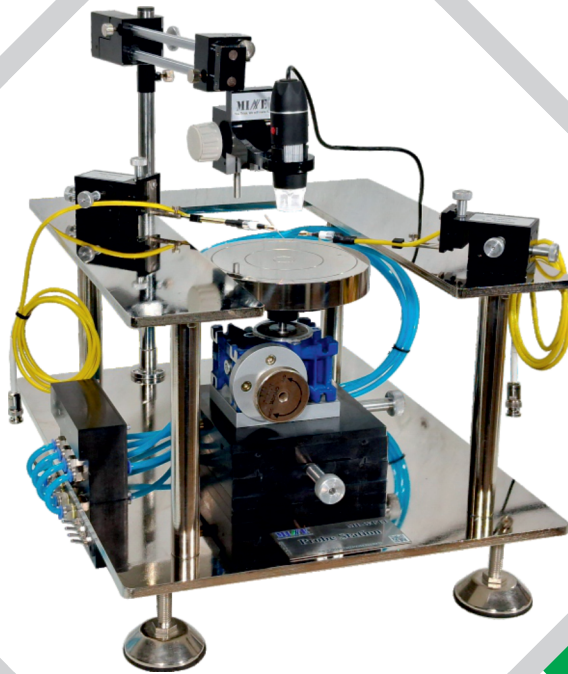




Probe Station

MI-WPT2

The Mine Probe Station (**MI-WPT2**) is an advanced research tool designed for precise and repeatable measurement of electrical properties in materials and early-stage electronic devices. It features a USB microscope and two micro positioners for detailed inspection and accurate positioning. The **MI-WPT2** 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



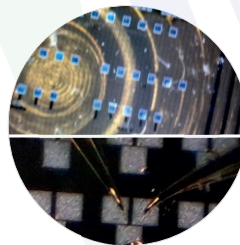
Back-lash free movement.



Low noise vacuum pump



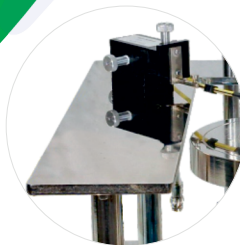
USB Microscope with Boom Stand



Precise Measurement



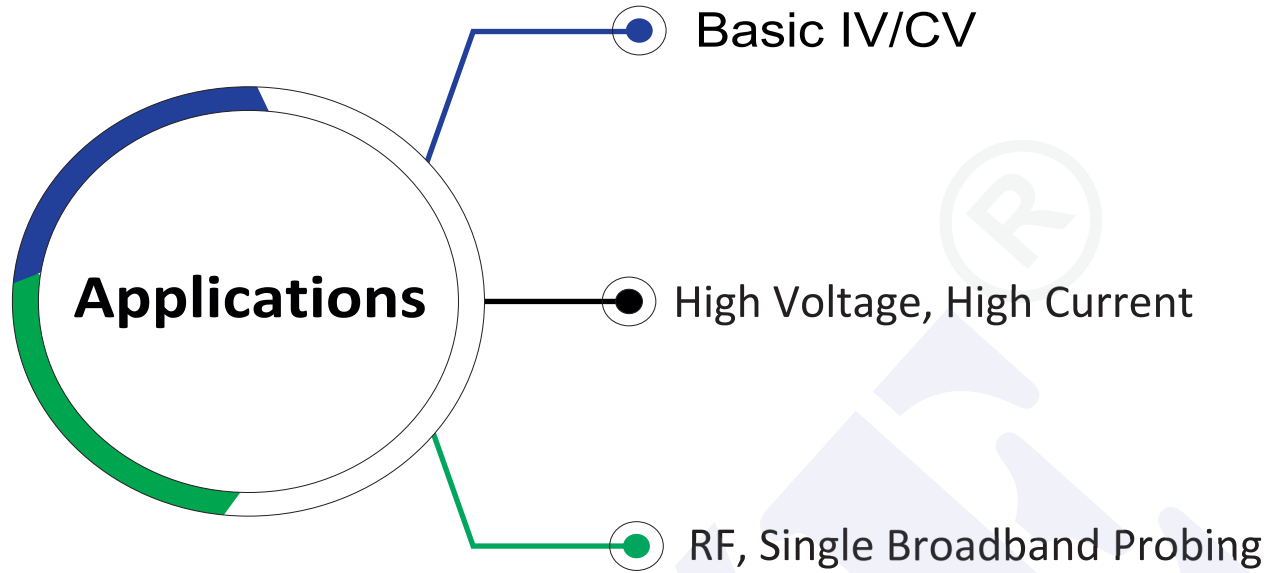
Stable Platen mounted with
capacity to mount up to
6 micropositioners.



Solid station frame with built-in
vibration-isolations.



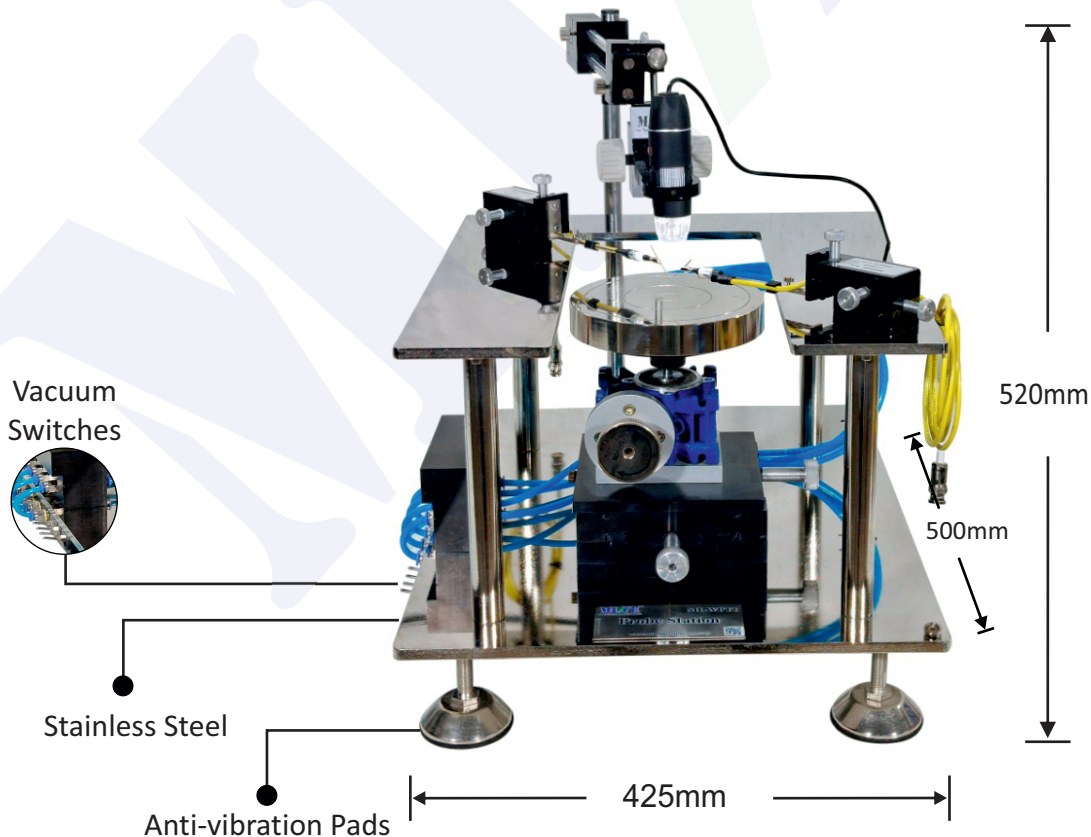
Ease of use



Technical Specifications

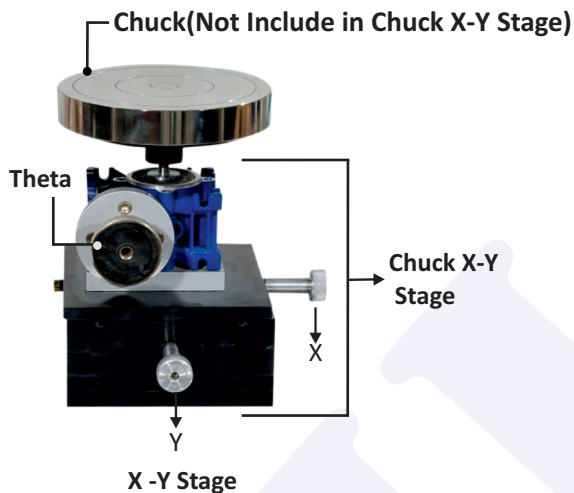
Probe Station :

Dimensions(approx.)	: 425mm(W) x 500mm(D) x 520mm(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



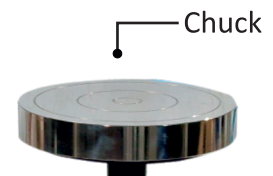
Chuck X-Y Stage

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



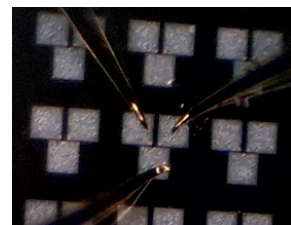
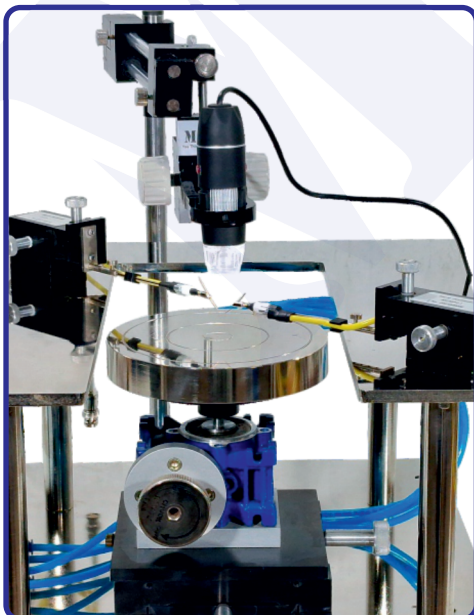
Vacuum Pump

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.



Microscope(USB)

Frame Rate	: Max 30f/s under 600 Lux Brightness
Magnification Ratio	: 40x to 100x
Video format	: AVI
Photo format	: JPEG or BMP
Light source	: 8LED (adjustable by control wheel)
PC interface	: USB2.0
Power source	: 5V DC from USB port
Operating system	: Windows 7 8 10/Vista/XP/2000, Mac OS X 10.5 or above, some of Android mobiles, Linux, Chrome
CD ROM Measure Tool	: Micro-Measure (It can measure Length and diameters, angle, the perimeter, area, etc on Windows)
Color	: Black

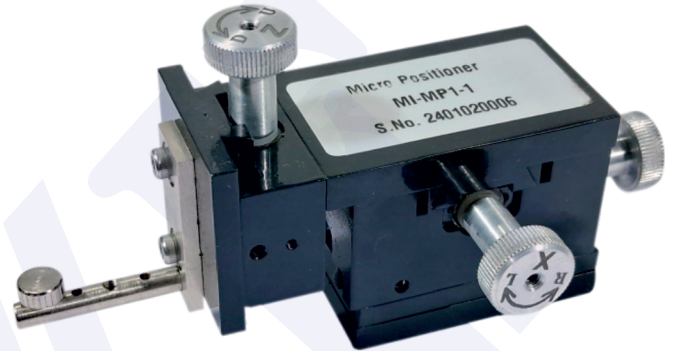


Micropositioner

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 μ m
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

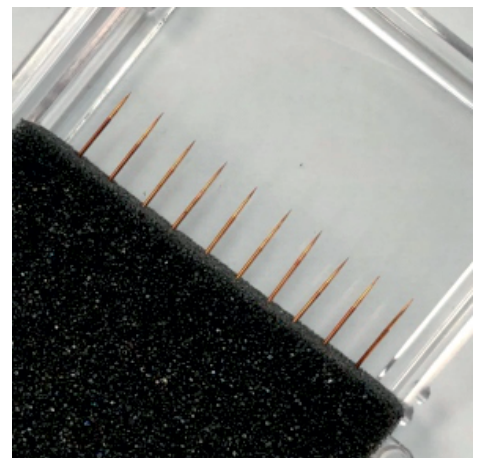
Probe tip holder	: Coaxial probe
Temperature range	: -60 °C to 300 °C
Connectivity	: Coaxial
Connectivity type	: Single low noise Coaxial.
Tip Holding type	: Spring.
Characteristics impedance	: 50 Ohms



Probe Tips

MI-T100U

Diameter	: 100um
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.
Micropositoner(MI-MPS10-1)	: 2Nos.
Probe Tip Holder(MI-TH01C)	: 2Nos.
Probe Tips (MI-T100U)	: 1Box(containg 10 tips).
Vacuum Pump	: 1Nos.
Microscope(USB Type)	: 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



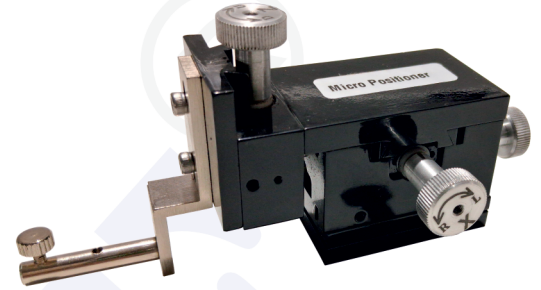
Forceps

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 ± 6
Y-Axis Motion	:	12mm, 0 to ± 6
Z-Axis Motion	:	6mm, 0 to ± 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.

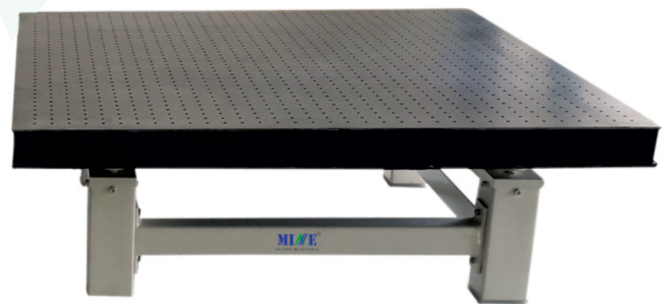


3. Anti-Vibration Table

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.

