

Large laboratory stand

LABOTRIX STAND L1

PRODUCT PASSPORT

Kyiv

2026

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1. General Information about the Product

- 1.1. **Product name** — Large laboratory stands.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Stand L1; full trade designation — LABOTRIX STAND L1.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** securing and holding glassware, instruments and assembly units in a fixed position during demonstration experiments, laboratory work and practical classes in the chemistry room of general secondary education institutions. Test tubes, flasks, funnels, condensers, burettes, gas outlet tubes and thermometers are mounted on the stand. Together with a spirit burner and an asbestos gauze, the stand forms a typical heating assembly for studying reactions, evaporating substances, distillation and gas generation.
- 1.6. **Design features:** a metal structure with a heavy base, a vertical rod 600 mm long, and interchangeable holders (rings and clamps) mounted by means of bossheads with clamping screws. No electrical power supply. Stepless adjustment of height and rotation angle. Two configuration variants — main and alternative version.

2. Technical Specifications

- Brand — Labotrix
- Model — Stand L1
- SKU — LTX-STAND-L1
- Product type — Laboratory stand with a heavy base and a vertical rod
- Size of the vertical post (rod) — 600 millimeter
- Base dimensions (main version) — 210 × 135 millimeter
- Base dimensions (alternative version) — 195 × 138 millimeter
- Base material — Metal (main version); iron with protective coating (alternative version)
- Rod material — Smooth metal
- Bosshead material — Metal with clamping screws
- Rod mounting method — Threaded connection with the base
- Adjustment — Stepless, by height and rotation angle, via bosshead movement
- Number of bossheads (main version) — 5 pcs
- Number of bossheads (alternative version) — 3 pcs
- Classroom — Chemistry, natural science
- Heating capability — Suitable for use with a spirit burner and an asbestos gauze
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Language of marking and operating documentation — Ukrainian
- 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

- Surface care — the metal allows wiping with a dry cloth without aggressive cleaning agents
- Ready-to-use condition — assembly is performed by hand, without special tools
- Mutual independence of holders — each ring or clamp is attached to the rod with its own bosshead
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

Main version

- Base (stand foot) 210×135 mm — 1 pcs
- Rod (post) 600 mm — 1 pcs
- Large ring $\varnothing 110$ mm — 1 pcs
- Small ring $\varnothing 70$ mm — 2 pcs
- Bosshead — 5 pcs
- Claw clamp for flasks and beakers — 2 pcs

Alternative version

- Base (stand foot) 195×138 mm — 1 pcs
- Rod (post) 600 mm — 1 pcs
- Rings of different diameters — 3 pcs
- Cross bosshead — 3 pcs
- Claw clamp for beakers — 2 pcs
- Three-finger clamp (triangular) — 1 pcs
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The stand is supplied in two versions, which differ in set composition and dimensions. The sets are not interchangeable. When assembling setups, refer to the actual composition of your set according to the packing list. The asbestos gauze and the spirit burner are not included in the set — they are purchased separately.

4. Safety Precautions

4.1. General requirements

- Before the first lesson, read this passport carefully. Work with the stand at the educational institution is organized and supervised by the teacher or laboratory assistant.
- Carry out the work only on a clean, level, horizontal laboratory table surface free of moisture and foreign objects; do not work at the edge of the table or in a walkway.
- Before every experiment, check the condition of the stand: whether the rod is screwed in all the way, whether the bosshead screws are tightened, and whether the holder slides under load.
- During active work, keep children's hands away from rotating and hot mechanical elements; do not lean on the stand or use it as a support.
- Do not allow the components to come into contact with moisture, liquids and aggressive chemical substances, except for their intended use when working with reagents according to the classroom's instructions.

4.2. Mechanical stability and safe load placement

- A stand with mounted glassware remains stable as long as the center of gravity of the entire system stays within the support area of the base. The load must be positioned exclusively above the base; extending glassware to the opposite side, "into the air", is not allowed under any circumstances.
- The heavier the glassware, the lower it must be secured on the rod; a low center of gravity — the main condition for stability. Mount a flask with liquid and the condenser in the lower third of the rod, and the funnel and thermometer — at the upper levels.
- Do not attach anything to the top of the rod; always leave a free section of the rod above the topmost bosshead. This ensures stability and prevents the bosshead from sliding down.
- Distribute the load symmetrically, avoiding two heavy assemblies on the same side. If the setup requires several heavy elements, use two stands or spread them to different sides.
- Check the system before starting the experiment: gently press the rod from the side — the base must not lift off the table at any edge. If it lifts, lower the assembly or transfer part of the load.

4.3. Safety when heating and working with an open flame

- Before heating, clear the work area of paper, alcohol and flammable materials; tie back long hair, fasten sleeves, work in a lab coat and safety goggles.
- The flame of the spirit burner must not touch the bossheads, clamps, rod or hoses; this heats the metal, deforms the pads and causes burns on contact.
- Hot metal parts (gauze, ring, bosshead) cool down slowly; handle them only with a special holder or wait for them to cool down. First stop heating, let the setup cool down while still assembled, and only then disassemble it.
- Extinguish the spirit burner only with its cap, covering the flame from above; blowing out the flame is prohibited. Light the spirit burner with a match, but never from another spirit burner.
- When working with heating, follow the chemistry room's instructions on ventilation, removal of combustion products from the laboratory, and the objectives of monitoring with carbon monoxide and other gas detectors.

4.4. It is strictly prohibited

- Overtightening the bosshead and clamp screws with pliers, wrenches or levers; tighten only with your fingers, to noticeable resistance — this strips the thread and deforms the parts.
- Screwing the rod into the base at an angle or by force; if screwing in is tight, unscrew it, clean the thread and start again.
- Carrying the stand with filled hot glassware; first disassemble the setup, then carry the components separately.
- Disassembling the clamps and bossheads without necessity; remove the clamp pads only when replacing hardened or damaged ones.
- Using the stand as a support, hanger or prop for unrelated objects; this accelerates corrosion and damages the thread.

- Leaving the assembled setup with glassware unattended, especially during active heating; switch off the setup immediately when the experiment is finished.

5. Preparation for Use

- 5.1. Unpack the stand on a clean, dry table and check the completeness against the packing list. Determine which version you received — main or alternative, and make sure all parts are present.
- 5.2. Inspect the rod, base and bossheads for mechanical damage, dents, burrs and damaged contact points. The thread of the socket in the base and the thread of the bosshead screws must be clean; the clamp pads — intact and elastic; the rings — not bent.
- 5.3. Wipe off the preservative grease from the rod, thread and bossheads with a dry cloth; an oil film on the rod — the main cause of bossheads sliding down under load.
- 5.4. Place the base on a level, dry, horizontal table surface, no closer than a palm's width from its edge. Turn the base so that its wider part faces the direction of the future load, and the narrower part — the opposite direction.
- 5.5. Insert the rod into the threaded socket of the base without misalignment and screw it in by hand until it stops. Do not use wrenches, pliers or levers — an overtightened thread strips and the stand becomes unusable.
- 5.6. Check the verticality of the rod: hold the top end and gently rock it. The rod must not wobble in the socket, and the base — must not lift off the table. If the rod wobbles, unscrew it, clean the thread and screw it back in.
- 5.7. Put the required number of bossheads onto the rod, sliding them on from the top. Arrange the bossheads in the order in which they will be needed.
- 5.8. Before the first task, perform a trial assembly without glassware: insert the shank of the ring or clamp into the bosshead, turn the holder toward the wider part of the base and tighten both screws by hand. Press down on the holder from top to bottom — it must not rotate or slide, and the stand must not lift off the table.

6. Operating Procedure

6.1. Assembling the setup and positioning the components

- Place the base, the rod and the needed holders on the table.
- Install the bossheads in the anticipated order of use, positioning them above the base.
- Insert the shanks of the rings or clamps into the free holes of the bossheads, turn the holders toward the wider part of the base and tighten both screws by hand until noticeable resistance.
- Check the stability of the assembly with every manipulation.

6.2. Securing glassware

- For a test tube: clamp it at the upper part, closer to the opening, tilt it at approximately a 45° angle with the opening facing away from yourself and from the students.

- For a flat-bottom flask and a chemical beaker: place it on an asbestos gauze laid on the ring; only hold it by the neck with the clamp finger to prevent tipping, without pressure.
- For a round-bottom flask: clamp it by the neck in the clamp, support it from below with a ring and gauze; the neck must not be tilted.
- For a funnel: insert it into a ring of matching diameter so that it stands vertically and rests its conical part on the rim.
- For a condenser: clamp it by the jacket, tilted with the receiving end down; use a three-finger clamp if one is included in the set.
- For a burette: clamp it strictly vertically at the upper part, with the stopcock facing you; clamp gently, without deforming the thin-walled tube.

6.3. Preparing the heating assembly

- Attach the bosshead with the ring in the lower third of the rod, positioning the ring above the base.
- Place the asbestos gauze on the ring with the asbestos layer facing up; the gauze must lie flat and not hang over the rim.
- Place the vessel on the gauze and secure it by the neck with the clamp finger only to prevent tipping.
- Place the spirit burner on the table under the ring; raise or lower the ring so that the bottom of the vessel is in the upper, hottest part of the flame.
- Make sure the flame does not reach the bosshead, clamp, rod or hoses.

6.4. Heating substances

- **Test tube:** hold at an angle in the clamp; first heat the whole vessel evenly, then — the area with the substance.
- **Flat-bottom glassware:** heat only through an asbestos gauze; direct contact of the flame with the glass is not allowed.
- **Round-bottom flask:** can be heated on the gauze or in the flame, distributing heat evenly.
- Extinguish the spirit burner with its cap; do not leave the setup with an open flame unattended.

6.5. Finishing the work

- Stop heating and let the setup cool down while still assembled.
- Handle hot parts only with a special holder; wait for the metal and ceramic parts to cool down.
- Disassemble the setup: first remove the glassware, then the holders, then the bossheads, and only at the end unscrew the rod.
- Wipe the stand dry and return the components to their place in the factory packaging.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning and maintenance

- **After each session of working with reagents, wipe the stand dry.** Acid, alkali and salt solution drops damage the coating within a few days and corrode the screw threads. Pay special attention to the base and the threaded socket.

- Wash off acid or alkali splashes with a damp cloth immediately, then wipe the area dry. Regularly clean the rod of buildup and grease; a clean, dry rod — the condition for the bosshead not sliding down.
- Do not wash the stand under running water or immerse it in liquid. Do not use abrasive powders or metal brushes — they remove the protective coating.
- Periodically unscrew the bosshead screws and clean them of buildup; if necessary, wipe the thread with a cloth lightly moistened with machine oil. Wipe off any excess oil.
- Inspect the clamp pads and replace hardened, charred or torn ones. Check the rings for the absence of bends, and the rod — for straightness.

7.2. Periodic inspection

- Every month, check the condition of the clamping mechanism: the screws must turn easily and clamp securely.
- Inspect the thread contact points and the condition of the base coating; if rust or stains appear, clean the affected area and wipe it dry.
- Complex mechanical malfunctions and damage are handled by an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Probable cause	User actions
The stand wobbles, the base lifts off the table	Uneven surface; dirt under the base; load extended beyond the edge of the table	Move the stand to a level location, wipe the bottom of the base, position the holder above the base
The stand tips over during work	Excessive holder extension; heavy glassware mounted too high	Lower the assembly, insert the shank deeper into the bosshead, split the load between two stands
The rod wobbles in the base	Not screwed in all the way; contaminated or damaged thread	Unscrew, clean the thread, screw it back in by hand without misalignment until it stops
The bosshead slides down the rod under load	Undertightened screw; greasy or contaminated rod	Wipe the rod dry, tighten the screw by hand; replace a worn bosshead
The bosshead screw spins and does not clamp	Stripped thread due to overtightening	Withdraw the bosshead from use and replace it
The vessel rotates in the clamp	Greasy or hardened pads; incorrect vessel size	Degrease the jaws, replace the pads, select a clamp of the correct size
The ring is bent	Overload or impact	Replace the ring; mount heavy glassware closer to the rod

8. Storage and Transportation Conditions

- Store the stand in a dry, well-ventilated room at a temperature not below +5 and not above +40 °C and relative humidity up to 80 % without condensation.
- For long-term storage, disassemble the stand: unscrew the rod, remove the bossheads, loosen all clamp screws. A clamp left tightened permanently deforms the pads.
- Store small parts (bossheads, rings, clamps, screws) in a common box so they do not get lost. Store the asbestos gauze separately, flat, in a dry place.
- Protect the components from dust, moisture and contact with aggressive substances; do not leave them on the edge of the table or in the sun.
- Transport the stand in its original packaging or in a rigid case, avoiding impacts and shaking. Keep the factory packaging — it is convenient for storing the disassembled stand.
- The storage period before commissioning is unlimited, provided the stated requirements are observed. During long-term storage, check the condition of the parts and the cleanliness of the rod.

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 is not electrical or electronic equipment, therefore the marking in the form of a crossed-out container does not apply to it.
- After the end of the service life, the product is disposed of according to the rules established at the institution that operated it, with prior separation by materials.
- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

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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:	Large laboratory stand
Product model:	LABOTRIX STAND L1
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