



## Russia – Kazakhstan: enriching the good traditions of military-technical cooperation

From May 3 to 6, 2012, Astana, Kazakhstan, will be hosting the Second International Exhibition of Weapons System and Military Equipment (KADEX-2012). The organizers are the Ministry of Defense of the Republic of Kazakhstan, Kazspetsexport Republican State Enterprise, Kazakhstan Engineering National Company, Kazahvzryvprom enterprise and JSC Kazakhstan GIS Center.

The exhibition will be held at the Kazakhstan Air Force Base.

This year, the event will be attended by 200 national companies, exhibitors from CIS countries and abroad.

The major component of KADEX-2012 is its business program, which includes conferences, seminars, presentations, and round tables with the participation of the RK Armed Forces representatives, professionals from the dedicated enterprises and organizations, as well as foreign participants.

The demo program of the exhibition will include live demonstrations and performances involving military equipment and special units of the Kazakhstan Armed Forces.

Traditionally, Rosoboronexport takes an active part in the show. Rosoboronexport is the sole state-run company in Russia authorized to export and import the full range of the defense and dual-use products, technologies and services. This exclusive status provides Rosoboronexport with unique opportunities in expanding and strengthening long-term mutually beneficial cooperation with foreign partners.

Rosoboronexport is ready to meet the most extensive requirements of foreign customers needed for reliable defense and security of their states. The Company aims to develop the current lines and forms of military-technical cooperation, expanding sales geography and strengthening Russia's mutually beneficial relations with foreign economics.

At KADEX-2012, Rosoboronexport will present models, posters, leaflets and multimedia presentations of military hardware, which the potential customers from the Asian region are interested in, as well as the SKATT electronic shooting simulator.

Aircraft equipment traditionally ranks first in Rosoboronexport's sales. Visitors will be offered information on Yak-130 new generation combat trainer. The aircraft has fully completed its official test program and has been adopted by the Russian Air Force. It is currently in batch production. Owing to its excellent flight performance, the Yak-130 provides effective, safe and non-expensive training, as well as skill maintenance and improvement for Air Force pilots. In addition, the Yak-130 can be used to perform combat missions in limited-intensity conflicts. With its high export potential, the aircraft has successfully entered the world market and



several export contracts have been signed to date.

A modern Su-30MK-type multirole fighter can gain air superiority and engage ground (surface) targets using air-to-air guided missiles and air-to-surface precision guided weapons. It is capable of operating independently or as part of a group in any environment. The Su-30MK fighter has proved itself excellently in India, China, Indonesia and other countries.

The potential foreign customers show great interest in the Mi-28NE attack helicopter, which is an advanced competitive helicopter system capable of performing a wider range of combat missions around the clock.

The Mi-28N is designed to search and destroy armored vehicles, single and multiple targets, as well as low-speed air targets day and night, in any weather and at extremely low altitudes (10-25 m) with automatic terrain following and obstacle clearance. Its maximum speed is 305 km/h, range - 450 km.

The Mi-28N is superior to its foreign counterparts 1.4 -1.6 times in terms of overall combat effectiveness, 2.0-2.5 times in the combat effectiveness of the flexible gun system, and 1.7-2.2 times in the combat effectiveness of guided missiles.

Its armament mix consists of a fixed flexible gun mount, guided missiles and unguided rockets, gun pods suspended on underwing pylon racks. To increase the flight range, extra fuel tanks can be suspended on the racks instead of armaments.

The Mi-171SH is a versatile high-performance military transport helicopter, which is widely known around the world as a member of the of Mi-17 family.

The helicopter can destroy enemy ground targets and manpower. It is equipped with guided missiles and unguided rockets, gun armament, advanced avionics and instrumentation, and a self-defense system.

Its transport version can carry up to 36 people or a variety of cargo up to 4,000 kg both inside the cabin (measuring 5.34 x 2.29 m) and externally, while the ambulance version is capable of transporting up to 12 stretcher casualties. The helicopter can also take part in search-and-rescue operations on land and at sea.

The Mi-35 helicopters are recognized as among the best multi-purpose attack helicopters. One of their main tasks is to strengthen the firepower of land units on the battlefield and increase their mobility. This versatile machine can be effectively used for landing, transport, ambulance and air scout missions. It is these qualities that have been fully demonstrated during the use of Mi-24/Mi-35 helicopters in various "hot" spots around the world. Their demand and popularity is evidenced by the fact that more than 1,250 helicopters of this type have been delivered to nearly 40 countries over the past 20 years.

The family of Kamov helicopters will be presented by the promotion materials on the Ka-31



radar picket helicopter designed to detect aircraft, including low-flying targets and surface ships, track them and transfer data automatically to the command centers.

The Ka-50 and Ka-52 helicopters offer excellent performance.

The Ka-50 Black Shark is a single-seat attack helicopter designed to destroy armored and motor vehicles, air targets and manpower on the battlefield. During a survivability test, its tail section was jettisoned. Nevertheless, despite the damage, the machine was able to continue the flight and make a safe landing.

The Ka-52 Alligator became an advanced and improved version of the Ka-50. This attack helicopter is capable of functioning as a command vehicle, conducting reconnaissance and target designation and coordinating a group of attack helicopters. It can engage armored and soft-skinned targets, manpower and air targets on the battlefield. The Alligator has been adopted by the Russian Air Force and more than a hundred of these helicopters will be delivered to the troops in the coming years.

Last year, land forces' weapons accounted for more than 21 percent of Rosoboronexport's arms export deliveries, ranking next to aircraft exports.

To meet the partners' interests, the Rosoboronexport's display showcases a wide range of export defense products for land forces. Among them is the T-90S modern missile-gun MBT. It has small size and weight, a low silhouette, missile and gun armaments, and explosive reactive armor. Today it is one of the best tanks in the world.

The upgraded agile BMP-3M infantry fighting vehicle will surely get the attention of specialists and visitors. A new digital ballistic computer and a thermal sighting system with an automatic target tracker have significantly increased the effectiveness of its armaments consisting of a 100mm smoothbore gun-launcher, a 30mm automatic cannon and a 7.62mm machine gun and mounted in a single stabilized weapon unit.

The BMP-2 still remains the basic combat vehicle of infantry units of many armies in the world. Rosoboronexport offers the customers a comprehensive upgrade package, the BMP-2M. The technical and design solutions implemented have increased the combat effectiveness of the vehicle to a new level, expanded its fighting capabilities, and enhanced firepower.

The self-propelled artillery section is represented by advertising materials on the 152mm Msta-S howitzer with an automated laying and fire control system (ALFCS), which provides full autonomy of the gun in battle, day/night and all-weather firing, high rate of fire, responsiveness and mobility. The howitzer is intended to engage all typical targets for the land forces in the tactical depth of the enemy. Additional equipment, large on-board ammunition supplies and shorter fire preparation time are the features that distinguish the Russian howitzer favorably from its foreign counterparts.

Among the best weapon systems is the Khrizantema-S self-propelled anti-tank missile system



designed to destroy current and future enemy tanks, lightly armored targets, fortifications, weapon emplacements, boats, low-speed low-flying airplanes and helicopters, manpower.

The BMPT fire support vehicle, nicknamed the Terminator for its effectiveness and firepower, is increasingly attracting attention. It can operate both as part of tank units (one BMPT per tank platoon) and independently. The BMPT provides fire support to sub-units on the move and from a stationary position by effectively suppressing enemy manpower, tanks, infantry fighting vehicles, bunkers, earth-and-timber emplacements, and other hardened targets, as well as helicopters and low-flying airplanes.

The air defense equipment provides more than 11 percent of Rosoboronexport's export deliveries.

At the Company booth, the professionals and visitors will be able to get acquainted with air defense weapons, including the highly automated Tor-M2E short-range SAM system mounted on a tracked or wheeled chassis. The SAM system is capable of countering all current air threats within its engagement envelope and protecting the facilities from attacks by precision guided weapons.

The Buk-M2E medium-range SAM system on a wheeled or tracked chassis promises considerable export potential. It can engage not only strategic and tactical aircraft, helicopters and cruise missiles, but also tactical ballistic and air-launched missiles (including antiradar ones), precision-guided submunitions, as well as surface and ground radio-contrast targets in an ECM and counterfire environment.

The Pantsir-S1 short-range missile/gun air defense system is of interest to many countries in the region. It is designed to provide close air defense cover for civilian and military installations from all current and future air threats. If necessary, it can defend against ground and above-water threats.

The Luchnik-E very short-range SAM system and upgraded ZU-23/30M1-3 AA gun mount will make their debut at the exhibition.

The Luchnik-E is equipped with 16 Igla-S MANPADS missiles and a modern day/night electro-optical acquisition system capable of simultaneously tracking up to four air targets in its field of view. The upgraded ZU-23/30M1-3 carries an additional missile module containing two Igla-S MANPADS missiles.

Russia is one of the major exporters of the various modern boats. At KADEX-2012, Rosoboronexport delegation members will provide the participants and guests of the show with the unique characteristics of the "small fleet".

The Project 12418 missile boat, fast patrol boats displacing 60 to 380 tons (Project 12150 Mangust, Project 12200 Sobol, Project 14310 Mirazh and Project 10412 Svetlyak), as well as the Project 12061E Murena air-cushion landing craft are justly considered among the best in



the world. They have been highly appraised by Rosoboronexport's permanent partners. The Project 21632 Tornado small missile (artillery) ship is capable of successfully countering enemy surface combatants, both independently or as part of a group. A fire support ship and a patrol ship have been developed around the project's baseline platform, which feature effective and powerful weapons and the latest facilities.

"The KADEX-2012 exhibition takes place in the momentous days of the 20th anniversary of the Kazakhstan Armed Forces. So I'd like to congratulate all the soldiers of the Republic, the organizers and wish them all success and good luck," - said Esen Topoyev, advisor to the Rosoboronexport Director General and head of the Company delegation. – "The KADEX national exhibition is becoming a traditional and recognized platform for showcasing the best weapons and military equipment for the vast region. Our delegation has prepared a tight schedule of meetings, presentations and negotiations with our partners. I hope that this work will be a prelude to future mutually beneficial contracts. Relying on the favorable prospects for cooperation and progress achieved in several areas, it is necessary to augment marketing efforts on our potential customers by offering a wide and quality range of Russian defense products."

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Russian Federation, ROSOBORONEXPORT,  
27 Stromynka str., 107076, Moscow,  
Public Relations and Media Service  
Phone: +7 (495) 534 61 83;  
Fax: +7 (495) 534 61 53  
[www.roe.ru](http://www.roe.ru)

