

The Flyter startup has published a video about the tests of the propeller-motor group for the Flyter JR cargo drone with a take-off weight of up to 30 kg and a payload weight of up to 10 kg: <https://youtu.be/tGE0VPTIxfw>

As part of the first stage of the project, implemented with the grant support of the [Innovation Assistance Fund](#) under the Start-1 program, we built a stand and tested lifting propeller-motor groups on it. As a result of the tests, we selected the composition of the propeller-motor group from the components of the [Mad Motor](#) company, which has the best characteristics for our task. In particular, we found that the selected lifting propeller-motor group at nominal thrust (1/4 of 30 kg = 7.5 kg), shaded by the wing, consumed 13% more energy than the same propeller-motor group free from shading. And during a five-minute test at rated thrust, this propeller-motor group consumed an average of about 960 watts of power, and its motor heated up by only 41 degrees.



In July 2021, we plan to start assembling a prototype of the Flyter JR, and in the fall 2021, we will proceed to flight tests, which should confirm the energy efficiency of the selected scheme (using the flyt-effect) in the take-off and landing mode, as well as in the cruising flight mode.

In addition, Flyter is looking for investments (10 million rubles) to create and launch a line of light drones built according to a similar scheme to Flyter JR, but designed not for cargo transportation, but for aerial photography and monitoring tasks.