



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

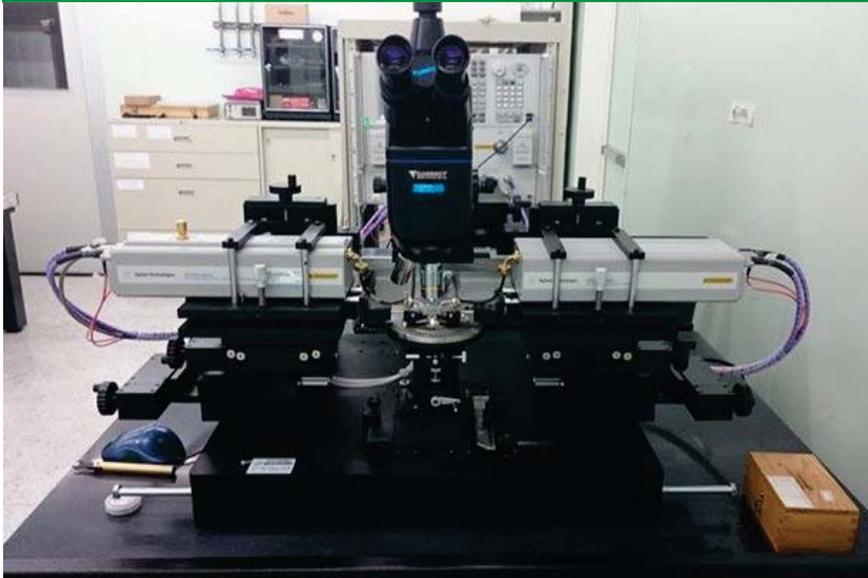
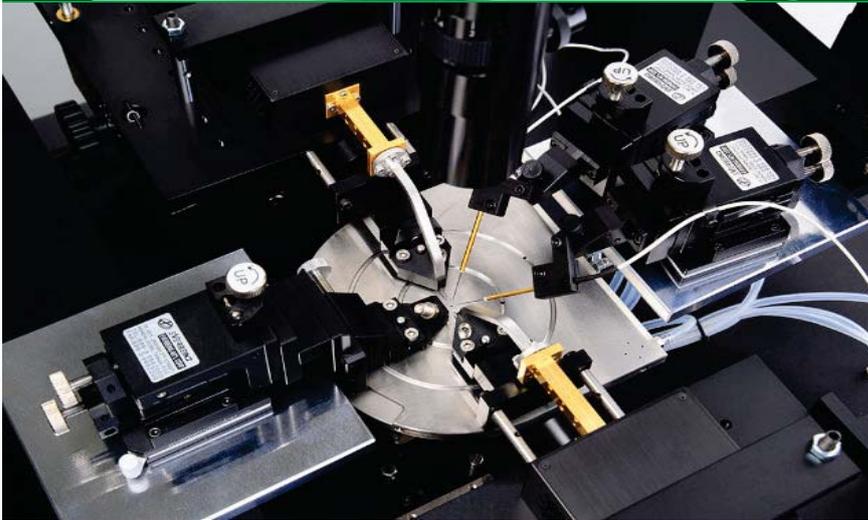
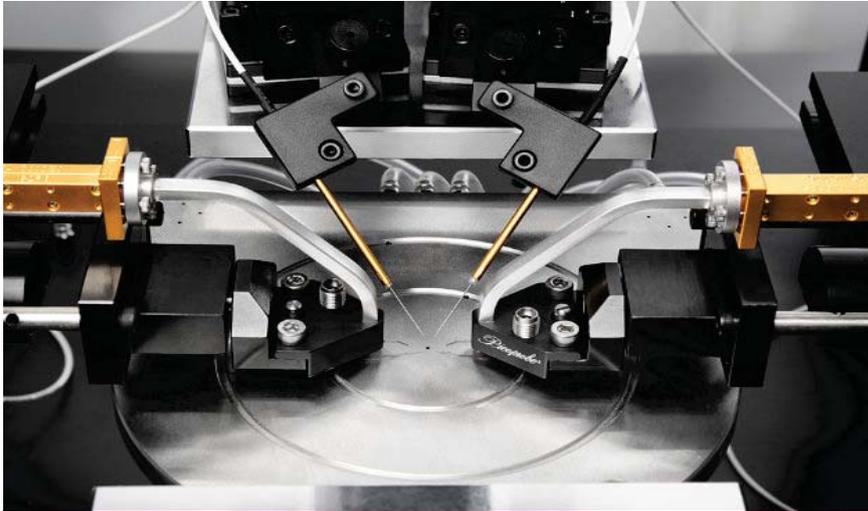
Station Specifications

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	4 RF and 2 DC or 2 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



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mmW Micropositioner Features



EB-KRF

Linear Resolution:	0.5 μm
Angular Resolution:	0.0005°
Travel Range:	X : ± 25 mm Y : ± 25 mm Z : ± 12.5 mm θ : ± 5 mm
Mount Type:	Screw Bolt to Base
Dimensions:	290 mm W x 140 mm D x 130 mm H
Weight	6 kg
Compatibility:	VDI, OML, Keysight, R&S
Stiffness:	150 kgF
Screw Type:	3/8" Stainless Steel Lead Screw
Probe Depth Gauge:	0.5 μm

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Micropositioner Options

The Everbeing range of micropositioners offer X-Y-Z linear-motion travel with zero backlash with mounting options including vacuum or magnet on/off



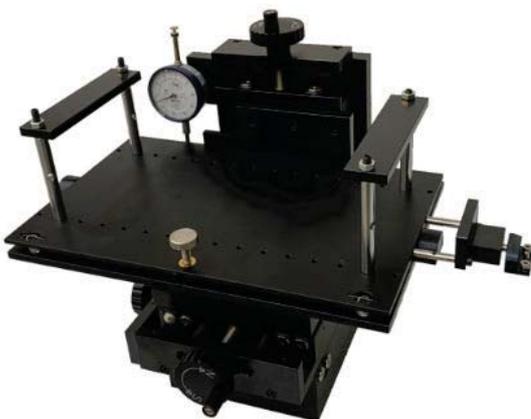
EB-050

Resolution:	0.8 μm
Screw Resolution:	317 μm
Travel Range:	12 mm x 12mm x 12mm
Dimensions:	52 mm x 96 mm x 76 mm
Weight:	550 g
Application:	DC, Kelvin, RF
Mount Type:	Magnet, Vacuum, Magnet ON/OFF



EB-005

Resolution:	0.7 μm / 0.3 μm
Screw Resolution:	253 μm / 125 μm
Travel Range:	12 mm x 12mm x 12mm
Dimensions:	90 mm x 130 mm x 90 mm
Weight:	1000 g
Application:	DC, Kelvin, RF
Mount Type:	Magnet, Vacuum, Magnet ON/OFF



EB-KRF

Resolution:	1 μm
Screw Resolution:	1028 μm
Travel Range:	50 mm x 50mm x 50mm
Dimensions:	400 mm x 270 mm x 340 mm
Weight:	6500 g
Application:	DC, RF, mmW
Mount Type:	Screw to Station Base, Optical Table

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