

Your Partner in Probing Solutions



## BD-8 Probe Station

State of the art probe station for all  
your DC and RF requirements

The BD series is our top of the line probe station. It's features and foundation are solid for providing repeatable, accurate measurements in both DC and RF applications. :

### Features

- Large Knob High Precision Stage
- Back-lash free movement
- Mounting for 12 micropositioners
- 4.5" Probe Card Holder compatible
- Platen Height Adjustable
- Micropositioner Standby Dock
- Microscope Tilting for E-Z lens switching

### Applications

- Basic IV/CV
- RF, Single Broadband Probing
- High Voltage, High Current

### Accessories

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

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### Station Specifications

Station Footprint	760 mm W x 660mm D
Station Height	450 mm (to Platen)/700 mm (to Microscope)
Station Weight	110 kg
Platen Material	Hard Chrome Plated Steel
Platen Dimension	250 mm Inner, 450mm Outer
Platen Capacity	12 DC or 4 RF 4 DC
Positioner Mount	Magnetic ON/OFF Switch
No. of Vacuum Switches	4
Platen Z-Motion Range	45 mm (Fine), 500 $\mu$ m (Coarse)
Platen Z-Fine Resolution	1 $\mu$ m
Platen Z Movement	Gear and Belt (Fine), Lever (Coarse)
Chuck Material	Stainless Steel
Chuck Stage Type	Large Knob Precision Movement
Chuck Travel Range	8" x 8"
Chuck Quick Movement	Quick Y Rail Movement for Easy Sample Loading
Chuck Fine Resolution	1 $\mu$ m
Chuck Theta Coarse Travel	360°
Chuck Theta Fine Resolution	0.005°
Large Knob Chuck Movement	High Precision Linear Stage
Chuck Size	8" (200 mm)
Chuck Planarity	3 $\mu$ m
Chuck Rigidity	15 $\mu$ m / 10 N @ edge
Chuck Vacuum Grooves	Center, 1", 3", 7" (Individually Controlled)
Chuck Bias Capacity	Up to 2 kV
Chuck Isolation	5 G $\Omega$
DUT Size Range	2 mm - 150 mm
Microscope Stage Type	High Precision Linear Stage
Microscope Stage Resolution	1 $\mu$ m
Microscope Stage Travel Range	2" x 2"
Microscope Tilting (Optional)	35°
Microscope Zoom Range	1.4x - 9x
Microscope Eye Piece	30x
Microscope Magnification Range	42x-270x

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## 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  $\mu\text{m}$

**Screw Resolution:** 212  $\mu\text{m}$

**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  $\mu\text{m}$

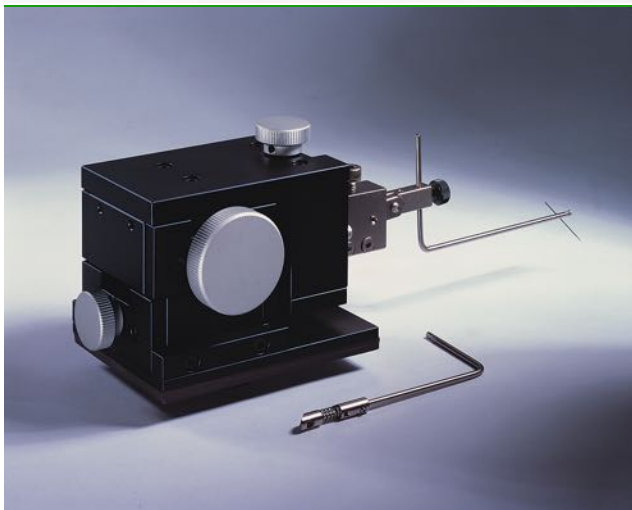
**Screw Resolution:** 630  $\mu\text{m}$

**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:** 0.7  $\mu\text{m}$

**Screw Resolution:** 250  $\mu\text{m}$

**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

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## Vibration Free Table Option

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### VFT-3636

**Dimension:** 36" 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