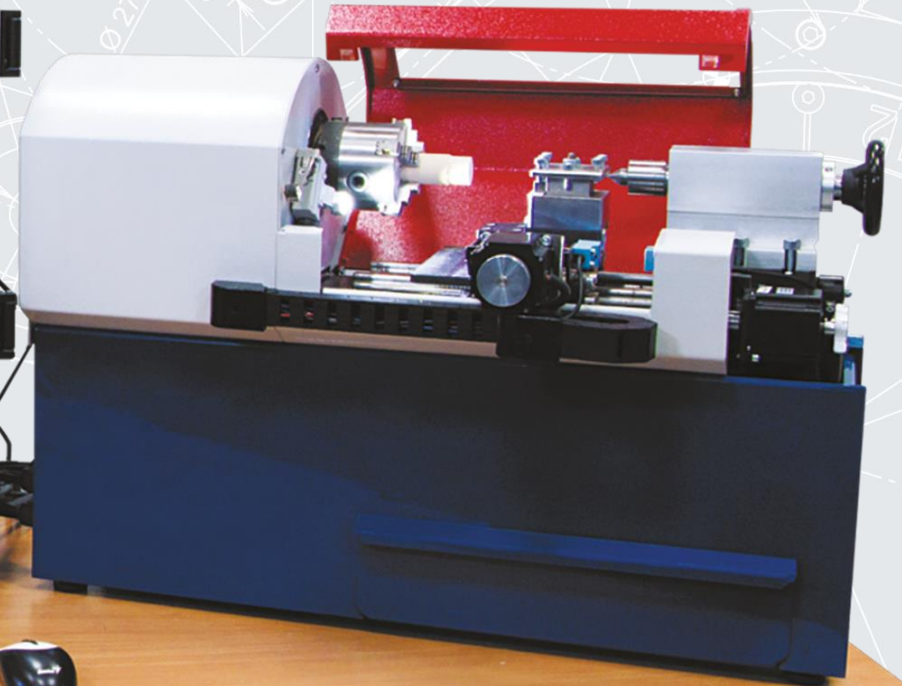
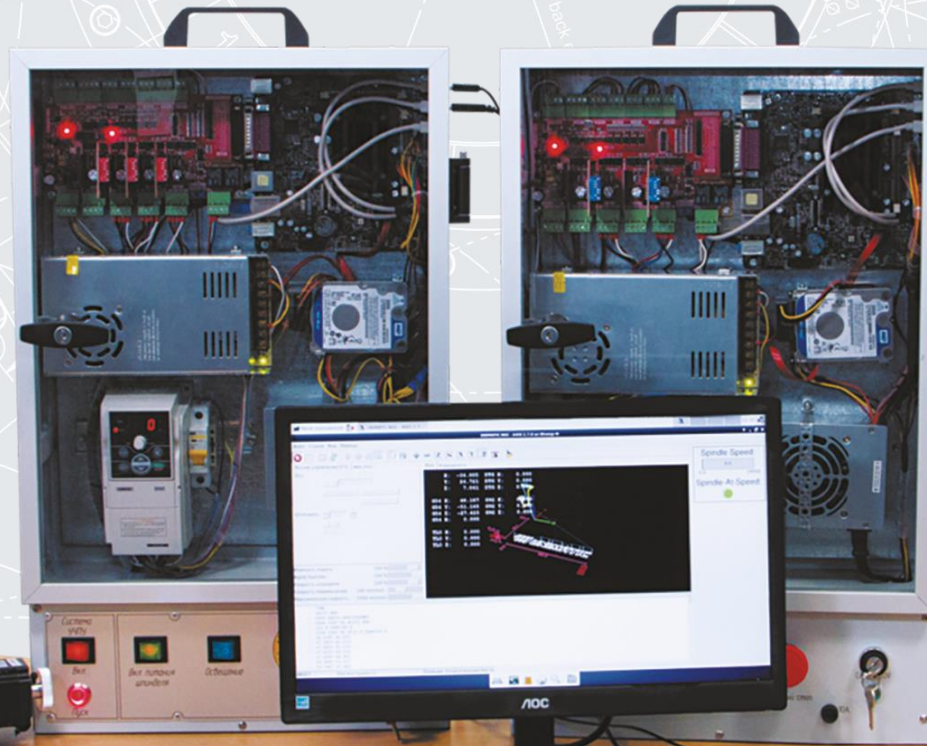




**MACHINERY  
DESIGN LTD**

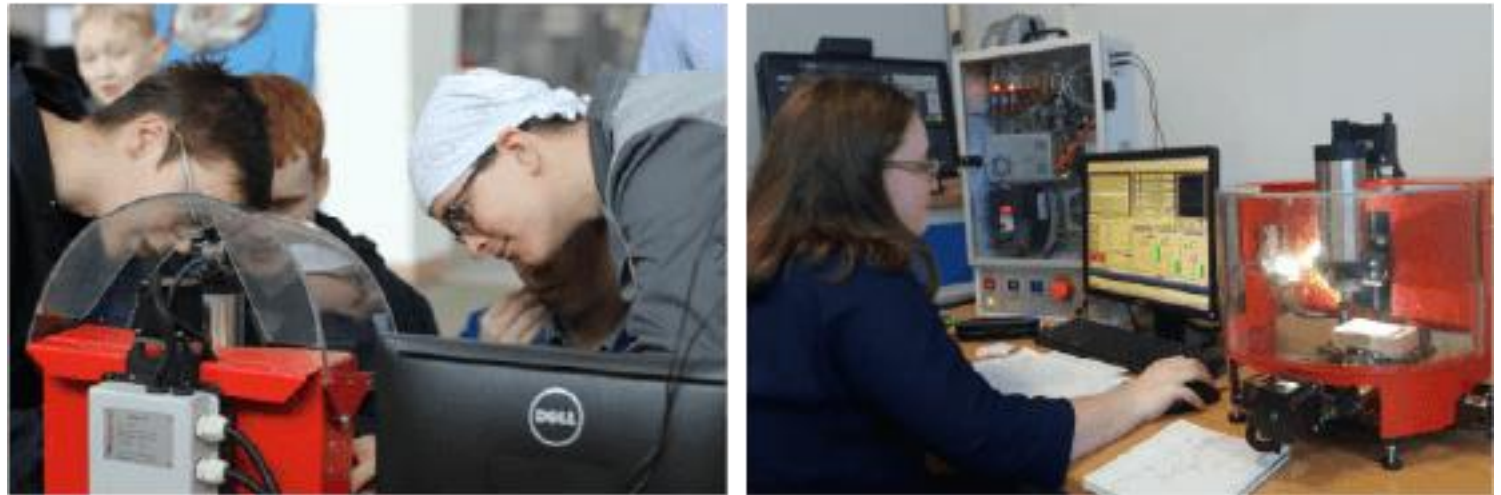
**JUNIOR**  
EDUCATIONAL MACHINES

# Training Machines Junior





**OUR MACHINES  
IN SCHOOLS**



## Three machines in one training complex



**Turning  
machine**

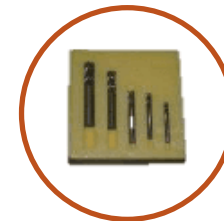
**Milling  
machine**

**Drilling  
machine**



## Training complex transformer is a ready-made workplace for the student, which includes:

- Machine bed.
- Remote control.
- Programming software.
- Personal computer.
- Learning and teaching recommendations.
- A set of components which allows to assemble a lathe, milling machine or drilling machine on the machine bed.





# Tutorials «10 steps to the profession» and «Technology of work on CNC machines»

- Supplied together with the equipment;
- Contains the theoretical foundations of working on machines;
- Includes practical tasks describing the entire manufacturing process of the product from the drawing to the final product for joint implementation with students;
- There are additional reference materials for extracurricular activities;
- Regular free updates of the manual.

# Training for teachers

- Learning the basics of working on numerically controlled machines;
- Development of skills in writing control programs;
- Consideration of the possibilities of using educational machines in regular and extracurricular activities, as well as in project work with schoolchildren.



## Economic validity

- Children can safely learn the operation of the machines;
- Training machines – a reduced copy of real CNC machines;
- Suitable for the development of engineering thinking;
- Suitable for the implementation of basic and additional educational programs.



# Variability of usage

- Allows you to master the skills of a full cycle to create your own (author's) product;
- Can be used to organize classes with students of various levels of education: basic general, secondary general, secondary vocational education;
- Can be used to implement early career guidance and professional navigation programs for students.



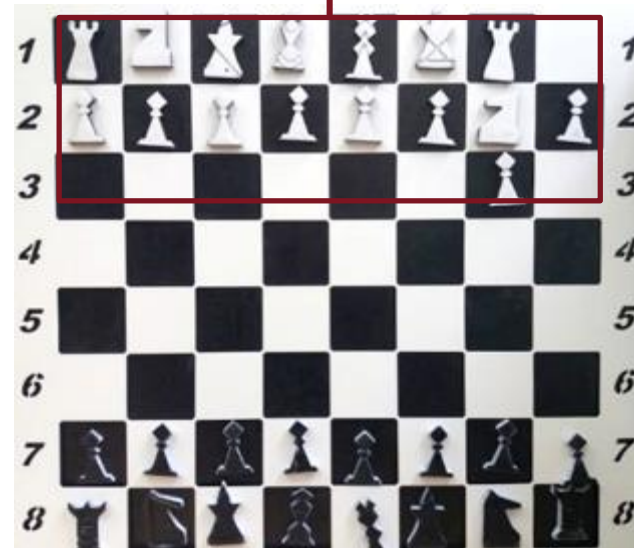


# The use of equipment in educational activities

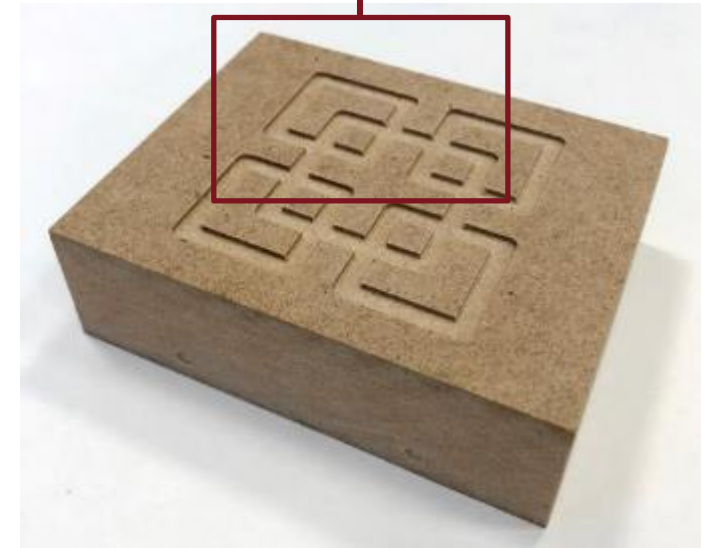
TECHNOLOGY + COMPUTER SCIENCE+ MATHEMATICS + PHYSICS

## PROGRAMMING

N10 G90  
N20 G54 G0 X0 Y0  
N30 G0 X-35 Y25  
N40 S2000 M3  
N50 G1 Z-1 F300  
N60 G1 X35 Y25  
N70 X35 Y-25  
N80 X-35 Y-25  
N90 X-35 Y25  
N100 G0 Z3  
N110 M5  
N120 M30



Made by students on Junior machines



# Preparation for the professional championship - WORLDSKILLS



# Costs of commissioning of educational equipment

- Commissioning allows you to minimize time and organizational costs due to the availability of software and methodological support offered by the manufacturer;
- 1-year warranty on educational and vocational guidance equipment with subsequent post-warranty service;
- Hotline and professional technical support.





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**JUNIOR**  
EDUCATIONAL MACHINES

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