



EB-6V mmW Probe Station

Optimized mmW Probe Station for precise integration with VDI, OML, Keysight, R&S Millimeter-Wave Modules

The EB-6V is a market proven solution for mmW research. The following features are available to the system:

Features

- Customized positioners to reduce waveguides between millimeter-wave modules and probe head
- Firm and stable positioners for extenders and tuners of all sizes
- Integrated dial gauge determining contact scratch on probes
- Precise integration allowing direct link of probes
- North and south bridge for additional DC and RF micropositioners
- Coaxial style high precision stage
- Back-lash free movement
- Micropositioner Standby Dock

Applications

- High Performance RF
- Single Broadband Probing
- Differential mm-Wave
- Basic DC (IV/CV)

Accessories

- Hot Chuck with Auxiliary Chuck with Temperature Controller
- Vibration Free Table
- Shielding Box

EB-6V PROBE STATION

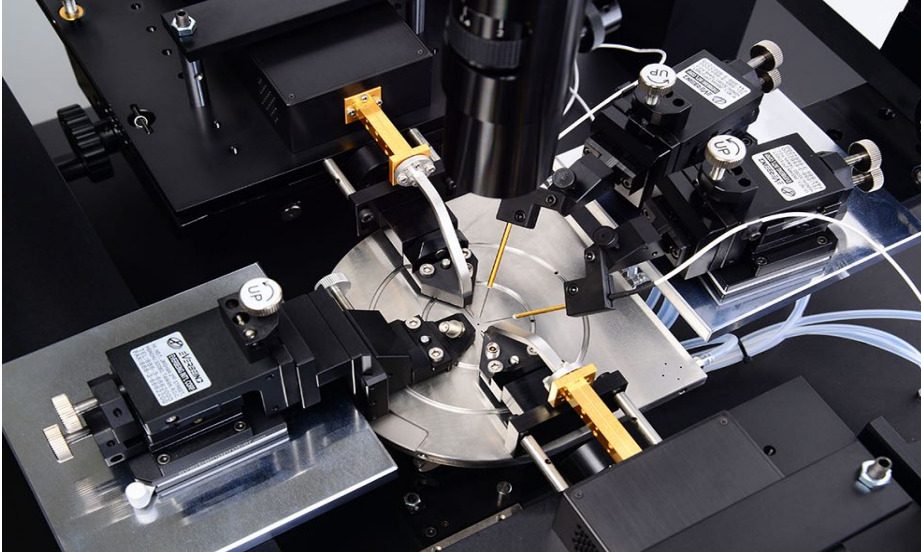
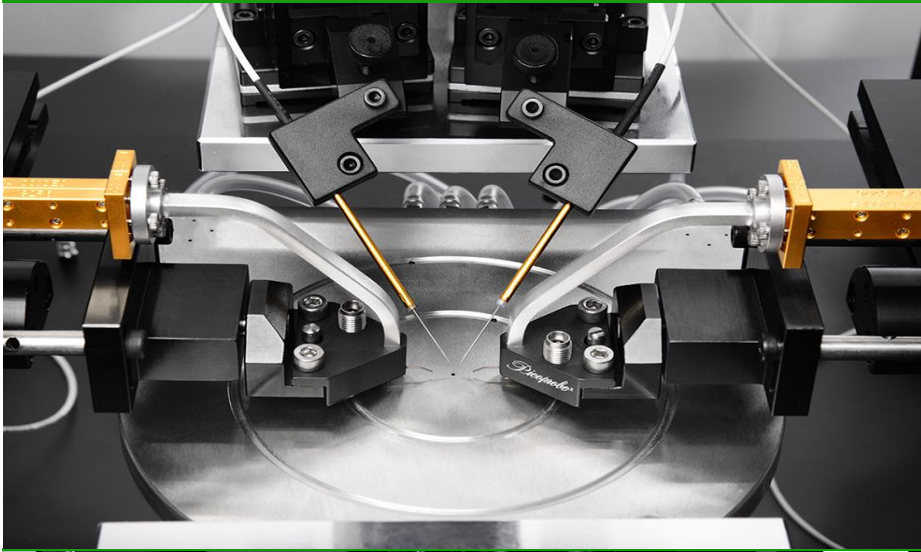
Your Partner in Probing Solutions

Station Specifications

Station Footprint	760 mm W x 660mm D
Station Height	450 mm (to Platen)/700 mm (to Microscope)
Station Weight	80kg
Platen Material	Hard Chrome Plated Steel
Platen Dimension	120 mm x 180 mm (North and South)
Platen Capacity	12 DC or 4 RF and 4 DC
Positioner Mount	Magnetic ON/OFF Switch
No. of Vacuum Switches	4
Chuck Material	Stainless Steel
Chuck Stage Type	Coaxial
Chuck Travel Range	6" x 6"
Chuck Fine Resolution	1 μ m
Chuck Theta Coarse Travel	360°
Chuck Theta Fine Resolution	0.01°
Chuck Z-Motion Range	4 mm
Chuck Z-Fine Resolution	1 μ m
Coaxial Chuck Movement	Bevelled Gear and Rack 0.8 mm Pitch
Chuck Size	6" (150 mm)
Chuck Planarity	3 μ m
Chuck Rigidity	15 μ m / 10 N @ edge
Chuck Vacuum Grooves	Center, 1.5", 3.5", 7" (Individually Controlled)
Chuck Bias Capacity	Up to 2 kV
Chuck Isolation	5 G Ω
DUT Size Range	2 mm - 150 mm
Microscope Stage Type	High Precision Linear Stage
Microscope Stage Resolution	1 μ m
Microscope Stage Travel Range	2" x 2"
Microscope Z-Lift(Optional)	6 mm (Pneumatic)
Microscope Zoom Range	1.4x - 9x
Microscope Eye Piece	30x
Microscope Trinocular Port	C-Mount, 2x Adapter
Microscope Magnification Range	42x-270x

EB-6V PROBE STATION

mmW Micropositioner Features



EB-KRF

Linear Resolution: 0.5 μm

Angular Resolution: 0.0005°

Travel Range: Linear 25 mm X-Y-Z,
Angular $\pm 5^\circ$

Dimensions:

290 mm W x 140 mm D x 130 mm H

Weight: 6000 g

Extender Compability: VDI, OML,
Keysight, R&S

Stiffness: 150 Kgf

Screw Type: 3/8" Stainless Steel lead
screw

Probing Depth Indicator: 0.5 μm

EB-6V PROBE STATION

Micropositioner Options

All micropositioners offer X-Y-Z linear-motion travel with no backlash with mounting options including magnet, vacuum or magnet switch



EB-050

Resolution: 0.8 μm

Screw Resolution: 212 μm

Travel Range: Linear 12 mm X-Y-Z

Dimensions: 52 mm W x 96 mm D x 76 mm H

Weight: 550 g

Use For: DC/RF Capable



EB-700

Resolution: 2 μm

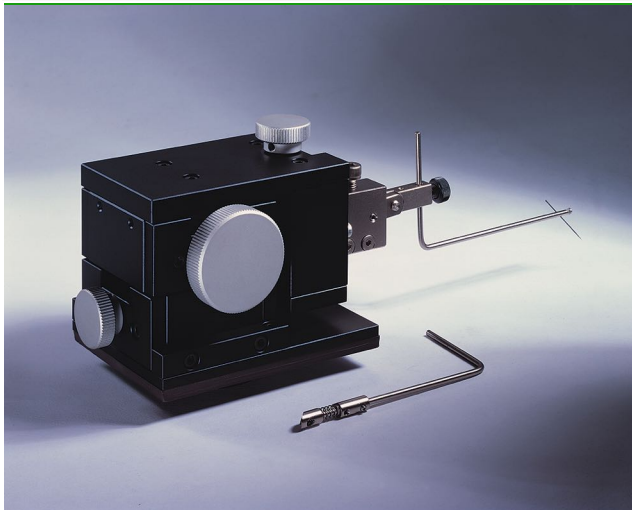
Screw Resolution: 630 μm

Travel Range: Linear 12 mm X-Y-Z

Dimensions: 38 mm W x 62 mm D x 45 mm H

Weight: 200 g

Used For: DC Only



EB-005

Resolution: 0.3 μm

Screw Resolution: 125 μm

Travel Range: Linear 12 mm X-Y-Z

Dimensions: 90 mm W x 130 mm D x 90 mm H

Weight: 1000 g

Used For: DC/RF Capable

EB-6V PROBE STATION

Vibration Free Table Option (Recommended)



VFT-4836

Dimension: 48" W x 36" D x 36" H

Vertical Natural Frequency: 1.5 Hz

Isolation Efficiency: @ 5 Hz 85%

Horizontal Natural Frequency: 1.2 Hz

Isolation Efficiency: @ 5 Hz 91%

Air Requirement: 80 psi

Net Load: 200 kg

Material: Stainless Steel TableTop