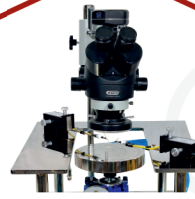
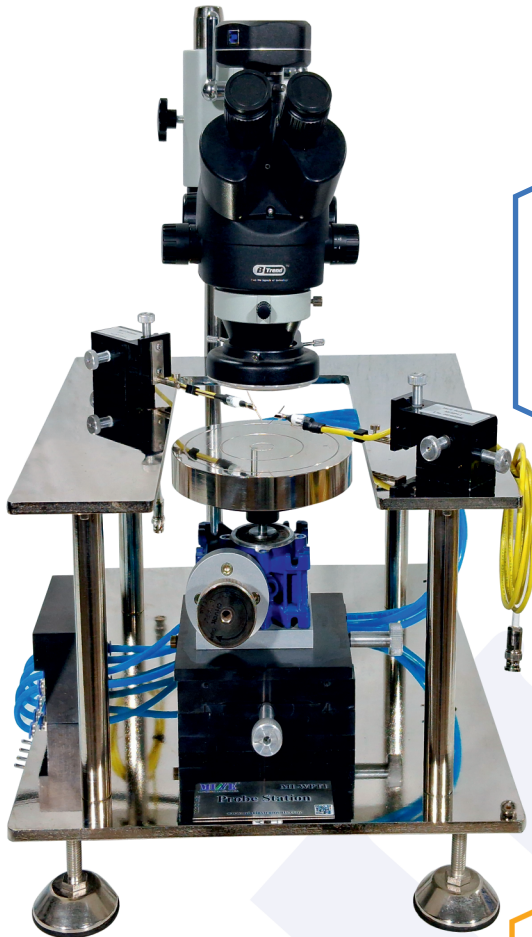


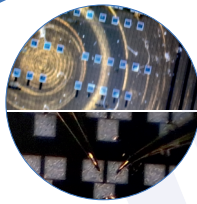
Probe station MI-WPT2A

The Mine Probe Station (**MI-WPT2A**) is an advanced research tool designed for precise and repeatable measurement of electrical properties in materials and early-stage electronic devices. It features an Advanced Microscope with a high-resolution Camera and two micro positioners for detailed inspection and accurate positioning. The **MI-WPT2A** ensures a controlled, non-destructive testing environment, making it ideal for fundamental research and versatile enough for both dedicated and multi-use applications. Its design promotes consistent, reliable data collection, benefiting both individual research and collaborative projects.

Features



Microscope with camera



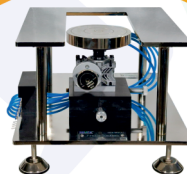
Precise Measurement



Back-lash free movement



Low noise vacuum pump



Stable Platen mounted with capacity to mount up to 6 micropositioners.



Solid station frame with built-in vibration-isolations.



Ease of use

Applications

1. Basic IV/CV

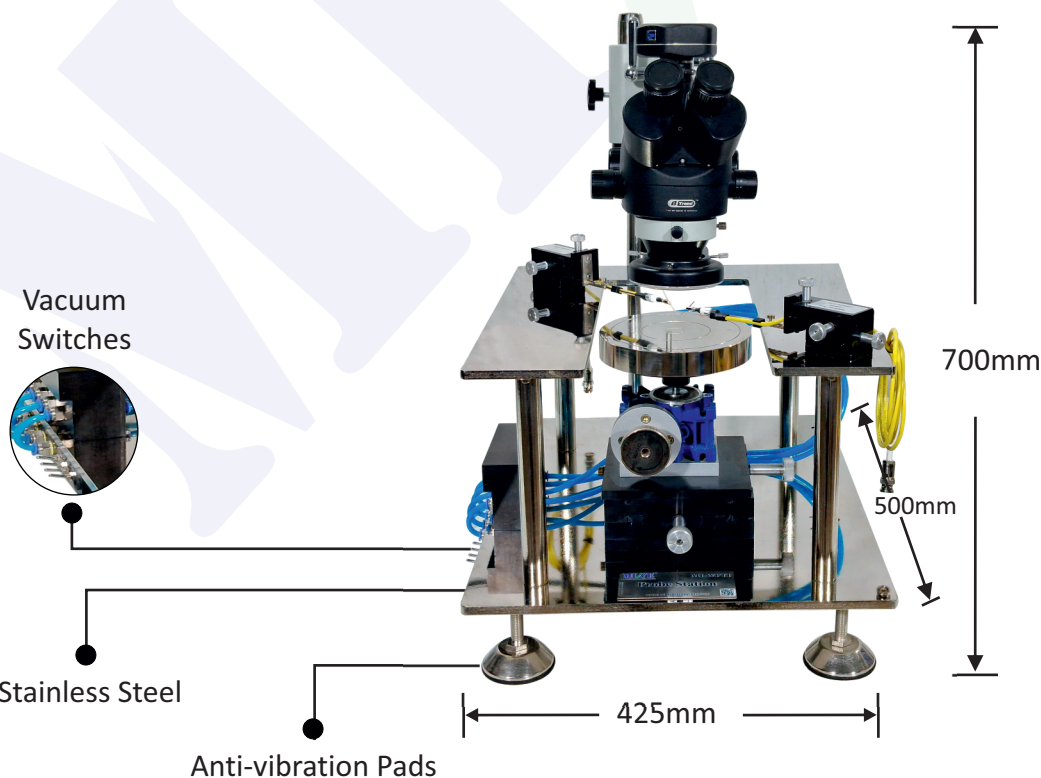
2. RF, Single Broadband Probing

3. High Voltage, High Current

Technical Specifications

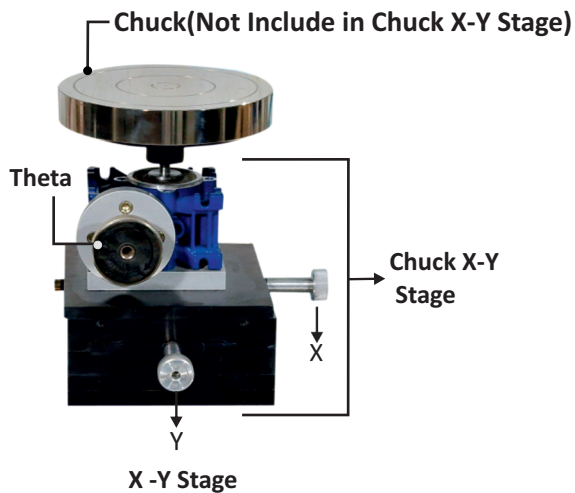
Probe Station :

Dimensions(approx.)	: 425mm(W) x 500mm(D) x 700mm(H) including microscope setup.
Weight(approx.)	: 36 Kg without Microscope & Stand
Base Material	: Stainless Steel
Anti-vibration Pads	: 4Nos.(fitted on base)
No. of Vacuum Switches	: 4Nos.(individual)



Probe Platen :

Design type	: Four post support
Shape	: Rectangular U type
Surface planarity	: $\pm 10 \mu\text{m}$
Maximum number of Micro-positioners	: 6x DC/High Power
Platen Material	: Stainless Steel



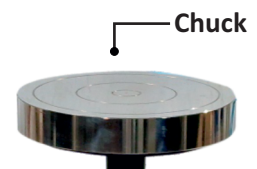
Chuck X-Y Stage

Chuck Movement	: X, Y, Z & Theta
X Travel	: 60 mm
Y Travel	: 60 mm
Z Travel	: 8 mm
Chuck X-Y Resolution	: $< 10\mu\text{m}$
Theta Travel	: (Standard) 360°
Motion control mechanism	: Coaxial knob gear drive stage.

Chuck

MI-CB3N101

Surface Planarity	: $\pm 10 \mu\text{m}$
Diameter	: 101mm
Material	: Nickel Plated Brass
Vacuum grooves with pin hole	: Center, 20mm, 50mm, 75mm (diameter)
Supported DUT sizes (in mm)	: 5, 10, 25, 80, 100

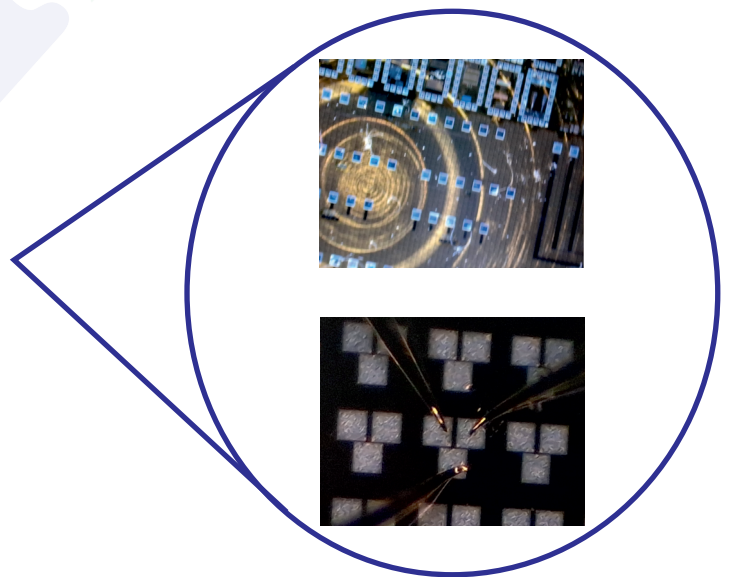


Vacuum Pump

Type	: Quiet Vacuum Pump .
Operational Voltage	: 230 VAC 50 Hz operation.
Vacuum	: -333mbar.
Airflow	: 7 Litre/meter.
Power Consumption	: 15W.
Inlet & Outlet	: 6mm O.D. hose barb.
Weight	: 0.7Kg.

Stereo Zoom Microscope

Stereo zoom head	: 7X to 45X.
Focus arm boom stand.	
LED Lights	: 72 led ring light.
Auxiliary lens.	: 2.0X
Camera	
Resolution	: 5 Megapixels.
Trinocular tube inclination	: 45° for greater ease of observation.
Magnification	: 7X to 45X.
Microscope Zooming ratio	: 6.4 : 1.
Rack-Pinion focussing stroke	: 50 mm.
Wide field eyepiece	: 10x (Paired).
Objective	: 0.7x, 4.5x.
Field of view	: 28.6 - 4.4mm.
Standard Working distance	: 100 mm (regardless of magnification or better)
Interpupillary distance	: 54 to 75 mm.
Binocular body Rotation	: full 360° (locked in any position desired).
<ul style="list-style-type: none"> • Once brought in focus, image remains clear and sharp throughout the whole zoom range. • Crisp, erect images with high resolution and excellent stereoscopic effect. • Dioptic adjustment with a range of + 5 diopters is possible with both Oculars. 	

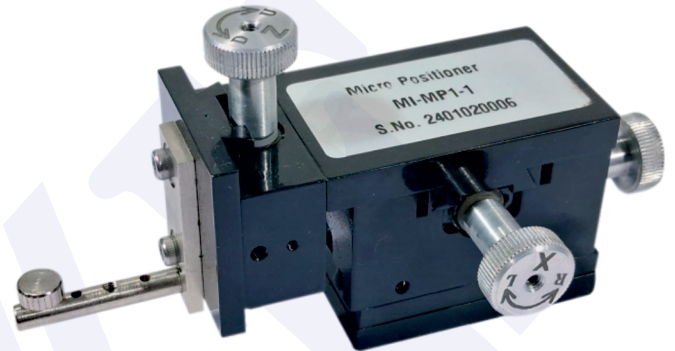


Micropositioner

All micropositioners are backlash free and available in various options such as vacuum base, magnet base and magnet switch base.

MI-MPS10-1

Mounting base style	: Magnetic.
Head style	: Standard.
Resolution	: 10 µm.
Travel range(Linear)	
X-Axis Motion	: 12 mm, 0 to ±6
Y-Axis Motion	: 12 mm, 0 to ±6
Z-Axis Motion	: 12 mm, 0 to ±6



Probe Tip Holder

MI-TH01C

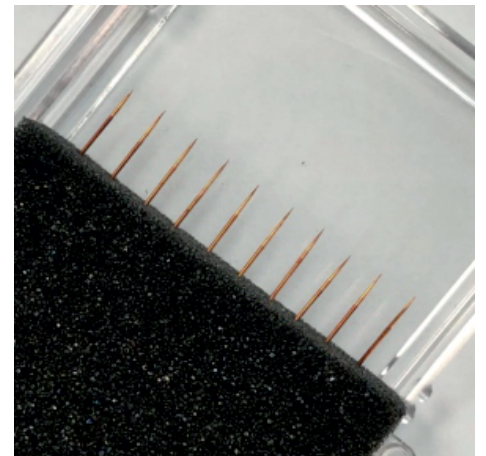
Probe tip holder	: Coaxial probe
Temperature range	: -60 °C to 300 °C
Connectivity	: Coaxial
Connectivity type	: Single low noise Coaxial.
Tip Holding Type	: Spring.
Characteristics impedance	: 50 Ohms



Probe Tips

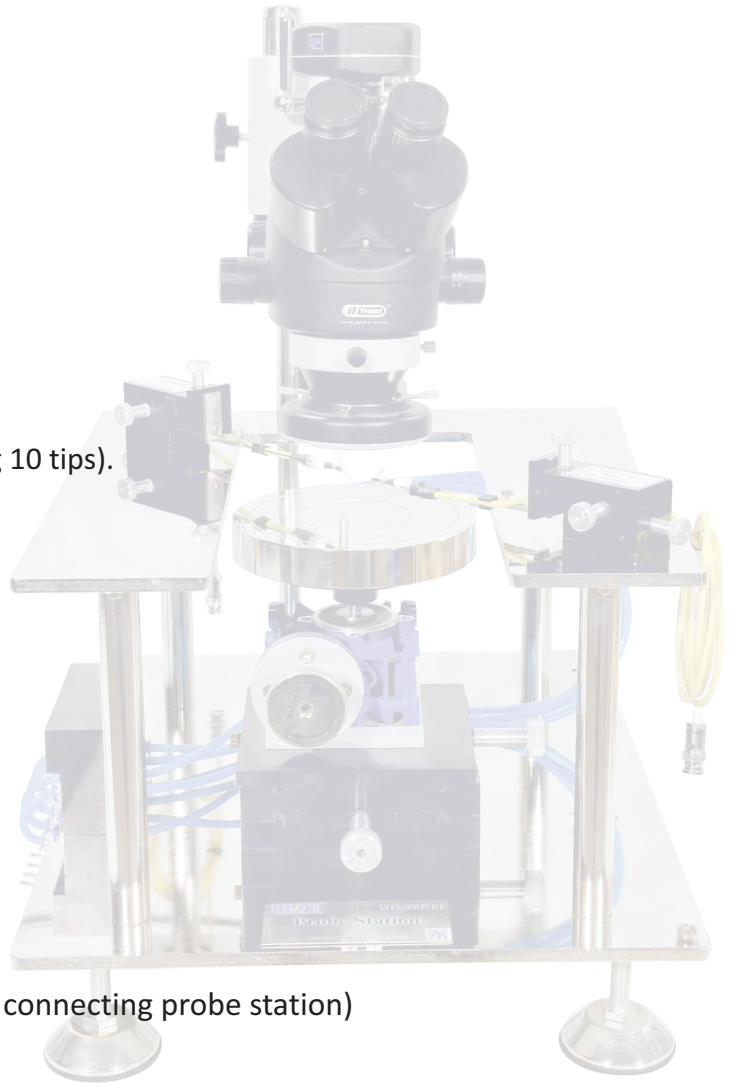
MI-T100U

Diameter	: 100µm
Material	: Tungsten
Qty	: 1 Box (Contains: 10 tips)



Package Contains

Probe Station Base with Platen	: 1Nos.
Chuck X-Y Stage	: 1Nos.
Chuck (MI-CB3N101)	: 1Nos.
Micropositioner(MI-MPS10-1)	: 2Nos.
Probe Tip Holder(MI-TH01C)	: 2Nos.
Probe Tips (MI-T100U)	: 1Box(containg 10 tips).
Vacuum Pump	: 1Nos.
Stereo Zoom Microscope	: 1Nos.
Standard Accessoires	: 1Set.



Standard Accessories

Vacuum tubes	: 4 meters(for connecting probe station)
Forceps	: 1Nos.
Power Cord	: 1Nos.
User Manual	: 1Nos.

Note: PC/Laptop and wafer samples must be arrange by user/institution end



Power Cord



User Manual



Vacuum Tube



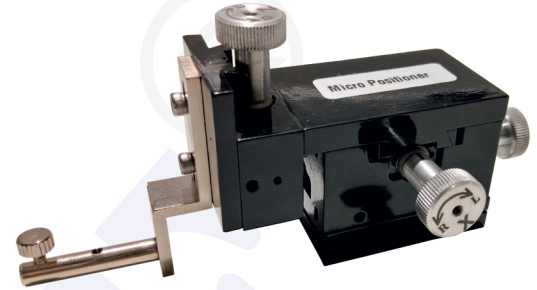
Forceps

Optional Parts

1. Micropositioner

MI-MPS1-1

Mounting base style	:	Magnetic.
Head style	:	Standard.
Resolution	:	1 μ m.
Screw Resolution	:	100 TPI.
Fine Travel range(Linear)	:	
X-Axis Motion	:	12mm, 0 to \pm 6
Y-Axis Motion	:	12mm, 0 to \pm 6
Z-Axis Motion	:	6mm, 0 to \pm 3



2. Probe Tip Holder

MI-TH01T

Probe tip holder	:	Triaxial Probe
Connectivity	:	Standard Triaxial
Connectivity type	:	Single low noise Triaxial.
Tip Holding Type	:	Spring.



3. Anti-Vibration Table

MI-C113

Dimensions(in mm):

Length	:	915mm
Width	:	915mm
Height	:	355mm
Weight	:	50mm(approx.)
Top Material	:	Stainless Steel.

It is recommended that user should use anti-vibration table with Probe Stations for vibration free accurate operations.

