

## “PARTNER 2013” WEAPONRY AND MILITARY EQUIPMENT FAIR

Miroslav Jandrić<sup>1)</sup>

THE Sixth Belgrade International Weaponry and Military Equipment (WME) Fair “PARTNER 2013”, was held from 25 to 28 June 2013, under the sponsorship of the Ministry of Defense of the Republic of Serbia. “PARTNER” has become a significant meeting place of many national and foreign scientific, research and manufacturing companies in the field of defensive technologies where close business-technical cooperation deals are arranged. At the Fair, it was reported that, at the end of May, the European Union Council had approved of

signing the administrative contract on cooperation between the European Defense Agency and Serbia. The conclusion of the contract, expected by the end of the year, will create conditions for the integration of Serbia’s scientific, research and manufacturing capacities into EU defence projects. It was also communicated that Serbia was renewing its cooperation with Russia in the field of military technologies and that the revitalization of Serbia’s contract with China about military, scientific and technical cooperation was being worked on.



International Weaponry and Military Equipment Fair “PARTNER 2013”

This year’s Fair celebrates a unique jubilee a small number of countries in the world can be proud of. Namely, exactly 160 years have passed since the Serbian military industry was founded - in 1853 the first cannon with the Serbian trademark was made in a foundry in Kragujevac.

This year also marks 90<sup>th</sup> anniversary of the creation of the Serbian aviation industry as well as 65 years from the foundation of the Military Technical Institute (VTI) which designed some of the most important weapons and military equipment in this part of Europe.

<sup>1)</sup> Military Technical Institute (VTI), Ratka Resanovića 1, 11132 Belgrade, SERBIA



Family of 5.56x45mm automatic small arms produced by "ZASTAVA"

Ninety-two scientific-research, manufacturing, R&D, overhaul, trade and representative companies from the country and abroad participated at this year's "PARTNER" exhibition. The central exhibition hall at the "PARTNER - 2013" displayed the WME projects of the VTI and "Jugoimport SDPR" company. Many national exhibitors also had attractive stands, e.g. "ZASTAVA ORUŽJE" – Kragujevac, "KRUŠIK" – Valjevo, "MILAN BLAGOJEVIĆ" – Lučani, "PRVI PARTIZAN" – Užice, "SLOBODA" – Čačak and "PRVA ISKRA" – Barič. There are presently fifty-two companies in Serbia within military industry with approximately 10,000 permanent employees.



Self-propelled multitube modular rocket system "MORAVA"

The Fair has confirmed that the development of WME in Serbia has been heavily based on VTI's R&D projects. The Institute presented a number of WME currently in the operational use in many armies as well as the most attractive projects being developed at the moment. Among the most attractive projects the VTI is currently developing, there are some in the final development phase with the operational use expected from 2014, such as: self-propelled multitube modular rocket system "MORAVA", 122 mm self-propelled howitzer "SORA", long-range tactical unmanned aerial vehicle "PEGAZ", light portable anti-armoured rocket system "BUMBAR", multisensor intelligent platform intended for passive surveillance, reconnaissance and data acquisition "MIP 11", HF broadband radio-rangefinder "HERA", system for acoustic source detection "HEMERA", robotized system for anti-armoured combat "MILICA", special remote-controlled

mini robotized demining vehicle "TORO", special NBC laboratory vehicle, etc.

"MORAVA" – is a modular self-propelled multitube rocket system, capable of launching a number of rockets of different calibers and ranges for maximum impact at the battlefield. The wheeled launching platform has two launching containers and the number of launching tubes depends on the rocket type and caliber.



122 mm self-propelled howitzer "SORA"

"SORA" – is a 122 mm self-propelled howitzer, intended for fire support to units up to the brigade level. The howitzer has automatic load (feeding and combat kit) with the fire rate (cadence) of 6 rounds/min and the maximum range is about 21500 m.

"PEGAZ" – is a tactical unmanned aerial vehicle with the range of up to 100 km. It is intended for day/night surveillance, reconnaissance and data acquisition on a tactical level for the needs of intelligence-reconnaissance units.



Anti-armoured rocket system "BUMBAR"

"BUMBAR" – is a 136 mm light, portable multipurpose anti-armoured rocket system, with the effective range of up

to 600 m and capable of penetrating up to 800 mm of RHA. The system is equipped with the tandem warhead and is suitable for use in urban environments since the rocket can also be launched from a closed space.



Tactical UAV "PEGAZ"

"MIP 11" – is a multi-sensor intelligent platform intended for passive surveillance, reconnaissance and data acquisition of stationary and non-stationary objects during day/night and low visibility conditions. The system consists of various sensors simultaneously observing the area of interest, gathering the important data and forming the area electronic image in different parts of the electromagnetic spectrum.

"HEMERA" – is a system for acoustic source localization intended for intercepted acoustic signal-based detection/location of firing positions of enemy's artillery and rocket systems as well as for the correction of fire of one's own artillery.



Multi-sensor intelligent platform "MIP 11"

"Jugoimport SDPR" presented the combat vehicle "LAZAR 2" for the first time as well as a prototype of the training-combat turbo-propelled aircraft "KOBAC" being developed in cooperation with the VTI and "UTVA". The well-known 155 mm self-propelled artillery system "NORA-B2", already in operational use in several countries, dominated their stand together with the rocket system "ALAS" whose further development is financially supported by an ino-partner.



Combat vehicle "LAZAR 2"

"LAZAR 2" – is a multipurpose armoured combat vehicle, a modification of the wheeled combat vehicle of 8x8 configuration "LAZAR". The vehicle construction presents the combination of the concept of MRAP (Mine Resistant Ambush Protected Vehicle) and MPAV (Multi Purpose Armored Vehicle) vehicles. The vehicle is primarily intended for the units engaged in counter-terrorist operations, in urban as well as in sparsely populated areas of different terrain configurations. The vehicle concept enables a wide range of armament and special equipment.



Training-combat turbo-propelled aircraft "KOBAC"

"KOBAC" – is an aircraft the development of which is based on the "LASTA" aircraft. It is a training-combat two seater with a turbo-propelled engine intended for higher basic flying-combat training. Besides its primary purpose, this aircraft is particularly suitable for counter-terrorist and anti-sabotage combat at "low speeds and heights", in inaccessible terrains such as gorges and narrow river valleys where the use of highly sophisticated aircraft is inefficient and very risky.



Self-propelled artillery system "NORA-B2/52"

"NORA-B2" – is a well-known 155 mm self-propelled artillery system of great firepower and a 42 km range. For this currently the best export of the Serbian military industry, a new active-reactive projectile EPFB PA/BB of an approximately 56 km range is under development.



Missile system "ALAS"

"ALAS" – (Advanced Light Attack System) is a multipurpose guided rocket system based on turbojet propulsion which enables the maximum mid-course speed of 180m/s. Two versions are under development, with the range of 25 and 50 km. This rocket system is intended for operating in a wide spectrum of actions against enemy targets such as: tanks, armored fighting vehicles, command posts, fortifications, low-flying helicopters, bridges and alike.



Mortar mines of different calibres produced by "KRUŠIK"

The Fair exhibited various models of small arms, artillery and rocket systems of fire support as well as families of ammunition in different calibers, all products of the Serbian military industry. There were also many stands of companies dealing with military telecommunications, engineering products, explosive materials, individual and collective protection, working and special clothing for military and police purposes, etc.

"PARTNER 2013" was an excellent opportunity for the promotion of the Serbian military industry which resulted in fruitful contacts and cooperation on a number of projects with foreign partners. "PARTNER" has grown into the biggest fair of this type in the region. The next, seventh one, is due in June 2015 when we can expect to see the realization of some presented projects which are now in the development phase or in the test range phase.

Received: 13.07.1013.

## „PARTNER 2013“ Sajam naoružanja i vojne opreme



## "СОУЧАСТНИК 2013" Ярмарка вооружения и военного оборудования



## "PARTENAIRE 2013" L'exposition de l'armement et de l'équipement militaire