

Electron-beam Heater for STM tip

EBT-100

Compact electron beam gun and power supply for STM tip cleaning in UHV. Thermal electrons from a tungsten filament are focused on the STM tip. Tip filament distance is able to adjust by linear motion feedthrough.



Features

- ▣ Easy operation, light weight, compact
- ▣ Intensive heating of probe tip in ultra high vacuum
- ▣ Dramatic effect on data improvement in Ultra-high vacuum STM measurement

Application

- ▣ The tip of the electron beam STM probe is heated and cleaned in ultra high vacuum

Component

Electron Beam Gun	1
Power Supply	1
Remote control (EBR-100)	1
Cable	1
Exchange Filament (U200-1030)	1
Manual	1

Specifications

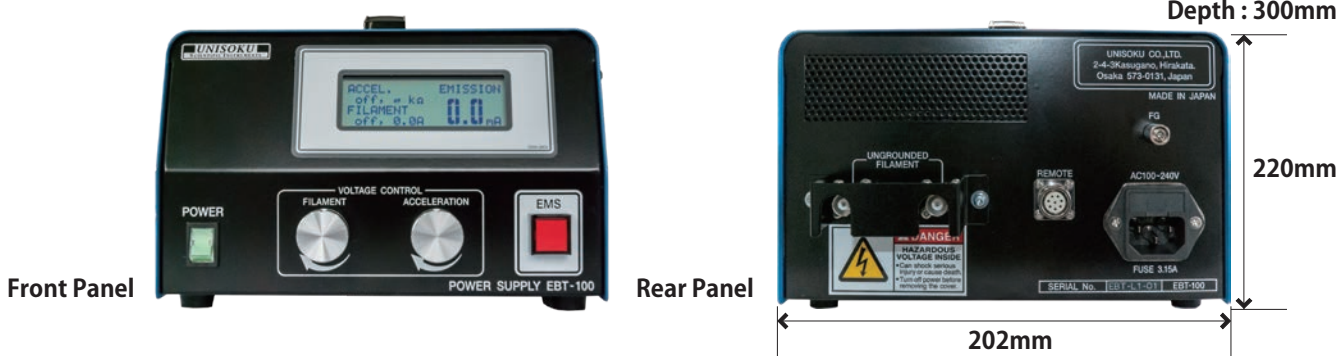
Electron Beam Gun

Filament	Tungsten
Vacuum Requirement	1×10 ⁻⁸ Torr
Mounting Flange	φ70 ICF
Overall length (minimum)	337.8mm (Changeable)
Liner Motion Stroke	46mm (Adjustable)
Weight	<3kg

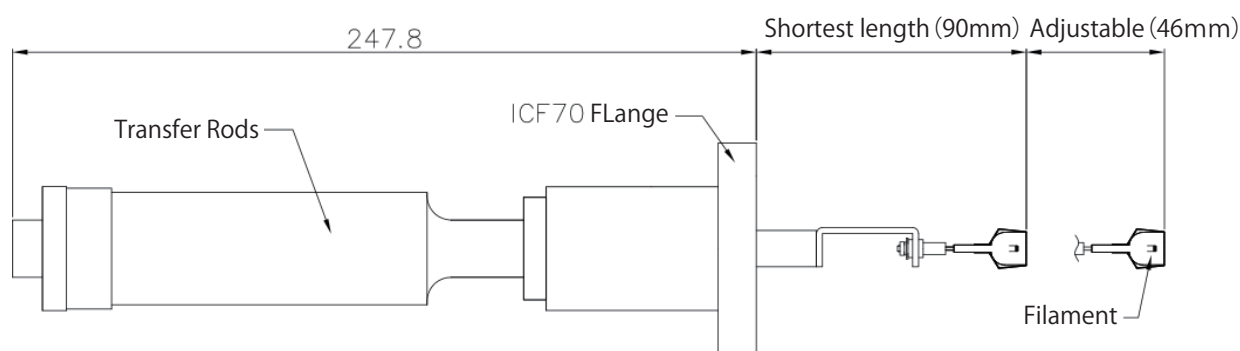
Power Supply

Filament voltage	Max. 12V (variable)
Filament current	Max. 3.0A (variable)
Acceleration voltage	0 ~ -1.5 kV (variable)
Emission current	Max. 5.9 mA (variable)
Weight	<5Kg

Power Supply



Electron Beam Gun



We meet your requirement on dimension and stroke.

Instrumental components are subject to change without prior notice for improvement in performance.