Fully Automated Microtome - Motorized Rotary Microtome - 0.25-100 µm Sections - 70 mm Stroke

Model **MSRMT-FA398SWISS** | Brand **Master Science**





The Master Science Fully Automated Microtome is a motor-driven rotary instrument for paraffin sections and routine slices. The operator can switch quickly between manual and automated sectioning, and the automatic cutting speed is adjustable through 15 levels.

KEY HIGHLIGHTS

- Less operator fatigue
- Very thin sections
- Longer blade life
- Protected hands
- Flexible working

AT A GLANCE

0.25 to 100 µm SECTION THICKNESS RANGE	**1 to 600 µm** TRIMMING THICKNESS RANGE
±5% SLICE ACCURACY	**Level 0 to 15** AUTOMATIC SECTIONING SPEED

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Overview

Section thickness runs from 0.25 to 100 µm and trimming from 1 to 600 µm, both shown on a green digital display with the slicing speed. A separate slicing controller can sit on the left or right of the instrument.

Key Benefits

Less operator fatigue
the Master Science Fully Automated Microtome cuts under motor drive.

Very thin sections
settings start at 0.25 µm.

Longer blade life
lateral holder movement uses three segments of the blade.

Protected hands
full-length red guard bar and lockable handwheel.

Flexible working
semi-automatic slicing and trimming remain available with the controller off.

For hand-operated sectioning, see the Master Science rotary microtome.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSRMT-FA398SWISS
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Section Thickness Range	**0.25 to 100 µm**
Section Increments	0.25 µm (0.25-2.5), 0.5 µm (2.5-5), 1 µm (5-10), 2 µm (10-30), 5 µm (30-60), 10 µm (60-100)
Minimum Section Thickness	0.25 µm
Trimming Thickness Range	**1 to 600 µm**
Trimming Increments	1 µm (1-10), 2 µm (10-20), 5 µm (20-50), 10 µm (50-150), 50 µm (150-600)
Retraction	0 to 50 µm in 5 µm steps (0 = off)
Horizontal Feed	28 mm
Vertical Specimen Stroke	70 mm
Tool Holder Base Movement	60 mm, front to back
Knife Holder Lateral Movement	23 mm
Specimen Orientation	X/Y 8°
Feed Rate	Slow 1500 µm/s; fast 3500 µm/s
Automatic Sectioning Speed	Level 0 to 15
Emergency Braking System	Yes
Slice Accuracy	**±5%**

DIMENSIONS & WEIGHT

Maximum Specimen Size	39 × 40 mm with standard wax block clamp (other sizes available)
Dimensions (W×D×H)	580 × 475 × 340 mm
Net Weight	41 kg

POWER

Voltage	AC 220 V ±10% 50 Hz (standard); AC 110 V ±10% 60 Hz
Power	150 W

COMMON PROBLEMS AND HOW THIS MICROTOME HELPS

Common Problems and How This Microtome Helps	How the Master Science Fully Automated Microtome reduces sectioning problems:
Inconsistent hand speed	motorised cutting at a set speed level.
Block scraping the blade on the return stroke	adjustable retraction.
Blade wearing in one spot	holder shifts sideways by 23 mm.
Accidents during block changes	handwheel lock and emergency brake.

Applications

The Master Science Fully Automated Microtome is used for
Paraffin sectioning Routine tissue slices Histology and pathology laboratories with high section counts

Drive and Control

- Intelligent feed control with manual and automated modes
- Sectioning, trimming, fast forward, fast backward and automatic retraction
- Precision screw motion mechanism
- Controller mountable on left or right side

Display

- Green digital display of slice thickness, trimming thickness and speed

Safety

- Emergency braking and alarm systems
- Drive overload protection
- Auto-sleep protection
- Handwheel lockable in any position

Handling

- Quick change between paraffin block clamp and cassette clamp
- Push bar for easy blade change
- Large removable waste tray
- Storage area on top of the housing