

Your Partner in Probing Solutions



EB Controlled Environment Probe Station (CG-196)

Take your DC and RF further with low and high temperatures under vacuum or other gases

The EB Controlled Environment Probe Stations combines mechanical expertise from our flagship probe station and broadens the test parameters

Features

- Large Vacuum Chamber with Industry Standard Ports (NW/ISO/KF)
- Anti-Vacuum Force Micropositioners with 1 μm Stepping Resolution
- Mounting Up to 6 Micropositioners
- Anti-Vibration Table Included
- Select from Low Temperature Range (80K - 480K) or High Temperature Range (RT - 950 °C)
- Operate from 10^{-3} torr (10^{-6} Option) to 10^4 torr Pressure Level
- Apply dedicated gas for sensor testing
- Probe sample from outside the chamber

Applications

- Basic IV/CV
- RF, Single Broadband Probing

Accessories

- High Resolution Sample Holder



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EB CG-196 PROBE STATION

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Station Specifications

Station Footprint	915 mm W x 915 mm D
Station Height	1300 mm Including Microscope
Station Weight	320 kg
Anti-Vibration Table Stability	Dissipation of 1 μ m
Vacuum Chamber Material	Steel
Chamber Inner Diameter	250 mm
Port Availability	NW50/NW25 or Custom
Minimum Pressure Level	10 ⁻³ torr (Rough Pump)/ 10 ⁻⁶ torr (Turbo Pump)
Maximum Pressure Level	4560 torr
Viewing Window Material	Fused Silica
Viewing Window Diameter	100 mm
Chuck Material	Copper or Steel
Chuck Diameter	40 mm (Cold), Up to 100 mm (Hot)
Full Temperature Range	80K-1223K (Requires Swap)
Temperature Resolution	0.1°
Heating Method	Resistive
Micropositioner Capacity	Up to 6
Micropositioner Mount Type	Screw Bolt
Micropositioner Travel Range	25 mm all X-Y-Z Linear
Micropositioner Theta Range	$\pm 10^\circ$ (RF Only)
Micropositioner Resolution	1 μ m Linear, 0.01° Theta
Anti-Vacuum Resistance	50 kgF
Electrical Connection (DC)	Triaxial (Banana as Option)
Electrical Connection (RF)	SMA / 3.5 mm / 2.92 mm
Microscope Stage	High Precision Linear Stage
Microscope Stage Travel Range	50 mm X-Y Linear
Microscope Stage Resolution	1 μ m
Microscope Zoom Range	0.75x - 4.5x
Microscope Eyepiece	20x
Microscope Magnification Range	15x - 90x
Microscope Working Distance	103 mm



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EB CG-196 PROBE STATION

Micropositioner

All micropositioners offer X-Y-Z linear-motion travel with no backlash



EB-CGMP25

Resolution: 1 μm

Screw Resolution: 280 μm

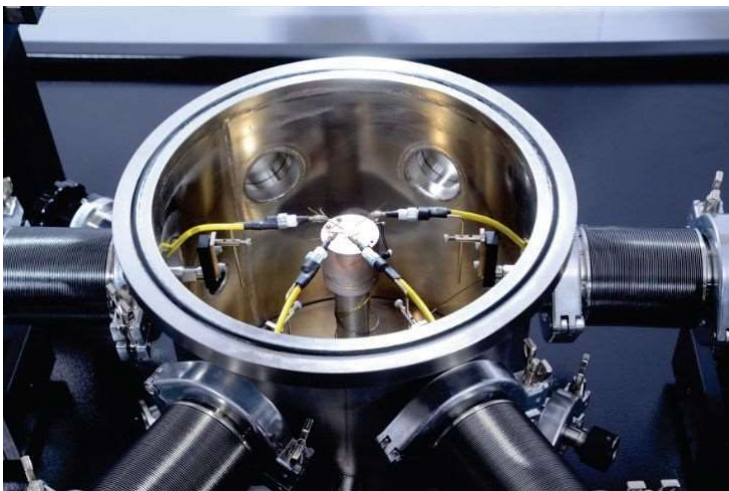
Travel Range: Linear 25 mm X-Y-Z

Dimensions: 150 mm W x 220 mm D x 300 mm H

Weight: 8000 g

Used For: DC/RF Capable

The EB-CGMP25 is a DC and RF compatible micropositioner. This model can be used to retrofit non-Everbeing vacuum probe station.



DC Tip Holder Options

Triaxial: 500 V/ 1A, 500 fA Leakage

Banana: 1.5 kV/ 4A, 10 nA Leakage



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