

Multifunctional robotic arm

LABOTRIX ARM R5

PRODUCT PASSPORT

Kyiv

2026

Contents

1. General Information about the Product.....	2
2. Technical Specifications.....	3
3. Package Contents.....	4
4. Safety Precautions.....	5
5. Preparation for Use.....	7
6. Operating Procedure.....	8
7. Care, Maintenance and Troubleshooting.....	10
8. Storage and Transportation Conditions.....	11
9. Warranty Obligations.....	12
10. Product Disposal.....	12
Contacts.....	14
WARRANTY CARD.....	15
Service Records.....	17

1. General Information about the Product

- 1.1. **Product name** — Multifunctional Educational Robotic Manipulator with High Positioning Accuracy.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Arm R5; full trade designation — LABOTRIX ARM R5.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** the Labotrix Arm R5 robotic arm — a tabletop multifunctional platform for the practical study of automation, mechatronics and additive technologies in educational institutions. Replacing the end effector turns the product into various learning tools: vacuum gripper and mechanical gripper kits — for moving objects, a holder with a pen — for writing and drawing, a laser module — for engraving, and a module with an extruder and hot nozzle — for three-dimensional printing. The robotic arm can be controlled from a computer via the proprietary software platform, with a separate joystick, from a mobile device over a wireless connection, or in standalone mode without a permanent connection to a computer. The product is used in computer science, technology and robotics lessons, and in club and project activities; only persons who have completed instruction are allowed to work with it, and students work with the robotic arm only under teacher supervision.
- 1.6. **Design features:** the robotic arm consists of a base, shoulder, forearm and end-effector unit — four controlled joints in total, J1-J4, of which the fourth rotates the end-effector unit and is driven by a servo drive built into the vacuum gripper and mechanical gripper kit. The forearm has a drive release button for manual point teaching; end effectors are attached to the end of the forearm with a single clamping screw using hex keys, without additional electronics setup. The operating mode is shown by an LED indicator on the base. The load-bearing elements are made of impact-resistant plastic and 6061 aluminum alloy — this combination of materials provides the necessary structural rigidity at a comparatively low weight. The base and forearm together have a total of 20 expandable input/output interfaces for connecting an air pump, extruder, laser module, sensors and other additional accessories.
- 1.7. **Digital learning support:** together with the product, the right of access to an online teaching support course is transferred; the course is hosted in a learning management system (LMS) and is designed for 70 academic hours of lessons. The course is compiled to match the current curricula of general secondary education institutions of Ukraine. The materials are grouped into research modules in the subjects of physics, biology, chemistry, STEM and robotics, and every topic contains a lesson plan, a list of the required equipment, an experiment scenario, a step-by-step laboratory work instruction with an explanation of the expected result, a video demonstration of working techniques, interactive exercises and tasks for independent study, suitable both for individual and for group work. All modules are compiled for this very equipment and have been tested on it, therefore the course works along the direct chain "equipment → methodology → learning outcomes". A language-model-based assistant with retrieval over the course knowledge base (Retrieval-Augmented Generation) is built into the course: for the topic of the lesson it selects

appropriate tasks, sets out the sequence of conducting the study in methodological terms, examines typical student errors and gives personal advice on how to get rid of them, changes the level of difficulty to match the preparation of a particular class and helps to draw up a report on the study and to organize the conclusions. The knowledge base of the assistant is localized and aligned with the Ukrainian curriculum. The license for the course and the accompanying software is valid for 12 months from the date on which access is transferred; the content, the interface and the answers of the assistant are provided exclusively in Ukrainian.

2. Technical Specifications

- Brand — Labotrix
- Model — Arm R5
- SKU — LTX-ARM-R5
- Product type — tabletop multifunctional educational robotic-arm platform
- Number of degrees of freedom (piece) — 4 (joints J1-J4: base, shoulder, forearm, rotation of the end effector unit)
- Rotation range of joint J1, base (degree) — from -135 to $+135$
- Rotation range of joint J2, shoulder (degree) — from 0 to $+85$
- Rotation range of joint J3, forearm (degree) — from -10 to $+95$
- Rotation range of joint J4, end effector (degree) — from -90 to $+90$
- Link length — shoulder 135 mm, forearm 147 mm
- Construction materials — 6061 aluminum alloy, impact-resistant plastic
- Maximum reach, working area radius (millimeter) — 320
- Maximum payload (gram) — 500
- Maximum rotation speed of the base, shoulder, and forearm at an effector load of 250 g (degree per second) — 320
- Maximum rotation speed of the end effector servo drive at an effector load of 250 g (degree per second) — 480
- Positioning repeatability (millimeter) — ± 0.2
- Mains power parameters — 100-240 V AC, frequency 50/60 Hz
- Power input — 12 V DC / 7 A
- Communication channels — USB (direct wired connection to a computer), Wi-Fi and Bluetooth (wireless channels for control from a computer or mobile device) — included in the standard package
- Number of expandable input/output interfaces (piece) — 20 (on the base and on the forearm)
- Method of changing the end effector — clamping screw, 1.5 and 2.5 mm hex keys
- Control methods — personal computer via the proprietary software platform (wired or wireless connection), separate joystick, mobile device via the application over a wireless connection, standalone mode without connection to a computer
- Programming methods — motion teaching with playback of recorded points, block-based (graphical) programming, and the text-based programming languages Python and C++
- Language of the control software platform interface — Ukrainian
- Drive overload control — based on detecting step loss, with automatic motion stop and emergency status indication

- Three-dimensional printing working area — circle with a radius of 80 mm, height up to 150 mm
- Extruder nozzle — diameter 0.4 mm; operating temperature approximately 200 °C (printing does not start at a temperature below 170 °C), maximum heating rod temperature 250 °C
- Three-dimensional model format — STL; the model is sliced into control commands (G-code) in a compatible print preparation program
- Support for external software — common environments for preparing models for three-dimensional printing and controlling laser engraving
- Operating temperature of the robotic arm (degree Celsius) — from –10 to +60
- Product marking — trademark, model and a space for the inventory number
- Packaging — individual box of corrugated cardboard with the contents secured
- Documentation supplied — product passport with warranty card and operating manual
- Installation method — on a laboratory stand or demonstration table
- Ready-to-use condition — supplied assembled, requires no preliminary setup
- Care of the surfaces — wiping with a dry or slightly damp cloth is permitted
- Language of marking and operating documentation — Ukrainian
- Digital learning support — online course in a learning management system (LMS)
- Course volume (academic hour) — 70
- Course subjects — physics, biology, chemistry, STEM, robotics
- Composition of the materials — research modules, experiment scenarios, step-by-step laboratory work instructions, video demonstrations, interactive exercises and tasks
- Compatibility of the materials with the equipment — full, along the chain "equipment → methodology → learning outcomes"
- Language-model-based assistant — built into the course, with retrieval over a localized knowledge base (Retrieval-Augmented Generation)
- Validity period of the license for the course and the software (month) — 12
- Language of the course, of the interface and of the answers of the assistant — Ukrainian
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Robotic arm — 1 pcs
- Vacuum gripper kit: air pump, suction cup with bracket and servo drive, air tube, and connecting cables — 1 set
- Mechanical gripper kit with a servo drive that operates from the shared air pump — 1 set
- Writing and drawing kit: holder and pen — 1 set
- Three-dimensional printing module: extruder, hot nozzle with heater, thermistor and fan, filament feed tube, spool of plastic filament with holder — 1 set

- Laser engraving module with a clamping screw, power cable, signal cable, and included safety glasses — 1 pcs
- Local network wireless communication module (Wi-Fi) — 1 pcs
- Short-range wireless communication module (Bluetooth) — 1 pcs
- Joystick kit: wireless joystick, signal receiver with a connection module for the communication interface, USB charging cable — 1 set
- Power supply unit, 12 V / 7 A, with a mains cable — 1 pcs
- USB cable for connection to a computer — 1 pcs
- Communication interface cable — 1 pcs
- Sensor calibration card — 1 pcs
- Automatic leveling tool — 1 pcs
- Set of 1.5 and 2.5 mm hex keys — 1 set
- Right of access to the online course with a language-model-based assistant (license) — 1 pcs
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The guide rail for extending the working area, conveyor, additional sensors, and other ecosystem modules are not included in the minimum set and are supplied separately. The product does not require assembly, except for installing the selected end effector into the socket on the forearm.

4. Safety Precautions

4.1. General requirements

- Before using the robotic arm for the first time, read this passport, this section first of all, and thereafter keep the document together with the product.
- Work with the robotic arm is permitted for the teacher or another staff member who has undergone occupational safety instruction; students work with the product only under the supervision of an adult.
- After unpacking, inspect the robotic arm, end effectors, and cables for mechanical damage; using a damaged product is prohibited.
- Use the robotic arm only within the declared technical specifications and loads: exceeding them shortens the service life of the product and may put it out of order.
- The package contains small parts — keep them in a place out of the reach of children.
- Do not leave the robotic arm switched on unattended; switch the power off immediately after the end of the lesson.

4.2. Working area and safety during movement

- Install the robotic arm on a level, stable surface; the entire working area, with a radius of at least 320 mm in front of the base, must be free of foreign objects, notebooks, and vessels with liquid.
- While the program is running, students and other persons must stay outside the working area and observe the robotic arm's operation from the side.
- Do not keep your hands in the working area while the links are moving — this may lead to bruising or pinching of the fingers.

- If the LED indicator is red, the robotic arm is in a limit position or the emergency signal has not been reset; before continuing work, move it back into the working area and reset the emergency state.
- During shutdown, the forearm continues moving to the defined position for some time — do not keep your hands in the working area until the indicator goes out completely.
- Before connecting or disconnecting cables, the end effector, or any external accessory, completely turn off the robotic arm.

4.3. Laser safety

- The laser module produces focused radiation capable of damaging the eyes and skin and igniting the material being processed; before connecting the module for the first time, carefully read this subsection.
- Before turning on the laser, laser safety glasses must be worn by everyone present in the robotic arm's working area, not only the operator.
- It is strictly prohibited to look at the laser beam, at the focal spot, or at its mirror reflections from metal, glass, polished, or glossy surfaces; never point the beam at a person, animal, or clothing.
- The manufacturer does not state the laser class, its power, or its wavelength — check this information from the marking on the module itself and communicate it to everyone who works with the product before its first use.
- Safety glasses for working with the laser are included in the laser module kit — check that they are present and in good condition when accepting the product, before the first use of the laser.
- High temperature occurs at the beam's focal point, capable of burning through paper, wood, and other materials: remove flammable substances and liquids from the workplace and keep fire-extinguishing equipment nearby.
- Do not engrave materials that release toxic combustion products (for example, polyvinyl chloride), or mirror and metal surfaces that reflect the beam.
- During engraving, the material chars and releases smoke and odor — work in a well-ventilated room or under local exhaust ventilation, and thoroughly ventilate the room after the lesson.
- Never leave the laser module switched on unattended; monitor its operation throughout the entire engraving cycle and turn off the equipment immediately after the motion finishes.
- After the lesson, remove the laser module from the robotic arm and store it separately, in a place inaccessible to students.

4.4. Safety during three-dimensional printing

- The heating rod of the hot nozzle heats up to 250 °C — do not touch the nozzle, the heating block, or the freshly printed part during printing and for some time after it finishes, until it has fully cooled down.
- Load and remove the plastic filament only with the nozzle heated, and only while wearing protective gloves or using tweezers.
- Molten plastic releases odor and volatile substances during printing — print in a well-ventilated room and ventilate it after the lesson.

- Do not allow children to work with the equipment unsupervised; the printing process requires constant supervision, and the equipment is turned off immediately after printing finishes.
- Remove the three-dimensional printing module from the robotic arm only after the nozzle has fully cooled down and the power has been turned off.

4.5. Electrical safety

- Power the robotic arm only from the standard power supply unit (mains from 100 to 240 V AC, 50/60 Hz, output 12 V DC / 7 A); using other power sources is prohibited.
- The mains outlet must be in good working order and have protective grounding in accordance with the institution's electrical safety requirements.
- Protect the power supply unit and the cables from mechanical damage, moisture and heating; do not use the product with a damaged cable or plug.
- Do not connect or disconnect the power, communication, or external module connectors while the product is turned on.
- Do not immerse the robotic arm, end effectors, or power supply unit in water, and do not allow liquid to get inside the housings and connectors.

4.6. It is strictly prohibited

- Disassembling, repairing, or modifying the robotic arm, laser module, or three-dimensional printing module on your own — in case of malfunction, contact the seller or service center.
- Exceeding the maximum payload on the end effector and forcing the links beyond the limits of the working area.
- Leaving children unattended with the robotic arm, laser module, or heated nozzle switched on, or allowing them to install or remove end effectors on their own.
- Directing the laser beam or the compressed air jet from pneumatic effectors at people or animals.
- Engraving without all persons present in the work area wearing safety glasses.
- Cleaning the product with aggressive (corrosive) agents or immersing anodized parts in liquid.
- Operating the product outside the declared operating temperature range or in conditions of elevated humidity.

5. Preparation for Use

- 5.1. Unpack the robotic arm, end effectors, and accessories, remove the transport locks and protective film; we recommend keeping the packaging for future transportation.
- 5.2. Check the package contents against Section 3 of this passport, inspect the robotic arm, cables, and end effectors for mechanical damage, and separately check that the laser safety glasses are present and in good condition.

- 5.3. Install the robotic arm on a level, stable, horizontal surface so that the entire working area, with a radius of up to 320 mm, remains free of foreign objects.
- 5.4. Connect the robotic arm to the computer with a USB cable and, if necessary, install the equipment driver utility program on the computer, which is supplied together with the manufacturer's software platform.
- 5.5. Set the robotic arm to the initial position — an angle of approximately 45° between the forearm and the shoulder — connect the standard power supply unit to the mains and turn on the product with the power button; wait until the indicator lights up green.
- 5.6. Before the first task, remove the end effector, make sure that the working area is clear and perform the return to the initial point so that the coordinates of the robotic arm become correct.
- 5.7. Install the required end effector — the vacuum gripper kit, mechanical gripper, writing holder, laser module, or three-dimensional printing module — into the socket at the end of the forearm using the clamping screw and hex keys; for the laser module, make sure in advance that everyone present has safety glasses.

6. Operating Procedure

6.1. Connection and switching on

- The robotic arm is connected to the computer with a USB cable, and the power supply unit — to the power connector on the base and to the mains.
- Before turning it on, set the robotic arm to the initial position (an angle of about 45° between the forearm and shoulder) and press the power button: the indicator will light up yellow during startup, and after it finishes — green.
- If the indicator is red after power-on, the robotic arm is in a limit position: press and hold the release button on the forearm and smoothly move the robotic arm back within the working area.

6.2. Return to the initial point

- Before the first movement and after any impact or malfunction, perform a return to the home point: remove the end effector, make sure there are no obstacles in the working area, and run the corresponding command in the software platform, or hold the function button on the base for about 2 seconds.
- During the procedure, the indicator flashes blue; after successful completion, an audible signal sounds and the indicator lights up green.
- If, after returning to the home point, the base rotation angle or the height coordinate reading noticeably deviates from the expected value, calibrate the corresponding unit using the driver utility program with the sensor calibration card or the automatic leveling tool.

6.3. Installing and replacing end effectors

- Before replacing the end effector, completely turn off the robotic arm and disconnect the power supply unit from the mains; remove the hot nozzle and laser module only after they have fully cooled down or been turned off.

- Attach the selected effector to the end of the forearm with the clamping screw using 1.5 and 2.5 mm hex keys, and connect the required cables and the air tube to the corresponding connectors.
- The vacuum gripper and mechanical gripper kits operate from the shared air pump; the writing holder is installed without additional connections; the laser module and the three-dimensional printing module require connecting a power cable and a signal cable.

6.4. Manual movement and recording of points

- Press and hold the release button on the forearm — the drives are released and the robotic arm can be moved freely by hand; after the button is released, the current position is fixed and can be saved as a program point.
- A point can also be set using the step-movement buttons in the rectangular (X, Y, Z, R) or joint (J1-J4) coordinate system on the control panel in the software platform.
- Recorded points are used to build a sequence of movements — moving objects, writing, or drawing.

6.5. Motion control and program start

- Choose a control method: motion teaching with subsequent playback of recorded points, block-based programming for beginner level, or the text-based programming languages Python and C++ for advanced study.
- Build a sequence of commands — movement to a point, end effector control, pauses, repetition — and run the program; the finished sequence of points can also be uploaded to the robotic arm and played back autonomously, without a computer, with short presses of the function button on the base.
- The robotic arm can also be controlled with the standard joystick: connect the receiver to the module on the base's communication interface, turn on the joystick, and switch between the rectangular and joint coordinate systems using the buttons on its housing; simultaneous connection to a computer and a joystick is not supported.
- To control from a mobile device, install the proprietary application on it and connect to the robotic arm via Wi-Fi or Bluetooth; the modules for these channels are connected to a separate interface on the base — the same one to which the joystick receiver is connected when needed. Firmware updates, calibration, and three-dimensional printing are performed only over a wired USB connection.

6.6. Laser engraving and three-dimensional printing

- For engraving, install the laser module, place the material within the work area, make sure everyone present is wearing safety glasses, and adjust the focal distance with the release button, achieving the smallest and brightest beam spot.
- Prepare the image for engraving in the proprietary software platform or in a common design program compatible with its import formats, position it within the annular working area, and start engraving; do not leave the robotic arm unattended throughout the entire cycle, and turn off the laser immediately after it finishes.
- For three-dimensional printing, install the extruder module, prepare the three-dimensional model in STL format, heat the nozzle to operating

temperature, check the plastic extrusion, and position the print platform within the work area.

- Start printing from the computer model preparation program; the process requires constant supervision, and the nozzle and the printed part remain hot for some time after completion.

6.7. Finishing the work

- Wait for the program to finish, turn off the end effector (pump, laser, or heater), and if necessary perform a return to the home point.
- Turn off the robotic arm with the power button, wait until the forearm smoothly lowers into the defined position and the indicator goes out completely, and only then disconnect the power and remove the end effector.

6.8. Work with the online course

- Obtain an account at the educational institution and activate the right of access to the course; the validity period of the license is counted from the date on which access is transferred.
- Select the topic of the lesson in the course list: every topic is accompanied by a plan, a list of equipment, an experiment scenario, a step-by-step instruction, a video demonstration and interactive tasks.
- Formulate a query to the assistant on the topic of the lesson — it will suggest appropriate tasks, set out the sequence of actions, examine typical errors and advise how to correct them.
- Set the level of difficulty of the tasks to match the preparation of the class; on the basis of the results of the work the assistant will help to draw up the report and to organize the conclusions.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- Before cleaning, switch off the robotic arm and disconnect the power supply unit from the mains.
- Wipe the housing, links, and end effectors with a dry or slightly damp soft cloth.
- Do not use aggressive (corrosive) cleaning agents; do not immerse anodized parts in liquid.
- Clean dust off the suction cup and gripper pads, and wipe the laser module lens only with a dry soft cloth while the module is switched off and disconnected from power.
- Clean the extruder nozzle of plastic residue only after it has fully cooled down; do not allow liquid to get into the connectors, housing openings, or air path.

7.2. Periodic inspection

- Regularly check the integrity of the cables, the secureness of the end effector fixation with the clamping screw, and the tightness of the air tube connection at the fittings.
- Monitor the correctness of the coordinate readings; after an impact or malfunction, perform a return to the home point, and if necessary — calibrate the base or the angle sensors.

- The product does not require lubrication or other maintenance operations by the user, except for firmware updates as instructed by the supplier; repairs and replacement of components are performed only by an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The indicator glows red, the return to the initial point is not performed	The robotic arm is in a limit position, or the emergency signal has not been reset	While holding the release button, move the robotic arm within the limits of the working area, release the button and repeat the command
The robotic arm stopped during movement, the indicator turned red	The drive step-loss control has been triggered due to overload	Reset the emergency signal, perform a return to the home point, reduce the speed or the load mass, and repeat the start
The suction cup or the gripper does not hold the object	Dirty effector, a loose air tube connection, or the object's mass exceeds 500 g	Check the cleanliness of the effector and the connection of the tube, make sure that the mass of the object is within the norm
Engraving is faint, or the laser spot is blurred	Incorrectly adjusted focal distance of the laser module	Use the release button to adjust the module height to the smallest and brightest spot
Plastic is not extruded from the nozzle, or printing does not start	The nozzle is not heated to operating temperature, or the filament is not fed all the way to the bottom of the nozzle	Heat the nozzle to operating temperature and check whether the filament is fed all the way to the end of the feed tube
One of the joints does not move	The robotic arm has moved beyond the working area, or the drive is locked by an emergency signal	Reset the emergency signal and perform a return to the home point; if the fault recurs, contact the service center
The computer does not detect the robotic arm	The USB cable is damaged or poorly connected, the equipment driver utility is not installed	Check the cable and the connector, reinstall the equipment driver, make sure that the product is switched on

8. Storage and Transportation Conditions

- Store the robotic arm, end effectors, and accessories in a dry room at a temperature from +5 to +40 °C, protected from dust, direct sunlight, and sudden temperature changes.

- Before long-term storage, disconnect the cables, remove the end effector, and store the laser module separately from the robotic arm, in a place inaccessible to children.
- Store the plastic filament for three-dimensional printing in a closed bag, protected from moisture.
- Carry the robotic arm holding it by the base with both hands; do not lift or carry the product by the links or by the end effector.
- Transport the product in the original or a similar rigid packaging, placing it smoothly and in the direction of the arrow on the box, by any type of closed transport.
- Do not place heavy objects on the packaging with the product; the storage period before commissioning is unlimited provided that the stated requirements are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.
- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.
- 9.5. The warranty does not cover cases where the malfunction is caused by:
 - mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;
 - force majeure circumstances (fire, flood, earthquake, etc.).
- 9.6. The warranty does not cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product must not be disposed of together with unsorted municipal waste. This is indicated by the marking in the form of a crossed-out container on the product or its packaging.
- After the end of the service life, hand the product over to a collection point for the corresponding waste or to an organization holding the appropriate permit.

- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

LABOTRIX GROUP LIMITED

Room 910, Isteelesia 1 No. 18 Fu'an Blvd, Pinghu Subdistrict,
Longgang District, Shenzhen City,
Guangdong Province, China 518111
Phone: +86 13925261264
E-mail: salesmanager@labotrix.com
Website: <https://labotrix.com/>

Address in Ukrainian:

LABOTRIX GROUP LIMITED

Room 910, Istilazia 1, Fuan Boulevard No. 18,
Pinghu Subdistrict, Longgang District,
Shenzhen, Guangdong Province, China 518111
Telephone: +86 13925261264
E-mail: salesmanager@labotrix.com
Website: <https://labotrix.com/>

Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Name:	Multifunctional robotic arm
Product model:	LABOTRIX ARM R5
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer _____

Telephone of the buyer _____ Signature of the buyer _____

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport and, if possible, use the table of possible malfunctions in subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person