

Model of the human skeleton

LABOTRIX OSTEO S1

PRODUCT PASSPORT

Kyiv

2026

1. Basic product information

- 1.1. Product name — Model of the human skeleton.
- 1.2. Trademark — Labotrix.
- 1.3. Model — Osteo S1; full trade name — LABOTRIX OSTEO S1.
- 1.4. Manufacturer — Labotrix Group Limited, China.
- 1.5. Intended use: A full-size visual model of the human musculoskeletal system to form in students and pupils a spatial understanding of the structure of the human skeleton, the location and shape of bones, the types of their joints and the features of the skeleton associated with upright walking. The model is used in biology, anatomy lessons and in the study of human evolution. The dimensions allow you to demonstrate the elements of the structure from a distance of 5 meters.
- 1.6. Design features: The model is mounted on a mobile metal stand with wheels, which allows it to be easily moved around the office. The skull bones, upper and lower limbs are removable for individual study. The product shows the anatomically accurate structure of the spine with cartilage pads, articular surfaces, intervertebral foramina for nerves and blood vessels.

2. Technical specifications

- Brand — Labotrix
- Model — Osteo S1
- The article number is LTX-OSTEO-S1
- Model type — full-size anatomical model of the human skeleton on a mobile stand
- Skeleton height (centimeter) - 178
- The material is a specialized plastic (PVC) that accurately imitates bone tissue.
- Coloring is natural, realistic, in accordance with the anatomical theme
- Structure of the spinal column - five sections with cartilaginous pads between the vertebrae, showing the branches of arteries and nerves
- Skull construction - facial and cerebral sections, removable cranial vault, movable lower jaw
- Limbs - removable arms and legs, with correct joint geometry
- Limb fixation - on a flexible basis of articulated joints, which ensures movement within the natural anatomical amplitude
- Supporting structure - mobile metal frame on plastic wheels with locking clips
- Element visibility (meter) — 5
- 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
- Ready to use - comes assembled on a rack, no pre-configuration required
- Care of the surfaces — wiping with a dry or slightly damp cloth is permitted
- Organization of work - suitable for frontal demonstration to the whole class
- Service life (year) — 5
- Warranty period (month) — 12

3. Equipment

- Human skeleton model complete with skull, spine, rib cage, pelvis and limbs — 1 pc.
- Mobile metal stand with wheels — 1 pc.
- Fastening elements (hook, rod, screws) for hanging on a rack — 1 set
- Poster legend with a list of anatomical landmarks - depending on the implementation
- Passport and operating instructions — 1 pc.

The exact composition of the kit is given in the packing list. The bones and anatomical areas may be numbered; the decoding of the numbers is contained in the legend poster, which is recommended to be fixed next to the model. No prior assembly or adjustment is required for the model to work.

4. Safety measures

4.1. General requirements

- Read this passport before first use and keep it with the model.
- A teacher or specialist who has been instructed in occupational safety works with the model. Students examine and study the model only under adult supervision.
- Place the model on a flat, horizontal floor, in a place where it cannot be accidentally knocked over.
- Before demonstrating, check that the skeleton is securely attached to the stand and that all screws are tightened.
- Do not leave the model unattended. The stand moves easily - avoid getting into aisles and against doors.

4.2. Safety during movement and transportation

- Move the model slowly, holding onto the stand bar, not the skeleton.
- Carry the model over thresholds and cables without rolling over.
- Do not allow students to hang on the model, swing it, or twist the limbs with force.
- When displaying parts, place them over a table covered with soft material.
- The small bones of the fingers are the most vulnerable; handle them carefully and place them on a soft surface.

4.3. Protection against injuries during disassembly and assembly

- Remove and install parts smoothly, without jerking; do not allow forceful breakage.
- Perform joint movements only within their natural range; twisting the joints can cause damage.
- Carry the skull cap with both hands, without tilting it; incorrect placement will destroy the retainers.
- Lower the lower jaw carefully, as if opening the mouth naturally, and remove it without jerking.

4.4. It is strictly forbidden

- Use the model as a hanger, support for other objects, or as a tabletop.
- Do not leave the model near heating appliances, windows in the sun, or near an open fire; the plastic will deform.
- Apply force when disassembling: if the part does not come out easily, the sequence is most likely broken.
- Write on the model with markers, stick stickers, paint or stain the surface.
- Wash the model under hot running water, immerse in water, or use solvents.
- Independently disassemble components or change the design without the permission of the teacher or instructor.

5. Preparation for work

- 5.1. Unpack the model carefully on a flat surface, without using sharp objects inside the box. Keep the factory packaging for long-term storage and transportation.
- 5.2. Check the completeness against the packing list and inspect the bones for cracks, chips and deformations. Check the rack packaging: all components must be in place.
- 5.3. Assemble the stand: attach the support cross to the vertical bar, install the wheels and tighten all fasteners. Make sure it is stable and there is no play.
- 5.4. Place the stand on a level floor, away from doors, aisles, and hot appliances. Make sure it is stable on all four casters.
- 5.5. Lift the skeleton together, supporting it by the chest and pelvis. One person is not enough. Secure the skeleton to the stand, insert the fixing rod or hook into the provided slot. Tighten the screw firmly, but without excessive force.
- 5.6. Adjust the height so that the model's feet hang freely above the crossbar and do not rest on it. Tighten the locking screw. Rotate the model around its axis and roll the stand a few steps: the skeleton should not swing and engage the stand.

6. Procedure

6.1. Demonstration of the skeleton as a whole

Turn the model to the class from the front, then from the side and from the front, name the main parts and major function of the skeleton - support, movement and protection of internal organs.

6.2. Demonstration of the axial skeleton

Show the skull, spine, and rib cage in sequence. On the skull, name the brain and facial regions. On the spine, demonstrate the five regions, physiological curves, and intervertebral foramina. On the rib cage, show the vertebrae, ribs, and sternum.

6.3. Demonstration of belts and limbs

Show the scapula, collarbone, upper limb bones (humerus, ulna, radius, hand bones). Then show the pelvis, lower limb bones (femur, tibia, fibula, foot bones). Invite students to find these formations on their own bodies.

6.4. Demonstration of joints and connection types

Show examples of fixed joints (skull sutures), semi-mobile joints (intervertebral discs), and mobile joints (shoulder, elbow, hip). Perform smooth movements in the joints within their natural range.

6.5. Skull demonstration

Remove the skull from the skeleton. Show the brain and facial regions, skull bones, lower jaw, temporomandibular joint. Remove the cranial vault and demonstrate the cranial cavity, brain fossae, openings for blood vessels and nerves.

6.6. Completion of work

Install the skull cover, remove the skull back, make sure it is securely fastened. Make sure all removed parts are back in place and the model is kept intact.

7. Care, maintenance and possible malfunctions

7.1. Cleaning

- Remove dust with a soft brush or a dry cloth; do not use brushes with stiff bristles.
- Wash off dirt with a cloth slightly dampened in warm water with a neutral detergent, then wipe dry.
- It is forbidden to use alcohol, acetone, solvents, abrasive powders and products containing chlorine.
- Wipe the markings and numbers with special care so as not to erase them.
- Do not wash the model under running water or immerse it in liquid.

7.2. Periodic control

- Check the tightness of the stand screws and mounting assembly every month.

- Check the wheels: they should not be stuck and should roll freely.
- Inspect the joint surfaces and limb attachments: if there is any play or visible wear, contact service.

7.3. Possible malfunctions and ways to eliminate them

Symptom	Possible cause	User actions
Model sways on the rack	The mounting bracket or stand screws are not tightened.	Remove the model, tighten all threaded connections, reinstall
The stand is unstable, it rolls over.	Uneven floor, unlocked casters	Move to a level place, lock the wheels, tighten the crossbar
The wheels don't roll.	Coiled pile, dust on the axis	Clean the axle, remove any tangled threads
The limb does not hold in the mount	The rod stretched, the screw loosened	Tighten the fasteners, contact service if necessary.
The skull cap is not fixed.	Worn pins or contamination	Clean the pins, install the cover without skewing
The lower jaw is missing.	The joint springs have weakened.	Reinstall the jaw, check the joint
The spine has lost mobility.	Damage to cartilage pads	Do not try to unbend by force, contact the service
The surface is yellowed.	Prolonged exposure to sunlight	Move the model away from the window, protect it from light

8. Storage and transportation conditions

- Store the model upright on a stand, covered with a dust cover, in a dry, heated room.
- Temperature conditions: not lower than +5 °C and not higher than +40 °C, relative humidity up to 80% without condensation.
- Protect from dust, direct sunlight, explosions, explosive vibrations and aggressive vapors.
- For long-term storage or transportation, disassemble the model: remove the skull and limbs, pack it in the factory packaging or a similar rigid box, wrapping the parts with soft material.

- Do not place heavy objects on the packaging with the model.
- Transport the model by any type of closed transport, protecting it from vibrations and impacts.
- The storage period before commissioning is not limited if the conditions of temperature, humidity and protection from external influences are met.

9. Warranty obligations

- 9.1. The warranty period of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product complies with the declared technical characteristics, provided that the rules for transportation, storage and operation set out in this passport are followed.
- 9.3. During the warranty period, product defects that have arisen due to the manufacturer's fault will be eliminated free of charge. The method of elimination (repair, component replacement or product replacement) is determined by the service center.
- 9.4. Warranty service is provided upon receipt of a correctly and completely filled out warranty card and a document confirming the fact and date of purchase.
- 9.5. The warranty does not apply to 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 apply to natural wear and tear of the coating and appearance of the product, as well as to 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

Product name:	Model of the human skeleton
Product model:	LABOTRIX OSTEO S1
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

Buyer's phone number Buyer's signature

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 for the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed due to a manufacturing defect are repaired or replaced without payment from the buyer.
2. Before contacting, 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 section 7.3.
3. After the 12-month warranty period, repairs are carried out for a fee; the cost of work and 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