

AM - 3700

Automatic Microtome



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Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Features:



Information and specified use

The microtome AM 3700 model is an automatic rotary microtome particularly suitable for cutting of paraffin sections, for normal use in histology, but also to the finer cuts used in the research field. The microtome if necessary can also be used in modes: manual and semi-automatic.

The microtome is coated by a body in a special plastic material resistant to solvents and free of edges thus minimizing the risk of danger to the operators.

Safety and operator comfort

The flywheel is equipped with ergonomic handle for ease of cutting.

The left of the cutting wheel is placed the security key to immediately block the operation of the instrument.

The blocking of the rotation flyer is easily operated and can be accommodated in any position the arm sample holder. It also comes with a mechanical safety catch located under the flying shear.

The upper space of the microtome is equipped with a large area of work surface, covered with a sheath slide that allows the operator to support the accessories needed for cutting (the package of disposable blades, the brush collect slice, etc.)



The orientation of the samples is possible in a simple and precise; if the red lights are visible, then the guidance plan is in zero position. The steel clamp is equipped with a device to "clamp" for quick change of the sample and sample holder fixed tilt.



The clamp is suitable for all types of standard biocassettes, and is interchangeable by the operator with the clamp to the biocassettes ring (optional).

The sample holder arm is equipped with a e clamp is suitable for all types of standard

biocassettes, and is interchangeable by the operator with the clamp to the biocassettes ring (optional). The sample holder arm is equipped with a axes x and y. Through the mechanism that allows a precise and quick orientation along the housing port disk sample it is possible to use the clamp for the super mega cassettes, equipped with a dovetail for insertion.

1.3 Reliability and precision of the cut

The microtome AM 3700 has the ability to adjust the cutting thickness and roughing.

The holder is universal suitable for disposable blades, features the tilting protection.

The knife holder has the possibility of lateral translation to use the entire edge of the blade without removal of the same.

The translation of the knife holder is possible in the three positions corresponding to the length of a standard biocassetta (left, right, center), so as to allow the use of all the microtome knife without loosen the lock.

The section thickness and roughing are controlled electronically by a chip.

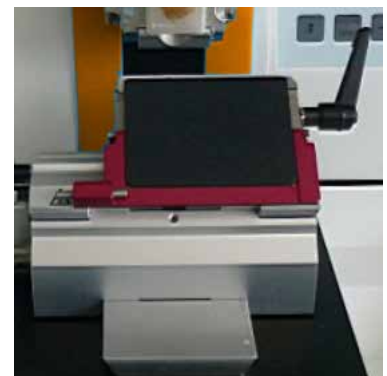
The automatic feeding of the sample is under electronic

control with high precision Side. The left side steering wheel, allows you to set the automatic speed of execution of the cut through a variable speed 25 rotations / minute to 55 rotations / minute, to allow the success of the most difficult and most precision-cut slices.

The progress and the automatic retraction of the sample can be excluded by the operator.

The cut high precision for any type of section included in paraffin, resin, suitable for routine activities and laboratory research between 0.5 microns and 100 μm by stepper motors and roller bearings without play and low maintenance.

The microtome is also designed for cutting executions extremely fine increments of 0.5 μm from 0.5 to 2 μm .



The display, located on the left side of the operator, gives an indication of the most important working parameters, including:

- Cutting thickness
- Trimming thick
- Switching the operating mode "Cutting / trimming"
- Partial and total counting of sections
- Mode single cut
- Mode continuous cutting



The control display is easy to use even when wearing protective gloves and can be easily cleaned.

The structure of the microtome is extremely stable, and is equipped with a powerful motor also for execution of particularly hard cuts.

Equipped with tray for collecting scrap sections surrounding the front area of work, including the underside of the blade, ergonomic for the operator and removed from the instrument for easy cleaning. The tray lock is provided at the precise interlocking between the tray itself and the front structure of the microtome.

►► **Technical specifications**

Electrical data

Protection class: I

Fuses type Fst: 10 A

Pollution class: 2

Over-voltage Category II Installation

Power supply: 220V ~ 50Hz and 110V ~ 60Hz

Maximum power draw: 150 V/A

Thickness section and advancement

The minimum thickness of cut is set to 0.25 μm .

For the setting "cutting" the setting range is from 0.25 to 100 μm The allowable values and cutting increases are:

- 0,25 to 2,5 μm in 0,25 μm increments;
- 2,5 to 5 μm in 0,5 μm increments;
- 5 to 10 μm in 1 μm increments;
- 10 to 30 μm in 2 μm increments;
- 30 to 60 μm in 5 μm increments;
- 60 to 100 μm in 10 μm increments

The minimum thickness of trimming is set to 1,0 µm.

For the setting "trimming" the setting range is from 1-600 µm. The allowable values and cutting increases are:

- 1 to 10 µm in 1 µm increments;
- 10 to 20 µm in 2 µm increments;
- 20 to 50 µm in 5 µm increments;
- 50 to 150 µm in 10 µm increments;
- 150 to 600 µm in 50 µm increments

Retraction specifications:

- Manual mode: 0 to 50 µm in 5 µm increments;
- Automatic mode: speed based. Selectable

Control features and functionality

Horizontal Specimen feed: 25 ± 1 mm stepper motor

Vertical stroke: 70 mm

Maximum sample size (WxHxD): 70 X 70 X 40 mm

Sample orientation: Axes X and Y: 0 to +/- 8 °, with the zero point.

Z axis: 90 ° rotation

Cutting speed: variable speed up 1500 µm/s to 3500 µm/s

Dimensions and weight

Total length: 475 mm

Total depth: 580 mm

High: 340 mm

Net Weight: 40 kg

Instrument equipment

Standard accessories

1 collection tray sections

1 holder blades

1 clamp for standard samples

Power cable

Manual instructions

Optional accessories

1 bottle (50 ml) of microtome oil

1 box of 50 disposable blades type S35

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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DSC/TGA



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Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

Regulatory compliances



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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