



**PoCTEX**

## **Rostec presents modernized robotic nurse**

*Press release*

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**Concern Tecmash (part of Rostec) has presented the first sample of modernized Angel automated diagnostic and therapeutic system for human life support at the BIOTECHMED forum. The robot can perform new diagnostic functions, and it also became less heavy and more compact.**

The robotic nurse is to provide medical care during primary diagnostics, automated control over vital functions of an injured person, and to ensure invasive administration of prescribed drugs in accordance with a specific algorithm. Currently, the Angel diagnostic systems are already used by EMERCOM of Russia and several regional medical institutions.

Modernization of the system considerably increased Angel's diagnostic capability. It will be able to record a synthesized 12-lead electrocardiogram and decipher it, measure respiration characteristics, conduct non-invasive cardiac output monitoring, and add height, weight and sex of a patient and data from an electronic stethoscope. The complex can transfer all these data via telecommunication channels and select a mobile network operator with the strongest signal. The system became even more compact after the modernization. Its weight was reduced from 22 kg to 8 kg.

Angel uses the data to diagnose traumatic and burn shock, intoxication, head injuries, radiation sickness, hemorrhagic shock, acute cerebrovascular accident, hypo- and hyperglycemic coma, acute respiratory distress syndrome (ARDS) of adults, bronchial asthma, arrhythmogenic disorders of cardiac functions, septic and cardiogenic shock, pulmonary thromboembolism, and acute coronary syndrome.

"High-tech developments used in healthcare, including Angel, ensure higher quality of medical care provided for the population, and its availability. Functions of the system combine the competences of several medical professionals specializing in relevant spheres, which is of critical importance when there is a lack of doctors. For instance, during man-made disasters and in an emergency, in remote residential areas or when a patient is transported," says **Executive Director of Rostec Oleg Yevtushenko**.

**The BIOTECHMED forum** is held in Gelendzhik from September 9 through September 11, 2018. It is a combination of an academic conference (in terms of giving experts an opportunity to exchange opinions) and a display area to provide for relevant and objective assessment of industry development prospects and making informed decisions. BIOTECHMED aims to make market participants interested in synergy to ensure transition



## Rostec

to medicine of new generation and to form common understanding of problems, tasks and opportunities. The conference will be attended by more than 1,500 representatives of the business and academic community of Russia and other countries.

**Concern Tecmash** was established in 2011. Concern Tecmash specializes in the development and production of ammunition supplies for the combat capabilities of the main strike forces of the Armed Forces. Highly effective modern weapons produced by Tecmash are used by the armed forces of more than 100 countries. Key activities of Tecmash include development and production of multiple launch rocket systems, small-caliber ammunition for ground forces, the Navy and the Air Force, engineer ammunition, aerial bombs, RPG, melee weapons, field and naval artillery, explosives, etc. Civilian products include fuel for the fuel and energy complex, industrial and medical coolers, agricultural machinery and consumer goods. Vladimir Lepin is Director General of Tecmash.

**Rostec Corporation** is a Russian corporation that was established in 2007 to facilitate the development, production and export of high-tech industrial products designed for civilian and military applications. The Corporation comprises over 700 organizations that are currently part of eleven holding companies operating in the military-industrial complex and four holding companies working in civilian industry, as well as over 80 directly managed organizations. Rostec's portfolio includes well-known brands such as AVTOVAZ, KAMAZ, Concern Kalashnikov, Russian Helicopters, UralVagonZavod, etc. Rostec companies are located in 60 constituent entities of the Russian Federation and supply products to the markets of more than 100 countries. In 2017 the consolidated revenue of Rostec reached 1 trillion 589 billion rubles, while the consolidated net income and EBITDA amounted to 121 and 305 billion rubles respectively. In 2017 the average salary in the Corporation was 46,800 rubles. According to Rostec's strategy, the main objective of the Corporation is to ensure that Russia has a technological advantage in highly competitive global markets. Rostec's key objectives include the introduction of a new techno-economic paradigm and digitalization of Russian economy.

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