



New Mi-171SH Storm arrived at the "Army-2021" under its own power from Ulan-Ude

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The upgraded Mi-171Sh Storm military transport helicopter arrived under its own power from Ulan-Ude aviation plant of "Russian Helicopters" (Rostec State Corporation) at the international military-technical forum "Army-2021". The five thousand kilometers flight took five days.

"The multifunctional special forces helicopter has become a breakthrough product in Ulan-Ude Aviation Plant's lineup. It embodies several solutions that significantly increase its combat effectiveness and survivability," says Alexey Kozlov, managing director of Ulan-Ude Aviation Plant. – Crew members, maintenance personnel and landing group commanders gave their suggestions on how to improve aircraft. The main task has been to provide security for all participants of the operation.

The Mi-171Sh Storm helicopter is specially designed to carry out counter-terrorism missions by special forces. The helicopter is equipped with "high-altitude" increased power engines, a new rotor system with an improved profile composite main rotor and X-shaped tail rotor, an integrated flight and navigation system, and most importantly - an improved composition of weapons and defense systems.

Improving crew and trooper safety was one of the key goals of the upgrade. That is why the Mi-171Sh Storm has improved armor protection on the fuselage, which guarantees mission performance even in fire resistance counteraction. In particular, the onboard defense system provides enhanced survivability and protection. The onboard defense system (ODS) can detect anti-aircraft missile launches and jam portable anti-aircraft missile systems (MANPADS). The innovation can detect missile launches with infrared and thermal homing heads and knock them off course with jammers and decoys. ODS



can also detect enemy radars, determine their irradiate direction, the type of radar, and its operation mode.

The onboard defense system has an innovative feature to instantly display aerosol smoke screens to cover up the loading and unloading of troops. This will protect from, among other things, detection by thermal imaging devices.

Combined titanium and aramid armor helicopter's protection and other structural measures also increase combat endurance and safety. The troops in the cargo cabin, as well as the most important components and crew protected by armor. For troops protection, the cargo cabin floor is fully covered with removable lightweight kevlar armor. The same armor is installed along with the port and starboard side up to the level of the portholes. The Mi-171Sh Storm provides energy-absorbing landing seats for "hard landing", which improves the survival of troops. With two sliding doors and additional hatches, the Mi-171Sh Storm's troops landing capabilities have been significantly expanded.

To reduce military equipment visibility specialized pixel helicopter coloring is designed - four-color "digital" camouflage.

Large-caliber machine guns "Kord" (caliber 12.7 mm) has been installed to expand aviation weapons range. The aircraft is to be equipped with a modern observation optoelectronic station, including TV and thermal imaging channels, as well as a laser rangefinder. Along with small arms and gun machines, unguided rockets and bombs of various calibers, the helicopter is also equipped with a guided missile system including sighting and targeting system, which allows to fight against air and ground targets, destroy enemy's fire points and armored vehicles.

"Russian Helicopters" Holding (part of Rostec State Corporation) is one of the world leaders in the helicopter industry, the only Russian helicopter designer and manufacturer. Holding were established in 2007. Its headquarters are located in Moscow. The holding company includes five helicopter plants, two design bureaus, factories for components production, aircraft repair plants, and a service company providing after-sales support in Russia and abroad. The Russian Ministry of Defense, the Russian Interior Ministry, the Russian Emergency Ministry, other government agencies, "Gazprom Avia" and UTair airlines, large Russian and foreign companies are buyers of holding's products.



Rostec State Corporation is one of the largest industrial companies in Russia. It unites more than 800 scientific and production enterprises in 60 country regions. Key areas of holding's activities are aviation engineering, radio electronics, medical technologies, innovative materials, etc. The corporation's portfolio includes such well-known brands as AVTOVAZ, KAMAZ, UAC, Russian Helicopters, Uralvagonzavod, Shvabe, Concern Kalashnikov, etc. Rostec is actively involved in all 12 national projects implementation. The company is a key contributor to Smart City technologies, state administration digitalization, industry, social sectors, 5G wireless technology developing plans, the industrial Internet, big data, and blockchain systems. Rostec acts as a partner of the world's leading manufacturers, such as Boeing, Airbus, Daimler, Pirelli, Renault, etc. The corporation's products are shipped to more than 100 countries around the world. Almost one-third of the company's revenue is generated by high-tech products export.

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