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Russian technology startup Flyter presented a video illustration of the advance project of the universal aircraft family PAC VTOL 720-200.



The concept of a universal aircraft allows you to create a family of modifications designed for different tasks on the basis of one machine. First of all, the startup plans to create a prototype of a cargo drone with a payload weight of 200 kg, vertical take-off and landing and a hybrid power plant that allows this model to deliver cargo to remote and inaccessible areas 2 times cheaper and significantly more often than a helicopter. Together with the UAV, it is planned to pilot an LSA class aircraft without vertical take-off/landing, which will be in demand among the pilots of the GA. Finally, the third basic modification is an unmanned air taxi with vertical take-off, which at the request of the customer can be transformed into a manned aircraft, as well as a cargo drone.

<https://youtu.be/5V8PeO1DZhy>

All basic modifications as a main engine will have a gasoline engine and a flight range of about 900 km, but fully electric versions that can be used to deliver people and goods over short distances of about 160-180 km will be developed, as well as for the LSA class aircraft up to 400 km.

In the nearest future, the Flyter team plans to begin the creation of a full-size stand-demonstrator of the flyt-effect, which is a wing console with screw groups placed under it. The method of placing the lifting screws under the structural elements of the airframe filed a patent application. In addition, detailed calculations and optimization of aerodynamics of structural elements and the entire aircraft are planned.