

Vibrating Microtomes - Comparative Table

	7000smz-2	5100mz-Plus	5100mz
Optimal Z-Axis Deflection	Sub- μm ($\pm 0,1 \mu\text{m}$)	2,0 μm ($\pm 0,1 \mu\text{m}$)	$\approx 5\text{-}8 \mu\text{m}$
Opti-cal Vertical (Z-axis) Calibration Device*	Included as standard	Included as standard	Optional Accessory
Blade Oscillation Frequency Range	50-120 Hz	50-80 Hz	50-80 Hz
Blade Oscillation Amplitude (nominal)	Minimum: 0,5 mm Maximum: 2,5 mm	Minimum: 0,5 mm Maximum: 1,5 mm	Minimum: 0,5 mm Maximum: 1,5 mm
Amplitude Step Size (nominal)	0,25 mm	0,5 mm	0,5 mm
Advance Speed Resolution During Slicing	0,01 mm/sec	0,1 mm/sec	0,1 mm/sec
Specimen Retraction as Blade Retracts	Yes	Yes	Yes
Max Specimen Size	33x50x19	33x50x19	33x50x19
Memory to Store Section Thickness	Yes	Yes	Yes
Multiple User Settings	8 different	8 different	8 different
Operating Modes	Manual, semi-automated Slice Window or fully automated Profile Repeat	Manual or semi-automated Slice Window	Manual or semi-automated Slice Window
Cooling Options	Ice bath or optional Model 7610A Tissue Bath Cooler	Ice bath or optional Model 7610A Tissue Bath Cooler	Ice bath or optional Model 7610A Tissue Bath Cooler
Dimensions	16.5" x 15.7" x 10.6" 420 x 400 x 270 mm	13.7" x 17.7 x 13.7" 350 x 450 x 350 mm	13.7" x 17.7 x 13.7" 350 x 450 x 350 mm