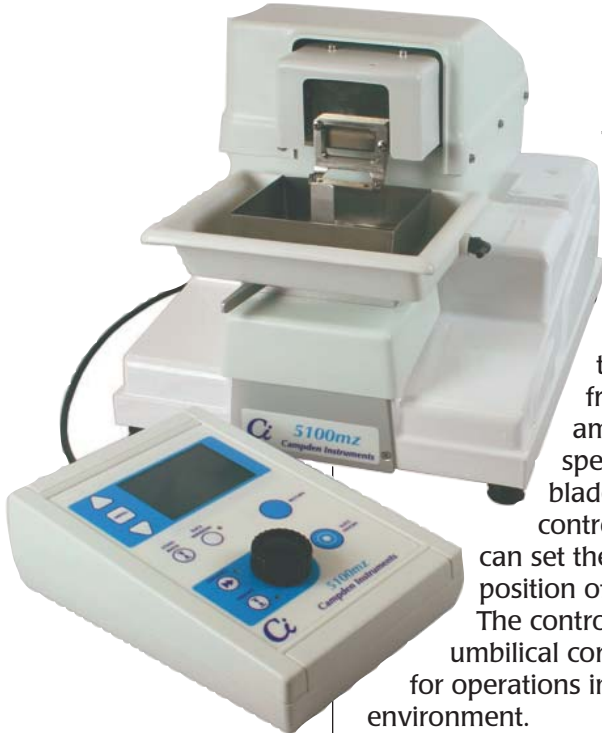




CA-5100MZ

Vibrating Microtome for Tissue Slicing



The user interface on this new vibrating slicer lets you program a wide range of parameters, including the vibration frequency and amplitude. The speed of the blade advance is controllable, and you can set the start and stop position of blade travel. The control box is on an umbilical cord, making it ideal for operations in an isolated environment.

You can use it in fully manual or the semi-automated "Slice window" mode, which automatically remembers the start and finish position of the slice. This entry-level microtome is perfect for techniques such as histology, organotypic slice culture and low resolution imaging with a fixed blade holder and a mechanism Z axis error of 5–8 μ m.

Required Accessories

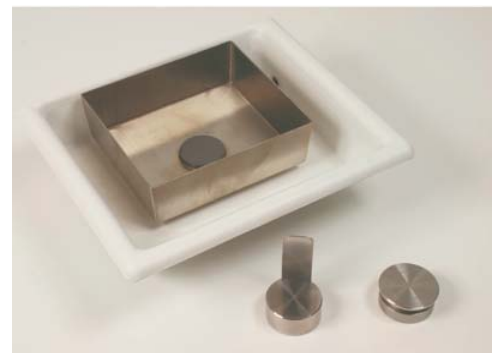
Ceramic Blades (sold in packs of 5) are honed with a single bevel for superior slicing.

Stainless Steel Blades (sold in packs of 50) are another economical option.

- Z-axis calibration unit (Optional)
- Vibration frequency: 50–80Hz
- Adjustable amplitude: 0.5–1.5mm
- Fine control of the blade advance (min. 0.1 mm/sec)
- Set start and finish position of blade travel
- Remote controls allowing for sterile use in culture hood
- Ice water bath easily removed for cleaning
- Optional cold light and magnifier for clear observation
- Peltier cooled bath (Optional)

Optional Accessories

Bath Mount for Vibrating Microtomes: The edge of the ice bath's outer wall has a rolled edge. This prevents the vibration of the bath wall at certain harmonics of speed and amplitude, making it more stable, with less splash and less evident vibration.





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Temperature Controlled Standard Tissue Bath with a controllable temperature range of approximately +10°C to 0°C with accuracy of $\pm 1^\circ\text{C}$. These are designed for experiments where exact control of a low slicing temperature is required.

Integrally Mounted Cold Light Source and Magnifying Glass: This is a magnifying glass for general global slices offering approximately 1.5x magnification. With integral cold light, it is powered directly by the vibrating Microtome.



Upgrade Kit allows you to add the kit to optimally calibrate the Z-axis deflection of the blade to $2 \pm 0.1 \mu\text{m}$.

SPECIFICATIONS

Section thickness step size	0.001 mm
Bath table rise & fall speed.....	1.0 mm/sec maximum
Maximum (vertical) travel of bath table.....	19 mm
Cutting head advance speed	
Minimum	-2.0 mm/sec (-1.00 during slicing)
Maximum	+2.0 mm/sec (+1.00 during slicing)
Cutting head retraction speed.....	2.0 mm/sec
Maximum travel of cutting head	40 mm
Blade oscillation frequency	
Minimum	50 Hz
Maximum	80 Hz (amplitude dependent)
Frequency step size.....	5 Hz
Blade oscillation amplitude	
Minimum	0.5 mm (nominal)
Maximum	1.5 mm (nominal)
Amplitude step size.....	0.5 mm (nominal)
Power requirements (Selectable)	115VAC 60Hz, 230VAC 50Hz
Power rating.....	100W
Fuse rating (115V)	T2A 250VAC
Fuse rating (230V).....	T2A 250VAC
Light source	Powered from 5100mz
Dimensions.....	350mm x 450mm x 350mm (excluding magnifier/light source)
Weight.....	15kg (excluding magnifier)

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