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# Mikropriborov Laboratory

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The main activity of the company is focused on the creation of inertial sensors based on microelectromechanical systems. The company develops analog and digital circuitry solutions, designs topologies and forms orders for contract production of integrated circuits, develops domestic elements of electronic component base: sensing elements, products based on them, inertial and measuring modules, pressure sensors and shock sensors.

## History of the company

Mikropriborov Laboratory was founded in 2012 by a young team of graduates from the National Research University of Electronic Technology, when it received the first samples of gyroscopes based on microelectromechanical systems. Already in 2013, mass production of angular velocity sensors was launched, and in 2014 the first Russian microelectromechanical systems accelerometer was released, fully made on the domestic element base. In 2015, the team of Mikropriborov Laboratory developed the inertial module GKV-10, which in 2019 became the first inertial measuring device (registered in Rosstandart).

In 2016, the Expert Council of the Ministry of Economic Development made a positive decision to include Mikropriborov Laboratory in the Special Economic Zone of Technological Innovation Type in the city of Zelenograd. In 2017, the company introduced and annually confirms the quality management system in accordance with the requirements of GOST R ISO 9001-2015 standart.

The Foundation for Assistance to Small Innovative Enterprises in Science and Technology has twice supported innovative projects of the Mikropriborov Laboratory: in 2018, Research&Development was carried out, within the framework of which the inertial navigation system GKV-11 was developed, and from 2019 to 2021 a project on commercialization of the results obtained, expansion of own production and sales volumes of innovative products is being implemented.

The company uses the services of contract manufacturing to perform individual technological operations on the most modern and high-precision equipment, widely used technological capabilities of Zelenograd for the production of printed circuit boards, fragments of silicon production, installation of microelectronic components.

Since 2020, Mikropriborov Laboratory has been actively increasing production facilities for installation of laboratory and test equipment and developing its own silicon production.

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## Products

The company's products are focused on the market of civil and special applications of inertial technologies. The peculiarity of the products is that they occupy a niche at the junction of budget systems of wide consumption and very expensive high-precision systems based on fiber optic, laser and other gyroscopes, forming a competitively attractive product with a good price-quality ratio.

Mikropriborov Laboratory not only produces inertial modules, but also provides calibration of axes neorthogonality in the working temperature range, and develops algorithms for processing the sensor output signal on the basis of behavioral models of the object (unmanned aircraft, cars, water transport).

Mikropriborov Laboratory products include sensors with small mass dimensions (GKV-5/6) for unmanned aerial vehicles, modules for cars and helicopters (GKV-10/11) with increased noise immunity, as well as simple inertial systems for general use.

Inertial navigation systems of Mikropriborov Laboratory confirmed high competitive ability compared to imported counterparts.



Prospects for the development of production and market at an affordable level of technology is hugely high. Opportunities and demand for microelectromechanical systems' sensors will steadily grow for a long time.

Photo: Areas of use: unmanned transport, unmanned aircraft vehicle, satellite dishes, geodesy

## Export

At present, the company's products are exported to Belarus, and work is underway to export them to Kazakhstan and Germany, as the most promising and affordable markets. In the future it is planned to enter the markets of European Union countries: Switzerland, Austria, etc. The company's products will be exported to the Republic of Kazakhstan and Germany as the most perspective and accessible markets.

For more effective promotion of Mikropriborov Laboratory products in the domestic and foreign markets, distribution contracts were concluded with AVI Solutions (a member of the National Association of Robotics Market Participants and Favorit-EK).



## Main facts

1. Mikropriborov Laboratory is a resident of Zelenograd special economic zone of technical innovation type.
2. Inertial module GKV-10 was recognized as a type of measuring instrument after successful testing in D. I. Mendelev Institute for Metrology and introduced in Rosreestr. This is the first inertial module, which is a measuring instrument.
3. It was supported in 2017. the Foundation for Innovation Promotion of the Project under the competition Development-NTI II created a unique universal inertial navigation module based on microelectromechanical and satellite navigation systems for marine and automotive applications. And in 2019, the company received support from the Foundation for Development of this project through the Commercialization-9 contest.
4. In 2019, the company developed new inertial modules with small mass dimensions for unmanned aerial vehicles, robots and satellite antennas.



# Contacts



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