



Full-stack UAV solutions for Industrial Applications

FIXAR is a European software and aircraft design developer for industrial applications. Founded in 2018 by aerospace developer Vasily Lukashov, the company holds a patented design that is simpler and more reliable than other configurations. The company began selling its products in Eastern Europe and Central Asia at the close of 2019, and closed 2021 with 45 established partnerships in Canada, USA, EU, Japan, India and South Africa.

The company's flagship model is FIXAR 007, which is a UAV dedicated to outdoor VLOS and BVLOS missions. The FIXAR 007 takes off like a helicopter and flies like an airplane. Technically, this is referred to as a Fixed-Wing Vertical Take-off and Landing vehicle, or VTOL. It's a hybrid design that offers the convenience of a quadcopter but has the range and efficiency associated with a traditional winged design. It can take off and land anywhere, and no cumbersome launchers or capture devices are required.

Most VTOL drones with wings require that the angle of the motors change when transitioning from vertical to horizontal flight. FIXAR uses a patented *Fixed Angle Rotor* system, meaning fewer moving parts or potential points of failure. Transitions are seamless, and all motors are in use throughout missions. Unlike designs that shut down motors during forward flight, the FIXAR has no "dead weight."

[Video: how FIXAR 007 works.](#)

This configuration, in conjunction with its two-kilogram (4.4lb) payload capacity, makes the FIXAR ideal for a multitude of tasks. These tasks include: aerial photography and mapping/photogrammetry, laser scanning (LiDAR), last-mile delivery, precision agriculture, critical infrastructure monitoring and more.

The FIXAR team has designed and developed a professional multirotor INDOOR drone for indoor mapping, inspection, monitoring, surveillance, inventory, and exploration. The company constantly works on new software and solutions development considering the industrial needs. Currently the company is developing an outdoor FIXAR 025 model with a payload capacity of 10kg (22 lbs) and flight distance of 300km (186 mi).

Key facts

Headquarters	Riga, Latvia
Year of foundation	2018
Number of employees	33
Dealerships	45
y-o-y growth	1.6x
Sold units (16-month period)	55
IP	Patents: 1) FIXAR 007 aerodynamic design 2) agricultural payload module 3) FIXAR 025 provision application FIXAR industrial design certification xGroundControl Software certification Autopilot certification FIXAR™ brand name and trade mark

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