



Manual for the MT.5500

Thank you for choosing this Microtome. We sincerely wish that you enjoy your Euromex hand microtome MT.5500. We highly recommend looking after this equipment according to what is stated in this manual.

Euromex develops its products according to the CE marking regulations as well as emphasizing the ergonomics and security for its user. The correct using of the equipment and its good quality will permit you to enjoy this equipment for years.

The improper use of the equipment can cause cuts and injuries. Please read the points of *Instructions of use* and *Maintenance*, where we expose the security notes.

Please bear in mind the following:

This manual is inseparable from the Euromex hand microtome MT.5500, so it should be available for all the users of this equipment.

You should carefully handle the hand microtome avoiding knocks and free fall of heavy / sharp objects on it.

Never dismantle the different pieces of the hand microtome to repair it yourself, since it could produce a defective use of the whole equipment and a loss of the product warranty, as well as injuries on people that handle the hand microtome.

If you have any doubt about functioning do not hesitate in contacting your wholesaler.

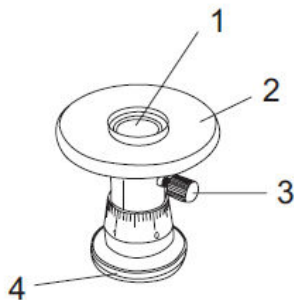
You can also tell us any doubts or suggestions you have by contacting Euromex Technical Assistance Department.

Operations made by non-qualified staff will automatically produce a loss of the hand microtome warranty.

Please make sure you keep the invoice, either for having the right to claim or asking for warranty coverage. In case you have to send the equipment to Euromex Technical Assistance Department you should enclose the original invoice or a copy as guarantee.

Manufacturer reserves the right to modify or improve the manual or equipment.

This is the simplest form of microtome in which the specimen is placed in the central well, raised by a screw and cut with a hand-held knife. This hand microtome is suitable for slicing thin sections of paraffin embedded or fresh tissues down to 10 m thin. It is ideal for introductory biology and for histology work and is also very useful in high school practices to show for example stem, leaf or root structure.



- 1.1. Central hole
- 1.2. Flat platform
- 1.3. Lateral screw
- 1.4. Micrometric knob



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Preliminary inspection

Unwrap the hand microtome, take off all the protective items and make sure that it does not present any damage because of the shipment. In case the hand microtome presents any damage tell it immediately to your transport agent or dealer so that they can make the claims in the correct time limit.

Please keep the original wrapping; you will always need it for returns enclosed with all the accessories supplied. Please check that all the accessories are enclosed with the equipment: ***We will not accept any equipment in return period unless it comes in its original wrapping.***

Instructions of use

Fit the glass stage on the microtome wide flat platform. If the glass stage does not fit, turn it until it does. If the glass stage is loose on the platform, you can hold it with silicone to avoid it moving.

Open the microtome as wide as it can go by rotating the screw on the side. You can see the clamp open or close by looking inside the cylindrical central hole.

Put the sample you want to cut into the hole and tighten it securely with the clamp by rotating the screw.

Note: The microtome can hold specimens up to 1 cm of diameter and sometimes, a carrot or other material can be used to support the specimen if it is necessary. Take the razor and slice off any excess of specimen by cutting against the flat platform until the sample is flush with the glass stage. Attention!: For your own safety always move the razor blade away from you.

Turn the knurled micrometric knob at the bottom of the microtome so the sample rises to just above the top of the microtome. The knob is graduated in 10 m (0.01mm) steps and advances 500 m (0.50mm) for each complete turn. The thinnest section which can be obtained with the hand microtome is 10 m-thin.

Take the razor blade and cut again, just like before, to obtain a thin section of the specimen. Apply a drop of water to the center of a clean microscope slide and put the thin slice on top of the water. Cover the section with a cover glass and it is ready to see under the microscope.

Note: Most of the times the cut should be stained to observe the different structures under the microscope.

To get the best results and a higher duration of this equipment it is essential to follow the processes of use.

Note: All the processes of use mentioned below will not have any value unless you keep a continued and careful maintenance. Please follow the processes of use of this manual.

This manual should be available for all users of this equipment. Always use original components and supplies. Other devices can be similar but they can damage the equipment.

Never try to repair the hand microtome by yourself, since you will lose the warranty and may provoke injuries to the people that usually handle the hand microtome. In the event of breakdown please contact your distributor to overhaul through Euromex Technical Assistance Department.

Cleaning

Never use scourers or substances that can grate for cleaning metallic parts such as stainless steel, aluminium, coatings, etc. as they damage the hand microtome and produce an early ageing of the equipment.

Use a fluff-free cloth dampened with soaped water that does not contain abrasives.

ATTENTION!!

IF EQUIPMENTS ARE NOT PROPERLY CLEAN AND DISINFECTED THEY WOULD NOT BE ALLOWED TO REPAIR BY OUR TECHNICAL SERVICE.





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