

MT.5500

microtome



1. Introduction

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 use 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

Please bear in mind the following:

- 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 may cause a defective use of the instrument 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 to contact your wholesaler
- You can also tell us any doubts or suggestions you have by contacting Euromex
- 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, 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 μm 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. Central hole
2. Flat platform
3. Tightening screw
4. Micrometric knob



2. Preliminary inspection

Unwrap the hand microtome, take off all the protective items and make sure that it does not present any damage due to shipment. In case the hand microtome presents any damage notify immediately your transport agent or dealer so that they can make the claims in the correct time limit. When it is necessary to return the product, please check that all the accessories are enclosed with the equipment

3. Instructions of use

- Open the microtome as wide as it can go by rotating the screw on the side (3). You can see the clamp open or close by looking inside the cylindrical central hole (1)
- Put the sample you want to cut into the hole and tighten it securely with the clamp by rotating the screw (3)
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
- Use 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 (4) so the sample rises to just above the top of the microtome. The knob is graduated in 10 μm (0.01 mm) steps and advances 500 μm (0.50 mm) for each complete turn. The thinnest section which can be obtained with the hand microtome is 10 μm
- To lower the clamp, turn the knob at the bottom (4) the opposite way and gently push down on the tightening screw (3)
- 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 be observed under the microscope



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

4. Cleaning

- Never use scourers or substances for cleaning metallic parts such as stainless steel, aluminium, coatings, etc. that can grate, 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.



Note: If instrument and parts are not properly clean and disinfected they will not be accepted for repair by our technical service