



KRET at MAKS 2013

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Press Release*

KRET (Concern of Radio and Electronic Technologies) at MAKS 2013, the International Air and Space Show (which is part of Rostech, a state-run corporation) is going to show some next-generation products for civil and military application that have already been successful throughout the world. There are more than 70 unique products you can't find anywhere else in the world for radar and navigation of drones and manned aircrafts, on-board equipment, weapon control and country identification systems, air measuring equipment, surveillance and targeting systems.

In order to exhibit its new products at MAKS 2013 KRET has constructed a 1,500 square meter high-tech exhibition hall.

A special display here will be dedicated to MS-21, a long-range aircraft, the first promising product of Russian civil aviation over the last 25 years. It is for this aircraft a unique set of on-board equipment based on module avionics is being developed by such KRET enterprises as Moscow Institute of Electromechanics and Automation ("MIEA" JSC), Ulyanovsk Instrument Manufacturing Design Bureau ("UKBP" JSC), OAO "Aviapribor-Holding" Subholding Company. Some innovation components of MS-21 will be on display such as a data-processing and computing unit of the steering system of MS-21 developed by MIEA. Aviapribor-Holding will show information and control facilities of the cockpit and UKBP will exhibit aircraft equipment control systems, air measuring equipment and the on-board surveillance system.

In addition there also will be a number of devices for a multipurpose fifth generation missile carrier T-50 such as an analog to digital converter BKS-50, a small speed measuring device SIMS-50 and a warning light system SSS-50. MIEA will show a cutting-edge strapdown inertial navigation system BINS-SP-2 which is installed on T-50 and on 4++ Su-35, a super maneuverable multipurpose new generation fighter. This equipment can automatically and without outer signals spot the position data and profile of a flying aircraft. It can work at temperature extremes (from – 60 to 60) at a height of up to 25 kilometers. However the system costs 40 percent cheaper than its foreign counterparts, while the performance characteristics of BINS-SP-2 are much better than those of non-Russian manufacturers. Amongst new products for Su-35 there are an integrated flight control and radar system KSU-35 made at MNPk Avionika and a weapon control system by Kurskpribor which can lock in, track and deal with a target as well as many other new devices developed by Avionika enterprises.

Another exhibition hall of KRET will be a display of modern air surveillance radars such as IRBIS-E, an air traffic control radar beacon system manufactured by GRPZ for Su-35. It is based on a passive phased-array antenna (PFAR). The system is capable of "seeing" from a distance of 400 km, spotting the class, type of flying targets and identifying whether it is friend or foe.

One of the newest products displayed at the exhibition will be Zhuk-AE FGA and FGA 35, an on-board air traffic control radar beacon system for MiG-35 with an active phased-array antenna



manufactured by Fazotron-NIIR Corporation. This system enables one to simultaneously track many targets by controlling the ray electronically. The system can detect and lock in a foe object which is afloat, overland and in the sky as well as to identify its class, type and dimensions and perform navigation tasks.

At MAKS-2013 GRPZ will also exhibit an on-board air traffic control radar system H-025E for a military helicopter Mi-28NE which can spot moving and stationary targets, detect their position data and track up to 4 ground objects simultaneously.

Fazotron-NIIR Corporation will show Arbalet FH01, an air traffic control radar system for helicopter Ka-52. This state-of-the-art equipment is capable of detecting an enemy in almost all kinds of weather. It can also apply weapons, perform navigation and mapping tasks. Among other types of equipment Fazotron-NIIR is going to show a small digital multipurpose dual-band on-board air traffic control radar system. This system can be used off-line and easily installed on any carrier, which makes it possible to use it on drones.

Also at the exhibition visitors could see PKV-8, an automatic flight control system (AFCS) developed by Saratov Industrial Automatics Design Bureau JSC (KBPA JSC). This equipment improves the controllability and stability of multipurpose helicopter Mi-8/17. It enables an automatic attitude flight control of the helicopter at all flight modes. Besides PKV-8 makes it easier for a pilot to steer in an automatic, direct and combined mode.

One of the most anticipated products of MAKS-2013 will be Mi-171A2, a civil helicopter whose on-board flight navigation system KBO-17 has been entirely developed and manufactured by UKBP. The equipment makes it possible to fly without a flight engineer. It also makes the helicopter more reliable and reduces repair and maintenance costs. In the exhibition hall of KRET visitors could try out a helicopter simulator developed by UKBP and Scientific and Technical Center Dinamika and feel themselves pilots of Mi-171A2.

Also at the exhibition visitors could see a mockup cockpit of Be-200ChS, an updated multipurpose amphibian aircraft developed by the Institute of Aircraft Equipment (NIIAO). The aircraft can take off both from ground and water and has some specifications that make it a real one-off in the world. The Be-200ChS is used in fire extinction operations, in patrolling water surfaces and transporting passengers and cargoes.

The core of KRET's business is the development and manufacture of high-performance electronic warfare equipment. KRET's enterprises such as "NPO Kvant" (Novgorod), Bryansk Electromechanical Plant, VNII Gradient, FSUE NII Ekran, KNIRTI (Kaluga) will show at the international exhibition world-class quality intelligent electronic warfare equipment and systems applied on water, on land and in the sky. These pieces of equipment are based on state-of-the-art technologies that enable one to pinpoint various types of electronic devices and deal with them in real time.

In KRET exhibition hall there will be a wide range of radio and electronic devices developed by some other KRET enterprises, here are some to name a few: low-frequency connectors made at "Atlant" factory, electric connectors made at "Elektrodetal" factory (Karachaevsk), alarms and pressure sensors made at A.I. Glukharev Development Centre "Signal" (Engels), radar



Rostec

interrogators manufactured by GRPZ and NPO Radioelektronika n.a. V.I. Shimko, radar responders manufactured by Radiopribor (Kazan).

Also at the exhibition hall there will be mockups of such aircrafts as MS-21, Tu-22M3, Su-35 and helicopters Mi-28N and Mi-171A2. Inside these mockups there are small copies of the equipment manufactured by KRET enterprises.

KRET is Russia's greatest manufacturer of engineering products used for both defense and civil purposes. It was founded in 2009 and now is part of Rostech, the state-owned corporation. KRET is the developer and manufacturer of electronic warfare devices, avionics (electronic circuits and devices for air vehicles) country identification systems, measuring equipment applied for different purposes, electric connectors and cable systems, different types of household appliances and medical devices. The corporation comprises 97 organizations in 28 regions throughout Russia. It employs more than 60 thousand people. Its products are supplied to 60 countries.

Rostec State Corporation (Rostekhnologii) is a Russian corporation, established in 2007 to promote development, production and export of high-tech industrial products for civil and military purposes. It includes 663 organizations, which currently form 8 holding companies in the defense-industrial sector and 5 holding companies in civilian industries. The organizations of Rostec are located in 60 constituent entities of the Russian Federation and deliver products to the markets of more than 70 countries. In 2012, the revenues of Rostec amounted to 931 billion rubles, with net profit amounting to 38.5 billion rubles. Tax payments to budgets of all levels exceeded 109 billion rubles.

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