Made in Russia

Companies. Brands. Exporters. Electronic industry

NT-MDT

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NT-MDT employs 53 highly qualified specialists, including two Doctors of Science and eight candidates of science. Many of the company's employees are graduates of Moscow Institute of Physics and Technology, National Research University of Electronic Technology, Moscow Aviation Institute, Bauman Moscow State Technical University and other well-known universities. The company employs specialists who have been successfully developing new models of complex scientific equipment for over 30 years. During the past period NT-MDT received seven patents for inventions (2695517, 2695027, 2616854, 2628673, 2629538, 2664783, 2698953), and also developed, registered and certified software of the latest generation for the control of scanning probe microscopes, processing and analysis of data obtained from them (NOVA PX), an expert system to optimize the work on scanning probe microscope ScanTronic, as well as service programs: NTEGRA Base Firmware, PX ULTRA Firmware, PX ULTRA Loader (certificate numbers: 201910977, 2019614250, 2019661211, 2019661212, 2019661284).

The company's head office is located in the Technopark ELMA. In addition, NT-MDT has offices in Ireland, USA and China, as well as a network of distributors in more than 30 countries.

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Products

NT-MDT products are well known both in Russia and worldwide under the registered trademarks - NT-MDT and NT-MDT Spectrum Instruments.

"Scanning probe microscopes and combined systems based on them are unique scientific tools for research with nanometer resolution in micro- and nanoelectronics, the development of new polymers and composite materials, the study of the properties of metals, as well as in biotechnology and nanomedicine, including new methods of diagnosis of diseases," - said the representative of the company.

"With the use of ScanTronic intelligent software module all our probe microscopes, working under the control of NOVA PX software, acquire a new quality, significantly facilitating the use of the most common atomic-force microscopy method - amplitude modulation (semi-contact). ScanTronic module is useful both for beginners and experienced users, providing high-quality reliable results, allows you to automatically obtain artifact-free images with reduced to a minimum level of noise" - explained in the company.

At the same time, the automatic adjustment of scanning parameters and image processing is carried out through the use of neural network ideology. Requires minimal knowledge about the properties of the sample. "Scanning probe microscopes and combined systems based on them are unique scientific tools for research with nanometer resolution in micro- and nanoelectronics, the development of new polymers and composite materials, the study of the properties of metals, as well as in biotechnology and nanomedicine, including new methods of diagnosis of diseases," - said the representative of the company.

Scanning examples

The main products of NT-MDT are: - universal scanning probe microscopes NTEGRA;

- automated scanning probe microscopes NEXT II;

- scanning probe microscopes for scientific and educational tasks

SOLVER NANO and NANOEDUCATOR II;

- scanning probe microscopes for samples up to 200 mm or VEGA sample arrays;

- combined system of scanning probe microscopy and CR spectroscopy methods NTEGRA SPECTRA II;

- combined system of scanning probe microscopy and methods of NTEGRA nanoIR IR spectroscopy;

- Combined system of scanning probe microscopy, CR spectroscopy methods and methods of ion-conducting microscopy NTEGRA MARLIN.

Export

NT-MDT products are in demand in more than 50 countries on all continents. The majority of supplied devices are in Russia, USA, China, as well as in Western Europe, Asia, including South Korea, Japan, Taiwan, Vietnam, India, as well as in Canada, Mexico, South America and Africa. Several scanning probe microscopes have been installed in Australia as well.

Participation and Membership

NT-MDT conducts active exhibition activity, participating in various scientific conferences and exhibitions of scientific equipment manufacturers in Russia, as well as in the U.S., Europe, China and other regions of the world.

NT-MDT is a participant of the project Skolkovo, a member of the Moscow Innovation Cluster, and in 2020 the company became a member of the Moscow Chamber of Commerce and Industry.

In 2019, the Moscow Government awarded the Young Scientists Award for the activities in 2018. Three leading developers of NT-MDT became winners of this award for the development of scanning near-field optical microscope with nanometer spatial resolution for visible and infrared bands.

Facts about the company:

1. NT-MDT received seven patents for inventions.

2. NT-MDT has developed, registered and certified the software of the newest generation for control of scanning probe microscopes, processing and analysis of data received from them (NOVA PX), expert system for optimization of work on the scanning probe microscope ScanTronic and others.

3. NT-MDT products are in demand in more than 50 countries on all continents.

4. NT-MDT is well known both in Russia and all over the world under the registered trademarks NT-MDT and NT-MDT Spectrum Instruments.

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Сделано в России

Made in Russia

The Made in Russia project is a digital trading and media platform. It includes a business information agency Made in Russia in 12 languages, as well as a digital trading house selling and promoting goods and services abroad. Companies registered on the platform receive the right to use the Made in Russia project logo, access to a loyalty programme, services and facilities.

Brand page
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