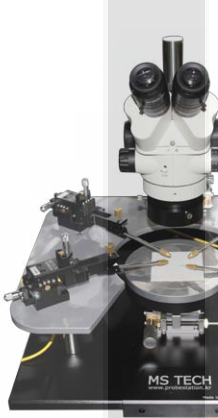
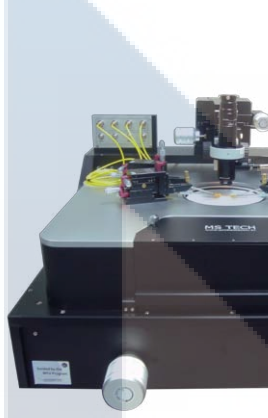
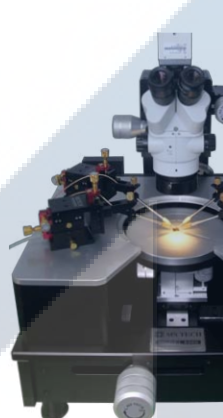
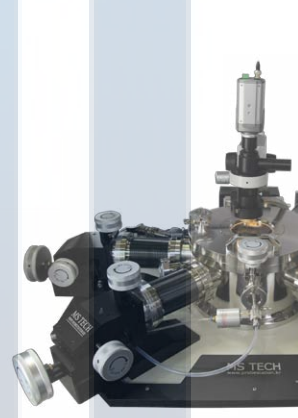




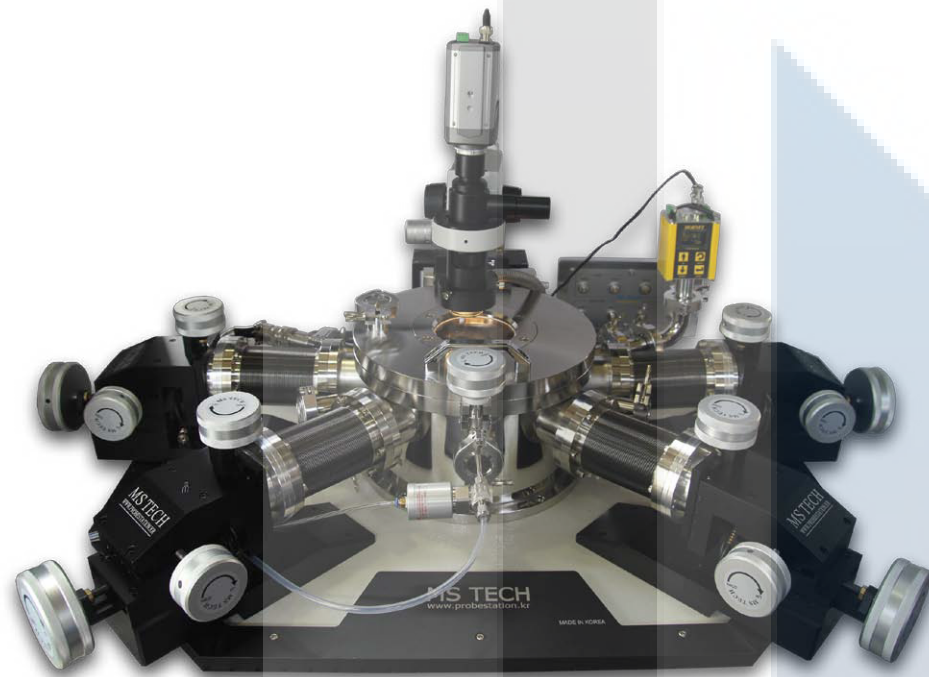
All about measurement

PROBE STATION



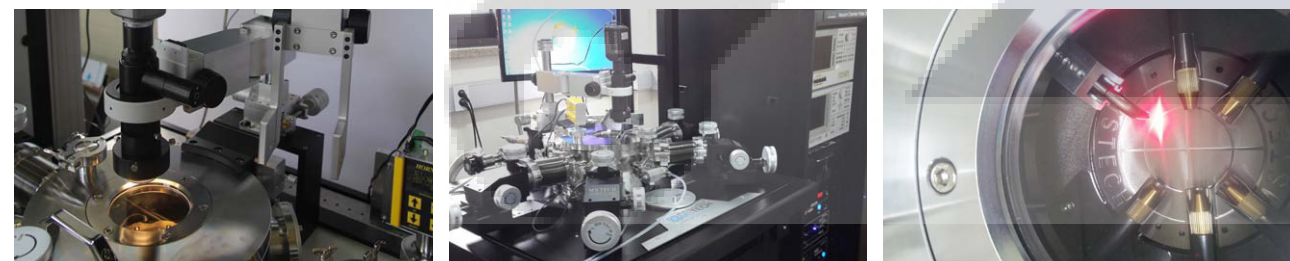
VACUUM CHAMBER

M5VC / M6VC



Vacuum Chamber Probe station is the equipment where output data may be obtained by controlling and measuring all situations with software while changing the conditions such as temperature, Fiber, Gas, Bend Stage, etc. by a given amount for all measurement systems (IV, CV, RF, Impedance) and vacuum situations. Also, customized expansion is possible with additional attachment of a Mini Chamber.

LN2	Helium	GAS	Fiber	High Temp	Vending Stage	RF
-190 °C ~80K	-262 °C ~10K	MFC 5Ch More	250~1200nm Wavelength	~ 800°C Max	Bending Radius Max ~80°	~67GHz

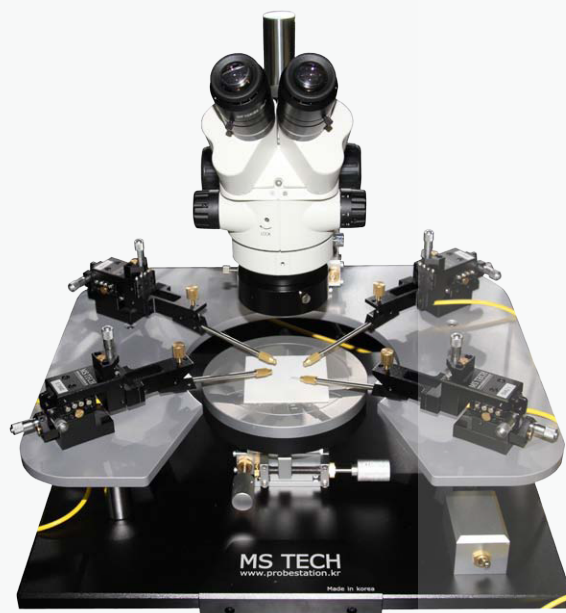
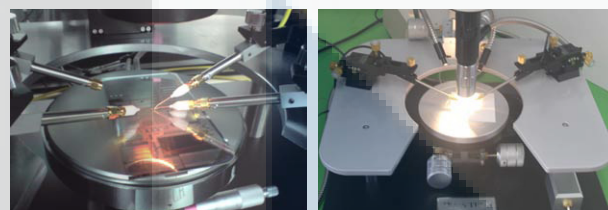


Specification

Vacuum Chamber Probe Station Main	Main Chamber : 270dia x 234(h), ISO 100(Flange for Vacuum) Chuck : 80mm Gold Chuck or Ceramic Low Leakage Current 1fA less than Ceramic Chuck Top Plate(for Temp Calibration) Vacuum : 1x10E- 3 torr (Up Garde Available 6 torr) 1x10E- 6 torr (Up Garde Available 6 torr) Multi NW Port : NW80 6 Port, NW25 8 Port, NW50 1 Port (front) Window : Window 154 (View 100mm) quartz , Dark Cap Temp Range : -192(80K) ~ 300(570K), 780K, 1000K _LN2 -260(10K) ~ 300(570K), 780K, 1000K, _Helium
Microscope & CCD Camera	CCD Zoom : MST8000CHC_400 x ~ 1000x (One Object Lens) CCD Camera : Full HD 210M Pixel, Video Recoding, Capture Hanger Arm for 22" LCD Monitor Micro Arm : Free Swing Arm, Fine X/y stage Travel 50 x 50mm
Vacuum Positioner	Positioner : PBC400 X/y/z Travel : 40mm Resolution : 1um Vacuum Holder : Bellows NW80 x 140mm , NW80 Flange Port 6
Vacuum Positioner Holder	Holder : Triaxial VC_15 Leakage current : Triaxial 1fA less than (VC_15)
Probe Tip	M5BG : 0.5 x 30mm Gold or Tungsten M3BGHR : 0.5 x 30mm Gold Tungsten
Vibration Table Rack Top	Dimension : 900 (w) x 900(d) x 1800(H) Cover : foot Cover 3 Side for Manifold & Solenoid Rack Top : Test Equipment On Top
System Control PC	Configuration : 22" LCD Monitor, Quad Core
System Control Rack	Dimension : 1400(h) x 19" (w) , for System Controller Configuration : System PC, Temp Controller, Valve Controller(Manifold On/Off) Slid Key Board, Mouse
Option	MFC(GAS) : N2, Ar, NH3, O2, H2.. Max 10 More , Solenoid Auto Control RS232 Software Control available, IN Vacuum Gas Line 8/1" Fiber & Illumination : Wavelength 250 ~ 1400nm Zenon Source Lamp, Wavelength 300 ~ 650nm Halogen Source Lamp RS232 Software Control available Control Software : Total Control software MVC_13 Temp Sweep , MFC Control, Vacuum Display Baratron Valve Control with Measurement Interface Measurement : Keithley 4200, Agilent B1500 More Series (Customize) In Bending & Pull Stage : Bend Wave ~ 180c, 20mm Pull (Probing or Gig Holding) Motor Control, RS232 Software Control available Sample Holding Gig or Pogo Gold Pin Gig (User Choice)

MST 4000A

4" Probe Station



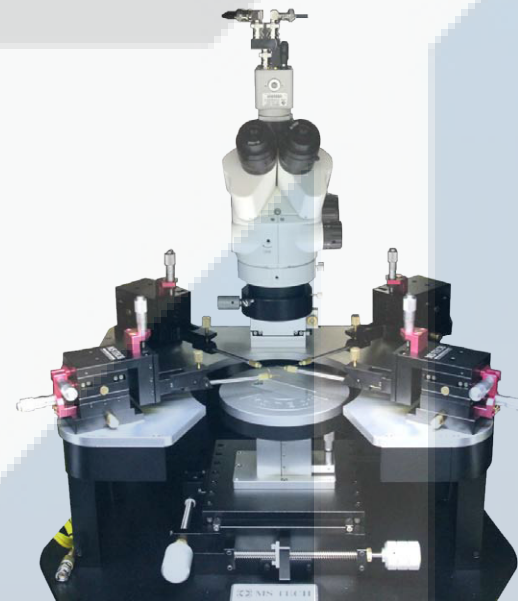
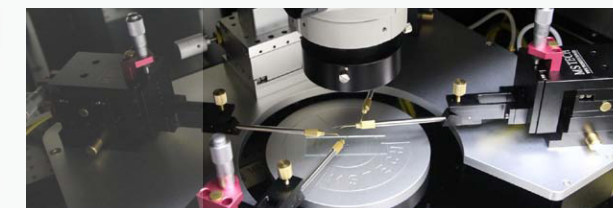
This model is the equipment that may generate measurement data of good quality at a reasonable cost with convenience in use.
Leakage Current is ~100 fA, accompanied by Option for using Hot Chuck.

Specification

Probe Station Main	Chuck : 4 Inch Low Noise Chuck , On Ceramic Pad Vacuum Chuck On/off Switch Chuck Ground, Back Gate X/y Stage : Travel 50x 50mm, Resolution : 5um Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : Magnification _90x CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB50 X/y/z Travel : 6mm Resolution : 3um Bottom base : Magnet Base
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than (C_15)
Probe Tip	M5BG, HR : 0.5 x 30mm Gold Tungsten or Tungsten M3BGHR : 0.5 x 30mm Gold Tungsten
Option	Dark Shield Box : Dimension 900(w) x 780(d) x 1,000(h) or Customize
	Vibration Table : Dimension 900(w) x 900(d) x 800(h)
	Hot Chuck : Temp 200, 300 Degree c (6" or Spot Hot Chuck)

MST 5500B

6" Probe Station



This model is the equipment that may produce high performance at an economic cost, as one of the representative models of DC Probe Station manufactured by our company.
It may be adapted to 6" Wafers and is popular as it is produced for use convenience and Leakage Current below 50 fA. It allows the use of a Hot Chuck.

Specification

Probe Station Main	Chuck : 6 Inch Low Noise Chuck , On Ceramic Pad Vacuum Chuck On/off Switch Chuck Ground, Back Gate X/y Stage : Travel 100x 100mm, Resolution : 5um Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : Magnification _90x CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB50 or PB 100 (User Choise) X/y/z Travel : 6mm Resolution : 3um Bottom base : Vacuum Base, ON/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than (C_15)
Probe Tip	M5BG, HR : 0.5 x 30mm Gold Tungsten or Tungsten M3BG, HR : 0.5 x 30mm Gold Tungsten
Option	Dark Shield Box : Dimension 900(w) x 780(d) x 1,000(h) or Customize
	Vibration Table : Dimension 900(w) x 900(d) x 800(h)
	Hot Chuck : Temp 200, 300 Degree c (6" or Spot Hot Chuck)

MST 8000C

8" Probe Station



MST 8000C is the equipment aimed at a higher performance. The equipment allows Low leakage Current ($\sim 10\text{fA}$) Measurements, offering an advantage of enabling the use with grafting a variety of options.

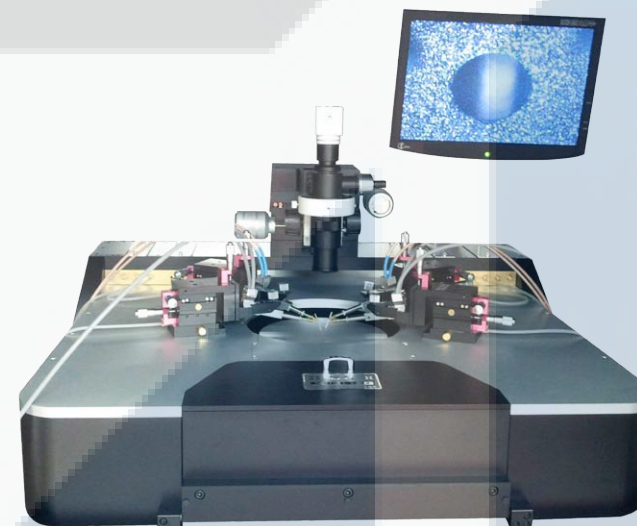
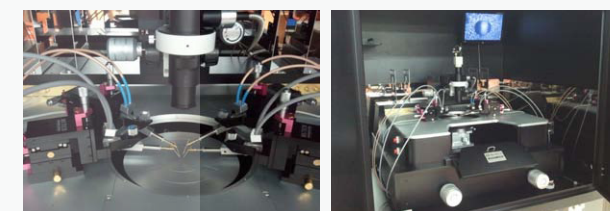
LN2 Helium		Fiber Holder	Holder Etc	Back Gate
6", 8"	Spot			
~ 250 Degree C	~ 400 Degree C	Customize	Customize	CU, Bronze AL, Ceramic

Specification

Probe Station Main	Chuck : 8 Inch Low Noise Chuck , On Ceramic Pad X/y Stage : Travel 200x 200mm, Resolution :5um Z Stage : Up down Fine Hand, 15mm Theta : Theta Micro control 15c Plate : 8 Positioners In Top Available Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : $\sim 90\times(\text{max})$ CCD Zoom Camera : $\sim 400\times$, More Than (Object Lens 5x, 10x, 20x) High Scope : $\sim 400\times$, 800x (Object Lens 2x, 5x, 10x, 20x, 50x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than (C_15)
Probe Tip	M5BG, HR : 0.5 x 30mm Gold Tungsten or Tungsten M3BG, HR : 0.3 x 30mm Gold Tungsten or Tungsten
Option	Dark Shield Box : Dimension 900(w) x 780(d) x 1,000(h) or Customize
	Vibration Table : Dimension 900(w) x 900(d) x 800(h)
	Hot Chuck : Temp 200, 300 Degree c (8" or Spot Hot Chuck)

MST 9000CH

8" Probe Station



This model is a high-class model of Micro Chamber Shield type for measurements of Low Leakage Current ($\sim 1\text{fA}$) and RF Frequency ($\sim 67\text{GHz}$), High Power (50A, 3000V). It also has an advantage of allowing simultaneous measurements of several samples with mounting of Multi Probe Tip and Probe Card.

Specification

Probe Station Main	Chuck : 8 Inch Low Noise Chuck , On Ceramic Pad X/y Stage : Travel 200x 200mm, Resolution :5um Z Stage : Up down Fine Hand, 15mm Theta : Theta Micro control 15c Plate : 8 Positioners In Top Available Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Microscope : High Scope 400x , 800x ($\sim 2000\times$ available) CCD Camera : Full HD 210M Pixel (user choice)
Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than (C_15)
Probe Tip	M5BG, HR : 0.5 x 30mm Gold Tungsten or Tungsten M3BG, HR : 0.3 x 30mm Gold Tungsten or Tungsten
Option	Dark Shield Box : Dimension 900(w) x 780(d) x 1,000(h) or Customize
	Vibration Table : Dimension 900(w) x 900(d) x 800(h)
	Hot Chuck : Temp 200, 300 Degree c (8" or Spot Hot Chuck)

MST 12000CH

12" Probe Station



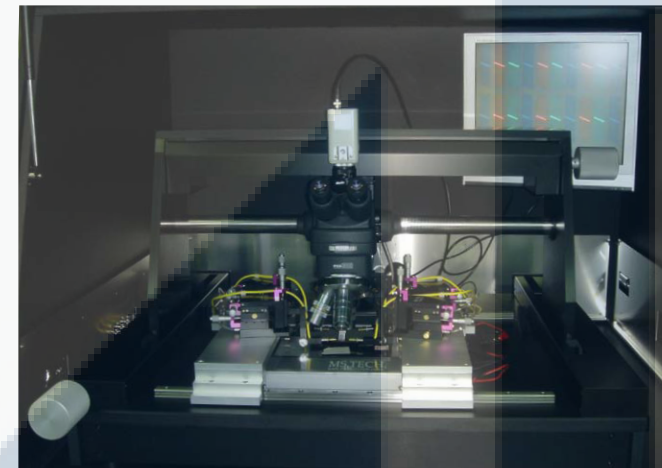
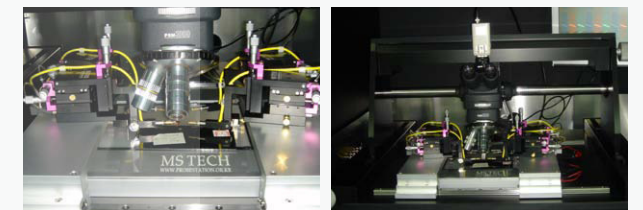
This model is designed for Semi Automatic, which basically consists of Chamber Shield Type allowing automatic measurements of Multi Die Chip (Wafer) 6", 8", 12" and below. Mainly upon repeated Wafer Mapping, the user is able to measure a multitude of samples with one setting. Since it may be used in connection with Hot Chuck and Probe Card Holder, Software as an Option, and may easily handle Data, it is frequently used in semi-mass productions.

Specification

Probe Station Main	Chuck : 12 Inch Low Noise Chuck , On Ceramic Pad X/y Stage : Travel 300x 300mm, Resolution :5um Z Stage : Up down Fine Hand, 15mm Theta : Theta Micro control 15c Plate : 8 Positioners In Top Available Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : ~ 90x(max) CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) High Scope : ~ 400x, 800x (Object Lens 2x, 5x, 10x, 20x, 50x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than [C_15]
Probe Tip	M5BG : 0.5 x 30mm Gold or Tungsten M3BGHR : 0.5 x 30mm Gold Tungsten
Option	Dark Shield Box : Dimension 900(w) x 780(d) x 1,000(h) or Customize
	Vibration Table : Dimension 900(w) x 900(d) x 800(h)
	Hot Chuck : Temp 200, 300 Degree c (12" Hot Chuck)

LCD Probe station

PCB / Glass



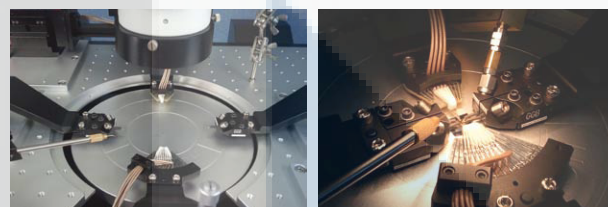
This model is useful for measurements of large-area panels such as LCD, OLED, FPCB, PCB substrates, and often used in measurement and analysis of large-area samples owing to the long moving distances of Probe and microscope.

Specification

Probe Station Main	Chuck : 50m , 370 x 470mm - Size Customize X/y Stage (Scope Mount) : Travel 400 mm More than Sample Chuck : 400mm, More than, Vacuum Holding
Microscope & CCD Camera	Stereo : Magnification _90x CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) High Scope : ~ 400x, 800x (Object Lens 2x, 5x, 10x, 20x, 50x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch, Magnet Base
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than [C_15]
Probe Tip	M5BG : 0.5 x 30mm Gold or Tungsten M3BGHR : 0.5 x 30mm Gold Tungsten
Option	Dark Shield Box : Dimension 1200(w) x 1100(d) x 800(h) or Custom Size
	Vibration Table : Dimension 1200(w) x 1100(d) x 800(h) or Custom Size
	Hot Chuck : Temp 200, 300 Degree c, Chuck Size Custom Size

RF Probe Station

DC-110GHz



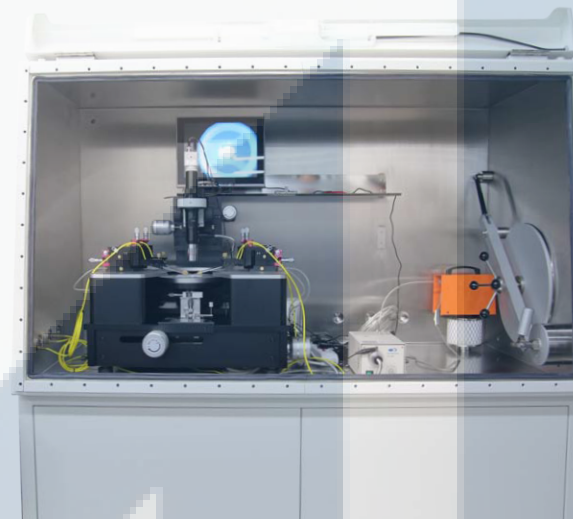
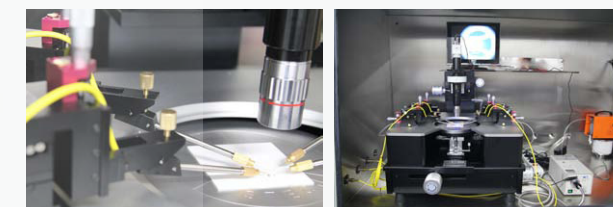
This model is the equipment allowing analysis of high-frequency waves ranging from RF Frequency DC ~ 110GHz. Since RF Probe may be used easily from four directions in particular, it has an advantage of being capable of measuring samples of various areas. Also, it may be used in parallel with DC.

Specification

RF Probe Station Main	Chuck : 8 Inch Low Noise Chuck , On Ceramic Pad X/y Stage : Travel 200x 200mm, Resolution :5um Z Stage : Up down Fine Hand, 15mm Theta : Theta Micro control 15c Plate : 8 Positioners In Top Available Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : Magnification _90x CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) High Scope : ~ 400x, 800x (Object Lens 2x, 5x, 10x, 20x, 50x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
RF Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : DC ~ 110GHz Theta Micro Fine Control
Probe Tip	20GHz, 40GHz, 67GHz, 110GHz GSG, SG, Dual, Multi Pin (50 ~ 2540um, Custom Size)
Option	RF Cable 20GHz, 40GHz, 67GHz, 110GHz, 1M, 2M RF Calibration Kit

Glove Shield Box Probe Station

N2 Moisture



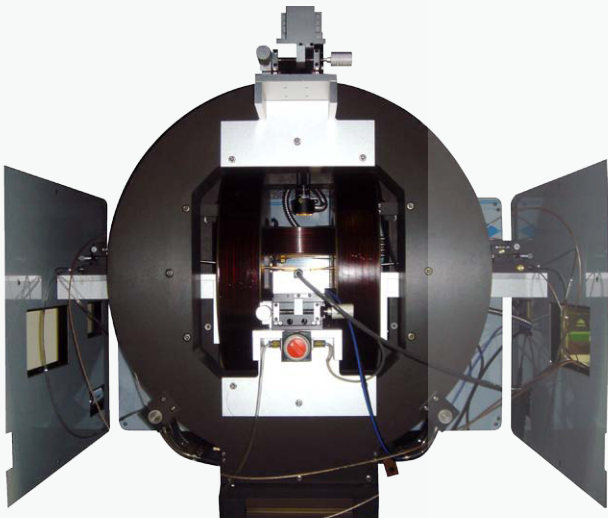
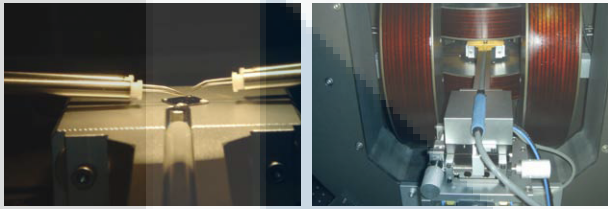
With this model, Probe station is installed inside a Glove Shield Box and samples are measured in the N2 (nitrogen) environment. It is particularly a good model when measurement without any contact with air is desired.

Specification

Probe Station Main	Chuck : 8 Inch Low Noise Chuck , On Ceramic Pad X/y Stage : Travel 200x 200mm, Resolution :5um Z Stage : Up down Fine Hand, 15mm Theta : Theta Micro control 15c Plate : 8 Positioners In Top Available Microscope : Travel 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	CCD Zoom Camera : ~ 400x, More Than (Object Lens 5x, 10x, 20x) CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than (C_15)
Probe Tip	M5BG : 0.5 x 30mm Gold or Tungsten M3BGHR : 0.5 x 30mm Gold Tungsten
Option	Hot Chuck : Temp 200, 300 Degree c, Chuck Size Custom Size

Magnet Probe Station

5,000 Gauss



This model is the equipment used to evaluate the effect of magnet with a sample device inserted in between while Magnet Field is moved in x/y/z directions (Hall Effect). It is produced mainly on the customized basis.

Specification

RF Probe Station Main	Chuck : 4" Low Noise Chuck , On Ceramic Pad X/y/z Stage : 50 x 50mm Travel Magnet Field : 0.5T, 1T, Customize Magnet X/y/z : X/y/z Side Magnet Position Microscope Travel : 50 x 50mm, Fine Manual Fine Knob (X/y Stage)
Microscope & CCD Camera	Stereo : MST8000C_90x CCD Camera : SD 40M Pixel or Full HD 210M Pixel (user choice)
RF Positioner	Positioner : PB100 X/y/z Travel : 13mm Resolution : 1um Bottom base : Vacuum Base, Vacuum On/off Switch
Positioner Holder	Holder : Triaxial C_15 or Coaxial C_14 Leakage current : Triaxial 1fA less than [C_15]
Probe Tip	M5BG, HR : 0.5 x 30mm Gold Tungsten or Tungsten M3BG, HR : 0.3 x 30mm Gold Tungsten or Tungsten

Accessory

Positioner



PB100

Type	B Type
Resolution	1um
Travel	13mm



PB50

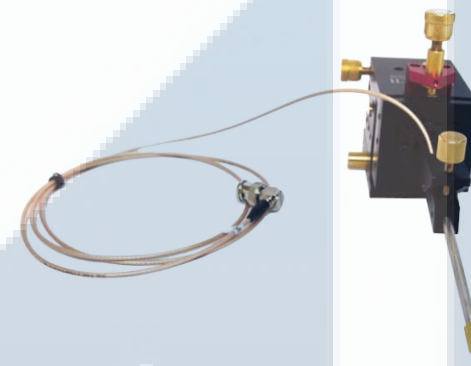
Type	M Type
Resolution	3um
Travel	6mm



PBC400

Type	M Type
Resolution	1um
Travel	40mm

Positioner



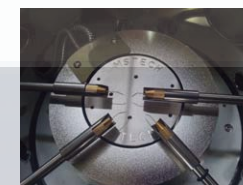
PH-C14

Type	Frequency Type
Low leakage Current	~100fA less than
Cable	Coaxial Cable 1.5M
Plug	BNC, Banana Adaptor



PH-C15

Type	Low Noise Type
Low leakage Current	~10fA less than
Cable	Triaxial 1.5M
Plug	Triaxial Plug

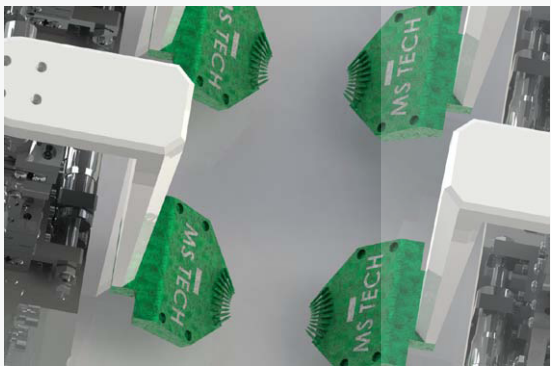


PH-VC15

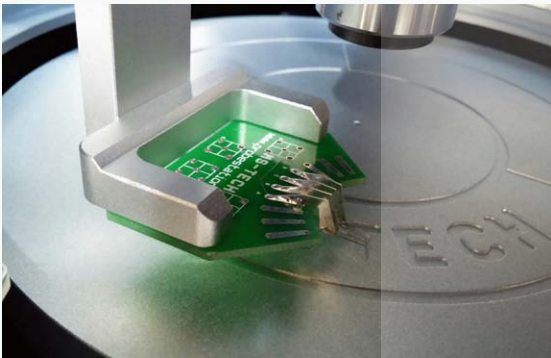
Type	Vacuum Chamber Type
Low leakage Current	~10fA less than
Cable	Triaxial 1.5M
Plug	Triaxial Plug



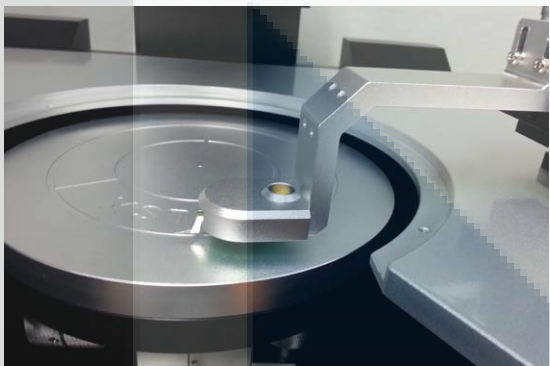
Multi Probe



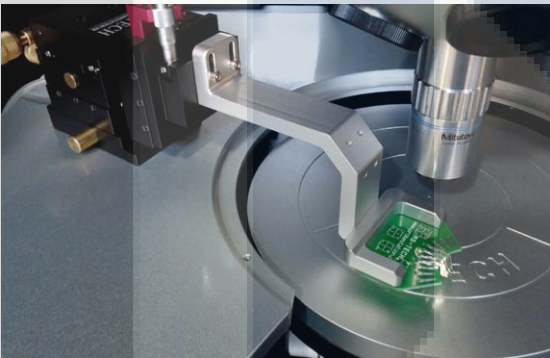
Multi Probe 25pin



Multi Probe 4pin

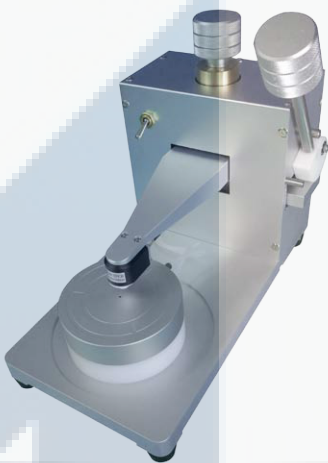


High Power Multi Pin



Multi Probe 4pin with Holder

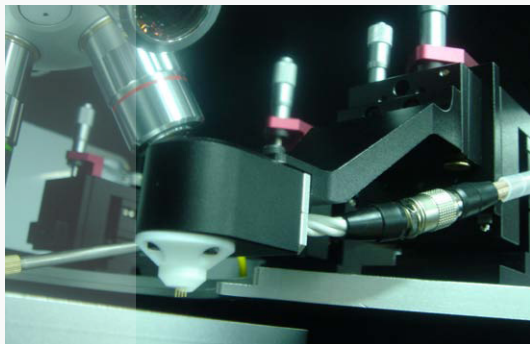
4 Point Probe



M4P_302



M4P_205

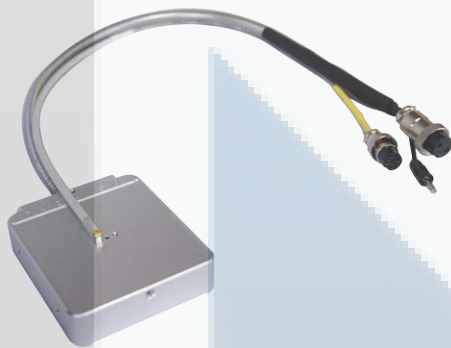


Model no.	MS-MP04	MS-MP10	MS-MP25
Type	Multi Probe type	Multi Probe type	Multi Probe type
Pin	4 Pin/Blade	10 Pin/Blade	10 Pin/Blade
Pitch	50um ~ User	50um ~ User	50um ~ User
Connector	SMA/Coaxial	SMA/Coaxial	SMA/Coaxial
Option	Customize Available	Customize Available	Customize Available

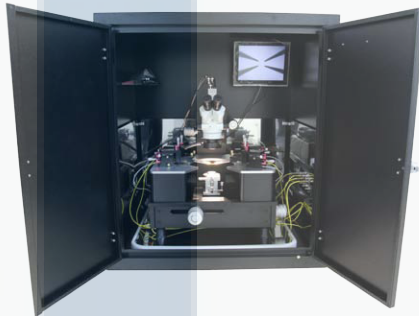
Model no.	M4P302-System	M4P205
Type	One Body	Desk
Pitch	Pitch 1000um	Pitch 1000um
Special Spec	Chuck Motion	Non
Option	Level Gauge	Non

Hot Chuck & Controller

Dark Shield Box & Vibration Table



Model no.	MH6C/MH8C	MH4R
Type	6", 8"	Spot
Temp	~250 degree C	~300 degree C
Dimension	6 inch or 8 inch Cylindrical	150mm * 50mm Rectangular
Resolution	1 degree C	1 degree C
Uniformity	0.3 less than	0.3 less than
Common	Digital Display Control & Source Meter	
	Low Noise Filter & PID Control	
	Single Point & Earth	



Model no.	MSDS-01	MSDS-02
Size	900(W) X 780(D) X 1000(H)	700(W) X 700(D) X 700(H)
Type	Dual Shield, EMI, ESD Care	Dual Shield, EMI, ESD Care
Option	Customize Available	Customize Available

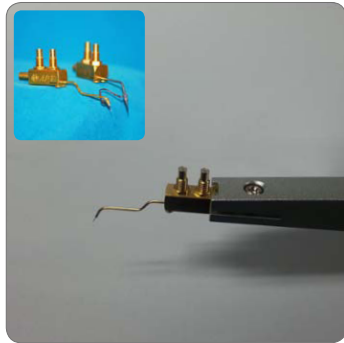


Model no.	MSVT0200	MSVT300
Type	Optic Type	Customize
Size	900(W) X 900(D) X 800(H)	Customize
Color	Dark Embossing Coation	Customize
Option	Rack Top	Customize

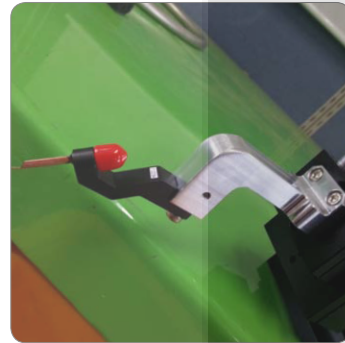


Model no.	MST-1000H
Temp	- 199 ~ + 999 Degree c
Resolution	1 Degree c
Accuracy	0.1 Degree c
Type	PID Control, USB Interface
Software	RS232 Temp Sweep Software

Accessory



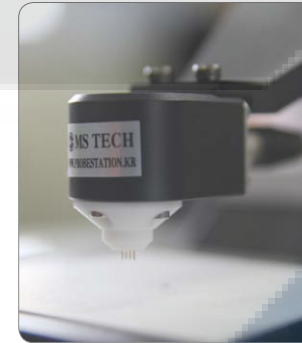
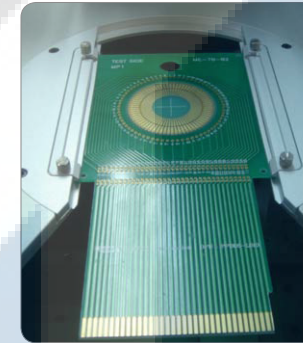
Kelvin Probe Holder



RF Customize Holder



12C RF Probe

4 Point Head
1000um x 4 Gold Pin

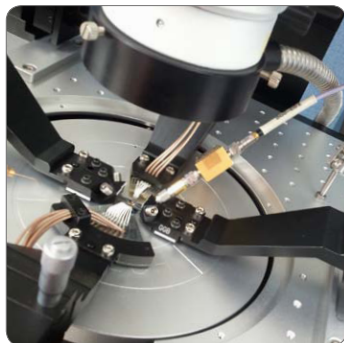
Probe Card Holder



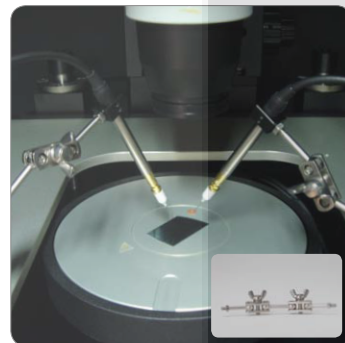
TRX(f) to BNC(m)



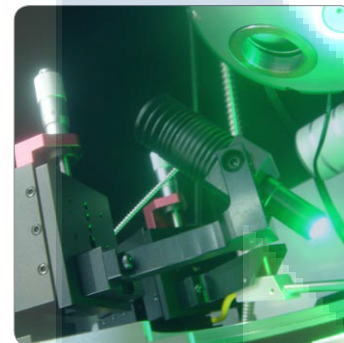
TRX(m) to BNC(f)



RF Probe & Holders



Elbow Holder



R.G.B Light & Controller



Banana Plug



Dual Banana Plug



TRX(f) to TRX(f) Adaptor



BNC Connector



TRX(m) to Dual Hook



TRX(m) to BNC(m)



BNC(m) to SMA(m)



BNC Adaptor



TRX Adaptor Series



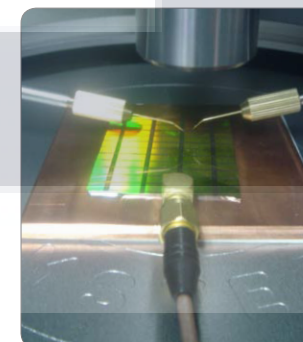
Special Adaptor



Cool Pan for Hot chuck

Multi Single Socket Box
TRX(m) to Banana Plug

Single Socket Box

Plate Panel
TRX & BNCMulti Pin and Back Gate
In Vacuum

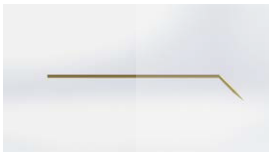
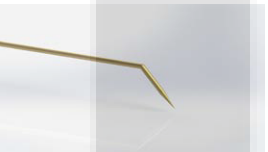
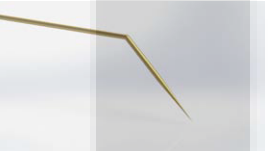
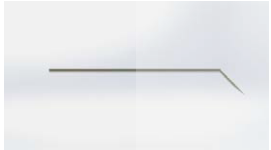
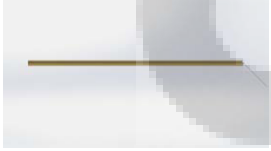
Back Gate - Cu

Back Gate - Rectangular-
AL

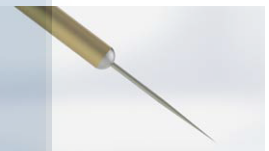
Back Gate - 50mm

Probe Tip

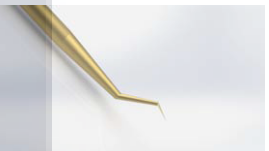
Bending Type

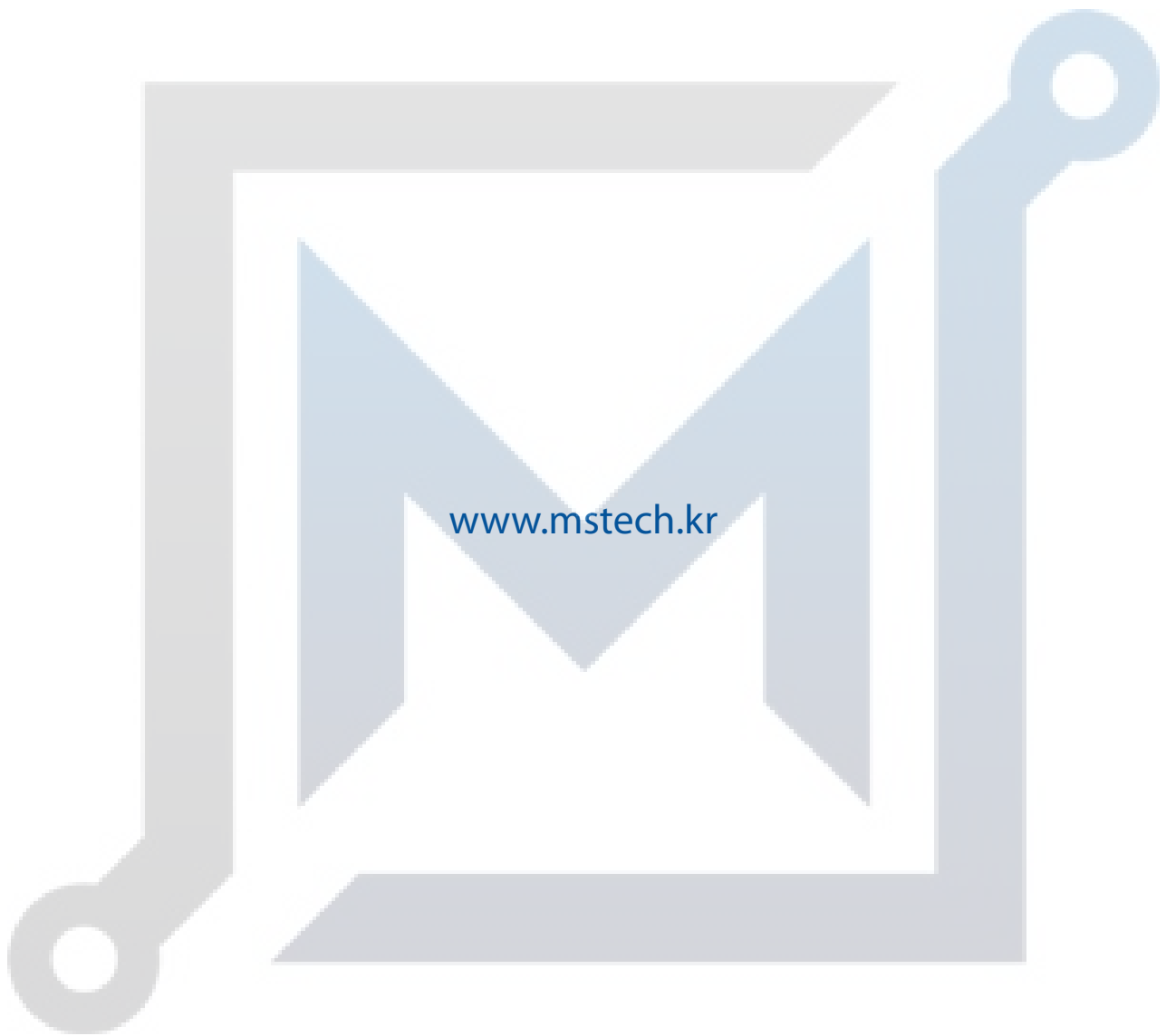
Model no.	Material	Spec	
M5BG	Gold		 <ul style="list-style-type: none"> Size: 0.5 X 30mm Probing Area: Pad 80um ~ 100um more than Leakage: ~10fA less than Tip dia: 5um
M5BGC	Gold		 <ul style="list-style-type: none"> Size: 0.5 X 30mm Probing Area: Pad 80um ~ 100um more than Leakage: ~10fA less than Tip dia: 5um
M5BT	Tungsten		 <ul style="list-style-type: none"> Size: 0.5 X 30mm Probing Area: Pad 100um ~ 80um Leakage: ~50fA less than Tip dia: 5um
M3BT	Tungsten		 <ul style="list-style-type: none"> Size: 0.3 X 35mm Probing Area: Pad 50um ~ 20um / Thin Pad Tip dia: 3um
M1.5BT	Tungsten		 <ul style="list-style-type: none"> Size: 0.15 X 35mm Probing Area: Pad 10um ~ 10um / Thin pad Tip dia: 2um

Straight Type

Model no.	Material	Spec	
M1.5ST	Tungsten		 <ul style="list-style-type: none"> Size: 0.15 X 35mm Probing Area: 10um less than Tip dia: 3um
M3ST	Tungsten		 <ul style="list-style-type: none"> Size: 0.3 X 35mm Probing Area: 30um less than Tip dia: 3um
M5ST	Tungsten		 <ul style="list-style-type: none"> Size: 0.5 X 30mm Probing Area: Pad 100um ~ 50um Tip dia: 5um
M5SG	Gold		 <ul style="list-style-type: none"> Size: 0.5 X 30mm Probing Area: Pad 50um ~ 100um more than Leakage: ~10fA less than Tip dia: 5um
M5SGS	Gold		 <ul style="list-style-type: none"> Size: 0.5 X 35mm Probing Area: Pad 100um more than Tip dia: 5um Type: Spring / Stress Test

Hook Type

Model no.	Material	Spec	
M3BGHR	Gold		 <ul style="list-style-type: none"> Size: 0.3 X 30mm Probing Area: Pad 20um ~ 50um more than Tip dia: 3um
M3BGHRC	Gold		 <ul style="list-style-type: none"> Chamber Type Size: 0.3 X 30mm Probing Area: Pad 20um ~ 50um more than Tip dia: 3um



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