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Arms Show NEWS



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INTERNATIONAL DEFENSE EXHIBITION OF LAND FORCES

**AUGUST 2-6
MOSCOW
MOSCOW REGION**



RUSSIAN DEFENCE EXPORT

The Rosoboronexport State Corporation is the sole state intermediary agency for Russia's military exports/imports. It delivers a complete range of defence-related products for all military, paramilitary and special services, as well as dual- and civil-purpose technologies. The corporate strategy is focused on building and developing long-lasting partnerships under the tenets: "Efficiency. Reliability. Quality".

EFFICIENCY
RELIABILITY
QUALITY



STATE CORPORATION

ROSOBORONEXPORT

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“Nowadays Russia ranks among the world’s top five arms exporters. The primary task in this area is to strengthen the achieved positions and develop the success”.

V.V. Putin, the Russian Federation President



“Increasing the exports of defense products is our top priority job. But a still more important task is consolidation of our position in the markets we have accessed. The IDELF-2006 exhibition will promote the Russian weapons to the world arms market and contribute to Russia’s military-technical cooperation with foreign countries”.

**M.A. Dmitriev,
Director of the Federal Service for Military-Technical Cooperation**



“Russia has a potential for increasing the exports of land forces armament. The IDELF-2006 provides a golden opportunity to its participants in demonstration of their achievements in development and manufacture of modern military hardware. This is where the progress of land forces armaments can be conveniently discussed and mutually beneficial contacts established”.

**Col Gen A.V. Belousov, the Russian Federation
First Deputy Minister of Defense**



“The IDELF-2006 provides a chance to show the trends and prospects in development of Russia’s science and industry, to display the huge research and manufacturing capability of the country, and to confirm its image as the world leader in export of arms and military equipment”.

**B.S. Aleshin,
Head of the Federal Agency for Industry**



Participation in the IDELF-2006 will create favorable premises for concluding mutually beneficial contracts and will give a new impetus to promotion of the country’s military and dual use products to the world market. Also, it will enhance Russia’s prestige as one of the world’s leaders in production and export of modern arms and military equipment”.

**S.V. Chemezov,
Rosoboronexport director general**



“The primary purpose of the IDELF-2006 is a comprehensive demonstration of Russia’s capability in export of land forces armament. The increase of the share of land forces’ weapons in the total of Russia’s military exports makes the exhibition particularly important”.

**V.A. Paleshchuk, deputy director
of the Federal Service for Military Technical Cooperation**



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IDELF

to help promote Russian armaments to the world market



Mikhail Dmitriev,
 Director of the Federal Service for Military-Technical
 Cooperation

Some 50 defense exhibitions are held annually in around 30 countries worldwide. For the country hosting an exhibition, this is an opportunity to strengthen its image. For exhibitors, this is a convenient chance to display their products, assess demand and supply, and learn about the market situation. For participants from among the representatives of military departments, this is yet another possibility to compare the level of achievements in the development and manufacturing of military equipment.

Generally, defense exhibitions are held in the countries that are either leading arms manufacturers or major arms importers.

Traditionally, Russia has been one of the major arms development and manufacturing centers in the world and correspondingly one of the leading exporters on the global arms market. In this context it seems logical that, as an arms manufacturer and exporter, we're seeking to

host defense exhibitions that would occupy a deserved place among the world's leading defense shows. Since we export armaments for air, naval and land forces, our domestic manufacturers would be objectively interested in exhibitions oriented to all services of the armed forces. In this connection arranging the International Defense Exhibition of Land Forces (IDEFL-2006) deep in our country looks a logical and awaited step. The more so, Russia already holds world-class exhibitions of defense products for two other services of the armed forces – MAKS International Aerospace Show in Zhukovsky, near Moscow and International Maritime Defense Show in St. Petersburg.

As the organizer, the Federal Service for Military-Technical Cooperation hopes IDELF will be the first-class exhibition ranking among the world's leading land force's equipment shows. We'll do our best effort to this end. **ASN**

Russia completes building a network of defense exhibitions



Vladimir Paleshchuk,
 Deputy Director of the Federal Service for Military-Technical Cooperation

Pursuant to the Russian Federation Government's Resolution No.115 of 02.02.2006, the International Defense Exhibition of Land Forces, IDELF-2006, will be held from 2-6 August. This is organized by the Russian Federation FSMTC under the sponsorship of the Bison group of companies. Simultaneously with the exhibition, a series of events will be arranged, including the "Stand by for Work and Defense" military sporting forum. The forum will be sponsored by the RF Defense Ministry and other law enforcement agencies. The prime goal of the forum is to bolster patriotism and defense awareness of the rising generation and to shape the youth's positive attitude to service in the Russian Armed Forces.

The principal site of the event is the All-Russian Exhibition Center. This is a forced step since originally it was planned that the exhibition would take place at the principal site of the Zhukovsky-based Gromov Flight Research Institute near Moscow. However, due to the fact that next year a new MAKS aerospace show will be held and the Institute's infrastructure

needs to be improved, we decided not to use it this year.

The program of the exhibition and the forum includes the following main events. On 2 August the exhibition and the forum will be opened in the Industry Square of the All-Russian Exhibition Center. The opening ceremony will start with a parade in which the legendary Katyusha multiple launch rocket systems will march first. Also, we shall demonstrate the Katyusha systems at the Center and at the proving ground of state-owned NII Geodeziya Research Institute in Krasnoarmeisk where military hardware will be displayed on 4-5 August.

On 4 August the exhibition will be held at the Center as part of the Day of Moscow festivity. The 5 of August is declared the Day of the Moscow Oblast at the firing range of the Geodeziya Research Institute. On 6 August, an exhibition of and conference on military automotive vehicles of the 21 century will be held at the proving ground of the Defense Ministry's 21st Research Institute in Bronnitsy. Put on display there will be various types of trucks and cars. In



BMP-3

addition, it is planned that all the interested guests will be able to visit the Military Armor Museum in Kubinka.

The IDELF-2006 is quite an important event. Ground troops are the principal element of many countries' armed forces. That is why the subject matter of the exhibition presents today special interest. This is proved by participation in it of a large number of countries that come up with their expositions. We expect no less than 50 official delegations from abroad, from diplomatic missions and Russia-based foreign representations.

The prime goal of the exhibition is to fully demonstrate the exporting capability of Russia and the potential of its companies in research and production of military hardware for land forces.

I can safely say that in size and in composition of exhibitors (both Russian and foreign) this exhibition is already on a par with such an internationally renowned event as the MAKS aerospace show. The exhibition will, indisputably, be an international forum at which defense manufacturers will promote their goods. Its conduct will complete the formation of the network of international defense exhibitions in Russia. This network includes, in the first place, three baseline events – MAKS aerospace show in Zhukovsky (held on even years), International Maritime Defense Show in St Petersburg (held on odd years) and International Defense Exhibition of Land Forces (held in Moscow and suburbs on even years).

More likely than not, the new show, International Security Systems Exhibition, will be included in the group of principal events. This will

be held in Moscow and suburbs next May. Also, a number of other exhibitions are conducted in our country. Those are the shows arranged in Nizhniy Tagil, Omsk, Gelendzhik and the dedicated shows Interpolitekh (special-purpose equipment), Dvigateli (engines) and Vysokiye Tekhnologii (high technologies). Worth of special note is the show in Nizhniy Tagil. This differs from others by superior demonstration facilities. Those allow in-service demonstration of every type of hardware operated by the Russian armed forces. However, the lack of a developed infrastructure, geographical remoteness and other problems that must be urgently addressed, decrease efficiency of this exhibition in its defense cooperation aspect. Nonetheless, I'm sure that as time goes by the exhibition will gain the place it deserves in the world defense market.

Even though we declare the completion of the main stage in formation of Russia's network of defense exhibitions, the work in this area will finally end by roughly 2010. Since last August, pursuant to direction of Russian President Vladimir Putin, full scale work has been underway for building in Zhukovsky, near Moscow, a multi-functional complex under the working title of TVK Russia. The main component of this complex will be an exhibition complex that will incorporate MAKS, defense exhibition of land forces, the security systems show and, possibly, other events. I'm sure that by 2010 this unique complex will emerge in the center of Russia. This will be a key component in the military-technical infrastructure of the country.

ASN



Tank T-90S

IDELF - Russia's new exhibition of arms and military equipment



Sergey Marichev,
Chairman of the Board of Directors
of the Bison Association of Exhibition Companies

The International Defense Exhibition of Land Forces (IDELF-2006) is held for the first time under the sponsorship of the Russian Federation Defense Ministry. Co-chairmen of the organizing committee are Col Gen Alexander Belousov, First Deputy Minister of Defense, and Mikhail Dmitriev, Director of the Federal Service for Military-Technical Cooperation.

Entrusted with the handling of all technical and work-related problems, we have been preparing the exhibition for two years. In course of the preparation we used all the resources available to immediately make it just as significant as the MAKS show. This is an extremely difficult task given that this is Russia's first exhibition on such a scale. By comparison, the Interpolitekh exhibition of police and military equipment, which we shall hold this year for the tenth time in Moscow, is not larger than the IDELF which have prepared just in 1.5 to 2 years. In some aspects the IDELF-2006 is superior to Interpolitekh.

Things were made difficult for us by the fact that the event which was originally conceived as a land forces armament exhibition and an aerobatics festival had to be transferred to another site. However, we did succeed in preparing an equally interesting program.

The opening ceremony will take place at the All-Russian Exhibition Center on 2 August. The entire exhibition area will be organized in a single style, from the main arch to the Space Pavilion. We expect no less than a million visitors during five exhibition days.

The exhibition site chosen in a tender seems to be located very conveniently. The equipment for land forces, interior and airborne troops as well as products of Russia's defense companies will be put on display on the territory of the Exhibition Center along the main alley.

There will be a visitors' rest area between the first pavilion and the Industry Square.

Pavilions No 20 and 57 will house exhibition stands. The total of exhibits exceeds 400 pieces.

Special attention will be paid to the business program of the exhibition.

I wish to highlight some special points of the exhibition. During the exhibition's opening ceremony we shall demonstrate for the first time the change of foot and mounted guards of the Kremlin Regiment. This will be their first departure from within the Kremlin during which they will demonstrate their riding skills. We have built a large platform in order to combine the exhibition opening ceremony and the sporting competition kickoff. This will be a spectacular show, taking part in which will be law enforcement units and airborne troops with their exhibition performances.

We expect Russian President Vladimir Putin at the opening of the exhibition. On my part, as an organizer of the show, I wish to say that there really will be exhibits worthy of his attention.

At the sporting competition we shall demonstrate not only arms and military equipment but also things that attract the youth today. For this purpose special sites have been made available furnished with sporting facilities. On 3 August very interesting events will be held in the field of business and military politics. The Chief Directorate of Armor will conduct a conference on the current state and prospects in this area. The conference will be continued by demonstration of automotive vehicles at the proving ground in Bronnitsy.

On 4 August, the Day of Moscow, the capital will present a very impressive program. As co-chairman of the sporting forum, Yuri Luzhkov, the Mayor of Moscow, will open the Day of Moscow at the exhibition. Both sporting and businesslike events will be organized under the Stand By for Work and Defense program. Those will be arranged by Moscow's Department of Industry.

On 4 and 5 August arms and military equipment will be demonstrated at the proving ground of Krasnoarmeisk. I offer my special thanks to the management of Rosprom (Russia's

Federal Agency for Industry) and administration of the Moscow Oblast for the very thorough preparation of the proving ground and the entire infrastructure. Many motorways have been asphalted both in the oblast and on the proving ground. A 20,000 vehicle parking lot has been built. An unprecedented amount of work has been done towards reconstruction of the proving ground's site No.15 where the equipment will be demonstrated. Stands for 6,000 spectators have been erected. No other proving ground in Russia can boast such facilities. By comparison, I should say that at the Nizhny Novgorod proving ground the stands host only 2,500 spectators.

A special rostrum has been built for mass media workers. Some 15 cameras will record from various angles the firing results. The spectators will be able to watch firing on large screens. Installed at the proving ground are three light diode panels. In addition, a satellite transmission system will be erected that will relay the information traffic towards the Exhibition Center so that all those who could not come to the proving ground could watch the proceedings on the Center's large screen.

We look forward to seeing top executives of the state and defense ministry as well as high-ranking foreign guests. The demonstration will start with small arms and grenade launchers and will end with artillery pieces and tanks. Special operations forces will put up an impressive show. The Interior Troops, too, have prepared quite an interesting program. It can be said that this event is turning from a land forces armament showcase into a full-scale exhibition of all types of arms for all services.

On behalf of organizers of the exhibition I thank Rosoboronexport Federal Unitary Enterprise, the general sponsor of the IDELF -2006 this year. I also thank news agencies and TV channels which support us and, primarily, ARMS-TASS agency, the general information provider of the exhibition, and Zvezda TV Channel, its media partner. **ASN**

BMP Infantry Fighting Vehicle



**Perfection in perpetual motion.
Motion that nothing can stop. And nobody...**



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Rosoboronexport at the IDELF-2006



For the last five years the Rosoboronexport State Corporation has achieved great success thanks to its marketing and promotional activities. The Rosoboronexport contract portfolio has considerably increased and is now worth US\$ 17 billion. It includes the contracts that have already been signed and have come into force, and that are to be completed by the year 2010.

The total value of last year's stock of orders was more than US\$ 9 billion. The contract portfolio has the following segments: the Navy, the Air Force and Army weapons (where armour and artillery systems are in great demand). The results of the activities of the Rosoboronexport have considerably bolstered the position of the Russian Federation in the global arms market (especially in the field of advanced military technology) and the efficient marketing policy has made it possible to double export volumes during the period from 2000 to 2005. The doubling of exports is the main indicator of the brilliant outcome of export activities of the chief Russian arms exporter.

Mr. Igor O. Sevastianov, Head of the Department for exporting/importing land forces production spoke to our correspondent and expressed his opinion on the present and future of the Rosoboronexport and on the significance and perspectives of the IDELF-2006.

Mr. Sevastianov, could you possibly say a few words on the cooperation between Rosoboronexport and the Russian military-industrial complex?

More than 700 Russian enterprises and design bureaus that deal with military and dual-use production are involved in the foreign trade transactions. The Rosoboronexport grants credits and invests into the enterprises of the Russian military industry. Part of the Rosoboronexport profit goes into financing the perspective research and design projects. The Rosoboronexport serves as a guarantor for annual average crediting of 3-4 billion rubles for Russian enterprises. The Rosoboronexport representative offices function in the 25 regions of Russia in order to coordinate the activities of the Company. The priorities of the Rosoboronexport regional policy are as follows: the re-establishment of the cooperational ties of military-industrial complex, the joining of efforts of business corporations in the spheres of advanced technologies and raw materials, securing and amortization of the technological basis, the backing up of the experimental-design schools as well as giving support to the enterprise personnel training. The activities of the Rosoboronexport also aim at the joining of resources of the Russian military-industrial complex in order to manufacture advanced technological civil-purpose innovations. A set of export-oriented innovation projects has recently been compiled. It includes more than a thousand developments in the fields of science, technology and national economy. Many of them have no analogues in the world.

The Rosoboronexport performs 90% of Russia's export operations. During the years of its existence Rosoboronexport has gained the reputation of one of the leading companies in the global arms market. It is known as a reliable partner and as a dynamically evolving company. The leading enterprises of the military-industrial complex are interested in the close multi-dimensional cooperation with Rosoboronexport in the organizational, legal and economic fields, in particular, in the goal of designing, manufacturing and promoting of military materiel in the world market.

Rosoboronexport actively participates in the establishment of a helicopter holding and other industrial-defence structures of the Russian defence industry. The management of the Rosoboronexport State Corporation makes part of a number of the boards of directors of the export-oriented arms production manufacturers. Among them:

the Sukhoi company, the Almaz-Antey Air Defense Concern, the Admiralteyskie Verfi as well as the Tactical Missiles Corporation, the KAMAZ JSC, the Uralvagonzavod and many others. I'd like to point out that the Russian military-industrial complex considerably benefits from this kind of integration because arms export assists in solving not only, issues relating to the Russian military industry, but also socio-economic issues.

Could you, please, update us on the activities of the Rosoboronexport State Corporation on the regional arms markets?

The Russian Federation exports military and dual-use production to more than 60 countries of the world. China and India are now and will continue to be our principal partners in the military-technical cooperation in the near future. We have also succeeded in establishing more close cooperational ties with Malaysia and Vietnam. There is a large number of positive developments in the sphere of bilateral cooperation between Russia and quite a few states of Far and Middle East as well as between Russia and a number of African countries such as Algiers, Libya and Morocco.

Once again, I'd like to emphasize the fact that we pay a great deal of attention to intensifying the cooperation in the area of innovation projects. For instance, a number of innovation projects were presented and drew attention at the international exhibitions and fairs in Europe, South-East Asia as well as in Latin America and the Middle East. Many of them (more than 10, to be precise) formed part of the Russian-Chinese Programme of Military-Technical Cooperation.

Thanks to the targeted marketing and promotional activities, the Rosoboronexport has succeeded in firmly establishing itself on the Latin American market. A number of contracts has been made with Venezuela, Colombia, Mexico, Brazil and Cuba. The contracts with Venezuela on the supply of the combat and military-transport helicopters, Su-30MK multi-purpose fighters and on the shipment of the samples of the fourth-generation of Kalashnikov Assault Rifles proved to be a real breakthrough for the Rosoboronexport in Latin America. The contract on the delivery of motor vehicles to Uruguay is also of great significance. The necessary prerequisites have been created for expanding the activities of the Rosoboronexport into the markets of Chile and Ecuador.

The cooperation with the countries of Europe has also become more dynamic. Rosoboronexport has signed a number of prospective agreements with several European companies. These agreements are aimed at boosting the position of the Russian





Tank T-90S

experts also attended discussions on the implementation of weaponry and hardware projects, on improving the legislation in the military-technical area, on codification and standardization as well as on solving the problem of submarine and ship crews security and of upgrading the Soviet-made armament and military hardware in the countries of Central and Eastern Europe.

How important is the 1st International Defense Exhibition of Land Forces?

IDELF-2006 is of considerable importance. Our foreign partners will be able to see once more for themselves that the enterprises of the Russian military-industrial complex manufacture technologically advanced armament and materiel which, in some aspects, is as good or sometimes even better than its most recent Western analogues offered in the international arms market. A large number of Russian-manufactured samples of military hardware will be demonstrated at the IDELF proving ground. Among them: the T-90S Main Battle Tank, the BMP-3 Infantry Fighting Vehicle, the BTR-90, the BTR-80 and the BTR-80A Armoured Personnel Carriers as well military engineering vehicles, engineering reconnaissance means such as the Mine Obstacle Breaching Vehicles, transport means and trailers, power-plants and their systems and military vehicles' protecting means.

The attention of the participants and guests of the IDELF-2006 will also be drawn to the highly maneuverable BMP-3 Infantry Fighting Vehicle, that has several kinds of formidable weapon systems and to the highly efficient in combat Russian armoured personnel carriers: the BTR-80, the BTR-80A and the BTR-90. The BTR-80 Armoured Personnel Carrier is extremely mobile, has a powerful diesel engine and bullet-proof tires as well as a system to fire smoke screen projectiles, which gives a considerable advantage to the carrier on the battlefield. The BTR-80A Armoured Personnel Carrier is equipped with the highly effective 30 mm 2A72 Automatic Cannon and with a 7.62 mm PKT coaxial machine gun which permit the engagement of targets on top of stories of buildings when fighting in urban areas. The APC also features the TPN3-42 tank passive-active night sight and the OU-3M floodlight.

The BTR-90 APC boasts an incredible mobility and is

equipped with the 9K113M Konkurs-M ATGM, the 7.62 mm PKTM coaxial machine gun and with the 30 mm AGS-17 Automatic Grenade Launcher. All these characteristics make the APC indispensable in combat.

The missile and gun armament will be represented by the Khrisantema-S Self-Propelled Missile System, with the 9M123 and 9M123M missiles; the 9K115 Metis-M Anti-Tank Guided Missile System, the 9K111M Konkurs-M Anti-Tank Guided Missile System as well as by the 2B16 Nona-K Towed Gun and the self-propelled gun Nona-SVK. The latest technological developments in the field of constructing artillery systems have exemplified in the 120 mm 2 S31 Vena Self-Propelled Gun. Vena is designed to engage a wide array of targets. It differs from other self-propelled guns in that it can fire 120 mm Russian projectiles and mortar bombs. It also has the satellite survey data unit. The BMP-3 water-negotiating chassis makes the gun easy in maintenance and accounts for the gun's high maneuverability and effectiveness in combat. The weapon can be used by both army and marines.

The experts will also be able to appreciate the combat characteristics of the latest samples of Russian howitzers: 152 mm self-propelled howitzers Msta-S and Msta-B, the 125 mm 2S25 Sprut – SD Self-Propelled Anti-Tank Gun, the 122 mm Howitzer D-30A, the 82 mm 2B41 Podnos Mortar, the 120 mm Sani Towed Mortar Complex, the 120 mm 9K51 Grad Multiple Rocket System Upgrade.

The exhibition will also showcase the latest samples of optical and optronic means: 1PN93-1, 1PN93-2, 1PN-93-3, 1PN93-4 Night Sights as well as the LPR Laser Reconnaissance Device Karalon-M.

Of all the guided weapon systems, the 152 mm Krasnopol, KM-8 Gran guided artillery weapon system for 120-mm caliber mortars. As far as the Russian small arms are concerned, we will be able to watch the famous Kalashnikov assault rifles in action: AK-101, AK-102, AK-103 and AK-104. The visitors will also have a chance to appreciate the combat characteristics of the powerful and effective 30 mm AGS-17 and AGS-30 automatic grenade launchers as well as portable anti-tank grenade launchers RPG-7V1 and RPG-29, and of RPG-26, RPG-27 anti-tank rockets.

IDELF-2006 will also offer a wide range of special-purpose weapons: the 9 mm Byzon-2-01 sub-machine gun designated for firing the 9 x19 cartridges, the Kedr Sub-Machine Gun, the 12.7 mm OSV-96 sniper rifle and the APS special underwater assault rifle as well as the 9 mm SR-1 Gyurza self-loading pistol. The potential customers can also familiarize themselves with the latest developments in the field of the Russian ammunition such as the 5.56 mm RS-101 round with enhanced penetration bullet.

ASN

Federation in the domain of the interstate cooperation on the joint design, manufacturing and promotion of military products in the interests of the third party.

What has changed in the Rosoboronexport activities in Central and Eastern Europe?

The expansion of NATO entailed the necessity of adjusting the Eastern European countries' military materiel to the NATO standards. Hence, the Rosoboronexport orientates the Russian military-industrial complex to work out the necessary solutions on modernization of the Soviet/Russian-made military hardware so that it would meet the standards of the Northern Alliance armies. I would also like to stress that the latest Russian small arms samples such as the famous Kalashnikov Assault Rifles AK-101 and AK-102 have already been adopted to NATO standards. Not long ago an agreement between the Russian State Standard Agency (officially called the Federal Service of Technical Regulations and Metrology) and the NATO Cadre Group of National Directors on Codification signed an agreement. This agreement has set up a long-term contractual basis for cooperation in the sphere of arms and military standardization.

In recent years the representatives of the Rosoboronexport took part in a number of specialized conferences. In particular, they attended the sessions of the Conference of National Armaments Directors, the meetings of the NATO Maintenance and Supply Agency NAMSAs as well as the sessions of the specialized individual working groups. Company



BMP-3

KBM actively cooperating with the UAE army

Vladimir Shvarev



Dzhigit tripod-based twin-round launcher

KBM Engineering Design Bureau has been actively cooperating with the UAE army. The first Igla-1 MANPADS were delivered to the country late in the 1980s. Later a contract was signed to develop the Dzhigit tripod-based twin-round launcher for the UAE army and deliver 40 such launchers. The Dzhigits were mounted on the Nissan Patrol vehicles and intended to fire the Igla-1 missiles. The systems are still in service with the UAE army.

The Dzhigit launcher is compatible with the Igla and Igla-1 missiles. However, with the arrival of a new-generation missile, the Igla-S, the UAE army officials asked KBM to update the Dzhigit system so that it could fire these missiles, too.

Work in this area will continue in future. The UAE army is interested in a remotely-controlled missile system mounted on a vehicle. The compat-

ibility of such a system with other weapon systems is also being addressed.

The Strelets, a weapon system consisting of control equipment and launch modules, is KBM's new offering on the UAE market. Each module accommodates two missiles. The system may include two to four such modules. The firer can fire eight missiles one after another or in salvo. The mere idea of salvo fire originated from the joint work with the UAE militaries. None SAM system in the world can fire a salvo of such missiles because they deliver predicted fire on a target. The Strelets does this automatically, which enables salvo firing of two missiles.

The Strelets kit is versatile and can be deployed on various domestic and Western platforms (helicopters, sea and river ships, APCs and jeeps). **ASN**

Strelets systems have entered service with the Syrian army

In 2003, largely under Israel's pressure, Russia refused to sell the Igla MANPADS to Syria. Instead, Syria took delivery of Strelets launch module and control equipment kits. This new weapon system from KBM is intended to ensure automated remote salvo launch of Igla-type missiles from helicopters, ships, SAM and artillery systems. Each module houses two missiles. The Strelets kit includes two to four modules. The gunner can fire eight missiles successively or in salvo. **ASN**

Strelets module kit for firing Igla-type MANPAD missiles

Designed to ensure automated remote launch of Igla-type missiles in different modes (single, successive or salvo launches) from ground, sea and air platforms.

Variants of use:

- Mobile ground short-range SAM systems employing Igla-type missiles.
- Integration of Igla-type missiles with helicopters.
- Shipborne very-short-range SAM systems for light-class combatants.
- Fitting ships' antenna-posts and TV observation systems with Igla-type missiles.
- Equipping medium-range SAM systems and AA gun systems with Igla-type missiles.



Weapons – Igla-type missile inside a launch tube.

We Make Your Skies Peaceful

Almaz-Antey Air Defense Concern is the Russia's leading Corporation responsible for design, development and serial production of missile, anti-aircraft and anti-ballistic systems, all types of radars and surveillance systems for the ground forces and navies.

Concern comprises more than 40 research and production enterprises all over Russia.

Concern has been licensed by the RF Government as a direct participant of the military-technical cooperation with foreign nations to offer various upgrade packages for previously supplied ADS, spare parts delivery, maintenance, after-sales support as well as offset programs.

35 nations worldwide have become Almaz-Antey customers to enjoy peaceful skies with unbeatable air-defense umbrella.



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Almaz-Antey Air Defense Concern - the World's Leader in Air Defense



Vladislav V. Menshikov, Almaz-Antey Concern Director General

Almaz-Antey Air Defense Concern was created in mid 2002 due to the Russian President's Decree No.412 of 23.04.2002 and the Russian Government's resolution No.480 of 28.06.2002. According to those documents the principal purpose of the Concern is:

- to retain and promote development of research and manufacturing capacity of radio-electronic industry;
- to secure defense capability of the country;
- to pool resources for funding programs aimed at creation of systems, complexes and equipment for anti-aircraft and tactical anti-missile defense.

Priority activities of Almaz-Antey are development, production, modernization, sale, in-country maintenance, repair and recycling of anti-aircraft and anti-missile systems, complexes and equipment for federal agencies and foreign customers. Its working philosophy rests on the principles of common standards and unbroken production cycle from design stage and manufacture of an experimental military hardware prototype to its production and subsequent maintenance throughout its service life.

At present, Almaz-Antey combines 40 odd plants, research institutes and design bureaus and is the largest holding company of Russia's military industrial complex. The holding has a high capacity for design and manufacture, featuring all the required assets for building the country's not only anti-aircraft and anti-missile but also airspace defense. The Concern includes developers and manufacturers of long-, medium- and short-range air

defense systems, equipment for intelligence gathering, control and communication, as well as companies engaged in maintenance and warranty servicing, many of which produce not only military but also civil high-technology goods. Among integrated entities of the Concern are the Research Institute of Electrical Engineering, A.A.Raspletin Research and Production Association (NPO Almaz), Soyuz Experimental Design Bureau (OKB Soyuz), Fakel Machine Design Bureau (MKB Fakel), Moscow-based Agat Research Institute (MNII Agat), Altair Research and Production Association (NPO Altair), AVITEK, Kupol, Arsenal manufacturing facilities, Moscow-based Avangard Machine Building Plant, Ulyanovsk Mechanical Plant and others. Those employ over 100,000 people. The list of arms and military equipment manufactured by Almaz-Antey includes the following items:

- land-based long-range air defense systems: S-300PMU, PMU1, PMU2, S-300VM (Antey-2500) long-range anti-aircraft systems, Buk-1,2 anti-aircraft medium-range missile systems, Pechora-2A, Osa-AKM, Tor-M1, anti-aircraft short-range missile systems, Tunguska-M self-propelled air-defense gun and missile systems;
- seaborne air-defense systems: Rif-M, Kinzhal/Klinok, Shtil-1 anti-aircraft missile systems;
- reconnaissance and intelligence gathering equipment: medium and high-altitude radars (Gamma DU, Gamma-S1, Gamma-S3, Nebo-SVM, Obzor-3M), low-altitude radars (Gamma-BD, Podlyot, Kasta-2E2), all-altitude radars (Furke, Mars-Passat-1, 1L117, 1L118), land forces' radars (1L111, 1L121, 1L144, 1K114, Zoopark,

Skrytnost, Kreda) and Pozitsiya electronic surveillance system;

- control and communication equipment: Universal-1, Fundament-1,2,3, Baikal-1M, Senezh-M1, Rubezh-M, Barnaul and Krym-1,2,3.

Since 2003, Almaz-Antey has been prime contractor to the national defense order (NDO). In 2004, under the NDO the holding has done work related to 49 state-sponsored contracts for the Russian Defense Ministry.

The defense products of Almaz-Antey are not only quite competitive against foreign counterparts, but even surpass them in some tactical and technical characteristics, due to which fact they are steadily in demand on the global arms market.

The entities incorporated by Almaz-Antey fulfill orders for supply of equipment and spare parts, repair and maintenance of previously supplied arms and military hardware, carry out research and development for the countries of Europe, Middle and Far East, South and Southeast Asia and Africa. Among promising export orders in the period till 2010 are the supply of Favorit (Favorite) weapon system, which is an improvement on the S-300 PMU1 anti-aircraft system, reworking of the previously supplied S-300 anti-aircraft systems, upgrading of S-125 anti-aircraft system to the Pechora-2A standard, supply of Tor-M1 anti-aircraft missile systems and several types of radars plus conducting of research and development.

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