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Rostec to create parachute for Russia's Ratnik next gen combat system

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Press release

Rostec is working on a parachute system integrated with promising Ratnik gear. The news was announced by CEO of Rostec Sergey Chemezov during the opening ceremony for the new parachute equipment manufacturing complex in Kirzhach. The R&D work within the State Corporation is prepared by the Scientific Research Institute of Parachute Construction of Technodinamika Holding Company.

The new D-14 parachute system is intended for the personnel of the airborne troops. The product has a minimum canopy area — 87 sq. m, which reduces visibility during landing and improves the safety of the fighters. The system uses fabric with varying degrees of air tightness, which improves the overall controllability of the parachute.

"The gear of the Russian troops and its requirements are constantly developing. We bundle elements of equipment in a single ecosystem, including the means for landing, which should be as high-tech and convenient as possible. The parachute created for Ratnik considers all features of the equipment. It has a new fastening system, and the maximum load is increased up to 160 kg, making landing with an extensive amount of ammunition possible", said Rostec's CEO **Sergey Chemezov**.

The design of the parachute allows more precise regulation of the descent rate. A flatter canopy allows better control of the horizontal speed.

"The prototype of the new parachute has already passed preliminary tests", said the CEO of Technodinamika **Igor Nasenkov**. "I am confident that the experience and scientific base of our specialists will allow us to create a system integrated with Ratnik gear following the highest standards".

The promising D-14 parachute system that is being created within the Shelest research and development project is not only of interest to the Ministry of Defense. Firefighters of the aerial forest protection service, rescuers from the agencies within the unified aerospace search system and EMERCOM staff can also use it.

The new production line of the Scientific Research Institute of Parachute Construction that has been opened in Kirzhach today will increase the production of domestic parachute systems threefold — to over 2,000 units per year. The enterprise will produce all major types of parachute systems: freight, special, ammunition, brake, space, human and others, including with a large canopy area over 1,000 sq. m.



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Rostec is a Russian State Corporation established in 2007 with the purpose of facilitating the development, manufacture and export of high-tech industrial products for both civil and military purposes. It incorporates over 700 entities that currently form 11 holdings operating in the military-industrial complex and 4 holdings active in civil industries, as well as over 80 directly supervised organizations. Rostec's portfolio includes such well-known brands as AVTOVAZ, KAMAZ, Kalashnikov Concern, Russian Helicopters, VSMPO-AVISMA, Uralvagonzavod, and others. Rostec companies are located in 60 regions of the Russian Federation and supply products to the markets of over 100 countries. In 2017, Rostec's consolidated revenue reached RUR 1.589 trillion, its consolidated net profit was RUR 121 billion, and EBITDA - RUR 305 billion. According to Rostec's Development Strategy, the mission of the Corporation is to ensure Russia's technological advantage on highly competitive international markets. One of Rostec's key goals is to implement new technological way of living and to promote digitalization of Russia's economy.

Technodinamika Holding Company specializes in the development, manufacture and after-sale servicing for systems and equipment for civil and military airplanes and helicopters. The holding also produces components and accessories for oil and gas industry, automobile production, transport and energy. Technodinamika includes 25 enterprises throughout the country, located in Moscow, Moscow region, Ufa, Samara, Yekaterinburg, Arkhangelsk region and other Russian regions form part of the Company. It is a member of Rostec State Corporation.

Comparative characteristics

Characteristics	T-11 (USA)	D-10 (Russia)	D-14 (Russia)
Speed of descent at maximum flight weight (meters per second)	5.48	5.0	5.0
and a flying weight of 90 kg	4.0	4.5	3.5
Horizontal velocity during decreasing (meters per second)	0	0-2.5	0-5.5
Canopy area (square meters)	115	100	87
Parachute packing (min)	17	45	15