



ATEKO-TM

PRESENTATION

About company

We are the only company in the world manufacturing laser equipment which consists only of components made in house.

One of the key components of laser systems is the module to position the laser beam. It is based on the galvanometric laser head. Our galvanometric laser heads have no competition in Russia while some of their characteristics exceed those of foreign laser heads.

The equipment we make has worked well both in Russia and abroad (in Austria, South Korea, Germany, Finland, Switzerland, Israel, Estonia, etc.)



1998

ATEKO-T founded

2002

First laser heads designed and software for their operation created

2005

First laser marker manufactured

2010

Serial production of equipment initiated

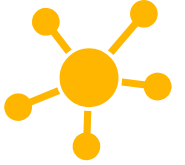
2016

Full production cycle begins



Our equipment is used for various tasks in the following industries

- Medical treatment
- Scientific research
- Metallurgy
- Oil and gas industry
- Space industry
- Car manufacturing
- Aviation industry
- Industrial production equipment
- Education
- Jewelry production
- Logistics
- Architecture
- Electronics
- Food industry



Our equipment

LaserScan F1



Tabletop laser unit. Its compact size allows it to be conveniently set up even on a small office table.

LaserScan F2



Stationary laser marking unit with open working area and triaxial table.

LaserScan F3



Automated industrial laser unit with three linear modules and Class 1 laser protection booth.

LaserScan Fm



Mobile laser unit for laser marking of large-size parts and components.

LaserScan C2

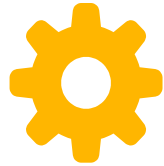


Stationary laser unit with CO2 laser, open working area and variable height biaxial table.

LaserScan OEM



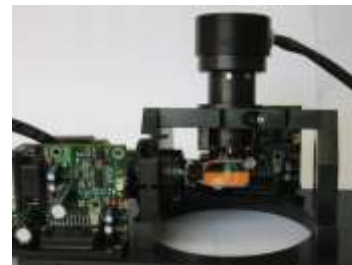
Specially modified equipment designed in accordance with the customer's technical specifications.

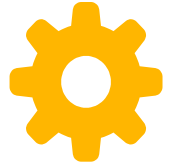


Galvanometric **laser heads**



The basic unit of our equipment is galvanometric laser heads which ensure the precise positioning of the laser beam on the working area. Our company is the only serial manufacturer of this kind of equipment in Russia; its high quality is ensured.





Galvanometric **single-mirror** laser head



We have designed «LScan-XY» as the newest generation of laser heads for medical purposes. The design of the laser head has been drastically reviewed which considerably reduced its dimensions and allowed it to be widely used in medical laser equipment.

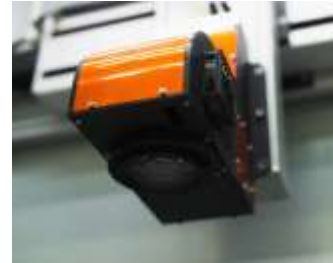




Laser heads

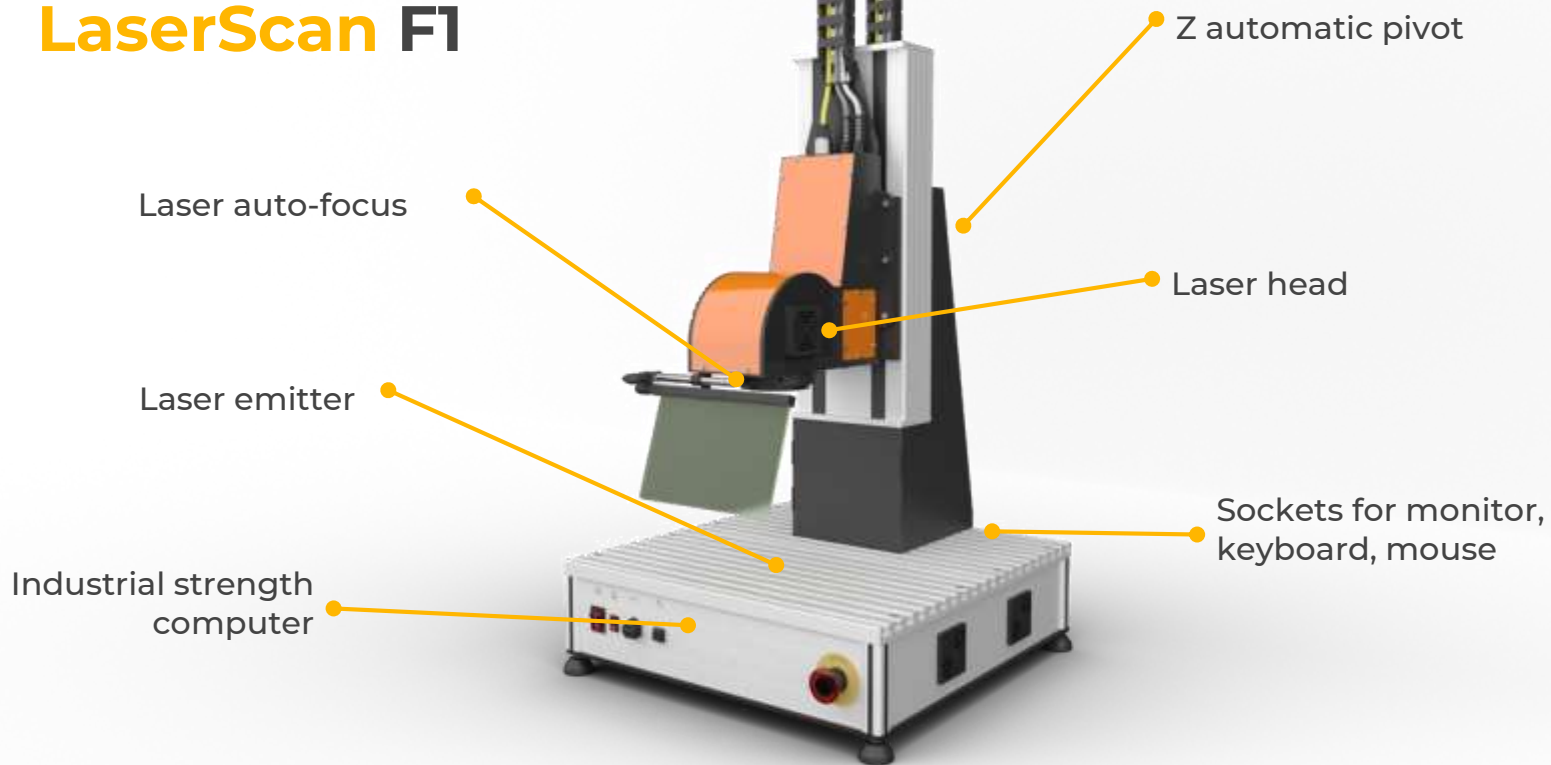


«LScanH» is an assembled optical system we use practically in the whole range of equipment we manufacture. It consists of two LScan-M3 galvanometric laser heads produced in-house, F-Theta lens and digital-analog converter. We offer a full ready-to-use solution.

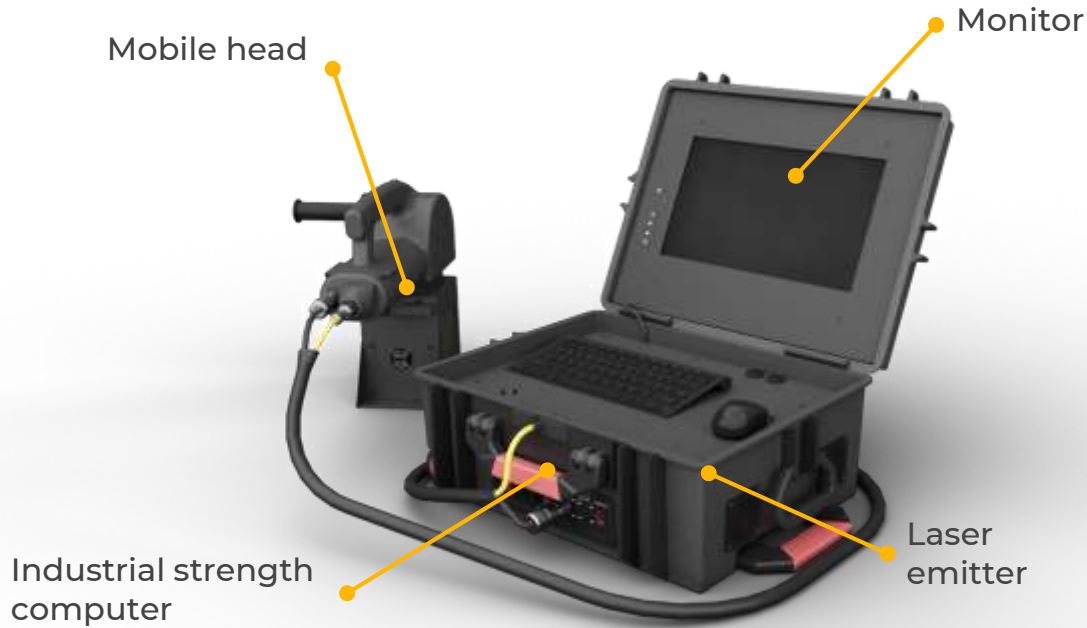




LaserScan F1



LaserScan Fm





Application

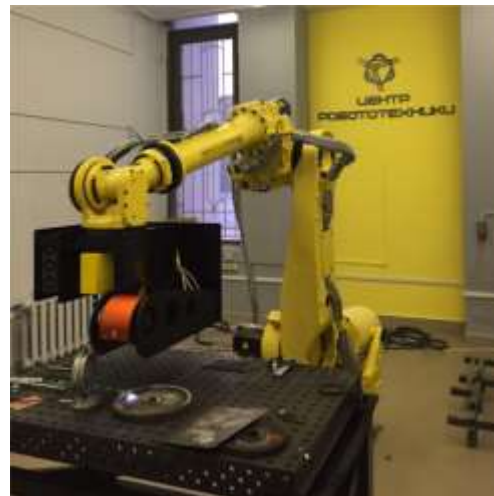
Seal marking



Pipe marking



Working with robotized units





Laser marking

Currently laser marking may be found in practically all areas of industrial production where it is used for product identification and product protective coding.



Product marking



Stock taking



Instrument panel marking



Tool marking



Tool marking



VIN code engraving



Laser engraving

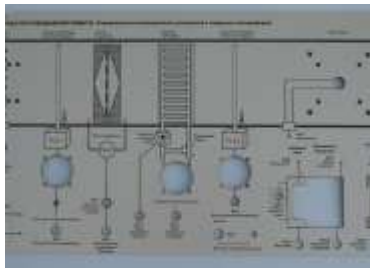
The advantages of laser engraving include no contact with the product which allows to create images on the surface of fragile or thin-walled units. Laser engraving is characterized by precision and application quality as well as high production capacity.



Souvenirs



Labels and stickers



Instrument board engraving



Memorabilia



Deep engraving

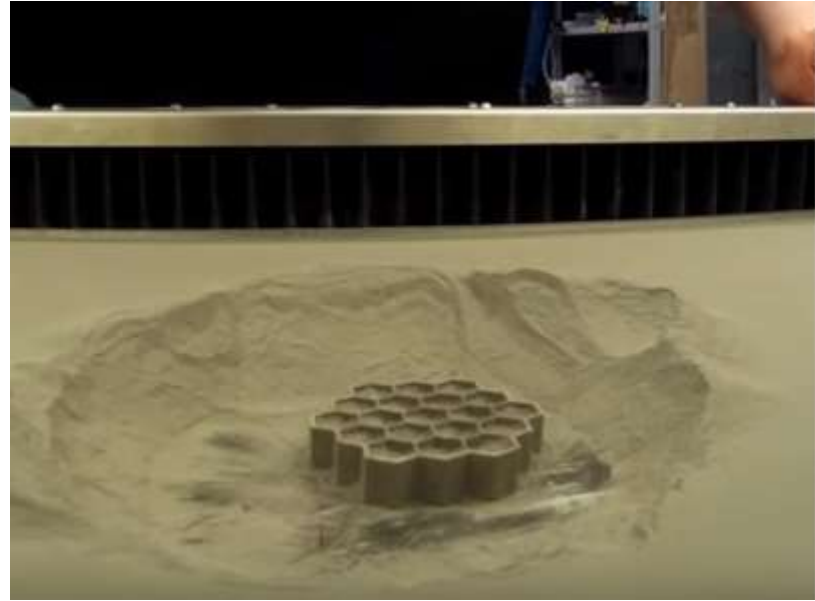
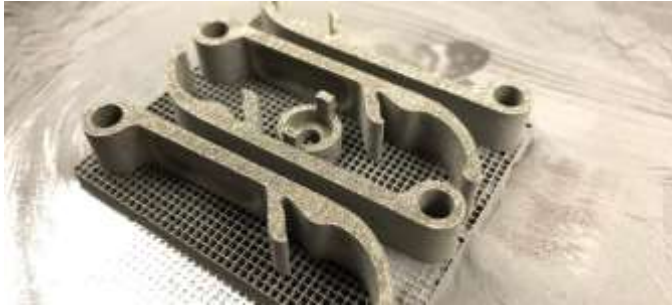


Instrument board engraving



Selective laser sintering

Innovative technologies of 3D printing of intricately shaped metal parts impossible to be produced with the help of other traditional metal-processing technologies.





Laser coating removal

Integration of laser equipment in the production lines for electrically heated glass increases the quality and productivity of the removal of all low-emission coatings simultaneously allowing to mark the finished products with bar codes as well as QR-codes and therefore performing multiple technological roles in the process of manufacturing electrically heated glass structures for aviation, railway transport, architectural structures and armoured glass.





Metal laser cleaning

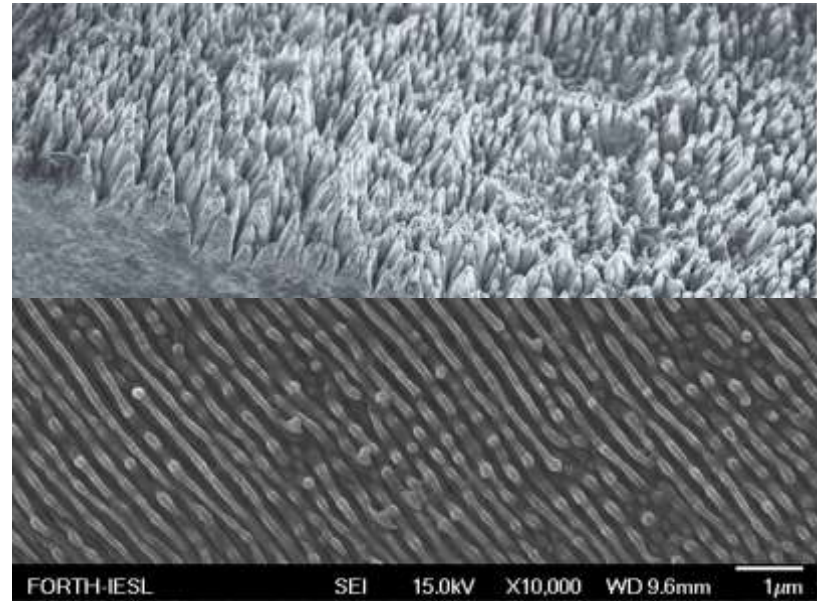
Laser cleaning is the best solution for contactless and highly productive removal of traces of petroleum products, paints, rust and other organic and non-organic pollutants from the surface of the items.





Laser surface structuring

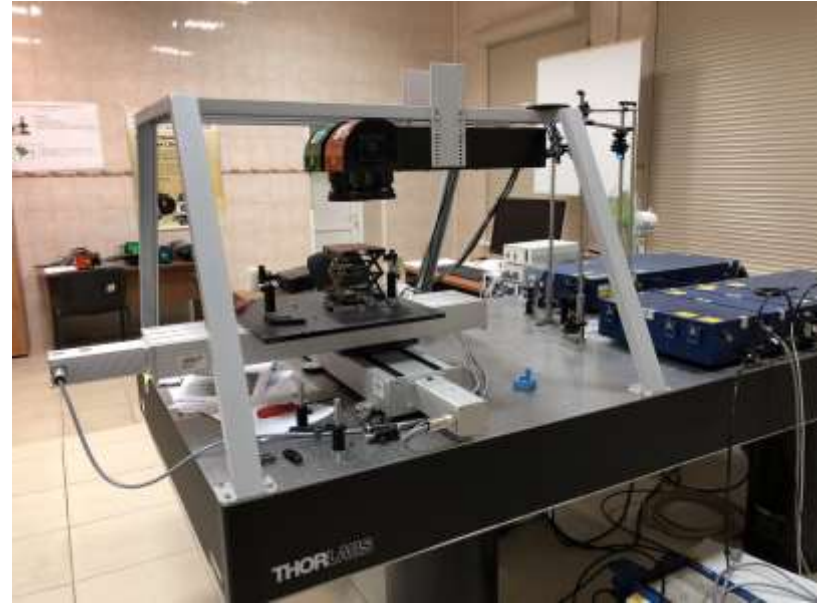
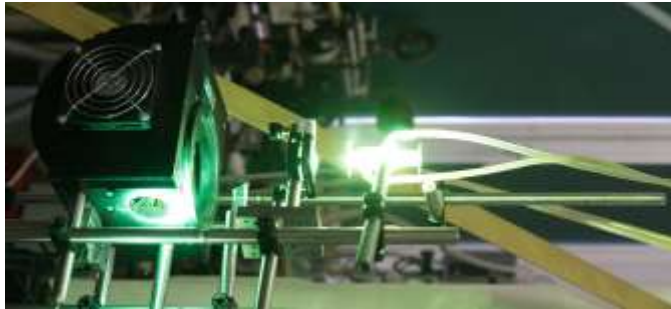
Nano- and micro-structuring allow to create periodic structures with specific morphology and topology on various surfaces. This may result in the creation of surfaces with predetermined characteristics such as increased hydrophobia, high conductivity, enhanced reflection coefficient, etc.





Research and Development

The ability to operate the laser beam made possible numerous fundamental discoveries which were then translated into practical applications ranging from increasing the absorption coefficient to the generation of nanoparticles with unique qualities.





Lasers in medicine

Lasers are widely used in such medical spheres as ophthalmology, anesthesiology, surgery, urology, etc. They have gained popularity owing to their aseptic qualities, high hemostasis and strictly local application.

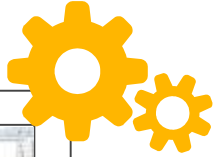
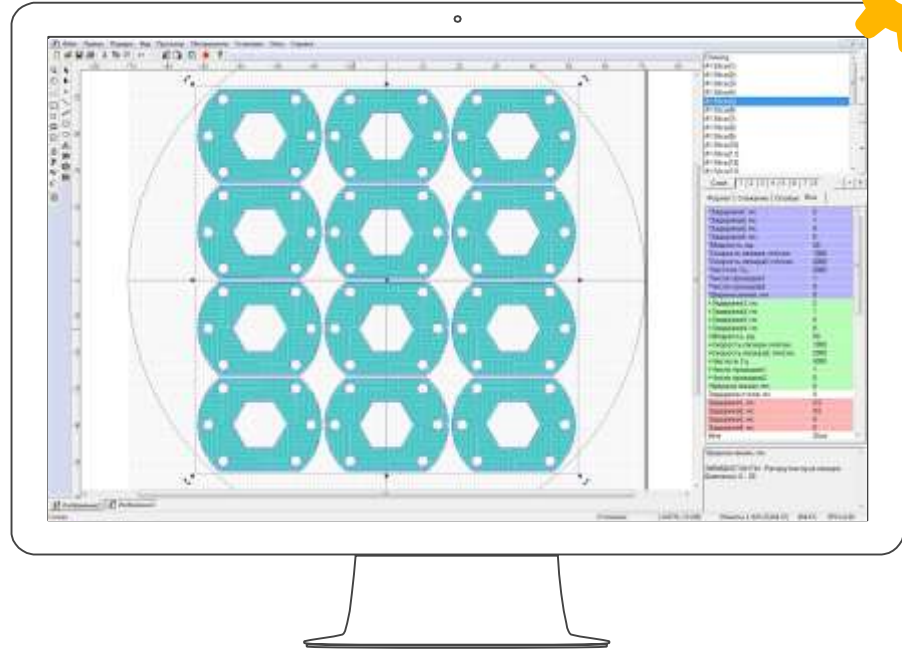


Software

ATEKO-TM has developed software products for complex control of various laser systems.

Their wide range of options allows to tailor program configurations to the solution of multiple tasks.

In its turn, each configuration has intuitively understandable interface and includes all the necessary functions..



For marking



For 3D printing



For medicine



For laser cleaning



Contacts

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