



# Fully Automated Microtome

## Model no RSB-56

**Fully  
Automated  
Microtome**



The machine is a streamline design with advance features stable and reliable performance and ease to use. The feeding system uses an intelligent control mechanism enable quick switching between manual or automated smart sectioning mode, automatic slicing speed is adjustable. Advanced drive systems and multiple functions including sectioning, trimming, fast forward/backward, quick mode conversion including automatic retraction.



**AARSON SCIENTIFIC WORKS**

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## DESCRIPTION



- AARSON offer streamlined design, with advance features, stable and reliable performance and ease to use.
- The feeding system uses an intelligent control mechanism, enable quick switching between manual or automated smart sectioning mode, automatic slicing speed is adjustable.
- Advanced drive systems and multiple functions including sectioning, trimming, fast forward, fast backward, quick mode conversion including automatic retraction.
- Incorporates an international advanced screw motion mechanism to ensure precision, thus achieving superior sectioning performance.
- Pure-green digital display of slice thickness, trimming thickness, slice count and slice speed.
- Trimming and slicing are operated under a control system and can be switched easily.
- Automatic slicing speed is continuously adjustable with safety and emergency braking system.
- Hand-wheel balance is precisely adjusted and can be locked at any position to ensure safety of operation.
- Blade holder can be laterally moved to avoid moving the blade with direct contact.
- The micro protection bar on the blade holder covers the whole length of blade to protect the user and the push bar enable easy changing of the blade.
- Provided with motorized sectioning facilities with forward & backward coarse feed speeds.
- Having precision micrometer feeding system with 3-4 modes of sectioning.
- Electro mechanical feed system for fine and trimming section thickness and backward specimen movements via stepping motor.
- Able to provide section thickness range of 0.5 micron to 100 micron.
- Trimming thickness feed is via precision stepping motor for 5 micron to 600 micron.
- Having spacious, removable section waste tray with integrated arm rest.
- The knife holder is able to hold both high profile & low profile disposable blades.





## SPECIFICATIONS:



Section Thickness Setting Range:	0.25-100 $\mu$ m, a) 0.25-2 $\mu$ m in increment 0.25 b) 2 $\mu$ m-5 $\mu$ m in increment 0.5 $\mu$ m c) 5 $\mu$ m-10 $\mu$ m in increment 1 $\mu$ m d) 10 $\mu$ m-30 $\mu$ m in increment 2 $\mu$ m e) 30-60 $\mu$ m in increment 5 $\mu$ m f) 60 $\mu$ m-100 $\mu$ m in increment 10 $\mu$ m.
Trimming Thickness Setting Range:	1-600 $\mu$ m a) 1-10 $\mu$ m increment 1 $\mu$ m, b) 10-020 $\mu$ m increment 2 $\mu$ m, c) 20-050 $\mu$ m increment 05 $\mu$ m d) 50-150 $\mu$ m increment 10 $\mu$ m e) 150-600 $\mu$ m increment 50 $\mu$ m.
Retraction Setting Range:	0-50 $\mu$ m in step off 1 $\mu$ m
Horizontal Feed	25mm.
Vertical Specimen Stroke	70mm.
Specimen Holder Rotation at angle	within 360 degrees.
Movement range of the base of specimen holder	65mm (front to back).
Specimen clamp rotation at any angle	within 360 degree.
Specimen orientation	XY-8°.
Minimum setting of sectioning	thickness 0.25 $\mu$ m.
Maximum specimen size	70x70mm.
Precision error	-1 %.
Working voltage	AC 220V $\pm$ 10% 50Hz (standard model) AC 110V-10% 60Hz.
Power	150W.

