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# Data Sheet

## Manual Rotary Microtome MR2258



Version 1.1

Histo-Line Laboratories

20/07/2016

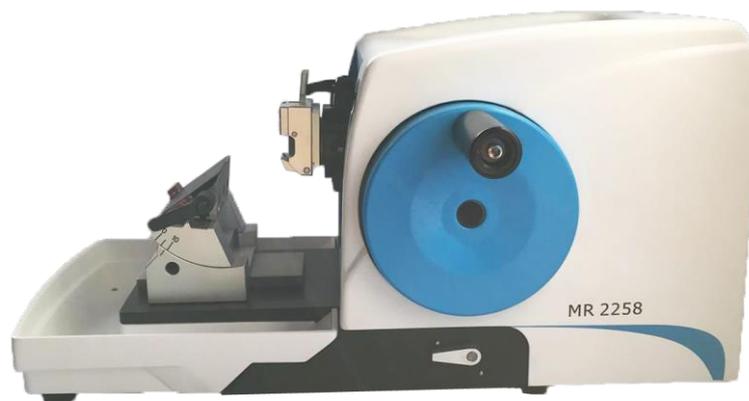
Revision Date:31/10/2018



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## 1.Features



## *1.1 Information and specified use*

The microtome Histo-Line MR2258 is a rotary microtome particularly suitable for manual cutting of paraffin sections, for normal use in clinical histology and histopathology, but also to the finest cuts used in the research field.

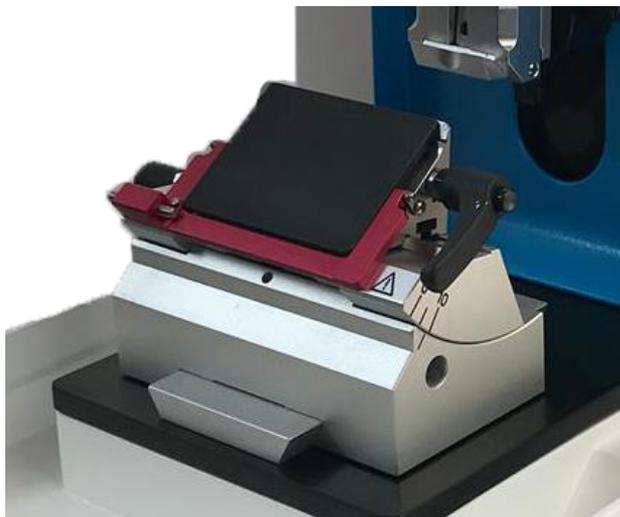
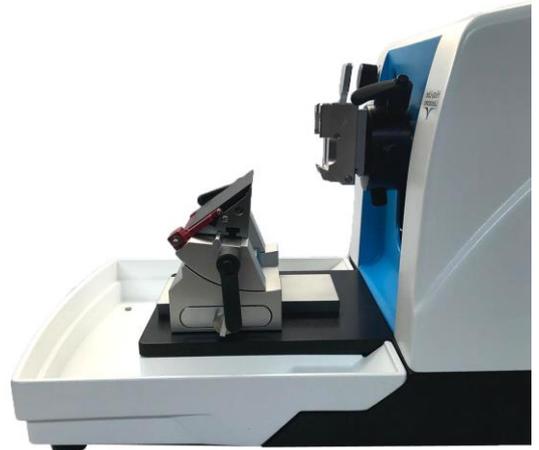
The microtome is coated by a body in a special plastic material resistant to solvents and free of edges thus minimizing the risk of danger to the operators.

## *1.2 Safety and operator comfort*

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

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. )

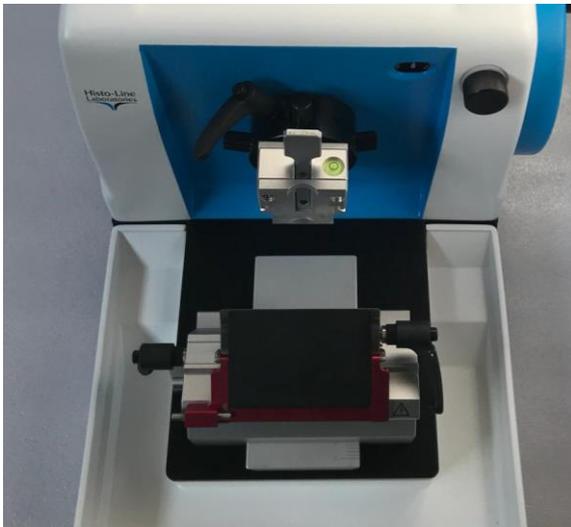


The orientation of the samples is possible in a simple and precise; if the red lights are visible, then the guidance plan is in zero position. The steel clamp is equipped with a device to "clamp" for quick change of the sample and sample holder fixed tilt.

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 mechanism that allows a precise and quick

orientation along the axes x and y. Through 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 MR 2258 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 microtome is also designed for cutting purposes executions in increments of 1  $\mu\text{m}$  from 1  $\mu\text{m}$  to 20  $\mu\text{m}$ . The micrometer orientation device, located on the left side of the operator, gives an indication of cutting thickness.

The microtome is also designed for cutting purposes executions in increments of 0.5  $\mu\text{m}$  from 0.5 to 2  $\mu\text{m}$ . The structure of the microtome is extremely stable, and is reliable even for execution of cuts particularly hard. 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 it self and the front structure of the microtome.



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## 2. Technical specifications

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### *2.1 Thickness section and advancement*

The minimum thickness of cut is set to 0,5  $\mu\text{m}$ .

For the setting "cutting" the setting range is from 0,5 to 60  $\mu\text{m}$  The allowable values and cutting increases are:

- 0,5 to 2  $\mu\text{m}$  in 0,5  $\mu\text{m}$  increments;
- 2 to 10  $\mu\text{m}$  in 1  $\mu\text{m}$  increments;
- 10 to 20  $\mu\text{m}$  in 2  $\mu\text{m}$  increments;
- 20 to 60  $\mu\text{m}$  in 5  $\mu\text{m}$  increments;

The minimum thickness of trimming is set to 0,5  $\mu\text{m}$ .

For the setting "trimming" the setting range is from 0,5 -60  $\mu\text{m}$ . The allowable values and cutting increases are:

- 0,5 to 2  $\mu\text{m}$  in 0,5  $\mu\text{m}$  increments;
- 2 to 10  $\mu\text{m}$  in 1  $\mu\text{m}$  increments;
- 10 to 20  $\mu\text{m}$  in 2  $\mu\text{m}$  increments;
- 20 to 60  $\mu\text{m}$  in 5  $\mu\text{m}$  increments;

### *2.2 Control features and functionality*

Horizontal Specimen feed: 28  $\pm$  1 mm

Vertical stroke: 60 mm

Maximum sample size (WxHxD): 50 X 60 X 40 mm

Sample orientation: Axes X and Y: 0 to  $\pm$  8  $^\circ$ , with the zero point.

Z axis: 90  $^\circ$  rotation

Movable range for the blade holder basal:

- Forward/Backward:  $\pm$ 65 mm
- Left / Right:  $\pm$ 40 mm

### *2.3 Dimensions and weight*

Width: 400 mm

Depth (including tray): 540 mm

Depth (excluding tray): 500 mm

Height of cutting edge: 105 mm

Height: 290 mm

Weight (without accessories): 25 kg

## *2.4 Instrument equipment*

### *Standard accessories*

- 1 collection tray sections
- 1 holder blades
- 1 clamp for standard samples
- Manual instructions

### *Optional accessories*

- 1 bottle (50 ml) of microtome oil
- 1 box of 50 disposable blades type S35