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7th International Weaponry and Military Equipment Fair ''PARTNER 2015''

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IN the period from 23rd to 26th of June 2015, the seventh Belgrade intenational weaponry and military equipment fair "PARTNER 2015" was held, under the patronage of the Ministry of Defence of the Republic of Serbia and in the organization of the Yugoimport SDPR company and the Belgrade Fair. The goal of the manifestation was for the

international and national audience to meet the defence technological and industry capacities of the Republic of Serbia in the area of military techniques and technologies, as well as to be introduced with the scientific achievements and proposals of the foreign defence industries of weaponry and military equipment (WME).



Fig.1. International armament and military equipment fair PARTNER 2015

This year 116 national and international WME companies and institutions presented themselves at the fair. Among them prevailed the development projects of the Military Technical Institute (VTI) and Yugoimport SDPR. Also, a number of leading Serbian defence companies and WME producers who have the enviable international reputation had the significant role at the fair and the most prominent among them being: "ZASTAVA ORUŽJE" – Kragujevac, "PRVI PARTIZAN" – Užice, "KRUŠIK" – Valjevo, "SLOBODA" – Čačak, "MILAN BLAGOJEVIĆ" – Lučani, "IMK 14 OCTOBER" – Kraljevo, "FAP" - Priboj, "UTVA" – Pančevo, "PRVA ISKRA" – Barič,

"TRAYAL" – Kruševac, "PRVA PETOLETKA" – Trstenik, "IRITEL" – Beograd, "EDEPRO" – Beograd, "EI OPEK" – Niš, "TELEOPTIK - GYROS" – Zemun, "Sova Night Vision" – Niš, "JUMKO" – Vranje, "MILE DRAGIĆ" – Zrenjanin, "KODŽIĆ & Co" – Beograd, "GEPARD" – Novi Sad, etc. Apart from weaponry and military equipment manufacturers, several overhaul companies presented their capabilities at the Fair: "TRZ" – Čačak, "TRZ" – Kragujevac, "MOMA STANOJLOVIĆ" – Batajnica, "ORAO" – Bjeljina, etc. Beside the presentation of the Military Technical Institute, the remarkable ones were by the Military Medical Academy

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(VMA), Military Geographic Institute (VGI), Technical Test Center (TOC) and Military Academy (VA), being the most important institutions withinn the Serbian Army.

WME Fair "PARTNER 2015", which is held each two years in the month of June, has been visited by a great number of official international delegations among which the most interest for the projects and products of the Serbian defence industry was expressed by: Pakistan, Iraq, Jordan, United Arab Emirates, Lebanon, Myanmar, Brazil, Mexico, Azerbaijan, Belarus, Russia, Algeria, Zambia, Egypt, DR Congo, USA, Slovenia, Croatia, France, Turkey, etc.



Fig.2. Self-propelled rocket system "PLAMEN-C"

At the Belgrade Fair visitors could have seen the modern small arms, fire support artillery and missile systems, self-propelled and towed artillery systems, anti-armour combat systems, combat and non-combat vehicles, tanks and armored vehicles, ammunition of various calibers and purposes, artillery and mortar fuze systems, mines, electronic reconnaissance and surveillance systems, telecommunication equipment, radar-computing devices, crypto protection devices, unmanned aerial vehicles, trainer aircraft for the initial pilot training, river patrol boats, logistics equipment, antiterrorist and special operations equipment, personal protective equipment, fire-fighting equipment, etc.

Yugoimport SDPR company, as the main organizer of this year's Fair, has shown at their stand for the first timethe following systems: SOVA aircrfat, light river patrol boat, self-propelled artillery system of 155 mm calibre NORA B2K1 of the third advanced generation, as well as the greater number of the well-known WME projects of which some are modernized in accordance to the requirements of the contemporary warfare ways.



Fig.3. Aircraft for the initial civil/military pilot training "SOVA"

SOVA aircraft is intended for civil and military initial pilot training. The aircraft is a four-seater and it enables simulataneous training of more pilot students which significantly reduces the training costs. This is a contemporary single-engine low-wing aircraft with the fixed landing gear which, according to the need in the armed version, may be equipped with containers with the machine

guns or unguided rockets.

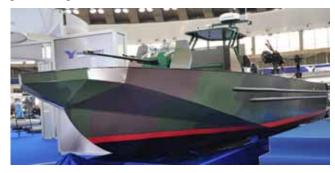


Fig.4. River patrol boat

River patrol boat is an ultra-fast vessel (40 knots), primarily intended for patrolling and control of the large river flows as well as of the shallow rivers. Depending on the equipment, this boat may be used for sabotaging and countersabotaging actions. Regarding the armament, it may be equipped with automatic gun of 20 m calibre, machine guns of various calibres, automatic bomb launcher, etc.

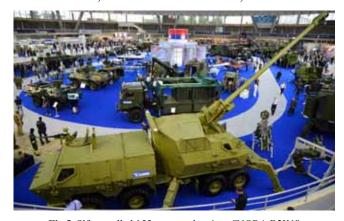


Fig.5. Slf-propelled 155 mm gun-howitzer "NORA B2K1"

Self-propelled truck-mounted artillery system of 155 mm calibre NORA B2K1 of the third advanced generation is currently one of the most sophisticated projects of the Serbian defence industry and one of the three best systems of that kind in the world. It is very efficient fire support weapon of up to 42 km range which possesses a high degree of automation of all weapon functions – from deploying in the firing position, through calculating firing elements to automatic loading with projectiles and propelling charges up to the navigation and orientation system. A base bleed projectile, which should enable this artillery system to attain the effective range of 56 km, is in the final stage of testing. Also, the possibility of applying the intelligent laser self-guided artillery ammunition is considered.



Fig.6. All-terrain vehicle "ZASTAVA"

At the Fair, the Military Technical Institute, as a responsible for the development of the greater number of WME systems, not only in Serbia but also in this part of Europe, has shown a great number of systems which are in the final stage of testing or have been finished between two fairs and are expected to be introduced in the operation use of the Serbian Armed Forces, or certain foreign armed forces, in the following period. Among the most attractive exhibited WME systems there were: self-propelled multitube modular rocket system MORAVA, self-propelled howitzer SORA, wideband direction finder HERA, automatized shooting range equipment KORS, short range unmanned aerial vehicle VRABAC-2, integral tank power-pack made of the 1200 HP engine, left and right gearbox, inter-transmissioner and multiplier, off-road vehicle family FAP, etc.



Fig.7. Self-propelled multitube modular rocket system "MORAVA"

Modular self-propelled multitube rocket system MORAVA is capable of launching a number of rockets of different calibres and ranges for the maximum impact at the battlefield, or to achieve the maximum price - efficiency ratio in combat actions. The wheeled launching platform has two launching containers and the number of launching tubes depends on the rocket type and calibre. The 16-launching tube container fires 128 mm PLAMEN rockets to 8,6 km (version A) and 12,6 km (version D), respectively. The 12-launching tube containers fit to OGANJ (128 mm calibre, 22,5 km range) and GRAD (122 mm calibre, 35 km range) systems.



Fig.8. Slf-propelled 122 mm howitzer "SORA"

Self-propelled howitzer SORA of 122 mm calibre, is intended for the fire support to the units up to the brigade level. The howitzer has the automatic load with the fire rate of 6 rounds/min and the maximum range is 21500 m. It is mounted on the modified platform of the FAP 2026 6x6 terrain vehicle.

HF wideband direction finder HERA is intended for fast scanning of the electromagnetic spectre in HF range of 1.6 MHZ to 30 MHz and the estimation of the radio signal direction. This system is used as a basic system for electronic support in HF range as well as a system for application in Signal Intelligence and Electronic Warfare systems by intercepting telecommunication signals.



Fig.9. Multifunctional armoured combat vehicle "LAZAR 1" and "LAZAR 2"

Beside the mentioned WME systems, at the Fair one could have seen: : multipurpose combat armour vehicle LAZAR 2, self-propelled howitzer 122 mm SOKO, multipurpose guided missile system ALAS, converted gun 130/155 mm, M84AB1 tank, multipurpose engineering caterpillar vehicle MUNJA, armed version of LASTA aircraft which is intended for the initial and basic training of the pilots, multipurpose antiarmour rocket system BUMBAR (BUMBLE-BEE), unmanned aerial vehicle PEGAZ, modified reconnaissance radar PR-15, modernized surveillance radar P-12M, sniper rifle CRNA STRELA (BLACK ARROW) of 12.7x107 mm calibre, automatic rifle M-21 of 5.56x45 mm calibre, CZ-999 pistol of 9 mm calibre, clothing and protective equipment, etc.



Fig.10. Missile system "ALAS"

PARTNER 2015 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. The next, eight one, PARTNER Fair, that has grown into the biggest fair of this type in the region, will be held in 2017 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.

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7. Međunarodni sajam naoružanja i vojne opreme "PARTNER 2015"

7-я Международная ярмарка вооружения и военной техники "ПАРТНЁР 2015"

7^{ième} Foire de l'armement et de l'équipement militaire "PARTNER 2015"