ourselves, such as security, in my opinion. But it needs a clear concept should be set and this is what we, the Realistic Party, offer.

What is the concept lies in?

The main pillar is basic military training. The abolition of conscript system was foolish. Along with losing our capacity in case of a conflict, the young lose their relation to the home country. They have no more the sense of being responsible for the country, of the duty to back it if necessary. On the other hand, the military service as practiced in the past was far from the most fortunate option. It was long, inefficient, often boring for





the boys in the barracks providing thus a chance for bullying, and all of that was very costly for the government. Our solution offers a three-month basic training obligatory for males and voluntary for females. Because of its duration, they may take it in the summer right after completing the secondary school, which would be less time demanding. Within the training framework, they would be able to understand the essentials of crisis security, to learn shooting, or get the driving licence. Later they may continue in the follow-up training or may enlist to the volunteer reserve corps. However, all of them will have the basis, and thus we will be able to bring up a more capable generation who would acquire at least the essentials of defence abilities.

Do you think it will be sufficient with respect to the future?

Of course not, but we have to begin with something. It is a con-

cept that works well abroad in that form or another. We have to test it and we will see how to continue. Anyway, it is a necessary basis inevitable for us. However, it is not all. In addition, we have to improve the capacity of military equipment, we have to increase the defence budget to the level of at least 2 per cent of GDP which is the level we should have met according to the NATO membership. Czech companies must get support, along with abroad with export potential, mainly at home ground. Legislation should be a supporting tool, not the tool undermining the effort and putting the Czech companies at a disadvantage in comparison to foreign ones. Bureaucracy must be systematic and as least costly as possible. We have to support research and development, not in words but mainly in funds. If the negotiations start at multiple directions, there will be a big potential for improving the Czech national defence capability and for restoring of the prestige of the Czech companies and the world significance of the Czech defence industry.

Is your Czech presidential election run supposed to help it?

Definitely. I am convinced that a role of the most important the Czech president plays must be promoting the Czech industry abroad and supporting the export that is fundamental for the Czech economy. With the potential the Czech companies have, these may be able to compete at many international markets. They often need only a slight prod, need political accompaniment, need meeting the right people, and then they can cope with it. If I were elected the Czech president, the key areas of my interest would include the support of the export and forming the trademark of the Czech industry.

www.aobp.cz

Pilotless Aircrafts and there Application in State Administration, Military Services and Joint Rescue Services

Professionals and state administration are well informed about the power which drones (small pilotless aircrafts) have. Everybody realize that taking pictures from drones, documentation, monitoring, making models in 3D etc. is getting easier. In many cases this is the only option how we can realize this type of recording. Recording can be taken by many types of spectrum. Drones can have plenty types of sensors which can be programmed. They have single purpose but they also work as a carrier.

Private companies are much further in application those equipment than state administration. The reason is quite understandable. State administration has more complicated structure than private companies. The best example can be the army. It is not so easy to link new technologies and new people with specific structure which is already organized. The people must pass training courses and the system itself must be perfectly prepared to accept and adapt new information.

In the course of time, our company brings pilotless aircrafts especially into companies whose organization is not so complicated. For example universities, research institutes, regional and municipal authorities but also special forces of police and firemen.

By saying brings we mean a whole process. The customer gets the equipment after some consultations. He can pass training curse for better manipulation with the drone. If the customers wants to get the certificate of professional pilot (the certificate for pursue aircraft operations) he can pass our pilot school. We do complete



documentation for him with operation manual which is indispensable.

After that, the customers can take advantage of complete service which we can offer them including substitute devices in case of unexpected events.

The obstacle for application of pilotless aircrafts used to be technical difficulty. We can say that the devices were not adapted for customers.

In these days, drones are more sophisticated. The company DJI has invented

new industrial drone DJI MATRICE 210 which is meant for effective work. The drone is capable of carrying 3 cameras. The first one is meant for view of pilot. The second one could be with thermo vision. One camera can be handled upward. This arrangement is perfect for e.g. inspection of bridge constructions. This drone is capable of doing its work in extreme weather conditions. It can resist water and higher magnetic influences.

All these things may seem very idyllic. However, the reality is different. The legislation in the Czech Republic is very strict. On the other hand, we can be glad for that. This is a tool how we can reduce the operation for better safety. Unfortunately, the professionals need more space for their work. The technology is getting better and the risk of technical problems is getting lower. It is understandable that other risks stay in here, however the customers and state administration are trying to work with them. Even if the technology is trying to eliminate the risks, there is one thing which decides a lot. It is a human factor. The pilots must be more educated.

Other spheres of human activities are the same... the perfection of technology is getting ahead of us.

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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.



ing 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 Stropnick , and subsequently at the IDET 2017 International Trade Fair of Defence and Security Technologies. 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 by Rokycany and at the Hranice Games at General Zahradka Barracks in Hranice.

The company also organised a presentation for professionals and the press. Reporters and representatives of

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 train-

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 Královské Pole in August and Tank Day in Lečany 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.

Photo Miloš Soukup and VOP CZ
www.vop.cz



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.



CZECHOSLOVAK GROUP and TATRA TRUCKS - Tradition and Future of the Czech Defence Industry Capabilities

CZECHOSLOVAK GROUP (CSG) is a holding that builds on the tradition of Czechoslovak industry, supporting and further developing activities of Czech and Slovak companies in the field of defence and commercial industrial production. Its portfolio includes production and sales of specialized vehicles, off road trucks, weapons and weapon systems, ammunition, machinery products for automotive, railway and aerospace industry, brake systems for railed vehicles, as well as road transport and logistics. Products made by the companies of the holding can be seen on all continents and the number of customers is growing steadily. The group puts a great emphasis on the quality of its products and services, as well as export activities.

TATRA TRUCKS

TATRA TRUCKS is the world's oldest automotive company with a tradition of manufacturing vehicles reaching back more than 165 years. TATRA all-wheel drive vehicles with a unique chassis, which is based on a backbone tube and independent swinging half axles made in configurations ranging from 4x4 to 16x16, are the key element in the equipment of the Army of the Czech Republic while also being used by armed forces all around the world. Eighty per cent of the production of the company are exported and aside from standard model ranges, customized trucks are also tailor-made for customers.

TATRA FORCE is a key product in the defence segment, equipped with the TATRA unique chassis, complete with an air cooled

eight-cylinder engine made in versions from Euro 3 to Euro 5 and with a TATRA gearbox (either a direct shift model, or with a TATRA-Norgren electronic shifting system). Liquid cooled engines and gearboxes by renowned manufactures Cummins and Caterpillar are also available. TATRA FORCE line has recently been enhanced, introducing modernized, so called soft cabins, while also offering new armoured cabins with enhanced ballistic and antimine protection according to NATO standards STANAG 4569 level 2a/2b. It is also possible to increase protection up to level 3a/3b. The new armoured cabins are made in two-door or four-door versions for crew 1 + 2 or 1 + 4.

Another major defence product is the TATRA TACTIC range with a standard ladder frame in combination with special portal axles



TATRA RIGID. The vehicles are made in 6x6 configurations with regular or armoured cabins and further extensions can be custom ordered.

Cooperating with the holding **CZECHOSLOVAK GROUP**, **TATRA TRUCKS** is now offering modernization of the wheeled howitzer **DANA vz. 77** to the **DANA M1 M** and **M2** standard, which brings higher durability and better ergonomics and overall working conditions for the crew, better dynamic properties thanks to an improved engine and transmissions, as well as an improved gun range, which is now 25.5 km. A new ballistics computer and an electronic fire control system ensure a higher fire accuracy and efficiency. These products can also be integrated into digital control and command systems (C4I systems). The self-propelled howitzers **DANA M1 M** and **M2** are currently the only tried and tested modernization of this type and the Army of the Czech Republic has recently chosen **M2** version to modernize howitzers in its arsenal.

In cooperation with the French company **NEXTER SYSTEM**, **TATRA TRUCKS** has developed a new armoured vehicle of the **MRAP** category named **TITUS**, which is unique in its combination of high durability and exceptional properties in rough terrain. **TITUS** can be used in diverse types of missions from combat to security, all the way to police missions protecting property and population. The key feature of this vehicle is its unmatched modularity based on sets of tactical equipment, sets that correspond to the operation environment and a wide range of versions and configurations of the vehicle including **IFV**, ambulance, command vehicle, self-propelled mortar and maintenance vehicle. The Czech Army has recently decided to purchase 62 **TITUS** vehicles in command, communications and coordination of firing support versions. The army also intends to get further tens to hundreds **TITUS** vehicles in other versions. **TATRA TRUCKS** also supplies **NEXTER** with chassis for self-propelled howitzers **CAESAR**, newly chosen by the Danish army to become part of its armament. **TATRA** also continues to supply the Army of the Czech Republic with its vehicles. Towards the end of 2016 **TATRA TRUCKS** delivered twenty-six **TACTIC** vehicles to the army, in March and June 2017 eighteen and forty-one **FORCE** units, and further tens of vehicles are to be supplied this year. **TATRA TRUCKS** also supplies chassis for military vehicles made by the Brazilian company **AVIBRAS**. Last year, **TATRA** made more than two hundred **FORCE** chassis in 4x4 and 8x8 versions for customers in Jordan and Egypt. The cooperation with Indian partners and the state company **BEML** continues successfully. Moreover, in 2014 new production facilities were established in Saudi Arabia to manufacture **TACTIC** vehicles.

TATRA DEFENCE VEHICLE

The company **TATRA DEFENCE VEHICLE (TDV)** specializes in manufacturing, overhauls and modernizations of armoured vehicles and specialized vehicles for both domestic and foreign customers, e.g. the **Pandur II**, tanks or **Land Rover Defender** vehicles. The company is going to cooperate with **TATRA TRUCKS** on manufacturing of the **TITUS** armoured vehicle. At the beginning of 2017, **TDV** was chosen by the Czech Army to manufacture twenty new **Pandur II CZ** vehicles in two versions - a command vehicle and a mobile communications vehicle. Six mobile command posts will also be included in the delivery. Since 2017, **TDV** also provides all-embracing service and technical support for Czech Army's **Pandur II** vehicles and offers a mortar carrier vehicle 120 mm **ShM Pandur II 8x8 CZ**.

EXCALIBUR ARMY

EXCALIBUR ARMY is a leading Czech producer and



seller of heavy military land vehicles, spare parts, weapons, ammunition and other military equipment. It focuses on research and development, production, maintenance, repairs, overhauls and modernization including key upgrades of military technology, especially tracked and wheeled military vehicles. The company runs several manufacturing and storage facilities in the Czech Republic and Slovakia. Its major projects include the rocket launchers **RM-70 Vampire** and **BM-21MT 4x4**, the **AM-50 EX** bridge layer, modernization programs of IFVs such as the **Šakal**, or tanks such as the **T-72 Scarab**.

The multiple rocket launcher **RM-70 Vampire** with the tried and tested launching system **GRAD 122 mm** is designed to perform concentrated fire to eradicate live combat force or armament. **Vampire** utilizes the brand-new chassis platform **TATRA FORCE** and is equipped with an armoured four-seat cabin to accommodate the needed crew. It is also made in the version **Vampire 4D** with an extended five-seat armoured cabin. These new cabins provide protection from biological and chemical weapons. Additional ballistic and antimine protection can also be installed. The **RM-70 Vampire** multiple rocket launcher has already found its first customer, the Indonesian armed forces. The bridge layer **AM-50 EX** also utilizes the up-to-date **TATRA FORCE** chassis with exceptional mobility and rough terrain operability. A laying device is mounted on the chassis, capable of unloading a bridge, which meets load capacity requirements according to **MLC-50** and can bridge an obstacle with a length of 10-12.5 m and



a depth of 2-6 m. Up to eight bridge segment can be combined, thus achieving a length of 106 m and an overall width of 4.4 m.

KARBOX

KARBOX is a traditional Czech company with a tradition of more than fifty years in production of certified containers, box bodies and container bodies for trucks. The products are supplied complete with the inner structure tailored to the customer's needs, such as mobile kitchens, laundries, field hospitals, sanitary containers etc. The company is currently providing NATO military

camps with containers through the NSPA (NATO Support and Procurement Agency). KARBOX has also participated in supplying NATO with AGS mobile command station containers. KARBOX is also currently cooperating with ERA on the project Deployable Passive ESM Tracker (DPET) for the NATO program Air Command and Control System (ACCS). Finally, KARBOX also designs and produces expandable containers in 2in1 and 3in1 versions, which can be used as medical facilities, housing facilities, command and communications centres, offices etc. In cooperation with TATRA TRUCKS, KARBOX has also developed, manufactured and provided special fire vehicles on TATRA chassis for Czech Army.

EXCALIBUR INTERNATIONAL

EXCALIBUR INTERNATIONAL serves as an export agency, representing CSG on the international markets. The company has a broad network of contacts all around the world, thus promoting the export of Czech and Slovak products into foreign markets. The customers are offered comprehensive solutions, which include products by the companies from the CSG portfolio, as well as other trusted specialized manufacturers. The company's cooperation with its partners includes finding and arranging interesting business opportunities both within and outside the Czech Republic and Slovakia.

The portfolio of EXCALIBUR INTERNATIONAL also includes the UAV CANTAS. Three versions of CANTAS are offered for diverse types of missions - A (Advanced), E (Endurance) and S (Speed), designed and manufactured in the Czech Republic from the ground up. It is not only the design that is Czech, but also the propulsion units, the datalink communication system or the autopilot system etc. CANTAS is a multi-purpose UAV with vertical take-off and landing capabilities. Its unique design gives the vehicle a much wider range of operational speeds and flight manoeuvres than is common with conventional UAVs of this category. CANTAS can carry variable equipment and perform reconnaissance, surveillance and rescue missions. It can serve as a relay, monitoring and jamming device, a carrier of detection systems and sensors etc. CANTAS is equipped with a detachable nose container, into which various systems and sensors can be installed, including electro-optical devices, sensor sets and other special equipment or payloads.

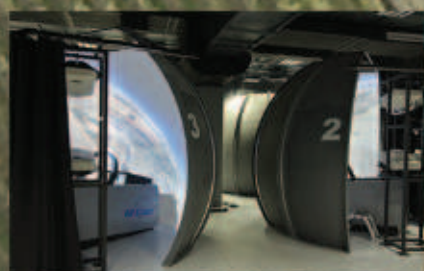
MSM GROUP

MSM GROUP, along with the company ZVS, focuses on the engineering industry and weaponry. Its portfolio covers the entire life cycle of ammunition, weapons, army vehicles, radio navigation systems and many other products from the defence industry, including related services. Aside from manufacturing, the group also focuses on development, design, subsequent maintenance, repairs or overhauls, as well as modernizations or transfers of specific technologies. Major products of the group include the IFV Corsac 8x8 or ZVS-branded handguns. The companies of MSM GROUP also manufacture specialized ISO containers, they develop and manufacture mobile DR systems, elements of ballistic protection systems, or power sources for military equipment. MSM GROUP also provides modernization and maintenance services for military vehicles of diverse types, as well as training of military and civil pilots, aviation maintenance services and commercial air transport through SLOVAK TRAINING ACADEMY.

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... and Arm Your Men

Česká zbrojovka Uherský Brod (CZUB) is a traditional producer of infantry small arms. Thanks to its supplies to armed forces on many continents, to participation in many tenders and to a continuous process of evaluation of the performance of its weapons CZUB collected a huge sum of a unique experience. As a member of a broader group producers and suppliers of infantry equipment and gear, it can offer a true complex solution for arming and equipping of modern infantryman. It is a system integrator.

CZUB can offer two large groups of weapons: the primary infantryman's weapon - an assault rifle and handguns - pistols. This is supported by individual ballistic protection - i.e. helmets, body armor and other gear (eg. pouches, uniforms, load bearing equipment etc). CZUB also has the capability to quickly develop missing specific equipment and add it into the system so that the client gets a solution enabling his men to show their best. The integrator provides the user with all information that he needs to utilize his weapons and gear in the most efficient way. CZUB can educate instructors and experts of all levels - from the basic rules of use for the line infantrymen up to the highly skilled specialists of centralized service and maintenance depots and arsenals. It can deliver necessary cutaways, models as well as proven training procedures.

CZUB also provides a support in case of the search of an optimal financing scheme, helps the client with negotiation with banks. As long as a client is using the CZUB products, the CZUB provides post-sales services, spare parts, special fixtures or upgrading and modernization sets. Being aware that human lives depend on their products CZUB acts respectively. When a client needs to arm his infantrymen, the company helps him to overcome all the obstacles. The client then only needs to appoint the right men.



Shoulder-Fired Weapons - Assault Rifle

The primary weapon of the modern infantryman is a fully automatic assault rifle designed to fire an intermediate ballistic performance cartridge. But armed forces include also a lot of specialists, e.g. drivers, radio operators, technicians for whom a full-scale assault rifle is far too powerful and large. They prefer something smaller and more compact. The same weapon

is usually sufficient also for law enforcement agencies and other out-of-a-frontline force. This smaller and handier weapon is a submachine gun.

The first famous weapon from CZUB was Samopal vz. 58 (vz. is an abbreviation of vzor = model) - the only non-Kalashnikov assault rifle in the whole Warsaw pact. Samopal vz. 58 was an excellent weapon but the production came to an end in the year 1983.

In 2010 the CZUB presented two new weapons - the assault rifle CZ 805 BREN and the submachine gun CZ SCORPION EVO 3. CZ 805 BREN has been adopted into service by Czech and by Slovak Armies, other law enforcement forces followed. The development of the assault went on. CZUB carefully collected experience and information from real-life use, trials and from tenders. In 2016 CZUB presented the second generation of the





assault rifle - CZ BREN 2. This is a traditionally milling-made weapon but also a modern concept of a modular weapon, easy to customize for a specific mission. The gun can be easily converted from the original caliber 5.56x45 mm NATO to an Eastern caliber 7.62x39 mm. We don't want to anticipate which of the two calibers is better. The user has to trust the gun, as his life rests on and therefore he chooses which caliber he wants. The BREN 2 is offered in two versions - a classic assault rifle with the 280 mm (11") barrel or a short carbine with the 207 mm (8") barrel. The action is locked by a rotating bolt powered by a short stroke piston. Charging of the weapon is by a cocking handle that remains static during the fire. The folding stock is also telescoping which enables length-of-pull adjustment. CZ BREN in the caliber 5.56x45 mm utilizes standard NATO magazines, same as used by weapons of the M16/M4 family (the magazine is proprietary in the 7.62x39 mm calibre caliber). Handling procedures are similar to M16/M4 family, all controls are fully ambidextrous, the cocking handle can be switched from left to right by the user during a field stripping. CZ BREN 2 is equipped with MIL-STD-1913 installation rails. The upper rail is dedicated to the sighting devices, the side and bottom rails are for the accessories. The accuracy of the CZ BREN 2 is sufficient to effectively engage the enemy at distances exceeding 300 meters, even with the short carbine version. The MIL-STD-1913 rail is standard and enables utilization of equipment already in use. Infantryman's striking power can be enhanced by an underslung 40 mm CZ 805 G1 grenade launcher. Standard magazines, proven handling regime and good ergonomics make the transition to the CZ BREN 2 easy. New CZ BREN 2 in 5.56x45 mm NATO caliber is already adopted by the Army of Czech Republic, in caliber 7.62x39 mm it will be in use with one of the most prestigious users - French special force unit GIGN (Groupe d'intervention de la Gendarmerie nationale).

Handguns

CZUB gained its fame by CZ 75 pistol - a real breakthrough of its time, with unique (and frequently imitated) design, excellent ergonomics and with a perfect trigger pull. This legend has its strong supporters even today. The youngest generation of this gun, CZ 75 B Omega (all steel full-size service pistol with 114 mm long barrel and 16 rounds magazine capacity) and CZ 75 P-01 compact version (with an aluminum alloy frame, 93 mm long barrel and 14 rounds in the magazine) are available today. Both pistols offer excellent trigger pull that made CZ 75s famous. The CZ 75 SP-01 pistol is a category of her own. It is a full steel service pistol with an MIL-STD-1913 rail under the dust cover, barrel long 114 mm and an 18-cartridge magazine. In 2016 the US Army for life magazine evaluated this gun as the best special forces handgun in the world. All metallic "seventy-fives" are made in 9x19 mm caliber. Metallic construction pistols have their strong sides and proponents but actual mainstream shifted to the plastic frame.

CZUB also offers models CZ P-07 and CZ P-09. These weapons have a traditional SA / DA mechanism with an external hammer.



They can be easily converted from a safety to decocking version. The polymer (stabilized by addition of glass fiber) framed CZ pistols has an exchangeable back strap in three sizes, to fit the grip to the physiology of the respective user. The CZ P-07 is a compact model with 95 mm barrel and 15 round magazine (using an extended magazine floor the magazine capacity can be expanded by 2 more rounds), the CZ P-09 is a full-scale service weapon with an 115 mm barrel and 19 rounds in the magazine. Both pistols are either in traditional matt black color or in Flat Dark Earth brown. The P-07 and P-09 pistols are offered in 9x19 mm or in 40 S&W calibers. For the P-07 pistol are also available .22 LR caliber conversion kits P-07 Kadet. The pistols can also be obtained in FX Simunition version for a simulation, using the paint marking ammo for a highly realistic, yet completely safe tactical training of small units and individuals.

Actual armed forces more and more often require striker fired pistols with pre-cocked firing pins and polymer frames. The first successful weapon of this kind was the Glock already in the 1980s. Glocks became a legend and an etalon to which all its successors and competitors were compared. Large armed forces simply fell in love with the concept of striker fired pistol. It is intuitive for use and simple to maintain. Often the soldiers are not big fans of shooting, especially of handgun shooting. Still, they have to safely master it. By simplicity of operation, the striker fired pistols are similar to a revolver. Practically every serious handgun producer has some striker fired pistol in its portfolio. CZUB offers pistol CZ P-10 C, a compact striker fired pistol with a 102 mm barrel and a 15 round magazine. The frame of P-10 C is made from the similar material as are P-07 and P-09 pistols. The grip also has exchangeable backstraps. CZ P-10 C has no manual safeties, only automatic ones (a trigger safety; firing pin block; the pistol cannot be fired unless the slide reached full forward position - battery and the action are positively locked). The pistol has completely new, patented trigger and firing mechanism which provides an excellent trigger pull comparable with the best breed of single action service pistols. The perfected trigger rests in the ergonomic grip, that places the barrel axis low above the shooting hand. This way the gun's recoil is perfectly controllable and tamed. Excellent ergonomics and fully ambidextrous controls increase the combat value of this pistol. Orange magazine follower, easy to see when checking the gun clear is an evidence that the CZUB completely changed everything when designing this weapon. The P-10 C can be either in Matt Black or in the Flat Dark Earth Brown. A strong argument is the durability of this gun. The P-10 C tests proven the basic life of small components longer than 30 000 rounds, the barrel and frame life exceeds 50 000 rounds. This far exceeds requirements which US Armed Forces asked for in the new service pistol program. For all its pistols CZUB offers matching holsters, additional magazines and special accessories like tritium (low light condition) sights, electric torches or laser pointers.

Martin Helebrant
www.czub.cz

Established in 1995

The Koutný spol. s.r.o. Company is a successful family business with a Czech capital only. In the manner of brands from the early 1920's such as Rolný and Nehera, we specialize in traditional men's clothing. We focus on high-quality suits, jackets, trousers and tuxedos.

Koutny specializes in the manufacturing of professional clothing for government departments and state administration institutions, which require high quality supplied products. Our uniforms and occupational clothing include all types of gentlemen's and ladies' garments such as suits, jackets, trousers, skirts, waistcoats, sports jackets, overalls, special combat clothing, etc. In addition, we are well known for the traditional manufacturing of classic men's clothing and made to measure. Our staff carries on the proud traditions of tailors whose fine craft in Prostějov, Czech Republic, dates back to the 16th century. We pride ourselves in the manufacturing of garments of the highest quality, made in small or large series.

To best serve our diverse clients who prefer high-grade materials, delivery speed and an individual approach, we systematically develop our ability to secure and react quickly to our clients' individual requirements and expectations. We maintain and further expand our position in the market by using new technologies, including latest garment manufacturing technologies, a systematic approach to innovation in cuts and materials used and development of partnerships with premier suppliers of materials.

Clients:

- * The Dutch Army
- * The Austrian Army
- * Army of the Czech Republic
- * Ministry of Defence of the Czech Republic
- * Police of the Czech Republic
- * Prison services of the Czech Republic



- * Customs Administration of the Czech Republic
- * Fire Brigades throughout the Czech Republic
- * Voluntary Fire Brigades
- * Prague Airport
- * Czech airlines
- * Private Aviation companies



We offer products for our customers allowing them to equip their employees completely with professional clothing for any season or climate. Our products are offered in a very extensive size assortment. We have also built a special measurement system for suits, jackets and trousers, enabling a wide scale of design and material variants if classical size assortment does not fit. In addition, our clients have the ability to place an individual order according to their specifications and requirements for any elements such as: cuts/design, colors, patterns, materials, special sizes, and tailor-made clothing.

Since the quality of the products is our main priority, it is necessary to use top quality, durable materials. These materials are known for their softness, pleasant touch, and resistance to wrinkling. For dress uniforms, processed materials are mainly from Italian, French and Spanish renowned companies, 100% wool or mixed with polyester, polyamide, elastan and lycra. 100% wool materials are most suitable for areas with subtropical and tropical climates.

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New Mobile Supply Systems for Immediate Use

Kärcher Futuretech provides innovative protection and supply systems “made in Germany” (presentation at the IDET International Fair of Defence and Security Technology, 31. 5 - 2. 6. 2017, Brno, Czech Republic).

Kärcher Futuretech, world-renowned specialist in protection and supply systems, based near Stuttgart in Germany, provides innovative Solutions in the area of CBRN protection, water supply, mobile catering, and field camp systems. Here, the Kärcher Futuretech name represents high “made in Germany” quality, more than 30 years of experience all over the world and an extensive range of services. At IDET (31. 5 - 2. 6. 2017) in Brno, Kärcher Futuretech was presenting the following innovations:

CBRN: “One-for-all” MPDS 2 Decontamination system

The MPDS 2 is an independent, universally applicable system for the complete decontamination of vehicles, material, and personnel. Equipped with three lances, the MPDS 2 can carry out the three obligatory phases of decontamination pre-, main-, and post-treatment in parallel. In comparison with normal system modules, which have two lances at most, this means a significant saving in time and logistics effort. Thanks to an integrated power generator, a pump for discharge of non-aqueous decontamination agents, and a supplied set of decontamination and cleaning agents from Kärcher Futuretech, the MPDS 2 is ready for immediate use anywhere.



MPDS 2



WTC 500 RO 2

Its compact design, ease of operation, and compatibility with accessories and decontamination agents from other manufacturers make the MPDS 2 the most advanced system of its kind at present.

Water supply: WTC 500 RO 2

The WTC 500 RO 2 water treatment system is the perfect companion if it is unclear before deployment whether fresh, salt, or chemically impure natural water is to be treated. On the basis of reverse osmosis, even invisible chemical impurities are removed, including salts dissolved in the water. If the untreated water source is in difficult terrain, the equipment can be carried to the deployment location by personnel, using the integrated carrying handles. The components which come into contact with drinking water were selected in compliance with internationally recognised regulations, and make possible the generation of drinking water which fulfils WHO (World Health Organization) and other regulations.

www.karcher-futuretech.com

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Mobile Field Kitchen PK4 (Kaga) is Awarded the Golden IDET

At this year's International Trade Fair of Defence and Security Technologies IDET in Brno, the company Agados presented, among other things, a newcomer - a mobile field kitchen PK4 (Kaga). The launch ceremony of the new type of field kitchen was held at the Brno Fair with the participation of Defence Minister Martin Stropnický, representatives of Agados, professional public and visitors to the fair. At the fair it was awarded the Golden IDET.

Evolution in the world of field kitchens

The main motivation for making the mobile field kitchen PK 4 (Kaga) was the fact that the last product of this kind has been in operation for 60 years. The old field kitchen PK 60 has been used up until now by the Czech Army and by the integrated rescue system. Thus, we needed to develop a new field kitchen, which meets all current requirements. PK 4 offers easy handling and enabling for operation. It is mobile, flexible, made of high quality materials and has passed terrain tests successfully.

PK 4 was developed by Czech company Agados, which specializes in development and manufacturing of trailers. The company has experience with deliveries for foreign armies as well (Qatar, Sweden). It has 25 years of experience on the market.

Advantages

- Chassis allows redeployment of PK4 in difficult terrain
- Fast and simple preparation of PK 4
- Usage of modules on the trailer and also set up separately
- Modular design for flexible application and wide meal preparation versatility

General description

With its modular structure, the PK4 is a trailer cooking system capable of adjustment to the cooking habits of any user group in field operation. The special feature of the PK 4 are four free places on the off-road single-axis trailer can be freely configured

to individual requirements. The system can be ready for operation within 30 minutes and depending on the equipment configuration, the PK 4 system is suitable for cooking a complete menu for up to 350 people. For rescue operations, depending on the equipment configuration up to 900 persons can be served a simple meal. All the cooking modules of PK 4 are made of high grade, stainless steel and they meet the highest hygienic requirements. The rounded corners of the cooking module and their seamless design permit convenient cleaning using a minimum of time and detergents in compliance with the HACCP-concept (Hazard analysis and critical control points). The PK 4 can be used with different burners, e.g. pressure, atomization and a gas or solid fuel burner. All of them designed by Karcher Futuretech.

Modules overview

1. Frying - Baking Module 25 L / 78 L
2. Pressure-Cooking Module 125 L, double walled
3. Cooking module 125 L, double walled
4. Convection oven

Possibilities of modules extension

5. Frying module 70 L
6. Stowage Module
7. Refrigerator module 400 L
8. Deep -Freezing Module 400L

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Are You Ready for the European Regulation GDPR?

The platform KYBEZ brings an overview for you of the most important issues of the new European regulation on personal data protection, abbreviated GDPR. In our contribution, you will get the information concerning the changes that this regulation will introduce, what all falls under personal data, the duties imposed by GDPR on organizations, the information concerning Data Protection Officer, abbreviated DPO, the fines that may be imposed in case of a non-compliance, and last but not least, we will inform you about the services that we offer in relation to GDPR.



What is GDPR?

A general regulation on protection of personal data (in English General Data Protection Regulation or GDPR) is a new revolutionary EU legislation that will significantly increase protection of citizens' personal data.

GDPR is so far the most coherent set of rules for data protection in the world.

The Regulation was adopted in 2016 and will take effect on May 25, 2018. It is introducing the biggest revolution in the protection of personal data with the objective to defend the rights of EU citizens against the unlawful use of their personal information and data. GDPR concerns all entities processing personal data.

The intention was to provide citizens with a better control over the way in which their personal data is used and what is happening with it. For this reason, GDPR even introduces astronomical fines for a violation of the rules stipulated by the European Regulation. It also requires from the biggest data processors to establish an independent control position, so called DPO (Data Protection Officer, i.e. representative for personal data protection). His task is to supervise the due use of personal data and to notify the control authority of a respective state of a data leakage and violation of the Regulation.

Application of the Regulation in the territory of the Czech Republic

The European Regulation covers all business segments where personal data is processed. It may concern the data of: employees,

suppliers, clients, and other entities. The aim of GDPR is to protect the digital rights of EU citizens.

GDPR will come into force in the whole EU on May 25, 2018. In the Czech Republic, it will in this way replace the current legal regulation of personal data protection as stipulated by the Directive 95/46/EC and related Act No. 101/2000 Coll., on personal data protection.

The fact that GDPR was adopted in the form of European Regulation prevents the government and state legislators to distort or adjust this regulation within one state.

The period from April 2016 till May 2018 is reserved for preparation to the application of the Regulation. During this period of time, all organizations that GDPR concerns have to revise their information systems and procedures of personal data processing.

The Office for Personal Data Protection (ÚOOÚ) continues staying the regulator for the Czech Republic. However, it will be partially subordinated to the European Data Protection Board (EDPB). If there is any deviation of the Czech regulator found, it is possible to lodge appeal at EDPB.

What changes will GDPR introduce?

It will clearly introduce enforceability of the law in the whole EU and a much closer cooperation of surveillance authorities of the individual states.

GDPR introduces a number of new rules. The main factor is that both administrator and processor will have the duty to document, in a provable way, compliance with GDPR for the whole period of data processing.

Certain introduced rules are already known from the previous legal regulations. However, the Regulation introduces also new duties, inter alia, for the data processors who have been until recently covered by the entity of data administrator.

GDPR assigns new rights to the people owning the data (they are called data entities). In addition to the fact that they will have to be thoroughly informed about their rights, they will be entitled to request from their data administrators something that they have not been able to request till now. It concerns, for example, the right to raise objection against processing when the administrator, after the objection is raised, will not be able to continue processing the data, unless he has serious, provable reasons for it; or the right of transferability of personal data from one administrator to another if the data is processed in the automated way. In this case, the applicant should obtain his/her personal data in a structured, machine-readable format.

Under the ideal circumstances, everybody should have access to the data that is collected about him/her, directly and online as best. So called right of deletion and its extension to the right to be forgotten is a new element.

With GDPR, also the definition of personal data is extended. Also the technical parameters such as e-mail, IP address, or so called cookies in the user's device newly fall under this term. The category of so called genetic and biometric data whose processing will be subject to a stricter procedure is newly introduced.

The duty to notify in the event of a leakage or disturbance of personal data safety seems to be the biggest concern. In this situation, the entity is entitled to inform ÚOOÚ about the event within 72 hours. In certain situations, it will be necessary to inform about the incident also the persons (entities) who (that) the leakage concerns of.

What is personal data in accordance with GDPR?

The following data falls under the category general personal data: name, sex, age and date of birth, marital status, but also IP address and photographic record. With regard to the fact that GDPR covers also natural persons doing business, we include in personal data also so called organizational data that is, for example, e-mail address, phone number, or various identification data issued by the state.

GDPR deals also with special categories, namely, for example: the data on racial or ethnical origin, political opinions, religious or philosophic denomination, membership in trade union, data on health state, sexual orientation and criminal delicts or final and conclusive convictions. The category of sensitive data of the Regulation newly includes genetic, biometric data, and personal data of children. They are then subject to much stricter rules.

What duties are imposed by GDPR on organizations?

The Regulation newly introduces the principle of so called responsibility consisting of the duty of data administrators and processors, with no regard to their size and number of employees, to introduce technical, organizational, and procedural measures to prove conformity with the principles of GDPR.

The principle means time and financial investments of a not insignificant volume. They will especially concern the following areas:

- Implementation of the intentional and necessary data protection
- Preparation of assessment of the impact on personal data protection, in English DPIA (Data Protection Impact Assessment)
- Appointment of a representative responsible for personal data protection, abbreviated DPO (Data Protection Officer)
- Introduction of so called pseudonymization of personal data
- Keeping records on processing activities
- Consulting with the surveillance authority prior processing of personal data itself

The companies or institutions will have to prepare DPIA if they conduct a systematic and large personal data evaluation that is based on the automated processing, including profiling.

Pseudonymization is processing of personal data in the way that it cannot be assigned to a specific person without the use of additional information that is kept separately and protected against a repeated assignment to the original data.

The other administrative principles include the duties of processors and administrators to keep records on processing activities for which they are responsible. They will be obliged to cooperate with the surveillance authority and to make access to this information per its request.

The exceptions from the duty to keep records on processing activities are possible for the organization with less than 250 employees if processing of personal data does not represent their main activity, the risk for the rights and freedom of persons does not exist for them, and these organization do not process sensitive data.

DPO (Data Protection Officer)

Appointment of Data Protection Officer (hereinafter referred to as DPO) represents the important pillar of conformity with GDPR.

The main activity of DPO is to monitor processing of personal data with the duties resulting from the Regulation, training of employees, audit services, and overall agenda management for internal data protection.

When DPO has to be appointed:

1. Processing is conducted by a public authority or public entity (except for the courts)

2. The main activities of the administrator or processor consist of the operations of processing requesting a large regular and systematic monitoring of citizens
3. The main activities of the administrator or processor consist of a large processing of special categories of data or personal data concerning the judgments in criminal matters and criminal acts

In accordance with the information resulting from the Regulation, it is possible to appoint Data Protection Officer also for several organizations having a similar organizational structure. DPO is obliged to keep the secret or confidentiality in accordance with the law of the Union or Member States.

Data Protection Officers are not personally liable for a non-compliance with GDPR. The Regulation clearly stipulates that it is the administrators or processors who have to ensure that processing is conducted in accordance with GDPR. Legal conformity in the area of data protection is the responsibility of administrator or processor. Absence of the conflict of interests closely relates to the requirement of independent acting. Despite the fact that Data Protection Officers may also discharge other positions, they may be entrusted only the tasks and duties not establishing a conflict of interests.

What fines may be imposed in the event of a non-compliance with GDPR?

In the event the organization does not follow and does not prepare for the application of the new European Regulation, it is exposed to relatively high, in certain case even liquidation sanctions.

A maximum amount of the fine is set at EUR 20 000 000 or 4 % of company total annual turnover (the higher amount is collected). However, various factors will be evaluated, such as: gravity, nature, duration of violation, number of the injured entities, the steps taken to rectify the situation, and other.

In addition to imposition of these administrative fines, the administrators or processors of personal data may be subject to actions filed by natural persons claiming damages in the event of a physical or immaterial damage.



In the area of GDPR, we are ready to offer our several professional services

They include the offer of professional consultations dealing with GDPR issue. In that case, a general mapping of your organization will be conducted and the representatives responsible for this activity will be trained.

Preparation of the analysis of the state of readiness for GDPR is already a more comprehensive process when the organization is procedurally mapped with regard to personal data processing, assessment and evaluation of the risks for the data entity as well as for the administrator. The area of corrective measures will be prepared within the final report, resulting from the individual risks, while also the recommendations for the next implementations will be made.

Last but not least, it is possible to receive training in this area from the point of view of administrator, processor, as well as from the point of view of data entity. You will be trained by an experience lecturer who has been active in the area of personal data protection for a number of years already.



Dipl. Eng. Vojtěch Hvězda, Manager, KYBEZ Platform

Mobile Monitoring Vehicle Allows Connection to City Surveillance System



EVPÚ Defence a.s. made a monitoring vehicle for the Municipal Police in Zlín, that required a possibility of connecting the vehicle to city video surveillance system.

Monitoring vehicles are designed for monitoring and surveillance of areas of interest such as boundary lines, airports, oil refineries, power plants, coastal areas and other areas with increased demands for flexible protection during both day and night time. Using highly sensitive IR cameras, daytime HD cameras, laser rangefinders, GPS and digital magnetic compasses they allow to increase security of the monitored area against a penetration by intruders even in adverse weather conditions up to 20 km range (according to a selected configuration). Their main activities are detection, recognition and identification of persons and vehicles, capture their image, exact location, processing and electronic archiving of the image and possibility of the control and coordination of the other units at the same time. The systems are characterized by a modular and compact design and a low power consumption.

Our mobile monitoring system is ideal for police, army and other security forces usage, and as a key tool it allows members of the crisis staff, police officers and other members of the Integrated Rescue System to work directly on-site of events of interest such as sport events, football matches, car races, gatherings and

meetings of public etc. The entire system can be remotely controlled with the information transmitted to a control center. At the same time, it allows to display the images of the city surveillance system in the vehicle and thus enables the municipal police to coordinate a rapid response to any event in the area of interest effectively.

The monitoring device can be installed on any type of vehicle (passenger car, SUV, van) which has a sufficient space needed for installation. The basic outline of the vehicle remains unchanged even after complete modification. Installation is solved through the box body, where the special monitoring system is built-in, completed with thermal vision camera. Thanks to the telescopic system the monitoring can be performed from the height of 5,6 meters. The vehicle perimeter is guarded by a “fisheye” camera with IR illumination for possible usage during the night missions. The vehicle was displayed at IDET 2017 exhibition in Brno and the interest of domestic and foreign visitors showed that the vehicle was very successful. The most important thing for us is that the work of EVPÚ Defence team has been positively evaluated by the end user.

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Czech Ministry of Defence Receives New Airport Radars Made in the Czech Republic

The company ELDIS Pardubice, s.r.o. began the delivery of four sets of new airport radars intended for operation at military airfields. First set was installed during this summer at Pardubice airport.

ELDIS Pardubice is a leading Czech producer and manufacturer of active radar systems for air navigation and air traffic control. Based on the open tender, ELDIS is delivering four sets of

airport radars RPL-2000. Each of this sets consists of primary surveillance radar RL-2000, monopulse secondary radar MSSR-1 and precision approach radar PAR-E. All three radars are fully solid state and above that, the precision approach radar uses the system of active electronic scanning (AES), which allows to avoid any mechanically moving or rotating parts. "First delivered set is installed at the Pardubice airport and it has successfully passed the site acceptance tests and military tests, which are necessary for starting the regular operation," said Zbyněk Sirůček, CTO of ELDIS Pardubice.

The complete sets of radars shall ensure the operation of JAS-39 Gripen, L-159 ALCA, Mi-17 and Mi-24 helicopters and army transport planes at the airports in Čáslav, Náměšť upon Oslava, Pardubice and Praha-Kbely. It is possible to provide the radar information to the Czech civil ANS organisation.

The company ELDIS Pardubice has 26 years of experience with the radar technology and delivered its products to more than 25 countries worldwide. Main products are surveillance radars, precision approach radars and ATC radar display systems. For example, they have recently completed several other radar systems deliveries to the customers in Poland, India and Pakistan.

www.eldis.cz



Systems for Detecting, Localizing, Identifying and Eliminating Drones

The use of unmanned airborne vehicles is currently a hot topic. The technology has both pros and cons. On one hand, it provides a different view of the world, a bird's-eye view. On the other hand, its potential also poses a threat which can have fatal consequences. Therefore, it is necessary to monitor the trends in the development of the mentioned technologies as carefully as the trends in those technologies which can decrease the potential threats to the tolerable level and which can prevent their unlawful misuse. Detecting such a device in the space, where it can endanger civics fatally, requires a highly sophisticated technology. Aspects associated with such technologies present a challenge to any high-tech company.

Siemens has addressed the aspects of those systems and the threats they carry systematically over a long period. In cooperation with its technological partners, Siemens is currently launching a detection system on the Czech market, which allows for precise detecting, localizing, identifying and eliminating drones over distances of up to several kilometres. It is a radar-based detection system, which can detect flying objects with the size of 0.01 m² RCS in its monitored space over the distance of up to 3 km. Analysing the processed signal, it can precisely classify the type of the object as living or inanimate and identify it in the space unambiguously. With this information, the radar system enables evaluation of the detected object using quality electrical optical sensors, thanks to which the operator can check the type of the object visually.

The sensors literally interlock the object in the camera view and in the direction of its movement combining image analysis with a precise handler. Then, it is quite easy to rid the interlocked object of some of its key communication and operation channels, such as data communication or communication with GPS/GLONASS position systems. The system uses a set of direction aeriels for this purpose and it is able to remove the communication and operation channels from the flying object within the distance of up to 2 km. Thanks to company's long-term experience in security systems and other systems the company has already applied, products and services by Siemens are able to face the modern threats successfully.

Our products and solutions help to create an environment in which people can feel safe and comfortable so that they can live the lives they want. This is also the goal of the Perfect Places campaign by the Building Technologies division.

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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 specializing 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 July in Brno. 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 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.



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Sole representative of Volvo Group Governmental Sales, specifically brands Renault Trucks Defense, Panhard Defense and ACMAT Defense on Czech and Slovak markets.

Renault Trucks Defense is the leading international manufacturer of armored, tactical and logistical vehicles for the military and security forces. It is the official supplier of almost all trucks and a significant number of armored vehicles for the French Army. In addition, more than 30,000 Renault military vehicles are in operation worldwide.

The new range of vehicles, including the SHERPA LIGHT and VAB MARK3 models, is part of the highly mobile vehicles program SCORPION for the French Army.

Further growth of the company is built on the implementation of new technologies, significant investments into securing of vehicles operation support and the confidence of existing vehicle users and growing international cooperation.

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20th Annual International Conference “DISASTER MEDICINE”

Over the days of June 13th to 15th, 2017, the jubilee 20th annual international conference entitled “DISASTER MEDICINE” was held in Luhačovice, Czech Republic, under the patronage of the Governor of the Zlín Region, Mr. Jiří Čunek. Also assuming patronage over the conference were the Ministry of Health of the Czech Republic, the Ministry of Health of the Slovak Republic, the WHO office in the CR and the WHO office in the SR.



This international conference DISASTER MEDICINE has gained major international attention and recognition over its 20 years thanks to its unique concept, a fact proven by its exceptional level of international participation (over 40 % of attendees were from abroad). Attending the conference in Luhačovice were representatives from Armenia, Brazil, China, Croatia, France, Italy, Japan, Pakistan, Russia, Slovakia and Uzbekistan.

The main topic of the conference reacted to current problems stemming from the international situation, including the ever-growing threat of terrorism and consequent reaction

to the consequences of terrorist attacks, including those on so-called soft targets.

When confronting the consequences of a terrorist attack during pre-hospital care, the keys are synergy of all intervening components, establishment of type activities and the quality and speed of intervention during mass-casualty events when minutes are truly decisive in terms of health and saving lives. The fact that great attention is focusing on this topic in the Czech Republic is seen in the participation of high-level representatives of other ministries outside of medicine. The ceremonial opening of the conference was led by speakers: Governor of the Zlín Region and Senator Jiří Čunek, Deputy Defence Minister Dipl. Ing. Tomáš Kuchta, Deputy Health Minister prof. MUDr. Roman Prymula, CSc., Ph.D., Director of the Military Medical Agency of the ACR General MUDr. Zoltán Bubeník, President of the Defence and Security Industry Association of the Czech Republic RNDr. Jiří Hynek, Director at the Ministry of Foreign Affairs Marek Svoboda, Director at the Ministry of Industry and Trade Ing. Jaroslava Špalek, Vice-Dean of the Faculty of Logistics and Crisis Management of Tomas Bata University in Zlín Mgr. Marek Tomášek, Ph.D. and others.

The actual professional content of the conference 20 Years of Emergency Preparedness in Medicine with the subtitle Disaster Medicine - Preparedness for CBRN Threats was divided into four expert blocks:





1st BLOCK

20 Years of Emergency Preparedness in Medicine

This involved 11 presentations that assessed the 20-year period of holding the conference and 20 years of emergency preparedness of, inter alia, the healthcare systems of the CR and SR including public health protection. Also new challenges were addressed and highlighted biological risks, migration, terrorism, the CR national security audit, and consideration was given also to further advancement in emergency preparedness in medicine. This initial block featured 6 presentations from representatives of the Czech Republic and 5 presentations from those of the Slovak Republic.

2nd BLOCK

Disaster Medicine - Preparedness for CBRN Threats

This block contained a total of 13 lectures, where one presentation each was rendered by representatives of Slovakia, Russia and Brazil. These primarily focused on principles of emergency medical support during major sports and social events (WC in football, the Olympics, etc.).

3rd BLOCK

Practical Demonstrations

This block featured practical preparedness demonstrations of intervention by IRS components, simulating a situation where a large number of persons were affected by a chemical pollutant (EMS Liberec, FRS Zlín), as well as simulated resolution of an outbreak of highly hazardous infections and consequent transport to a medical facility (EMS Hradec Králové, FRS Zlín). The block also included two workshops (use of PPE, monitoring).

4th BLOCK

Various

This was comprised of 16 lectures dealing with preparation and preparedness of individual health service providers from various points of view (EMS, MOC EMS, hospitals, benefits of exercises and drills, a metric for assessing the achieved degree of preparedness, etc.). A very interesting and beneficial presentation was given by Mr. Takashi Hosada, Ph.D., focusing on the nuclear tragedy in Fukushima, Japan, and measures taken in its consequence.

CONCLUSIONS

The assessment by foreign participants at the final meeting after the conference was very positive. They praised the participation of all the components engaged in emergency preparedness and the sophistication of the IRS in the CR including links to medical facilities. Their countries lack similar conferences in such composition and focus. They also praised the refinement of the lectures and requested the possibility to obtain a translation and use the lectures in their own countries. They see the uniqueness of the conference in the common platform of presentation of individual components reacting to the consequences of high-casualty events.

The conference discussions and the content of individual presentations indicate consistency of the issue when resolving consequences of security risks on the part of national healthcare systems in close cooperation with further concerned ministries.

A key requirement is the permanent professional ministry-level coordination of preparations of healthcare in general and individual types of healthcare service providers in order to achieve the required state of preparedness and ensure coherence of individual elements of the healthcare system, which represent emergency and critical infrastructure of healthcare.

Functionality and the agility of emergency management of individual providers of (not just) healthcare services and workplaces of health administrative units greatly determine the level of health safety of a country's citizens. The conference underscored the need for permanent coordination of preparations in the context of dynamics of legislative changes, but also of the dynamics of the transformation of the security environment by the emergence of new security threats across Europe, and the growth in responsibility of health care systems for rendering healthcare services and protection of public health in accordance with medical findings in 21st-century medicine. This also applies in the context of rights of victims of emergencies and crisis situations.

Another aim of the conference was to invite the academic sphere represented by FLCM UTB to co-organize the 20th Annual Conference alongside the company EGO Zlín, spol. s r.o., where a group of enthusiasts and experts of individual fields could meet with the common goal of strengthening emergency preparedness in healthcare. Academia was invited to introduce new findings into textbooks and training materials of universities as soon and as well as possible.

The recommended conference outputs elaborated by the scientific and organizational committee will be forwarded to the responsible parliamentary and senate committees, the National Security Council, responsible and cooperating ministries and emergency managers in administrative units for use in the framework of their powers.

Ing. Pavel Kostka,
General Director, EGO Zlín, spol. s r.o.
www.egozlin.cz

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 Milos 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-armored 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. Unfortuna-





tely, 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

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

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 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.

Jiří Musil, Sales Specialist, KÄRCHER

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 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**

Golden IDET NEWS Award Ceremony

It has become a tradition for the international journalist jury to meet on the occasion of IDET fair to choose and then appreciate with the prestigious awards the best of the exhibited products registered by their producers to the contest for the Golden, Silver and Bronze IDET NEWS.



The jury in this year composed as follows: jury president J rg Aschenbrenner (Austria), deputy president ä rka Cook (Czech). Then, Stephen Elliott (Germany), Stephen Barnard (United Kingdom), Rudolf K. Schiwon (Germany), Walter Christian H land (Norway), Paolo Valpolini (Italy) and Remigiusz Wilk (Poland) were the jury members.

The ceremony where the journalist contest results were announced took place at the Austerlitz chateau at the gale night in a very pleasing milieu with the attendance of several dozens of invited guests.

The winner of the Golden IDET NEWS was Explosia a.s. company for its DISINTEGRATOR. This is a system using special charges intended to "open" suspicious luggage or subjects. Typical examples include suitcases, backpacks, barrels, wooden boxes, etc. The disintegrators are offered in two modifications - Disintegrator 13 or Disintegrator 50.

The runner-up and the Silver IDET NEWS winner was VVÚ, s.p. for IGLOO. This is a special mobile shelter with a high level of ballistic protection against the effects of explosions, splinters and small calibre projectiles, including the armour-piercing ones.

The Bronze IDET NEWS went to MEOPTA s.r.o. for its rifle for precision shooting with an optical system. The system enables fight actions during both day and night and also under difficult conditions.



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REVIEW for DSI (  online edition on www.msline.cz)

Review for Defence and Security Industry 4/2017

Deadline: 1. 12. 2017

Put into print: 15. 12. 2017

Expedition: 22. 12. 2017

Available at the annual editorial board meeting in Ministry of Defence resort in January 2018.

CDIS REVIEW ( on-line edition on www.msline.cz)

Czech Defence Industry & Security Review 3/2017

Deadline: 27. 10. 2017

Put into print: 9. 11. 2017

Expedition: 16. 11. 2017

MILIPOL (Paris, France) - 21.-24. 11. 2017, Intersec (Dubai, SAE) - 21.-23. 1. 2018, Enforce Tac (Nuremberg, Germany) - 7.-8. 3. 2018, IWA (Nuremberg, Germany) - 9.-12. 3. 2018



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- SHORT STROKE PISTON SYSTEM



	CALIBER		MAGAZINE CAPACITY	FRAME	BARREL LENGTH (MM)	LENGTH OF WEAPON WITH STOCK FOLDED/UNFOLDED, RETRACTED -EXTENDED (MM)	HEIGHT WITHOUT MAGAZINE (MM)	WIDTH OF WEAPON WITH STOCK FOLDED/ UNFOLDED (MM)	WEIGHT WITHOUT MAGAZINE (G)
CZ BREN 2	11"	5.56x45 mm NATO	30	ALUMINIUM	260	577/762-807 ± 10	202 ± 5	80/104 ± 5	2986 ± 50
CZ BREN 2	14"	5.56x45 mm NATO	30	ALUMINIUM	357	657/840-884 ± 10	202 ± 5	80/104 ± 5	3103 ± 50

Stated dimensions may be different in particular design and configuration.



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