



M3500 Brochure

Introduction

The M3500 has been introduced to make a flat-cutting radial action wax microtome available to histologists at a realistic price.

Its well-proven cutting action has been available for many years and section quality has proved to be of the highest.

Its design incorporates specific features to enable the user to cut sections quickly, easily, safely and comfortably.

It is available with a range of accessories that will suit the most discerning customer including specimen orientation, motorised advance/rewind, motor drive and a unique lever release Feather[™] blade holder.

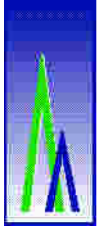


Innovation for today – reliability for tomorrow



Main Features

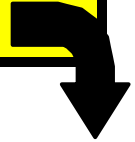
- Flat-cutting radial action for superb results
- Automatic retraction on return stroke
- Motorised advance rewind with dual controls (left and right hand)
- Section counter as standard
- Motor drive (Available late 2002)
- Accepts a wide range of knives and disposable blade holders
- Unique lever release Feather blade holder for easy and safe operation
- Height adjustable safety guards to fit different size knives and blades
- Large integral debris tray takes control of waste
- Innovative debris visor increases safety when a blade or knife is loaded
- Can be used comfortably, positioned at 90° to the operator
- 10 position hand wheel lock for safety and convenience
- Quick release cassette holder as standard
- Specimen orientation available
- Advance/rewind stepping motor drive can be stalled without damage
- Lateral blade holder movement ensures full use of disposable blade



Description

Making a radical leap forward in wax sectioning technology, the M3500 incorporates a flat-cutting radial action. This has a distinct advantage over a vertical cutting microtome in that the specimen moves along the blade, as well as down on to it, thus producing a slicing cut (similar to a guillotine). This cutting action produces less section compression than other methods and therefore gives superb results.

Radial Cutting Action



The M3500 incorporates the latest design thinking, using high quality moulded materials to soften curves and strengthen construction while keeping the overall weight down in order for the instrument to remain relatively portable, (cutaways in the plinth act as handgrips) but heavy enough to remain stable whilst sectioning. The advance/rewind switch has been duplicated on either side of the front and other controls have been positioned so that the microtome can be used either front-on or side-on to the operator.

Innovations, including a debris visor doubling up as a safety shield, a debris blind and trap to keep the inner mechanism clean and a deep integral debris tray to take control of waste, add up to make operations easier, cleaner and safer for the operator.



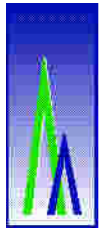
Solid Knife fitted



Lever Release Feather™
Blade Holder



Ribbon Sections



Technical Specifications

Section thickness range	0 to 30µm
Section thickness increments	2µm
Fine feed screw section thickness range	0 to 15µm
Fine feed screw section thickness increments	1µm
Automatic retraction	10µm
Head advance distance	25mm with knife at 0°
Motorised advance/rewind speed	116 µm/s
Specimen orientation	+/- 5°
Specimen rotation	360°
Specimen holder (standard)	Cassette quick release holder
Specimen holder (optional)	Standard vice clamp
Specimen holder (optional)	Cassette quick release holder with orientation
Specimen holder (optional)	Standard vice clamp with orientation
Section counter	6 digit LCD
Section counter power supply	2 x AA batteries
Horizontal specimen feed	25mm @ 0° knife angle
Vertical specimen stroke	57mm
Angular cutting motion	53°
Maximum specimen size	25mm x 30mm
Knife Holder angle adjustment	0 – 25°
Motorised advance/rewind power consumption	30VA
Supply Voltages	220/240V 50/60Hz and 110/115V 50/60Hz
Net weight	26Kgs
Gross weight	30Kgs
Dimensions	W450mm H300mm L440mm
Packing specifications	59 x 59 x 45 cms, (0.155m cube)

Ordering Information

M3500-01 Radial microtome with standard knife holder and cassette quick release holder

M3500-02 Radial microtome with standard knife holder and standard vice clamp

Configurations

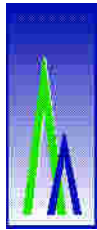
230MAR Motorised advance/rewind (220/240V 50/60Hz)

115MAR Motorised advance/rewind (110/115V 50/60Hz)

230MR Motorised drive (220/240V 50/60Hz - Available late 2002)

115MR Motorised drive (110/115V 50/60Hz - Available late 2002)

212-045 Fine feed screw 0 to 15µm, 1µm increments (factory fitted)



Accessories (supplied separately)

212-048	Standard vice clamp, can be fitted instead of quick release cassette holder at no extra cost
212-049	Standard vice clamp with orientation
212-046	Cassette quick release holder
212-047	Cassette quick release holder with orientation
50230	Standard knife with box, C profile
50724	Knife sharpening back for 50230
52671	Knife sharpening kit
57612	Coarse abrasive - 6gms net
57611	Fine abrasive - 6gms net
57610	Honing compound - 6gms net
50239	Clock oil - 6gms net
57903	Lever release Feather [™] blade holder
50241	Pack of 50 Feather [™] blades
138404	Spare fuse 1 amp (T)
52658	Vertical vice clamp
52632	Vertical vice clamp 45°
57713-1	Bright Cryospray 134, 300ml aerosol can (Not for export sales)
57713	Bright Cryospray 134, 300ml aerosol can, carton of 12 cans (Not for export sales)
57491	Low temperature oil, 200ml bottle
57491-1	Low temperature oil, 4.54 litre drum
57344	Knife cleaning brush