

# ProbeStation Accessory Catalog

- **Cascade Microtech offers a complete set of accessories to enhance the productivity and capability of your probe station.**

Precision measurement capability does not end with the probe and probe station. We offer a complete set of accessories to allow you to position, navigate, determine signal fidelity, and contact the wafer or device under test.

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# Board Test Systems

## Positioners, Mounts and Accessories

---

### 005-018 — Contact Substrate

#### Features

- Impedance Standard Substrates used in probe calibration.

#### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — included in package



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### 106-564 — Variable Pitch Mount

#### Features

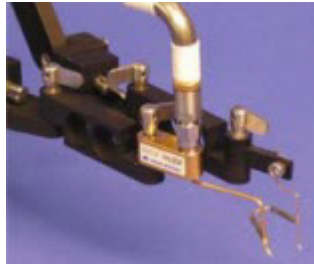
- Adds second FP-mount for variable pitch SGS probing.

#### Specifications

- Up to 18 GHz bandwidth when used with brush contact ground

#### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



---

### 125-058 — Video Monitor

#### Features

19-inch LCD, multi-function video monitor.

#### Specifications

- 100/240 VAC
- 50/60 Hz
- (CSA,CE,UL)

#### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — included in package



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### 129-691 — Vacuum Based Auxiliary Chuck

#### Features

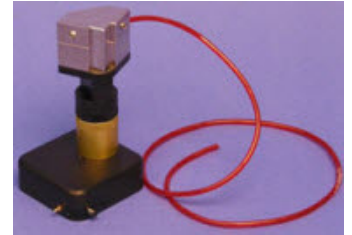
- Adjustable height auxiliary chuck mounted on a vacuum base.

#### Specifications

- Easily adjust height in 1/4-inch increments from approximately 3.3-inches (minimum) to 7.5-inches (height can be increased with additional spacers, not included)
- Base requires a vacuum manifold (sold separately)

#### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



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### 131-906 — Vacuum Mount Spacer Block

#### Features

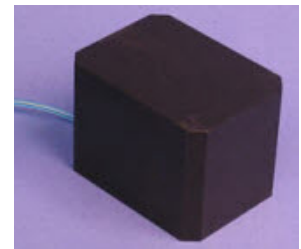
- Vacuum based spacer block for BTS packages to provide additional positioner height for probing with vertical PCBA and other boards.
- Can be used to create adjustable height and position gantry.

#### Specifications

- Height is a nominal 2.5-inches and is stackable
- Compatible with MPH style positioners 134-422 and 134-423

#### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — included in package



## 134-420 — Vacuum Base Board Clamp

### Features

- Circuit board hold down clamp with vacuum base used for mounting PCB in a horizontal probing orientation.

### Specifications

- Approximately 0.5-inch clamping area to hold PCBs
- Accommodates PCBs with 0.125-inch keep out on edges, and thickness from 0.0- to 0.125-inches
- Easily adjust height in 0.25-inch increments from approximately 3.3-inches (minimum) to 7.5-inches (height can be increased with additional spacers, not included)
- Four clamps are typically required hold the 4 corners of the PCB

### Package Compatibility

- BTS 1000 — included in package
- BTS 2000 — included in package
- BTS-VERT — YES



## 134-421 — Vacuum Base PCB Bottom Support

### Features

- Circuit board bottom support with vacuum base. Use with vacuum base board clamp (134-420) setup.

### Specifications

- PCB bottom support can be configured using the bullet tip (insulating material) touching bottom of the PCB, or by removing the bullet tip (6-32 screw) and attaching the PCB to support shaft with 6-32 hardware
- Adjustable height from nominal. Nominal is with bullet tip removed, top of adjust shaft in same as bottom PCB plane of 134-420 hold down clamps
- Easily adjust height in 1/4-inch increments from approximately 3.3-inches (minimum) to 9.5-inches

### Package Compatibility

- BTS 1000 — included in package
- BTS 2000 — included in package
- BTS-VERT — YES



## 134-422, 134-423 — Multi-Orientation Positioners

### Features

- Vacuum based RPP210 positioner with a dovetail arm attachment allowing vertical circuit board probing with a vertical range of 4-inches.

### Specifications

- 2.5-inches of range in dovetail
- Potential 11+ inches in 180° orientation
- Arm can be positioned at 0°, 90°, 180°, and 270° in reference to the platen base
- Compatible with FPC probes
- Reconfiguration converts positioner for horizontal probing
- 134-422 (left-orientation)
- 134-423 (right-orientation)

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



## 141-050 — Portable Vacuum System

### Features

- Portable vacuum system for facilities without a house vacuum system.

### Specifications

- Recommended for use with no more than 8 vacuum mounted positioners and/or accessory mounts
- Oil-less design, noise level 60dB(A/1m)
- Air flow/vacuum capacity (0.2 CFM @ 20" Hg)
- Rated for 100% continuous duty
- 115 VAC / 60Hz UL

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



## 142-032 — Vibration Isolation Table for BTS Packages

### Features

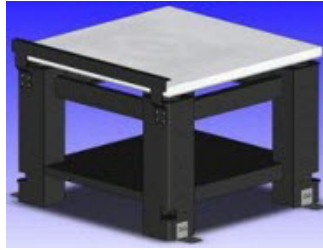
- Heavy duty frame and steel tabletop.

### Specifications

- Dimensions: 40-inches (W) x 40-inches (D) X 32-inches (H)

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



## 142-033 — Deluxe Vibration Isolation Table for BTS Packages

### Features

- Heavy duty frame and steel tabletop. Includes computer accessory mounting kit for keyboard, mouse, joystick and multi-directional LCD monitor support arm.

### Specifications

- Dimensions: 40-inches (W) x 40-inches (D) X 32-inches (H)

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



## 142-171 — WinCal XE Software

### Features

- WinCal XE enhances RF measurement accuracy and productivity through guided system setup, automatic calibration and validation, and other advanced RF measurement related tools.

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



## Consult factory for PN — Dark Box/Vibration Isolation Table for BTS 1000/2000

### Features

- Combination anti-vibration table and dark box for applications with probing features smaller than 50  $\mu\text{m}$ , and with light sensitive tests or I/R laser probing.

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

## EZ-PROBE — EZ-Probe Positioner

### Features

- Vacuum mount joystick positioner for assisted PCB probe positioning. Provides easy, precise manual probe positioning control in 3 axes.



### Specifications

- Positioning range: 0.65 x 0.65 x 0.5-inch (17 x 17 x 13 mm)
- Placement: 50  $\mu\text{m}$  (2 mil)
- Operates with vacuum (requires -15.75-inch Hg) or weighted gravity base
- Three dimensional joystick with 3:1 motion reduction
- Weight: 2.65 lbs. (1.2 kg)
- Adjustable arm reach: 3.9 - 8.7-inch (100-220 mm)
- Arm sweep angle: +90°
- Recommended for use with FPA, FPC, or DCP probes

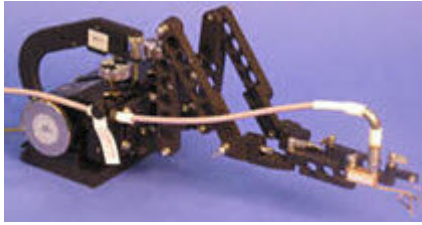
### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

## FPD-100 — Fine Pitch Dual-Armed Positioners

### Features

- Fine pitch dual positioner, optimized for variable pitch probing on PCB with FPx probes.



### Specifications

- Vacuum-based
- 100 TPI pitch
- Mounts (2) 104-134 articulating arm probe mount

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

## M150-ACC-16 — Magnetic Cable Clamp Kit

### Features

- Magnetic base cable clamp
- Enables easy cable routing
- Helps to minimize cable vibration that can affect measurements
- Groove in base holds cable securely



### Kit Contents

- Each kit includes the necessary hardware for one cable
- Maximum cable diameter = 1/8-inch
- Must be used with steel base

### Compatibility

Elite 300, Summit, Tesla, M150, Alessi, BTS\*

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

## SQ-115-330-03 — Removable 6-inch Pedestal Wafer Chuck

### Features

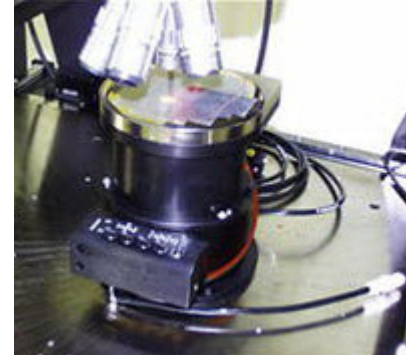
- Planarizable 150 mm wafer chuck for PCB probing.

### Specifications

- Fixed x/y/z/theta
- Bolt-down base mount
- 6-inch round chuck
- Includes vacuum manifold for chuck vacuum zones

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — NO



## SQ-129-032-01 — Bottom Side Viewing Camera Kit

### Features

- Vacuum-mounted camera for double-sided probing on printed circuit boards. Monitor is sold separately.

### Specifications

- 70x video scope on a vacuum base with fine x/y-movement control and coarse z-control
- Video scope includes color camera
- Includes (2) aux chucks mounted on a variable height vacuum base.
- Includes (4) extension arms for bottom side probing (all arms are compatible with RPP210 positioners)

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES



---

## SQ-132-667-01 — Vacuum Mount Gantry Top Plate

### *Features*

- Vacuum mounted gantry for mounting vacuum-based positioners for PCB probing.



### *Specifications*

- Overall board width 18 inches
- Requires (2) vertical probe station spacer blocks (131-906) for each nominal height increase of 2.5-inches

### *Package Compatibility*

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

# CM300

## CM300 With TopHat

### CONNECTION PANELS

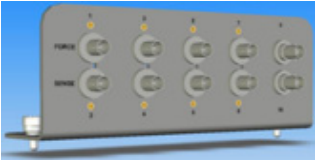
#### 167-117 — Connection Panel

##### Features

- Complete kit of cable connection panels and accessories.
- Optimized for CM300 and Elite 300 universal accessory mounting rail system.
- All accessories can be mounted on the platen simultaneously, in any location (left, right and back sides of the probe station platen).

##### Kit Contents

- 2 triaxial connection panels
  - Each panel features 8 triaxial (3-lug) feed through connectors (f), and 2 BNC coax (2-lug) connectors (f).
  - Panel connections support single triax cables and Keysight dual triax SMU cable assemblies.
  - (For Keysight Quadrax SMU connections, please contact the factory).

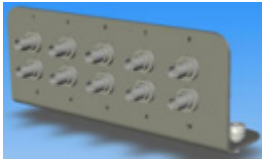


Triaxial connection panel  
(front view)



Triaxial connection panel  
(top view)

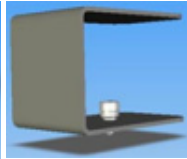
- 1 coaxial connection panel – each panel features 10 BNC coax (2-lug) connectors (f).
- 2 vacuum manifolds – each manifold features 5 vacuum inlets with integrated on/off pull switches.
- 2 positioner mounts – used for holding DPP2xx/DPP3xx positioners above the platen while changing probe tips.



Coaxial connection  
panel



Vacuum manifold



Positioner  
mount

##### Compatibility

- CM300

### MOUNTING KITS AND PLATES

#### 143-428 — Keysight 42941 Mounting Kit

##### Features

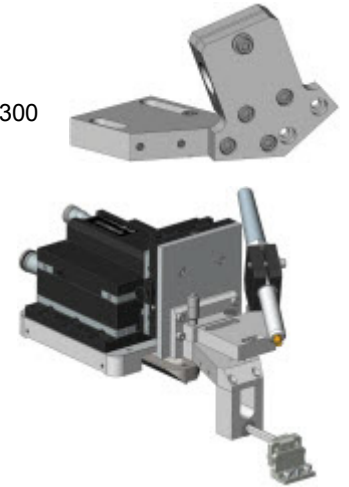
- Mounting bracket to hold Keysight 42941 probe
- Compatible with CM300 and Elite 300 RPP305 positioners

##### Kit Contents

- 2 cables:
  - SMA (m) to SMA (m)
  - 120 mm (4.7-inch)
- Mounting bracket for RPP305-EL positioner

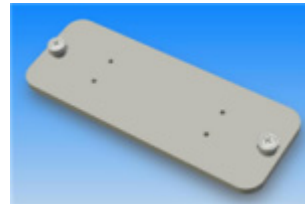
##### Compatibility

- CM300, Elite 300

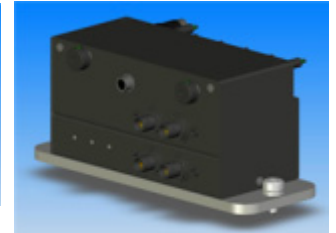


Mounting bracket shown on  
RPP305 positioner with Keysight  
high impedance probe

#### 143-429 — Mounting Plate for B1500A SCUU



Mounted plate



Keysight SCUU  
mounted to plate

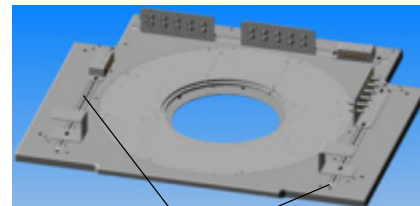
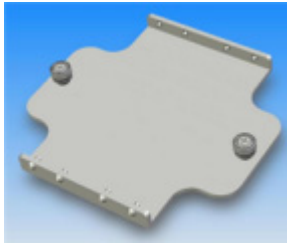


Plate mounts on universal  
accessory mounting rails

##### Compatibility

- CM300, Elite 300

## 144-422 — Mounting Plate for B1500A ASU, E5288A Atto Sense Unit



Mounted plate



Keysight ASU  
mounted to plate

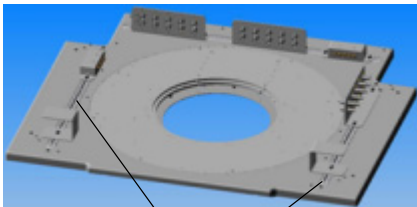


Plate mounts on universal  
accessory mounting rails

### Compatibility

- CM300, Elite 300

## 161-695 — Instrument Shelf

### Features

- Shelf system easily attaches to the CM300 system frame
- Instruments and accessories can be conveniently placed at the rear of the CM300
- Instrument shelf is positioned forward over the CM300 platen surface, allowing test instruments to be located close to probes for shortest cable interconnects



### Specifications

- Maximum supported instrument load: 50 kg (110 lbs)
- Dimensions: width 114 cm (44.9 inch) x depth 59 cm (23.2 inch) x height 2.5 cm (1 inch)
- Weight: 15 kg (33 lbs)

### Compatibility

- CM300

## 163-753 — Adjustable RF Probe Mount

### Features

- Adjustable height probe mount compensates for different RF probe depth without compromising positioner Z-travel range
- Adapter converts existing Elite 300 RF probe mounts for use with CM300
- Compatible with RPP305 positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials



### Compatibility

- CM300, Elite 300

## 163-755 — DPP2xx 43mm Probe Mount Adapter

### Features

- Adapter converts existing Elite 300 DCP probes and needle probe mounts for use with CM300
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials



### Compatibility

- CM300, Elite 300

# CM300 With Top Chamber

## SIGMA KITS

### 127312—SIGMA for Keysight 42941A, HF

#### Features

- SIGMA Integration of the impedance probe Keysight 42941A into MicroAlign Advanced systems for capacitance measurements by IV method, including:
- On-wafer integration of Keysight 42941A close to the DUT to optimize measurement performance
- Optimized cable length reduces systematic measurement error
- Appropriate feed-through and ultra-short SMA cable for RF pad design
- Requires RPP305-S positioner with arm East/West/4PH or arm East/West/4PH/Mirrored plus |Z|Probe GS or SG and an instrument shelf for optimum instrument connection

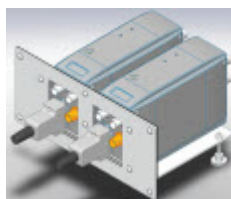
#### Compatibility

- CM300, PA300 MicroAlign

### 131467—SIGMA for Keysight E5288A ASU

#### Features

- SIGMA Integration of Keysight E5288A ATTO Sense and Switch Units (ASU) to MicroAlign Advanced systems, including:
- On-wafer integration of one or two ASUs close to the DUT to optimize measurement performance
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
- Providing automated I-V and C-V measurements
- Optimized cable length reduces cable capacitance
- For use with DPP2xx/DPP3xx positioners with Triax probe arm and probe arm for DCP probes



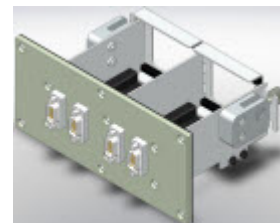
#### Compatibility

- CM300, PA300 MicroAlign

### 138183—SIGMA for PreAmp Keithley 4200/6430 (up to 4)

#### Features

- SIGMA Integration of up to 4 Keithley PreAmps for 4200 and 6430 into MicroAlign Advanced systems, includes:
- Optimal integration of up to 4 PreAmps on a single Test Equipment Interface placed close to the DUT
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
- High power cabling outside the MicroAlign (provided by Keithley) eliminates tribo-electric effects



#### Compatibility

- CM300, PA300 MicroAlign

### 145265—SIGMA for IV/CV

#### Features

- SIGMA Integration of Parameter Test Instruments for I-V and C-V measurements into the MicroAlign Advanced systems, includes:
- 2 panels with 4 triax-triax-dual connectors (Force & Sense), and 4 coax-triax connectors (type E1)
- Kelvin connectors (Force & Sense) fit to Keysight 4155/4156/4157, and any other single triaxial cable with 3-lug plug
- 4 coax cables with BNC plug for total cable length of 2 m for CV measurements
- CommonRing technology for shortest virtual ground close to the DUT
- For use with DPP2xx/DPP3xx positioners with Triax probe arm and probe arm for DCP probes



#### Compatibility

- CM300, PA300 MicroAlign



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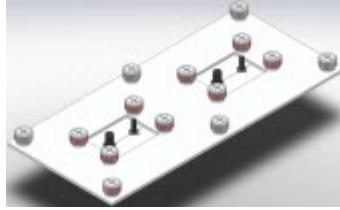
## TEST EQUIPMENT INTERFACES

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### 144987—Test Equipment Interface, Pico Probe (up to 2)

#### *Features*

- To connect up to 2 active pico probes to the MicroAlign Advanced
- Includes 1 panel with 2 feedthroughs with integrated cable strain relief



#### *Compatibility*

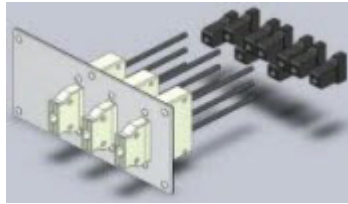
- CM300, PA300 MicroAlign

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### 145044—Test Equipment Interface, PH510 (up to 3)

#### *Features*

- Feedthrough plate for control lines of up to 3 PH510 for use in a MicroAlign system with Top Chambers
- Not used control lines are covered by a blank plate



#### *Compatibility*

- CM300, PA300 MicroAlign

# Cryogenic and Vacuum

## Miscellaneous Cryogenic and Vacuum System Accessories

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### 49827 — LN<sub>2</sub> Transport Dewar, 120L

#### Features

- Tank head with safety valve, fill level gauge, central ball valve with 12 mm quick lock fitting
- Fill level gauge
- Internal pressure build-up system

#### Specifications

- Transfer tube DN10/1.5m
- Maximum positive operating pressure: 1.5 bar

#### Compatibility

- Cryogenic systems only



---

### 51113 — LHe Transport Dewar 120L

#### Features

- Specified for transportation of liquid helium (LHe) on public roads
- Made of stainless steel
- Connection flange DN 50 KF
- With casters, safety valve, vibration damper and pressure gauge
- Head with safety neck tube, central ball cock and 12 mm quick lock fitting
- Two side-gated ball valves for pressure relief and bypass valve

#### Specifications

- Maximum overpressure 1.2 bar gauge pressure

#### Compatibility

- Cryogenic systems only



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### 49906 — HF Precision Cable, PC-2.4 50GHz/0.8m with Right Angle Plug Male/Male

#### Features

- Flexible
- Male-right angle male
- Cable length: 0.8m

#### Compatibility

- PMC200, PMV200, PLV50





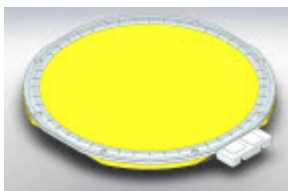
## PMC200 Wafer Carriers

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### 128027 — Wafer Carrier, 200 mm, PMC200

#### Features

- For mounting, fixing and handling of SEMI standard 200 mm wafers with Cascade Microtech cryogenic probe stations
- Mounting outside vacuum chamber recommended
- Patented mechanical wafer clamping: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck
- Includes holder for 2 RF calibration substrates



#### Compatibility

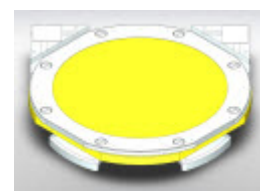
- PMC200

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### 130476 — Wafer Carrier, 100 mm, PMC200

#### Features

- For mounting, fixing and handling of SEMI standard 100 mm wafers with Cascade Microtech cryogenic probe stations
- Mounting outside vacuum chamber recommended
- Patented mechanical wafer clamping: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck
- Includes holder for 2 RF calibration substrates



#### Compatibility

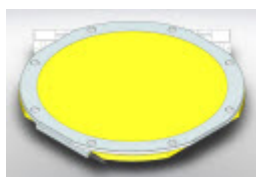
- PMC200

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### 130474 — Wafer Carrier, 150 mm, PMC200

#### Features

- For mounting, fixing and handling of SEMI standard 150 mm wafers with Cascade Microtech cryogenic probe stations
- Mounting outside vacuum chamber recommended
- Patented mechanical wafer clamping: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck
- Includes holder for 2 RF calibration substrates



#### Compatibility

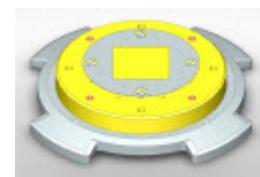
- PMC200

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### 133758 — Substrate Holder, 4K, PMC200

#### Features

- For mounting, fixing and handling of small substrates, maximum size 1 x 1-inch, with Cascade Microtech cryogenic probe stations. Size and shape of the substrate needs to be specified with the order.
- Includes additional cold shield for achieving lowest sample temperature
- Mounting outside vacuum chamber recommended
- Patented mechanical wafer clamping: mechanical clamping from top by a clamping mask (top-side substrate contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck



#### Compatibility

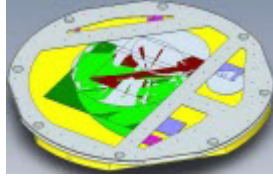
- PMC200

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## 136397 — Universal Carrier, PMC200

### *Features*

- For mounting, fixing and handling of substrates of different shapes or wafers up to 75 mm with Cascade Microtech cryogenic probe stations
- Mounting outside vacuum chamber recommended
- Patented mechanical substrate/wafer clamping: mechanical clamping from top by a universal clamping mask (top-side substrate/wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck



### *Specifications*

- Maximum substrate dimensions:
  - 76.2 mm /3-inch (full wafer)
  - 150 mm (quartered wafer)
  - 76.2 mm x 76.2 mm (3 x 3-inch) or 50 mm x 110 mm

### *Compatibility*

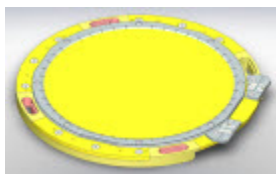
- PMC200

## PMV200 Wafer Carriers

### 142361 — Wafer Carrier, 200 mm, HF-Ready, PMV200

#### Features

- For fixing and handling of wafer, wafer fragments and single chips
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by leaf springs (top-side substrate/wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for good thermal contact between wafer and chuck
- Includes holder for 2 RF calibration substrates



#### Specifications

- Maximum substrate dimensions:
  - 76.2 mm/3-inch (full wafer)
  - 150 mm (quartered wafer)
  - 76.2 mm x 76.2 mm (3 x 3-inch) or 50 mm x 110 mm
- Temperature range: -60°C to +200°C

#### Compatibility

- PMV200

### 144072 — Universal Carrier, PMV200

#### Features

- For fixing and handling of wafer, wafer fragments, and single chips
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by leaf springs (top-side substrate/wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for good thermal contact between wafer and chuck
- Includes holder for 2 RF calibration substrates



#### Specifications

- Maximum substrate dimensions:
  - 76.2 mm/3-inch (full wafer)
  - 150 mm (quartered wafer)
  - 76.2 mm x 76.2 mm (3 x 3-inch) or 50 mm x 110 mm
- Temperature range: -60°C to +200°C

#### Compatibility

- PMV200

### 142365 — Wafer Carrier, 150 mm, HF-Ready, PMV200

#### Features

- For mounting, fixing and handling of SEMI standard 150 mm wafers
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for good thermal contact between wafer and chuck
- Includes holder for 2 HF calibration substrates



#### Specifications

- Temperature range: -60°C to +200°C

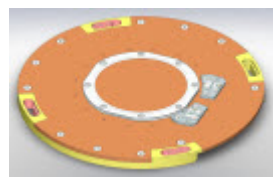
#### Compatibility

- PMV200

### 144078 — Wafer Carrier, 100 mm, HF-Ready, PMV200

#### Features

- For mounting, fixing and handling of SEMI standard 100 mm wafers
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for good thermal contact between wafer and chuck
- Includes holder for 2 HF calibration substrates



#### Specifications

- Temperature range: -60°C to +200°C

#### Compatibility

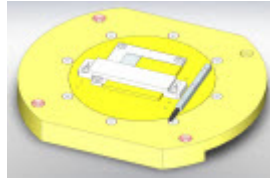
- PMV200

# PLV50 Wafer Carriers

## 140971 — Universal Carrier, PLV50

### Features

- For fixing and handling of wafer, wafer fragments, and single chips
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by leaf springs (top-side substrate/wafer contact only at the edge)
- Clamping on three substrate sides with simple adjustment to the device size by slidable third side piece
- Contact plate made of gold-coated copper for good thermal contact between wafer and chuck



### Specifications

- Maximum substrate dimensions:
  - 50.8 mm/2-inch (full wafer)
  - 100 mm (quartered wafer)
  - 50.8 mm x 50.8 mm (2 x 2-inch)
- Temperature range: -60°C to +200°C

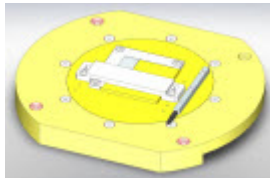
### Compatibility

- PLV50

## 155-905 — Universal Carrier, PLV50, 300°

### Features

- For fixing and handling of wafer, wafer fragments, and single chips
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by leaf springs (top-side substrate/wafer contact only at the edge)
- Clamping on three substrate sides with simple adjustment to the device size by slidable third side piece
- Contact plate made of gold-coated copper for good thermal contact between wafer and chuck



### Specifications

- Maximum substrate dimensions:
  - 50.8 mm/2-inch (full wafer)
  - 100 mm (quartered wafer)
  - 50.8 mm x 50.8 mm (2 x 2-inch)
- Temperature range: -60°C to +300°C

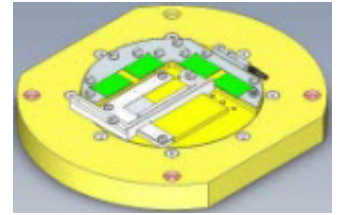
### Compatibility

- PLV50

## 141246 — Universal Carrier, HF-Ready, PLV50

### Features

- For fixing and handling of wafer, wafer fragments, single chips, and up to four (4) HF calibration substrates
- Mounting outside vacuum chamber recommended
- Patented mechanical clamping system: mechanical clamping from top by leaf springs (top-side substrate/wafer contact only at the edge)
- Clamping on three substrate sides with simple adjustment to the device size by slidable third side piece
- Contact plate made of gold-coated copper for good thermal contact between wafer and chuck



### Specifications

- Maximum substrate dimensions:
  - 50.8 mm/2-inch (full wafer)
  - 100 mm (quartered wafer)
  - 50.8 mm x 50.8 mm (2 x 2-inch)
- Temperature range: -60°C to +200°C

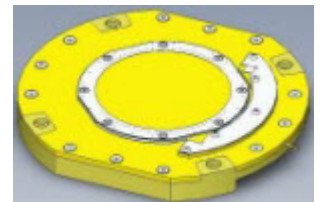
### Compatibility

- PLV50

## 147917 — Wafer Carrier, 100 mm, PLV50

### Features

- For mounting, fixing and handling of SEMI standard 100 mm wafers with Vacuum probe stations
- For use with temperature controlled chuck systems up to 200°C
- Mounting outside vacuum chamber recommended
- Patented mechanical wafer clamping: mechanical clamping from top by a ring shaped leaf spring (top-side wafer contact only at the edge)
- Contact plate made of nickel/gold coated OFHC copper for best heat contact between wafer and chuck



### Specifications

- Temperature range: -60°C to +200°C

### Compatibility

- PLV50

# Test Interface Feedthroughs

## 137196— Triax High-Vacuum Feedthrough, DN100 ISO-K

### Features

- 4 pcs. hermetically sealed bulk feedthrough type W.W. Fischer WDE103 on 100 mm flange
- 4 pcs. low-noise triax cable 2m

### Compatibility

- PMC200, PMV200, PLV50



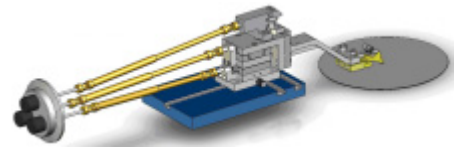
## 141257— Vacuum Rotary Feedthrough for VCP110

### Features

- Manipulation of one VCP110 from outside vacuum chamber
- Consists of mechanical feedthrough drive and adaptation to VCP110

### Compatibility

- PMC200, PMV200, PLV50

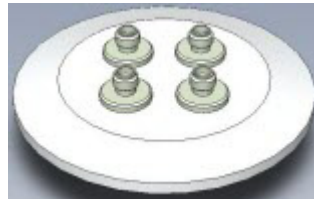


## 137495 — High-Vacuum 4x-HF Feedthrough, DN50KF 40GHz 2.92

### Features

- Four pcs. hermetically sealed electrical bulkhead feedthroughs on a DN50-KF flange for DC to 40 GHz 2.92 connector

### Compatibility



## 137998 — Two SUB-D (50 PIN) Electrical Feedthrough on DN100 HV Flange

### Features

- High vacuum electrical feedthrough of 100 pins, grouped to two 50-pin Sub-D female - female connectors integrated into DN100 flange
- Includes wire harnesses of 2x 40 high vacuum proof cables for connection to probe card

### Compatibility

- PMC200, PMV200, PLV50
- PMC200, PMV200, PLV50



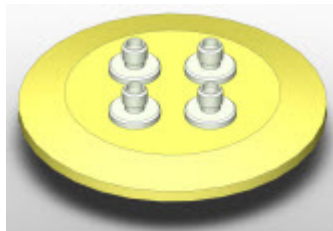
## 141182— SMA 50 Ohm Feedthrough, DN50 KF

### Features

- Flange plate made from plastics for individually electrically isolated feedthroughs
- Female - female

### Compatibility

- PMC200, PMV200, PLV50



# Replaceable Probe Tips, DC Cables, and Adapters

## Replaceable Probe Tips

### 138-020 — Edge Sense Single Blade Ceramic Needle

#### Features

- Edge Sense
- Single blade ceramic needle

#### Specifications

- For DCP-HTR probe body

#### Kit Contents

- Box of 5

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi

### DCP Replacement Tips

#### Features

- High performance probe tips for modeling and characterization work
- Easily replaceable
- Durable

#### Specifications

- Tip material for DCP-1xxR DC coaxial probes: tungsten
- Tip diameters shown below

#### Kit Contents

- 10 tips per set

#### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

#### Ordering Information

Part Number	Size	Compatibility
107-157	1.5 $\mu$	DCP-115R
107-158	5.0 $\mu$	DCP-150R
107-159	0.5 $\mu$	DCP-105R



### DCP-HTR Replacement Tips

#### Features

- Standard ceramic probe blade
- 7 degree angle
- For use with AttoGuard

#### Specifications

- For DCP-HTR probe body: 19  $\mu$ m diameter
- 10  $\mu$ m diameter

#### Kit Contents

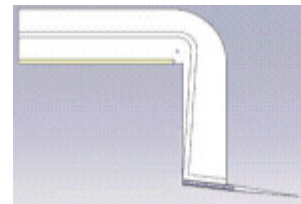
- Box of 10

#### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

#### Ordering Information

Part Number	Tip Radius
154-001	19 $\mu$ m
154-003	10 $\mu$ m



### PTC-12-25 — Specialty Probe Tip, Tungsten Carbide

#### Features

- Tungsten carbide tip

#### Specifications

- 1.2  $\mu$
- Straight

#### Kit Contents

- 25 tips per set

#### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi



### PTS 24-25 — Specialty Probe Tip, Osmium

#### Features

- Osmium tip

#### Specifications

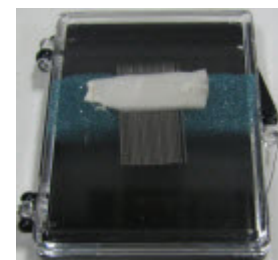
- 2.4  $\mu$

#### Kit Contents

- 25 tips per set
- Straight

#### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi



## PTS 24/4-25 — Specialty Probe Tip, Osmium, 45 degree

### Features

- Osmium tip

### Specifications

- 2.4  $\mu$
- 45 degree bend

### Kit Contents

- 25 tips per set

### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

## PTT Probe Tips

### Features

- Low cost
- Easily replaceable
- Durable

### Specifications

- Tip material: Tungsten
- Tip diameters shown below

### Kit Contents

- 25 tips per set

### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi



### Ordering Information

Part Number	Type	Size
PTT-06-25	Straight	0.6 $\mu$ m
PTT-12-25	Straight	1.2 $\mu$ m
PTT-24-25	Straight	2.4 $\mu$ m
PTT-120-25	Straight	12 $\mu$ m
PTT-250-25	Straight	25 $\mu$ m
PTT 1200-25	Straight	120 $\mu$ m
PTT 1500-25	Straight	150 $\mu$ m
PTT-06/4-25	45° Bend	0.6 $\mu$ m
PTT-12/4-25	45° Bend	1.2 $\mu$ m
PTT-24/4-25	45° Bend	2.4 $\mu$ m
PTT-120/4-25	45° Bend	12 $\mu$ m
PTT-250/4-25	45° Bend	25 $\mu$ m
PTT-70-25	Catwhisker	0.07 $\mu$ m



## DC/CV Triax/BNC Cables

### 100652 — Adapter DC RPP305-S

#### Features

- Adapter plate to use standard DPP2xx-S / DPP3xx-S DC arms with RPP305-S.

#### Compatibility

- RPP305-S



### 100697 — Probe Arm Extension, 70mm

#### Features

- 70mm extension for all standard DPP2xx-S / DPP3xx-S arms.
- Recommended for backside probing setups.
- Can be connect in series (recommended maximum of 2)

#### Compatibility

- DPP2xx-S, DPP3xx-S



### 100751 — 50 Ohm Coax Cable for DPP105-x-AI 1.5m

#### Features

- 50 Ohm coax cable, length 1500mm.
- One miniature female HF plug (to positioner).
- One standard male BNC plug.
- Also compatible with DC-tip holder (157-451).

#### Compatibility

- DPP105-x-AI, 157-451



### 100805 — 50 Ohm Coax Cable for DPP105-x-AI 0.5m

#### Features

- 50 Ohm coax cable, length 500mm.
- One miniature female HF plug (to positioner).
- One standard male BNC plug.
- Also compatible with DC-tip holder (157-451).

#### Compatibility

- DPP105-x-AI, 157-451



### 103-775 — Parametric Cable, SSMC to DCP-HTR, 2 m

#### Features

- Low noise cable kit for current or capacitance parametric test

#### Specifications

- Cable length: 2 m (6.5-feet)

#### Kit Contents

- Four 104-330-LC triax cables with large to small connector, 60 cm (24-inch) length
- Four 104-365 coaxial cable with BNC connector, 140 cm (55-inch) length
- Four 104-341 triax to BNC adapter (guard shorted)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-330-LC — Triax Cable, Large to Small Triax Connector, Low Noise, 60 cm

#### Features

- Provides a low noise connection between large and small triax connectors.

#### Specifications

- Cable length: 60 cm (23.5-inch)
- Large to small triax (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi

### 104-334 — Triax Extension Cable, 53 cm

#### Features

- Extends existing triax cables.

#### Specifications

- Cable length: 53 cm (21-inch)
- Triax to triax (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi





### 104-365 — Coaxial Cable with BNC Connector

#### Features

- Connects BNC connectors.

#### Specifications

- Cable length: 1.4 m (4.6-feet)
- Coaxial
- BNC to BNC (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 105-001 — Bias Cable, 1.2 m, BNC to SMB Female

#### Features

- Connects BNC and SMB connectors.

#### Specifications

- Cable length: 1.2 m (4-feet)
- BNC to SMB (male to female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 105-148— Interlock Cable for Keysight 4155-4156

#### Features

- Safety interlock cable for Keysight 4155-4156
- Connects the probe station and the Keysight 4155-4156.

#### Specifications

- Cable length: 3 m (10-feet) (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 105-540 — BNC to SSMC Cable, 1 m

#### Features

- Connects the BNC and SSMC connectors.

#### Specifications

- Cable length: 1 m (3.3-feet)
- BNC to SSMC (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 108-138— Triax Cable Large to Small Triax Connector, Low Noise, 1.8 m

#### Features

- Provides a low noise connection between large and small triax connectors.

#### Specifications

- Cable length: 1.8 m (6-feet)
- Large to small triax (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 124-082 — Cable, Eye Pass, 1.2 m, Molex to BNC

#### Features

- Provides single channel connections between the EyePass probe and BNC connector.

#### Specifications

- Cable length: 1.2 m (4-feet)
- BNC male to 2-pin Molex (female) connector cable

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 124-084-B—RF cable 40GHz 2.92(F)-2.92(M), 1.2m

#### Features

- Connects 40GHz probes with VNA

#### Specifications

- For signals DC to 40GHz
- Connectors straight 2.92/K(F) to straight 2.92/K(M)
- Length: 48" (~120cm)

#### Compatibility

- Most configurations. Ensure close position of VNA.

### 124-085-B—RF cable 50GHz 2.4(F)-2.4(M), 1.2m

#### Features

- Connects 50GHz probes with VNA

#### Specifications:

- For signals DC to 50GHz
- Connectors straight 2.4(F) to straight 2.4(M)
- Length: 48" (~120cm)
- Connector mechanically compatible with 1.85 type

#### Compatibility

- Most configurations. Ensure close position of VNA.

### 124-562 — BNC to SSMC Cable, 2 m

#### Features

- Connects BNC and SSMC connectors.

#### Specifications

- Cable length: 2 m (6.5-feet)
- BNC to SSMC (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 127-911 — 42941 Holder and Cable

#### Features

- Holds the 42941 capacitance meter impedance positioner.

#### Specifications

- Includes two SMA male to male cables, 7.6 cm (3-inch)

#### Compatibility

- Summit
- RPP305-EW-EL-AI, RPP305-EW-SU-AI



127-911



RPP305-EW-SU-AI

### 132-909 — Triax Cable, large to Small Connector, PureLine, 60 cm

#### Features

- Connects large and small triax connectors.

#### Specifications

- Cable length: 60 cm (23.5-inch)
- Large to small triax (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 138-019 — Cable, Edge Sense, SSMC to DCP-HTR, 2 m

#### Features

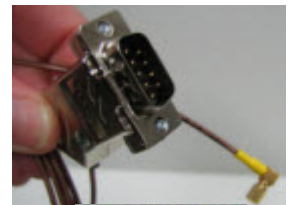
- Connects the SSMC and DCP-HTR probe.

#### Specifications

- Cable length: 2 m (6.5-feet)
- SSMC to DCP-HTR probe (male to male)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



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## 146-214 — Coax Cable, SMA to BNC, 61 cm

### *Features*

- Connects the SMA and BNC connector.

### *Specifications*

- Cable length: 61 cm (24-inch)
- SMA to BNC (male to male)

### *Compatibility*

- CM300, Elite 300, Summit, M150, S300, Alessi

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## 161-099—RF cable 65GHz 1.85(F)-1.85(M), 0.9m

### *Features*

- Connects 65GHz probes with VNA

### *Specifications*

- For signals DC to 65GHz
- Connectors straight 1.85(F) to straight 1.85(M)
- Length: 36" (~90cm)
- Connector mechanically compatible with 2.4 type

### *Compatibility*

- Most configurations. Ensure close position of VNA.

## DC/CV Adapters

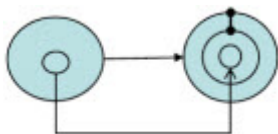
### 104-341— Triax to BNC Adapter, Guard Shorted

#### Features

- Adapts triax to BNC connection

#### Specifications

- Guard shorted (male to female)



#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-342 — Triax Feed-Thru for Summit Triax Panel

#### Features

- Bulkhead adapter for triax connector.
- For use with Summit triax panel.

#### Specifications

- Triax to triax (female to female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-357— BNC Feed-Thru for Summit Triax Panel

#### Features

- Bulkhead adapter for BNC connector.
- For use with Summit triax panel.

#### Specifications

- BNC (female) to BNC (female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-372— Ground Unit Adapter Kit

#### Features

- For use with the SMU ground unit.

#### Kit Contents

- Two triax to triax cables, 25 cm (9.8-inch)
- Ground unit bulkhead adapter

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-740— Triax Shorting Plug

#### Features

- Used to terminate the triax chuck.

#### Specifications

- Triax connector (male) with shorted end

#### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi



### 104-743— Triax EMI Cap

#### Features

- Used to cap the end of the triax connector to reduce EMI.

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



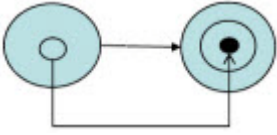
### 104-803— Triax to BNC Adapter, Guard Floated

#### Features

- Adapts triax to BNC connection.

#### Specifications

- Guard floated (male to female)



#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi

### 104-806— Triax Tee, Single Male to Dual Female

#### Features

- Splits a single triax input to a dual triax output.

#### Specifications

- Triax (male) to dual triax (female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 104-810— DCP Mounting Block Kit

#### Features

- Drop down part.
- Adapts RPP positioner for use with use DCP probes.
- Mounts onto RPP305 positioner.
- For use with DCP/SSCM cable.

#### Kit Contents

- Four DCP mounting blocks

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi
- All arms for RPP positioners



### 105-931— EMI Cover for Triax Adapter Block

#### Features

- Used to cap the end of the triax adapter block to reduce EMI.

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 106-510 — BNC Shorting Plug

#### Features

- Used to terminate the coax chuck.

#### Specifications

- Coax connector (male) with shorted end

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 106-560— Triax Adapter, Female to Female

#### Features

- Used to adapt cable end gender or connect triax cables.

#### Specifications

- Triax to triax (female to female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



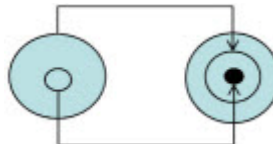
### 106-837— Triax to BNC Adapter, Guard Thru, No Shield

#### Features

- Adapts triax to BNC connector.

#### Specifications

- Guard thru, no shield
- Triax (male) to BNC (female)



#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



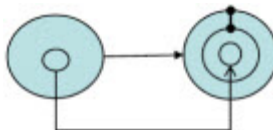
### 108-714—Adapter BNC Female to Triax Female, Guard Short

#### Features

- Adapts triax to BNC connector.

#### Specifications

- Guard short
- Triax (female) to BNC (female)



#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi





### 108-715— Adapter, BNC to BNC Coupler

#### Features

- Adapts BNC to BNC connectors.

#### Specifications

- BNC to BNC (female to female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



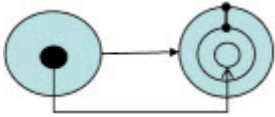
### 108-716— Adapter, BNC Male to Triax Female, Guard Short

#### Features

- Adapts triax to BNC connector.

#### Specifications

- Guard short
- Triax (female) to BNC (male)



#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi

### 108-718— Adapter, BNC Tee, Female-Male-Female

#### Features

- Adapts BNC to BNC connectors.

#### Specifications

- BNC tee
- BNC (female-male-female)

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 123-625— DCP to DCP Guard Connection Strap

#### Features

- DCP to DCP connection wire for LCR meter.

#### Specifications

- Cable length: 7.6 cm (3-inch), with DCP/DCP clip

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



### 126-985 — Kit, DCP to DCP Connection Strap

#### Features

- DCP to DCP connection wire kit for LCR meter.

#### Kit Contents

- 4 straps (PN 123-625)
- DCP strap tech note

#### Compatibility

- CM300, Elite 300, Summit, M150, S300, Alessi



# Cable/Pin Jack Wires for MMP and MPC Probe Holders/Mounts

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## Cable/Pin Jack Wires for MMP and MPC Probe Holders/Mounts

### *Features*

- Electrical jumper wire for MMP and MPC Probe Holders/Mounts.
- Pin jack style connection.



### *Specifications*

#### *Compatibility*

- CM300, Elite 300, Summit, M150, S300, Alessi

#### *Ordering Information*

- Part Number: See Specifications table for cable length selection.

PN	Cable length
MAE-44/6	6-inch
MAE-44/12	12-inch
MAE-44/18	18-inch
MAE-44/24	24-inch

# Elite 300

## Station Accessories

### CONNECTION PANELS

#### 141-790 — Connection Panel

##### Features

- Complete kit of cable connection panels and accessories.
- Optimized for CM300 and Elite 300 universal accessory mounting rail system.
- All accessories can be mounted on the platen simultaneously, in any location (left, right and back sides of the probe station platen).

##### Kit Contents

- 2 triaxial connection panels
  - Each panel features 8 triaxial (3-lug) feed through connectors (f), and 2 BNC coax (2-lug) connectors (f).
  - Panel connections support single triax cables and Keysight dual triax SMU cable assemblies.
  - (For Keysight Quadrax SMU connections, please contact the factory).

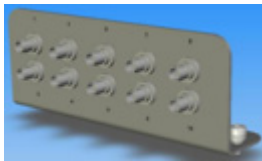


Triaxial connection panel  
(front view)



Triaxial connection panel  
(top view)

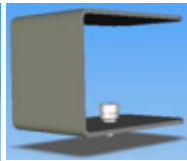
- 1 coaxial connection panel – each panel features 10 BNC coax (2-lug) connectors (f).
- 2 vacuum manifolds – each manifold features 5 vacuum inlets with integrated on/off pull switches.
- 2 positioner mounts – used for holding DPP2xx/DPP3xx positioners above the platen while changing probe tips.



Coaxial connection  
panel



Vacuum manifold



Positioner  
mount

##### Compatibility

- Elite 300

### MONITORS

#### 144-350 — Dual LCD Monitor

##### Features

- Adds second LCD screen (20-inch) for dual monitor configuration with Elite 300.
- Includes ergonomic dual LCD VESA monitor mounting kit.
- Articulated arm for free floating placement of second LCD monitor.
- Universal design can mount in multiple different configurations.

##### Specifications

- Supports LCD monitor with VESA mount (weight range 12-29 lbs)
- Monitor arm has 16-inch height range and tilt/swivel adjustment
- VESA mounting plates (70/100 mm)
- Second LCD monitor can be mounted in two locations:
  - To the existing Elite 300 LCD monitor mount (both on one side)
  - Alone on the Elite 300 system frame (opposite side to existing LCD monitor)

##### Compatibility

- Elite 300



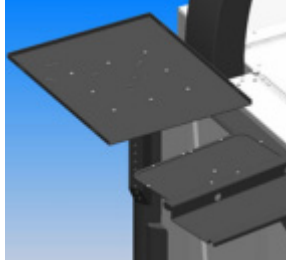


## ACCESSORY SHELVES

### 144-340 — Side Accessory Shelf Kit

#### Features

- Side accessory shelf kit easily attaches to the Elite 300 system frame
- Instruments and accessories can be conveniently placed at the side of the Elite 300
- Keyboard/mouse accessory tray allows easy front panel control of test instruments
- Height adjustable
- Adjustable instrument tray can be positioned over the Elite 300 platen surface, allowing test instruments to be located close to probes for short cable interconnects
- Seismic restraint straps and attachment points on swiveling platform



#### Specifications

- Maximum load supported by platform: 68 kg (150 lbs)
- Dimensions
  - Platform: width 43 cm (17-inch) x depth 53 cm (21-inch), Adjustment height: 30.5 cm (12-inch)
  - Keyboard/mouse tray: width 50.8 cm (20-inch) x depth 44.45 cm (17.5-inch)
  - Adjustment height: None
- Weight
  - Platform and mounting arm: 13.166 kg (29 lbs)
  - Keyboard/mouse tray: 9.988 kg (22 lbs)

#### Kit Contents

- Swiveling instrument/accessory platform
- Mounting hardware
- Keyboard/mouse tray
- Removable/adjustable lower shelf instrument tray
- Removable/adjustable upper shelf
- Seismic restraint straps

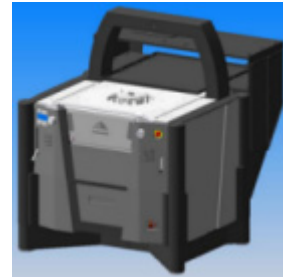
#### Compatibility

- Elite 300

### 143-420 — Rear Instrument Shelf System

#### Features

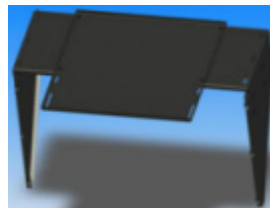
- Shelf system easily attaches to the Elite 300 system frame
- Instruments and accessories can be conveniently placed at the rear of the Elite 300
- Seismic restraint straps and attachment points on shelving
- Height adjustable upper shelf
- Adjustable instrument tray can be positioned forward over the Elite 300 platen surface, allowing test instruments to be located close to probes for short cable interconnects



Complete rear instrument shelf system

#### Specifications

- Maximum supported instrument load
  - Lower shelf and tray: 90.8 kg (200 lbs)
  - Upper shelf: 45.4 kg (100 lbs)
- Dimensions
  - Lower shelf: width 120 cm (47.24-inch) x depth 46 cm (18.11-inch) x height 76.8 cm (30.23-inch)
  - Lower tray: width 75 cm (29.52-inch) x depth 75 cm (29.52-inch), Adjustment forward: 29 cm (11.41-inch)
  - Upper shelf: width 120.6 cm (47.48-inch) x depth 47.9 cm (18.86-inch), Adjustment height: 24.4 cm (9.60-inch)
- Weight
  - Lower shelf and tray: 14.98 kg (33 lbs)
  - Upper shelf: 12.26 kg (27 lbs)



Bottom shelf and adjustable instrument tray (forward position)



Bottom shelf

#### Kit Contents

- Lower shelf and mounting hardware
- Removable/adjustable lower shelf instrument tray
- Removable/adjustable upper shelf
- Seismic restraint straps

#### Compatibility

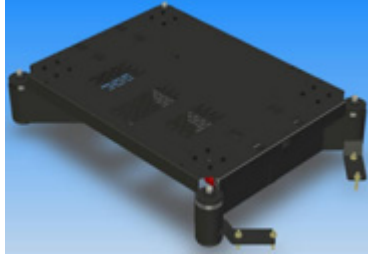
- Elite 300

## SEISMIC RESTRAINTS

### 143-418 — Seismic Restraints

#### Features

- Provides seismic restraint for Elite 300 station platform
- Installation at time of station facilities setup
- Compatible with Elite standard and low profile height kits



#### Kit Contents

- 4 restraint brackets
- Installation guide and bolt mounting recommendations

#### Compatibility

- Elite 300



Floor restraint bracket

## MOUNTING KITS AND PLATES

### 143-428 — Keysight 42941 Mounting Kit

#### Features

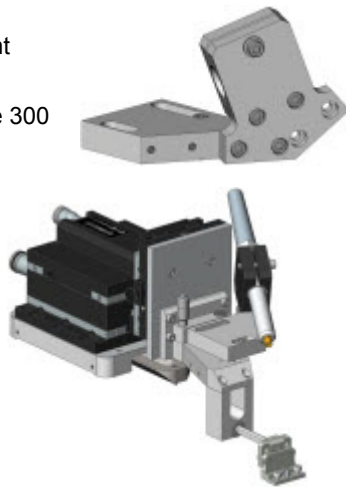
- Mounting bracket to hold Keysight 42941 probe
- Compatible with CM300 and Elite 300 RPP305 positioners

#### Kit Contents

- 2 cables:
  - SMA (m) to SMA (m)
  - 120 mm (4.7-inch)
- Mounting bracket for RPP305-EL positioner

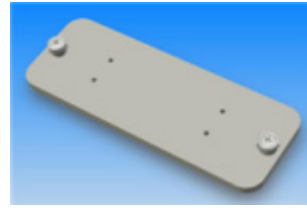
#### Compatibility

- CM300, Elite 300

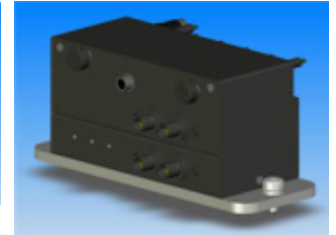


Mounting bracket shown on RPP305 positioner with Keysight high impedance probe

### 143-429 — Mounting Plate for B1500A SCUU



Mounted plate



Keysight SCUU mounted to plate

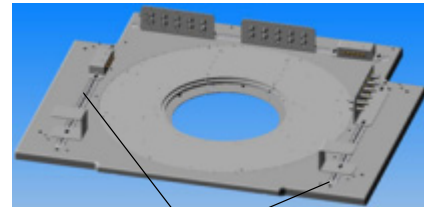
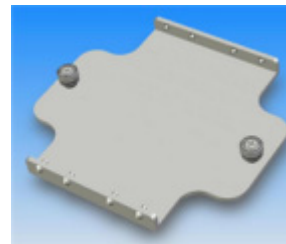


Plate mounts on universal accessory mounting rails

#### Compatibility

- CM300, Elite 300

### 144-422 — Mounting Plate for B1500A ASU, E5288A Atto Sense Unit



Mounted plate



Keysight ASU mounted to plate

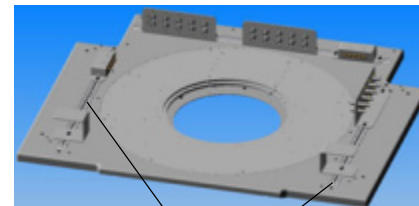


Plate mounts on universal accessory mounting rails

#### Compatibility

- CM300, Elite 300

# Lab Accessories and Miscellaneous

## Tables

### 49210 — Vibration Isolation Platform VIP600

#### Features

- Compact, vibration dampening platform.
- Suitable for EP6 and PM5 probe stations.



#### Specifications

- Dimensions: 610 mm x 508 mm x 51 mm (WxDxH)
- Max. load: 80 kg
- Internal frequency: 3.2Hz (vertical), 3.6Hz (horizontal)
- Requires max. 4 bar compressed air

#### Compatibility

- PM5, EP6

### 115405 — Vibration Isolation Table, VIT801

#### Features

- 1 pressure input regulator with gauge.
- Storage shelf 550x320 mm at rear bottom.
- Support arm systems optionally available.



#### Specifications

- W=800 mm, D=800 mm, H=750 mm
- Adjustable two-chamber air damping system with resonance frequency of 2.5Hz
- Automatic load leveling
- Max. load capacity: 360 kg

#### Compatibility

- PA200, PM8, PM5, EP6

### 117931 — SE1200 EMC Adapter for VIT951/PA300

#### Features

- Connects the SE1200EMC to the PA300 vibration isolating table.
- Impacts to the ShieldEnclosure are isolated from the probe station.
- Electromagnetically shielding.



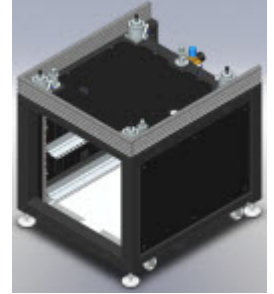
#### Compatibility

- PA300

### 135100 — Vibration Isolation Table, VIT701

#### Features

- For BlueRay and APS/SPS200TESLA use.
- Prepared for 19-inch devices
- Equipped with docking points for upgrade with BlueRay Loader Module to fully automatic probe station.
- Requires compressed air (min. 6 bar, 8 mm hose).
- Measurement shelf and monitor/keyboard arm optionally available.



#### Specifications

- W=700 mm, D=700 mm, H=750 mm
- Adjustable two-chamber air damping system with resonance frequency of 2.5Hz

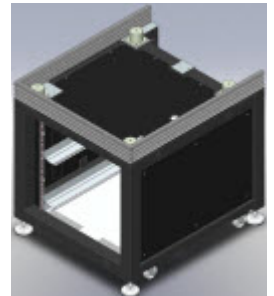
#### Compatibility

- PA200 BlueRay, PA200 DS BlueRay, APS/SPS200TESLA

### 138815 — Probe Station Table 700

#### Features

- For BlueRay and APS/SPS200TESLA use.
- Prepared for 19-inch devices
- Equipped with docking points for upgrade with BlueRay Loader Module to fully automatic probe station.
- Measurement shelf and monitor/keyboard arm optionally available.



#### Specifications

- W=700 mm, D=700 mm, H=750 mm

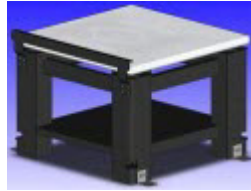
#### Compatibility

- PA200 BlueRay, PA200 DS BlueRay, APS/SPS200TESLA

## 142-032 — Vibration Isolation Table, STANDARD for 200 mm Stations, 40-inch x 40-inch

### Features

- Heavy duty frame and steel tabletop.
- Integrated rolling casters.
- Seismic restraint kit.
- Storage shelf below tabletop.
- Ergonomic front support bar.
- Optional side instrument shelves and accessories available.



### Specifications

- Dimensions:
  - Steel tabletop is 40-inch wide x 40-inch deep
  - Table operating height is 32-inch
- Weights:
  - Steel tabletop is 230 lbs.
  - Complete system (including tabletop) is approximately 480 lbs
- Operation:
  - Optimum air pressure: 25 - 60 psi
  - Input air pressure: min 20 psi (approx.) - max 80 psi
  - Max weight capacity 1,150 lbs. (@ 80 psi)
  - Optimum load on the tabletop is 200 to 800 lbs. (Since the pressure is directly related to the mass sitting on the tabletop, the operating pressure determines this range)
  - Vibration isolation: typical performance better than 0db at 6 Hz, with -6 dB per octave roll-off to 48 Hz and >-18 dB attenuation above 48 Hz (with a Summit 12K series probe station or equivalent load)

### Compatibility

- Summit, M150, BTS

## 142-033 — Vibration Isolation Table, DELUX Package for 200 mm Stations

### Features

- Heavy duty frame and steel tabletop.
- Integrated rolling casters.
- Seismic restraint kit.
- Storage shelf below tabletop.
- Ergonomic front support bar.
- Optional side instrument shelves and accessories available.
- Computer accessory mounting kit for keyboard, mouse, joystick.
- Multi-directional LCD monitor support arm (VESA).
- Enclosed system (side walls and front access door).



### Specifications

- Dimensions:
  - Steel tabletop is 40-inch wide x 40-inch deep
  - Table operating height is 32-inch
- Weights:
  - Steel tabletop is 230 lbs.
  - Complete system (including tabletop) is approximately 480 lbs
- Operation:
  - Optimum air pressure: 25 - 60 psi
  - Input air pressure: min 20 psi (approx.) - max 80 psi
  - Max weight capacity 1,150 lbs. (@ 80 psi)
  - Optimum load on the tabletop is 200 to 800 lbs. (Since the pressure is directly related to the mass sitting on the tabletop, the operating pressure determines this range)
  - Vibration isolation: typical performance better than 0 db at 6 Hz, with -6 dB per octave roll-off to 48 Hz and >-18 dB attenuation above 48 Hz (with a Summit 12K series probe station or equivalent load)

### Compatibility

- Summit

## 143-567 — Side Instrument Shelf for Table

### Features

- Universal design can mount on left or right side of table.
- Heavy duty design can hold multiple instruments.
- Easy mounting enables quick reconfiguration.



### Specifications

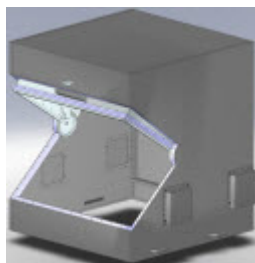
- Dimensions:
  - Side shelf is 21-inch (W) x 40-inch (D), and is positioned with a 1-inch space between the side shelf and main steel tabletop.
  - With 2 side shelves installed (left and right), the overall width of the table is 86-inch

## Shield Enclosures/Dark Boxes

### 111650 — ShieldEnclosure, SE1200 EMC

#### Features

- For standard probe systems PM300 and PA300 (others on request).
- Light-tight, electrically grounded and optimized design for EMC shielding.
- Vizion opening.
- Requires additional feed-throughs and table adaptation.
- Requires EMO option in combination with (semiautomatic) PA300.
- Inside light and interlock switch optionally.



#### Specifications

Required floor space:

- Width = 1.5 m
- Depth = 1.3 m
- Height (with table): 2.1 m

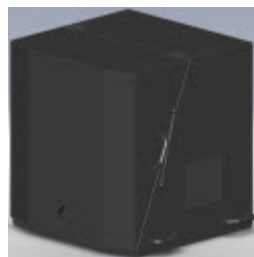
#### Compatibility

- PA300, PM300

### 130359 — ShieldEnclosure SE750/EMC

#### Features

- Suitable for EP6 and PM5 (without laser cutter).
- Light tight and electromagnetically shielding.
- Stable table required as base.
- Vibration isolation VIP600 optionally available.



#### Specifications

- Dimensions WxDxH: 750 mm x 750 mm x 820 mm, height (door opened): 1620 mm
- Requires max. 2 light-tight feedthroughs

#### Compatibility

- PM5, EP6

### 138121 — ShieldEnclosure, SE1000 EMC with Interlock and Illumination

#### Features

- For standard probe systems PM5 (with laser cutter), PM8 and PA200 (others on request).
- Light-tight, electrically grounded and optimized design for EMC shielding.
- With lamps inside and interlock switch at front door.
- Requires additional feed-throughs and table adaptation.
- Requires EMO option in combination with (semiautomatic) PA200.



#### Specifications

Required floor space:

- Width = 1.3m
- Depth (with front lid opened) = 2m
- Height (with table and front lid opened): 2.5m
- Requires adaptation to VIT70x (PN 138390)
- Requires VIT700 (PN 138815) or VIT701 (PN 135100) for BlueRay
- Requires adaptation SE1000EMC to VIT801 (PN 119585)
- Requires vibration isolation table VIT801 (PN 115405)

Options:

- 100689 EMC light-tight feed-through
- 112392 EMC test equipment interface, standard
- 112391 EMC test equipment interface, Kelvin
- 129850 Emergency OFF for shield enclosure

#### Compatibility

- PA200, PA200 BlueRay, PM8, PM5, EP6

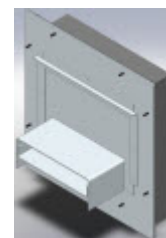
### 100689 — EMC Light-Tight Feedthrough

#### Features

- For SE750EMC, SE1000EMC and SE1200EMC.
- Electromagnetically shielded.
- For probe station, thermal chuck and video wiring.

#### Compatibility

- Shield Enclosures



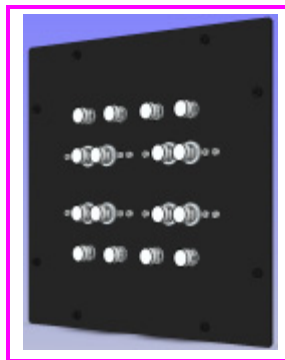
## 112391 — EMC Test Equipment Interface, Kelvin

### *Features*

- For test equipment adaptation (e.g. HP4142/4156B)
- 4 triax-triax-dual (Kelvin) and 8 coax-coax feedthroughs

### *Compatibility*

- Shield Enclosures





## 112392 — EMC Test Equipment Interface, Standard

### Features

- For test equipment adaptation
- Includes 8 triax-triax and 8 coax-coax feedthroughs



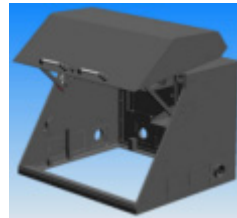
### Compatibility

- Shield Enclosures

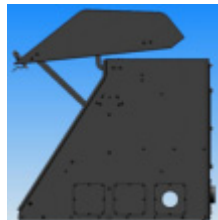
## 141-588 — Dark Box, Elite 300

### Features

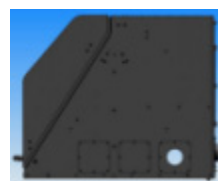
- Provides dark, EMI shielded environment probing
- Vertical lift front door, with multiple height open detents
- Large open access to Elite 300 station platen/test area with vertical door open
- Locking front door handle with keyed lock for security
- Accommodates laser/video camera microscopes
- Internal low voltage LED lighting with automatic on/off switching
- Integrated adjustable shelving
- Lift handles for easy installation and removal
- Removable large covers for maximum rear access to station accessories
- Multiple rear and side cable connection access panels, with dark sleeve for large cable, probe card cable bundles
- Removable blank access panels that allow custom triax/coax feedthroughs
- BNC safety interlock switch for use with instrument or LASER
- 100-240V 50/60Hz compatible



Door lifts vertically and folds back out of the way for maximum head clearance



Side view with front door in open position



Side view with front door in closed position

### Specifications

- Dark box dimensions: width 126 cm (49.5-inch) x depth 110 cm (43.5-inch) x height with door closed 91 cm (36-inch)/ height with door open 118 cm (46.5-inch)
- Rear shelves: width 50 cm (20-inch) x depth 25 cm (10-inch), adjustment height: 43 cm (17-inch)
- Large rear access cover: 18 x 18-inch
- Access ports for cable connections: 7 x 7-inch
- Door lift force: Opening door 5.5 kgs (12 lbs), Closing door 6.8 kgs (15 lbs)

- Door open: 3 detent positions, in addition to full up and down
- Automatic light On/Off switching with door open/close, and manual override
- 12VDC low power high intensity LED lights
- AC/DC powers supply (100-220V, 50/60Hz) CE mark

### Kit Contents

- Dark box
- Seismic restraint attachment to frame
- Locking twist handle with keyed lock (2 keys provided)
- 2 internal ceiling mounted low power lights
- 2 adjustable rear shelves
- 2 side mounting locations for ergonomic arm rest kit (not included)
- Extension bracket kit for mounting Elite 300 LCD monitor and Computer Accessory Kit (keyboard, joystick, mouse) outside dark box
- 2 rear mounting locations for ergonomic LCD monitor arm (not included)
- 2 BNC safety interlocks
- 2 large removable rear access covers
- 4 access panels on rear, with 2 blank covers, and 2 panels with large cable bundle hole and dark flexible sleeve
- 3 access panels (one on each side), with 2 blank covers, and 1 panels with large cable bundle hole and dark flexible sleeve
- 4 lift handles and mounting hardware



Front view showing lights and rear shelves



Rear view showing removable panels

### Compatibility

- Elite 300

## Mounting Accessories

### 138600 - Single Monitor Arm

#### Features

- Single arm for a flat panel display (up to 24 in.)
- Compact design frees up space
- Lift: 33 cm
- Tilt/Pan: 80/180 degrees, rotation: 90 degrees

#### Compatibility

- PA300, PA300PS-MA, VIT801



### 148858 - Single Monitor Arm

#### Features

- Two single arms for flat panel displays (up to 24 in.)
- Compact design frees up space, monitor position beside and above each other possible
- Lift: 33 cm
- Tilt/Pan: 80/180 degrees, rotation: 90 degrees
- Dual DVI-card for control PC included

#### Compatibility

- PA300, PA300PS-MA, VIT801



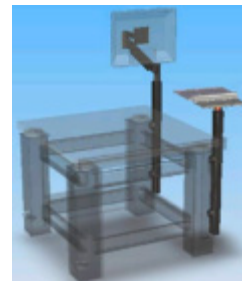
### 142-026 — LCD, Keyboard, Joystick and Mouse Mounting Kit for Vibration Isolation Table

#### Features

- Ergonomic platform for computer keyboard, mouse, joystick
- LCD monitor support (VESA) with articulated arm for free floating placement
- Universal design can mount on left or right side of table
- Easy mounting allows for quick reconfiguration

#### Specifications

- Supports LCD monitor with VESA mount (weight range 12-29 lbs)
- Monitor arm has 16-inch height range, and tilt/swivel adjustment.
- VESA mounting plates (70/100 mm)
- Accessory mounting posts (2) are height adjustable



### 138846 — Control Console

#### Features

- For mouse, joystick control panel and compact size keyboard
- Compatible with VIT801, PA300, and MicroAlign systems
- Can be installed on front left or right side

#### Compatibility

- PA300, PA200, VIT801





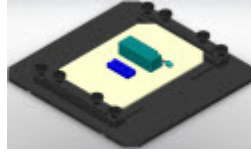
## Miscellaneous Accessories

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### 100422 — Textool Socket Adapter

#### Features

- For holding of PC boards with 50-130 mm width
- Adapter is vacuum clamped onto chuck



#### Compatibility

- Vacuum chucks

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### 100539 — Vacuum Switches for HF Chuck

#### Features

- Block with two vacuum switches for HF chucks
- Controls vacuum for calibration substrates and burnishing pads



#### Specifications

- Contained in HF Kit for PA200, PM8 III, PA300 and PM300

#### Compatibility

- PA300, PM300, PA200, PM8

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### 100605 — Inker, DPP2xx/DPP3xx

#### Features

- Fits positioners DPP2xx-S, DPP3xx-S.
- Can be used in combination with probe cards.
- Can be used with software inker output, or a driver unit when used with manual systems.
- Includes cartridge holder.



#### Compatibility

- DPP2xx-S, DPP3xx-S

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### 140348 — Air Drying Unit

#### Features

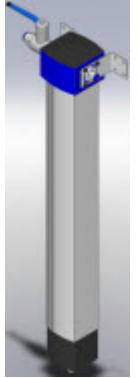
- Air dryer and nano filter
- No electric power required

#### Specifications

- Minimum input pressure 7 bar (102 psi), oil-free, condensate-free and particle-free (<1 μm) pressurized air
- Maximum dew point temperature of pressurized air at input: 0°C (32°F)
- Flow rate at input: 560 l/min (20 cfm)
- Flow rate at output: 450 l/min (16 cfm)

#### Compatibility

- All MicroAlign stations



## 145530 — Inker Cartridge, Markem 6990

### Features

- Markem ink type 6990, color: black
- Alcohol soluble, relatively thin, flows very consistently, requires heat curing
- After opening, the cartridge can be used for about 5 days

### Specifications

- Shelf life: 4 months
- Pack of 10
- Order requires one of the following configurations to be specified:
  - DM-1 5,8,10,15,20,25,30 mil
  - DM-1.25 10,15,20,25 mil
  - DM-S 10,15 mil

## 161-096 — Analogue Separation Drive Display for MPS150 Universal Platen

### Features

- Displays positioner platen z-height
- For use with MPS150/EPS150 universal platen
- Enables exact overtravel adjustment

### Specification

- 10  $\mu\text{m}$  division marks
- 1 turn = 1mm
- Adjustable 0 position

### Compatibility

- MPS150 / EPS150 (universal platen)



## 164-486 — Analogue Separation Drive Display for MPS150 MMWPlaten

### Features

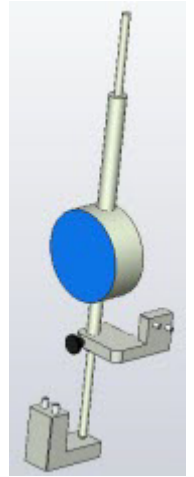
- Displays positioner platen z-height
- For use with MPS150 MMW platen
- Enables exact overtravel adjustment

### Specification

- 10  $\mu\text{m}$  division marks
- 1 turn = 1mm
- Adjustable 0 position

### Compatibility

- MPS150 (MMW platen)



## M150-ACC-13 — Vacuum Manifold, Magnetic Base

### Features

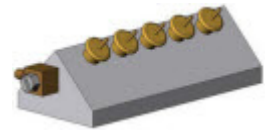
- 5 port vacuum manifold
- Magnet base mounts at the most convenient location (e.g., on platen)
- For use with vacuum based positioners or other vacuum based accessories
- Easy push-pull on/off controls

### Specifications

- Input connection: 1/8-inch ID push on connector
- Output connections: 1/16-inch ID

### Compatibility

- Elite 300, Summit, Tesla, M150, Alessi



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## M150-ACC-16 — Magnetic Cable Clamp Kit

### Features

- Magnetic base cable clamp
- Enables easy cable routing
- Helps to minimize cable vibration that can affect measurements
- Groove in base holds cable securely



### Kit Contents

- Each kit includes the necessary hardware for one cable
- Maximum cable diameter = 1/8-inch
- Must be used with steel base

### Compatibility

Elite 300, Summit, Tesla, M150, Alessi, BTS\*

### Package Compatibility

- BTS 1000 — YES
- BTS 2000 — YES
- BTS-VERT — YES

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## M150-ACC-18 — Pin to Banana Interface Kit

### Features

- Six port pin jack to banana jack interface with magnetic base
- Used with unshielded probes (e.g. MMP-01 or 139-332) to convert to a banana style output
- Magnet base enables convenient placement based on your positioner locations



### Kit Contents

- One 6 port interface

### Compatibility

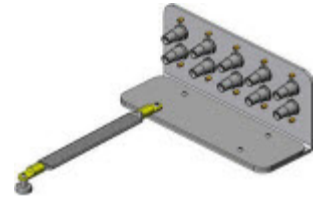
- Elite 300, Summit, Tesla, M150, Alessi

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## M150-ACC-19 — Triax Panel, Magnetic Base

### Features

- Triaxial connection panel for convenient cable management
- Magnet base enables convenient placement based on your positioner location
- 10 triaxial (3-lug) feed through connectors (female)
- Panel connections support single triax cables and Keysight dual triax SMU cable assemblies. For Keysight Quadrax SMU connections, please contact the factory.



### Kit Contents

- Magnet base connection panel
- Ground strap

### Compatibility

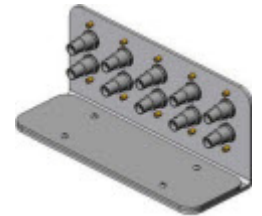
- Elite 300, Summit, Tesla, M150, Alessi

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## M150-ACC-28 — Coax Panel, Magnetic Base

### Features

- Coaxial connection panel for convenient cable management
- Magnet base allows for convenient placement based on your positioner location
- 10 Coaxial feed through connectors (female)



### Kit Contents

- Magnet base connection panel
- Ground strap

### Compatibility

- Elite 300, Summit, Tesla, M150, Alessi

# Manual Stations

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## PM8

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### 100507 — Supply Kit for Vacuum Adapter

#### *Features*

- For vacuum clamping of positioners on magnetic or HF platen.

#### *Compatibility*

- PM8

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### 69101 — ATT Auxiliary Chuck 150/200 mm

#### *Features*

- Additional chuck for one calibration substrate and/or burnishing pad, for 150mm or 200mm ATT thermal chuck
- Up to two additional chucks can be mounted at front-left and front-right position
- Requires vacuum switches for HF chuck:
  - PN 142438 for PM5/MPS150
  - PN 100539 for PA200/PM8



#### *Compatibility:*

- PA200, PM8 with 200mm ATT thermal chuck
- PM5, MPS150 with 150mm ATT thermal chuck

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## PM300

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### 133270 — Additional Chuck for Two Substrates

#### *Features*

- Additional chuck for 2 calibration substrates and/or burnishing pads.

#### *Compatibility*

- PM300

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### 69102 ATT Auxiliary Chuck 300 mm

#### *Features*

- Additional chuck for two calibration substrates and/or burnishing pads, for 300 mm ATT thermal chuck
- Can be mounted at front-left position
- Requires vacuum switches for HF chuck (PN 100539)



#### *Compatibility:*

- PA300, PM300 with 300mm ATT thermal chuck

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## EP6

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### 142298 — Triaxial Option for EP6 DC

#### *Features*

- ShieldEnclosure SE750/EMC with triaxial feedthrough.
- 4 triaxial probe arms (replaces the coaxial probe arms in EP6 DC package).

#### *Compatibility*

- EP6 DC

# MEMS

## Pressure Probe Modules and Probes

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### 131731-QT — Pressure Probe Module (PPM) Probe

#### Features

- Nozzle matching to one device type
- Specified according to the membrane size



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### 133390 — Pressure Probe Module

#### Features

- For on-wafer-probing of pressure sensors using patented impact pressure principle
- Pressure range: 0.1-7.0 bar (relative)
- Working distance: 40  $\mu\text{m}$  (typical value, controlled by motorized Z-axis)
- Settling time: 0.5 seconds
- Requires:
  - Manual or semiautomatic probe station or third-party probe station/test fixture
  - CorePackage Control PC with network card



#### Specifications

- Repeatability:  $\pm 5\text{mbar}$  (for  $p \leq 500\text{mbar}$ ),  $< \pm 1\%$  (for  $p > 500\text{mbar}$ )
- Media: nitrogen or pressurized air, clean, oil/water free
- Supply pressure: 8-10 bar

#### Kit Contents

- Control unit with embedded controller and pressure regulation
- 3-axis positioner (manual XY stage, travel range 25 mm, motorized Z-axis, travel range 10 mm)
- Control software

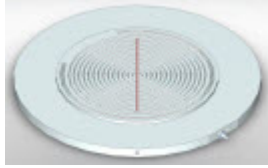
## Pressure Probe Module Differential Kits

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### 125471 — PPM Differential Kit, 100 mm

#### *Features*

- Chuck add-on for probing 100 mm wafers with differential pressure sensors
- Provides atmospheric pressure on the wafer backside
- Wafer fixing by vacuum trench on wafer edge (6 mm ring)



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### 126501 — PPM Differential Kit, 150 mm

#### *Features*

- Needed for probing 150 mm wafers with differential pressure sensors
- Provides atmospheric pressure on the wafer backside
- Wafer fixing by vacuum trench on wafer edge



# Microscopes

## Elite 300 Microscopes

(With Motorized Scope Transport, No Focus Block)

### 143-414 — A-Zoom2 10X Video Out, Manual Zoom and Eyepieces

#### Features

- A-Zoom2 10X series microscope
- 10:1 continuous zoom
- Eyepiece viewing
- Video output
- Coaxial illumination
- Kit is optimized for Elite 300 (no focus block needed)

#### Specifications

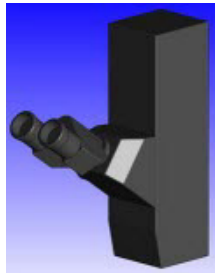
- 1.4-14X manual zoom
- Approx. 6.4 kg (14 lb)
- Approx. 14.25-inch tall x 4-inch wide x 4.38-inch deep

#### Kit Contents

- Microscope body
- Eyepieces: 10X wide field
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

#### Compatibility

- Elite 300/AP, Elite 300/M



### 143-415 — A-Zoom2 40X Video Out, Digital Zoom, Eyepieces, Remote Focus, Laser Ready

#### Features

- A-Zoom2 40X series microscope
- 40:1 digital zoom
- Laser compatible
- Eyepiece viewing
- Video output
- Coaxial illumination
- Kit is optimized for Elite 300 (no focus block needed)

#### Specifications

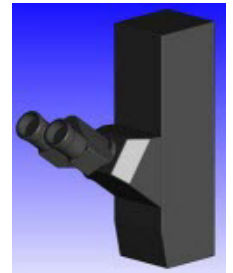
- 0.75-30X digital zoom
- Compatible with 355-1064nm laser cutter systems
- Approx. 6.4 kg (14 lb)
- Approx. 14.25-inch tall x 4-inch wide x 4.38-inch deep

#### Kit Contents

- Microscope body
- Wired remote control unit
- Eyepieces: 10X wide field
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

#### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.



## 143-416 — Seiwa Microscope with Accessory Kit

### Features

- Seiwa PS-888 Series Super Scope
- Cost effective and robust optical design
- High resolution at high magnification
- Eyepiece viewing with camera port for optional camera
- Coaxial illumination
- Kit is optimized for Elite 300 microscope transport systems (no focus block needed)



### Specifications

- Zoom 1X wavelength range 486-656nm
- Zoom 2X wavelength range 486-656nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- Fiber optic Illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/AP, Elite 300/M

## 143-417 — Seiwa Microscope for IR Lasers with Accessory Kit

### Features

- Seiwa PS-888L Series Super Scope for 355-1064nm laser cutters
- Cost effective and robust optical design
- High resolution at high magnification
- Eye piece viewing
- Selectable wavelength ranges through tube lens turret
- Coaxial illumination
- Kit is optimized for Elite 300 microscope transport systems (no focus block needed)



### Specifications

- Zoom 1X wavelength range 355-532nm
- Zoom 1X wavelength range 532-1064nm
- Zoom 2X wavelength range 486-656nm (laser cannot be used in this position)
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

### Compatibility

- Elite 300/AP, Elite 300/M



## 144-287 — Seiwa Microscope, Tilt Head, with Accessory Kit

### Features

- Seiwa PS-888 Series Super Scope
- Cost effective and robust optical design
- High resolution at high magnification
- Ergonomic eyepiece viewing with up/down tilt
- Camera port for optional camera
- Coaxial illumination
- Kit is optimized for Elite 300 microscope transport systems (no focus block needed)



### Specifications

- Zoom 1X wavelength range 486-656nm
- Zoom 2X wavelength range 486-656nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/AP, Elite 300/M

## 151-521 — eVue-III Digital Imaging System, 10X, Remote Focus

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit is optimized for Elite 300 (no focus block needed)



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-10X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 camera)
- Sub-micron programmable remote focus stage
- Integrated LED illumination system
- USB remote control box
- Elite 300 microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-531 — eVue-III Digital Imaging System, 10X Remote Focus, Pro Pkg

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit is optimized for Elite 300 (no focus block needed)



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2 $\mu$ m remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- Elite 300 microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-541 — eVue-III Digital Imaging System, 40X Remote Focus

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit is optimized for Elite 300 (no focus block needed)



### Specifications

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu$ m remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 20X standard zoom range (3 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- Elite 300 microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

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## 151-551 — eVue-III Digital Imaging System, 40X Remote Focus, Pro Pkg

### *Features*

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit is optimized for Elite 300 (no focus block needed)



### *Specifications*

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### *Kit Contents*

- Multi-CCD microscope/imager
- 20X standard zoom range (3 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- Elite 300 microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### *Compatibility*

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## Standard Microscopes with Focus Blocks

### 120-987 — A-Zoom2 (10X) Microscope, Video Out, Manual Zoom and Eyepieces

#### Features

- A-Zoom2 10X series microscope
- 10:1 continuous zoom
- Eyepiece viewing
- Video output
- Coaxial illumination

#### Specifications

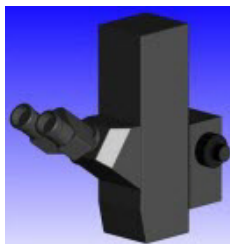
- 1.4-14X manual zoom
- 2-inch focus range
- Approx. 6.4 kg (14 lb)
- Approx. 14.25-inch tall x 4-inch wide x 4.38-inch deep

#### Kit Contents

- Microscope body
- Eyepieces: 10X wide field
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

#### Compatibility

- Elite 300/S, Summit, S300, Alessi



### 122-009 — A-Zoom2 40X Video Out, Dig Zm, PC Ctrl/SW, Eyepcs, Remote Focus, Laser Ready

#### Features

- A-Zoom2 40X series microscope
- 40:1 digital zoom
- Laser compatible
- Eyepiece viewing
- Video output
- Coaxial illumination
- Kit is optimized for Elite 300 (no focus block needed)

#### Specifications

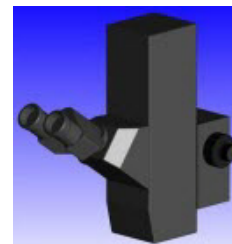
- 0.75-30X digital zoom
- Compatible with 355-1064nm laser cutter systems
- Approx. 6.4 kg (14 lb)
- Approx. 14.25-inch tall x 4-inch wide x 4.38-inch deep

#### Kit Contents

- Microscope body
- Wired remote control unit
- Eyepieces: 10X wide field
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

#### Compatibility

- Elite 300/S, Summit, S300, Alessi



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### 131-780 — Leica S8 Stereo Zoom Microscope Kit, 1.0 - 8.0 X Zoom, Video-Ready

#### Features

- Wide field of view for probing larger features
- Excellent resolution for low power microscopy
- Continuously variable zoom
- Video ready optical port
- Long life LED ring light
- High value choice for many probing needs



#### Specifications

- 8:1 zoom
- 600 line pairs/mm resolution
- Apochromatic optical design
- 75 mm working distance
- Variable illuminator output with auxiliary control

#### Kit Contents

- Leica S8 APO StereoZoom microscope, with 1.0 to 8.0 zoom
- 20X eyepieces (pair)
- Mounting arm with focus control
- Video adapter 0.63X
- Long working distance solid state LED ring illuminator
- Illumination control box and cables
- Universal power supply (100-240VAC, 50/60Hz)

#### Compatibility

- Summit, M150, Alessi
- T200 High Voltage testing.

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### 131-785 — Leica S6 Stereo Zoom Microscope Kit, 0.63 - 4.0 X Zoom

#### Features

- Wide field of view for probing larger features
- Good resolution for low power microscopy
- Continuously variable zoom
- Long life LED ring light
- Economical choice for many probing needs



#### Specifications

- 0.63X to 4.0X zoom
- 432 line pairs/mm resolution
- 110 mm working distance (without optional objective installed)
- Variable illuminator output with auxiliary control

#### Kit Contents

- Leica S6 E StereoZoom microscope
- 30X eyepieces (pair)

- Mounting arm
- Long working distance solid state LED ring illuminator
- Illumination control box and cables
- Universal power supply (100-240VAC, 50/60Hz)

#### Compatibility

- Summit, M150, Alessi

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### 131-954 — eVue Digital Imaging System, Intelligent Objective Lens Mount

#### Features

- Designed to mount M Plan objectives
- Standardized interface for eVue digital Imaging System
- Programmability enables recording of objective specific information
- Facilitates rapid changeover between objectives with automatic configuration (once programmed)



#### Specifications

- Records and configures the following:
  - Magnification
  - NA – numerical aperture
  - Pixel geometry correction factors
  - Brand
  - Serial Number

#### Compatibility

- Elite 300, Summit, Tesla\*, M150, Alessi
- \*Objectives with >10x magnification may not be compatible with 132-770 — Leica S8 APO StereoZm Microscope Kit, Wide FOV, MTS Stations, Video Ready

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### 131-964 — eVue-III Digital Image System, Pro Package Upgrade

#### Features

- High Performance Pro Package upgrade for eVue digital Imaging Systems
- Valid for basic 10X and 40X systems



#### Specifications

- Multi-Z (optical Z-contact system, autofocus)
- Multi-Cam (wafer-probe navigation, picture-in picture)
- Multi-View (hi-res video, probe card alignment, multi-needle views)

#### Kit Contents

- Pricing includes on-site installation

#### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 132-770 — Leica S8 APO StereoZm Microscope Kit, Wide FOV, MTS Stations, Video Ready

### Features

- Wide field of view for probing larger features
- Excellent resolution for low power microscopy
- Continuously variable zoom
- Video ready optical port
- Long life LED ring light
- High value choice for many probing needs



### Specifications

- 8:1 zoom
- 600 line pairs/mm resolution
- Apochromatic optical design
- 100 mm working distance with 0.63X objective installed
- 75 mm working distance without 0.63X objective installed
- Variable illuminator output with auxiliary control

### Kit Contents

- Leica S8 APO StereoZoom microscope, with 1.0 to 8.0 zoom
- 10X eyepieces (pair)
- Wide FOV objective (0.63X)
- Mounting arm with focus control
- Video adapter 1.0X
- Long working distance solid state LED ring illuminator
- Illumination control box and cables
- Universal power supply (100-240VAC, 50/60Hz)

### Compatibility

- MTS

## 144-286 — Seiwa Microscope, Tilt Head, with Accessory Kit

### Features

- Seiwa PS-888 Series Super Scope
- Cost effective and robust optical design
- High resolution at high magnification
- Ergonomic eyepiece viewing with up/down tilt
- Camera port for optional camera
- Coaxial illumination



### Specifications

- Zoom 1X wavelength range 486-656nm
- Zoom 2X wavelength range 486-656nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/S, Summit, Tesla\*, M150, S300, Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-522 — eVue-III Digital Imaging System, 10X Remote Focus

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-10X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-523 — eVue-III Digital Imaging System, 10X Remote Focus for Manual Stations

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit includes a certified controller, software and LCD display



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-10X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 camera)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- High performance computer
- 20-inch LCD monitor

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.



## 151-532 — eVue-III Digital Imaging System, 10X Remote Focus, Pro Package

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-10X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 CCD)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-533 — eVue-III Digital Imaging System, 10X Remote Focus Pro Pkg for Manual Stations

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit includes a certified controller, software and LCD display



### Specifications

- 2 optical path/2 camera system with high resolution image sensors
- 0.5-10X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 10X standard zoom range (2 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- High performance computer
- 20-inch LCD monitor

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.



## 151-542 — eVue-III Digital Imaging System, 40X Remote Focus

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism



### Specifications

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 20X standard zoom range (3 camera)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-543 — eVue-III Digital Imaging System, 40X Remote Focus for Manual Stations

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit includes a certified controller, software and LCD display



### Specifications

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 20X standard zoom range (3 camera)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- High performance computer
- 20-inch LCD monitor

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-552 — eVue-III Digital Imaging System, 40X Remote Focus Pro Package

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism



### Specifications

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 20X standard zoom range (3 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- Probe station software integration module

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## 151-553 — eVue-III Dig Imaging System, 40X Remote Focus Pro Package for Manual Stations

### Features

- Optimized for on-wafer test with Cascade Microtech's probe stations
- Revolutionary multi-optical path, multi-cam design
- Perfect balance of optical resolution, digital zoom and live motion video
- Advanced probe station software radically eases wafer navigation, speeds test set up and increases probe contact accuracy
- Integrated long life LED illuminator
- Integrated, remote and auto focus mechanism
- Kit includes a certified controller, software and LCD display



### Specifications

- 3 optical path/3 camera system with high resolution image sensors
- 0.5-20X zoom range
- 0.1X zoom resolution
- 2 mm remote focus range
- 0.2  $\mu\text{m}$  remote focus resolution
- 45.5 frame per second live standard video frame rate (color and monochrome)
- 13.1 frame per second high resolution live video frame rate (color and monochrome)
- White LED illumination system (solid state, long life)
- AGC illumination leveling, auto-exposure mode

### Kit Contents

- Multi-CCD microscope/imager
- 20X standard zoom range (3 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- 2-inch heavy duty manual focus block
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software
- High performance computer
- 20-inch LCD monitor

### Compatibility

- Elite 300, Summit, Tesla\*, Alessi R61
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

**VMS-70L — Mitutoyo Finescope FS-70 for IR Lasers, Obj., 10X Eyepcs, Fiber Optic Illuminator**

**Features**

- Mitutoyo Finescope FS70L series
- 1X magnification
- Selectable eye piece or laser port viewing
- Coaxial illumination



**Specifications**

- 1X magnification
- For 355-1064nm laser cutters
- Brightfield Kohler illumination with field and aperture stop
- Approx. 6.4 kg (14.1 lb)
- Approx. 360 mm tall x 229 mm wide x 324 mm deep

**Kit Contents**

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

**Compatibility**

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

**VMS-70LP — Mitutoyo Finescope FS-70 for IR Lasers, Obj., 10X Eyepcs, Fiber Optic Illuminator**

**Features**

- Mitutoyo Finescope FS70L series
- 1X magnification
- Selectable eye piece or laser port viewing
- Coaxial illumination



**Specifications**

- 1X magnification
- For 355-1064nm laser cutters
- Brightfield Kohler illumination with field and aperture stop
- Approx. 6.4 kg (14.1 lb)
- Approx. 360 mm tall x 229 mm wide x 324 mm deep

**Kit Contents**

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 2-inch Heavy duty programmable focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

**Compatibility**

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## VMS-70Z — Mitutoyo Finescope FS-70, Objectives, 10X Eyepcs, Fiber Optic Illuminator

### Features

- Mitutoyo Finescope FS70Z series
- 2:1 continuous zoom
- Eyepiece viewing
- Camera port
- Coaxial illumination



### Specifications

- 1X-2X magnification
- Brightfield Kohler illumination with field and aperture stop
- Approx. 6.6 kg (14.5 lb)
- Approx. 360 mm tall x 229 mm wide x 324 mm deep

### Kit Contents

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## VMS-70ZP — Mitutoyo Finescope FS-70, Objectives, 10X Eyepieces, Fiber Optic Illuminator

### Features

- Mitutoyo Finescope FS70Z series
- 2:1 continuous zoom
- Eyepiece viewing
- Camera port
- Coaxial illumination



### Specifications

- 1X-2X magnification
- Brightfield Kohler illumination with field and aperture stop
- Approx. 6.6 kg (14.5 lb)
- Approx. 360 mm tall x 229 mm wide x 324 mm deep

### Kit Contents

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## VMS-888L — Seiwa Microscope for IR Lasers with Manual Focus and Accessory Kit

### Features

- Seiwa PS-888L Series Super Scope for 355-1064nm laser cutters
- Cost effective and robust optical design
- High resolution at high magnification
- Eye piece viewing
- Selectable wavelength ranges through tube lens turret
- Coaxial illumination



### Specifications

- Zoom 1X wavelength range 355-532nm
- Zoom 1X wavelength range 532-1064nm
- Zoom 2X wavelength range 486-656nm (laser cannot be used on in this position)
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## VMS-888LP — Seiwa Microscope for IR Lasers with Programmable Focus and Accessory Kit

### Features

- Seiwa PS-888L Series Super Scope for 355-1064nm laser cutters
- Cost effective and robust optical design
- High resolution at high magnification
- Eye piece viewing
- Selectable wavelength ranges through tube lens turret
- Coaxial illumination
- Programmable focus (requires video camera to operate, sold separately)



### Specifications

- Zoom 1X wavelength range 355-532nm
- Zoom 1X wavelength range 532-1064nm
- Zoom 2X wavelength range 486-656nm (laser cannot be used on in this position)
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty programmable focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

## VMS-888 — Seiwa Microscope with Manual Focus and Accessory Kit

### Features

- Seiwa (Super Scope) microscope with accessory kit

### Features

- Seiwa PS-888 Series Super Scope
- Cost effective and robust optical design
- High resolution at high magnification
- Eyepiece viewing with port for optional camera
- Coaxial illumination

### Specifications

- Zoom 1X wavelength range 486-656nm
- Zoom 2X wavelength range 486-656nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty manual focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.



## VMS-888P — Seiwa Microscope with Programmable Focus and Accessory Kit

### Features

- Seiwa PS-888 Series Super Scope
- Cost effective and robust optical design
- High resolution at high magnification
- Eyepiece viewing with port for optional camera
- Coaxial illumination
- Programmable focus (requires video camera to operate, sold separately)

### Specifications

- Zoom 1X wavelength range 486-656nm
- Zoom 2X wavelength range 486-656nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Approx. 6.8 kg (15 lb)
- Approx. 460 mm tall x 192 mm wide x 360 mm deep

### Kit Contents

- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty programmable focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb, 150W
- 'C-mount' video adapter

### Compatibility

- Elite 300/S, Summit, M150, Tesla\*, S300. Alessi
- \*Objectives with >10x magnification may not be compatible with T200 High Voltage testing.

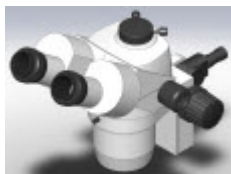


# Microscopes and Microscope Adapters

## 66529 — Motic Stereozoom Microscope, SMZ-168

### Features

- Light source for optical fiber with control unit (100-240V/50-60Hz)
- Ring light with 1m optical fiber
- 2x widefield eyepieces 20x/F.N23
- Trinocular - TV option possible
- Microscope fixation ring with manual focus drive



### Specifications

- Zoom Range 6.7:1
- Working distance 113 mm
- Magnification 0.75x - 5.0x
- Eyepiece magnification 15x - 100x
- FOV (diameter) 17.3 mm - 2.6 mm

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP

## 111486 — Microscope Adapter, A-Zoom and Motic PSM-1000/229

### Features

- For microscope movement ranges larger than XY 50x50 mm
- Must always be used with PA300, PM300 and IceShield PS200

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP



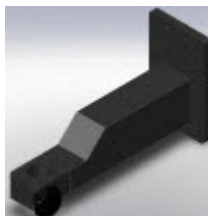
## 120103 — Microscope Adapter, Optem/229

### Features

- For microscope movement ranges larger than XY 50x50 mm

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP



## 120586 — Microscope Adapter, Mitutoyo FS70x-S/229

### Features

- For microscope movement ranges XY 50x50 mm and larger
- Only compatible with FS70 with original Mitutoyo focus rack 378-062
- Always use with PA300 and PM300

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP



## 132712 — Microscope Adapter, Optem

### Features

- Required when using an OPTEM Zoom 70 video microscope

### Compatibility

- PA200 BlueRay, PA200 DS BlueRay

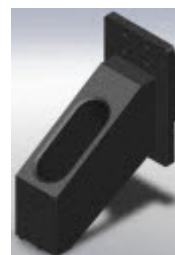
## 133915 — Microscope Adapter, Olympus SZ2-STP/229

### Features

- For adapter Olympus SZ2-STP

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP



## 141763 — Motic PSM-1000 Microscope

### Features

- Microscope body
- Trinocular photo tube
- 1x and 2x VIS body lens
- Objective revolver, rotary type (with 4 mounts)
- Coaxial LED light source
- Two eyepieces: 10x
- Objectives: 2x, 10x, 20x
- Optional polarizer/analyzer capability
- 50mm Focus Block
- Laser ready for 1064nm, 532nm and 355nm (exchangeable body lenses included)

### Compatibility

- Summit, EPS150, PA300, PM300, PA200, PM8, PM5, DSP, BEP



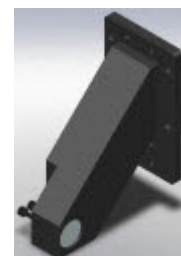
## 142730 — Microscope Adapter, Motic SMZ-168/229

### Features

- For microscope movement of 50 x 50 mm and 100 x 100 mm usable
- For adaptation of a Motic SMZ168 to a microscope movement

### Compatibility

- PA300, PM300, PA200, PM8, PM5, DSP, BEP





## 142811 — Stereo Zoom Microscope, SMZ168

### Features

- Mounts to BlueRay machine base with flexible industrial arm and horizontal ball bearing
- Light source for optical fiber with control unit (100-240V/50-60Hz)
- Ring light with 1m optical fiber
- Manual focus drive, eyepieces 20x
- Trinocular - TV option separately available

### Specifications

- Zoom Range: 6.7:1
- Working distance: 113 mm
- Magnification: 0.75x - 5.0x
- Eyepiece mag.: 15x - 100x
- FOV (diameter): 17.3 mm - 2.6 mm

### Compatibility

- PA200(A) BlueRay

### Ordering Information

- Part Number for TV port option: 66531



## 157-459—SlimVue Microscope

### Features

- Cascade unique slim scope design for minimum scope footprint
- Ergonomic design
- Especially recommended for mmW applications
- High resolution and robust optical design
- Easy operation
- Maintenance free adjustable coaxial LED illumination
- Focus block included
- Quick lens exchange mechanism
- Supports Mitutoyo MPlan Apo or compatible objective lenses (not included)

### Specifications

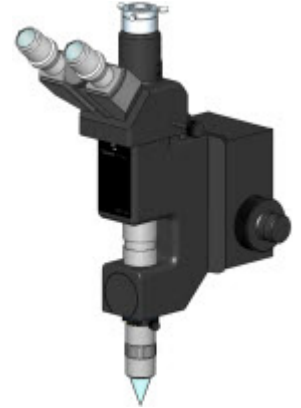
- Zoom ratio: 3.3x
- Zooming type: Manual rotation with detent
- 10x eyepiece magnification
- 100x-330x magnification with 10x objective lens
- Interpupillary Distance: 55mm~75mm
- Working Distance: Depends on used objective lens
- Image Formation: Erect Image
- Illumination: Built-in White LED
- Illumination type: Coaxial
- Compatible with Mitutoyo MPlan or similar objective lenses
- Trinocular photo tube with standard camera c-mount (switchable) for up to 1/2-inch CCD cameras
- Optical path change-over: Manual Type 100?0/0?100
- Focus unit range:  $\pm 25$ mm (4mm/100 $\mu$ m per turn of coarse/fine focus knob)
- Power adapter 100V-240V AC 1.6A with IEC 60320-1-C14 connector
- Approx 5.5kg

### Kit Contents

- SlimVue Microscope body
- 10x wide field eyepieces
- 50mm heavy duty manual focus block
- 2 objective adapters (no objective lens)
- Power supply and light control unit

### Compatibility

- MPS150, PM8, PM300, PA200, PA300, Summit 11/12K, Elite300





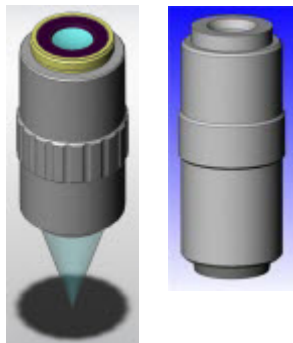
# Microscope Objectives/Eye Pieces

## Key to Terms

Mag = magnification	BF = bright field
WD = working distance	LWD = long working distance
N.A. = numerical aperture	SLWD = super-long working distance
f = focal length	Laser = laser cutting
R = resolving power	HR = high resolution
DOF = depth of field	NUV = near-ultraviolet
FOV = field of view	<sup>1</sup> using Ø = 24 mm eyepiece

## MITUTOYO OBJECTIVES

- Compatible with FS70, eVue, iVista, Seiwa, A-Zoom microscopes



Part #	Description	Application	Mag (x)	N.A.	WD (mm)	f (mm)	R (µm)	± DOF (µm)	FOV <sup>1</sup> (mm)	Mass (g)	λ Correction
102-516	M Plan Apo 2x	BF, LWD	2	0.055	34	100	5	91	12	220	436-656 nm
106-762	M Plan Apo 5x	BF, LWD	5	0.14	34	40	2	14	4.8	230	436-656 nm
102-517	M Plan Apo 10x	BF, LWD	10	0.28	34	20	1	3.5	2.4	240	436-656 nm
102-518	M Plan Apo 20x	BF, LWD	20	0.42	20	10	0.7	1.6	1.2	270	436-656 nm
VMA-60-50	M Plan Apo 50x	BF, LWD	50	0.55	13	4	0.5	0.9	0.48	290	436-656 nm
VMA-60-99	M Plan Apo 100x	BF, LWD	100	0.7	6	2	0.4	0.6	0.24	320	436-656 nm
VMA-60-96	M Plan Apo HR 100x	BF, LWD, HR	100	0.9	1.3	2	0.3	0.34	0.24	410	436-656 nm
17980	M Plan Apo SL20x	BF, SLWD	20	0.28	30.5	10	1	3.5	1.2	240	436-656 nm
102-293	M Plan Apo SL50x	BF, SLWD	50	0.42	20.5	4	0.7	1.6	0.48	280	436-656 nm
VMA-60-80	M Plan Apo SL80x	BF, SLWD	80	0.5	15	2.5	0.6	1.1	0.3	280	436-656 nm
VMA-60-98	M Plan Apo SL100x	BF, SLWD	100	0.55	13	2	0.5	0.9	0.24	290	436-656 nm
115-246	M Plan Apo SL200x	BF, SLWD	200	0.62	13	1	0.4	0.7	0.12	490	436-656 nm
VMA-60-52	M Plan Apo NIR 50x	BF, Laser	50	0.42	17	4	0.7	1.6	0.48	315	480-1800 nm
VMA-60-97	M Plan Apo NIR 100x	BF, Laser	100	0.5	12	2	0.6	1.1	0.24	335	480-1800 nm
VMA-60-54	M Plan Apo NUV 50x	BF, Laser, NUV	50	0.42	15	4	0.7	1.6	0.48	350	355-620 nm
VMA-60-95	M Plan Apo NUV 100x	BF, Laser, NUV	100	0.5	11	2	0.6	1.1	0.24	380	355-620 nm

## OPTEM OBJECTIVES

- M Plan apochromatic
- Compatible with A-Zoom2 microscopes;  
TopHat-compatible



Part #	Description	Application	Mag (x)	N.A.	WD (mm)	f (mm)	R (μm)	± DOF (μm)	FOV <sup>1</sup> (mm)	Mass (g)	λ Correction
120-875	High-Res 5x	BF, LWD	5	0.225	34	40	1.5	5.45	no spec	210	436-656 nm
120-873	High-Res 10x	BF, LWD	10	0.45	19	20	0.74	1.35	no spec	190	436-656 nm
132-509	High-Res 20x	BF, LWD	20	0.6	13	10	0.56	0.75	no spec	290	436-656 nm

## SEIWA OBJECTIVES

- M Plan apochromatic
- Compatible with A-Zoom2 microscopes;  
TopHat-compatible



Part #	Description	Application	Mag (x)	N.A.	WD (mm)	f (mm)	R (μm)	± DOF (μm)	FOV <sup>1</sup> (mm)	Mass (g)	λ Correction
126-255	M.Plan APO2.5x	BF, LWD	2.5	0.06	32.5	80	5.6	76.4	no spec	232	436-656 nm
126-256	M.Plan APO5x	BF, LWD	5	0.15	35.1	40	2.1	10.7	no spec	238	436-656 nm
126-257	M.Plan APO10x	BF, LWD	10	0.25	36.9	20	1.5	5.2	no spec	215	436-656 nm
126-258	M.Plan APO20x	BF, LWD	20	0.35	22.2	10	1	2.2	no spec	289	436-656 nm

## LEICA OBJECTIVES

131-788 — Leica 25 X Eye Pieces, High Performance, Extended Relief for Leica Microscopes

### Features

- Wide-field eyepieces compatible with eyeglasses

### Specifications

- 25X magnification



131-789 — 30x Eyepieces for Leica S6/S8 Microscopes

### Features

- Wide field eye-pieces

### Specifications

- 30X magnification

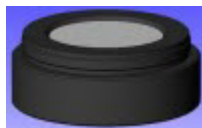


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## 132-109 — Leica 0.63 Auxiliary Lens for S8 Leica Microscope

### *Features*

- Objective for Leica S8 StereoZoom microscope
- Increases field of view
- Increases working distance



### *Specifications*

- 0.63X magnification
- 100 mm working distance
- Apochromatic optical design

## Microscope Accessories

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### 101-454 — Spare Bulb for Mitutoyo, A-Zoom, Video-Ready Olympus and Optem Illuminators

#### *Features*

- Replacement bulb for halogen illuminators

#### *Specifications*

- 120V
- 150W
- EKE bulb



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### 102-363 — Mitutoyo Video Adapter, 1.0X Magnification

#### *Features*

- Connect video camera to microscope for remote viewing

#### *Specifications*

- 1X magnification



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### 106-763 — A-Zoom Mitutoyo Objective Mount

#### *Features*

- Required for each objective used on A-Zoom microscopes
- Enables quick change over between objectives

#### *Specifications*

- Design to mount M Plan objectives
- Standard interface to A-Zoom microscopes



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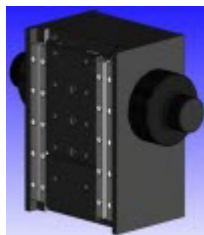
### 122-526 — A-Zoom Microscopes, Programmable 2-inch Heavy-Duty Focus Block

#### *Features*

- Programmable focus block
- High stability focus mount for microscopes without internal focus drive
- Custom mounting patterns for Mitutoyo, A-Zoom and Seiwa

#### *Specifications*

- 50 mm (2-inch) travel
- High load capacity suitable for microscopes configured with lasers



## Cameras and Video Packages

### 67120 — Moticam 2300 CMOS Camera

#### Features

- Compatible with CS-mount camera ports
- Compatible with C-mount camera ports (by using included CS mount adapter)
- Three (3) megapixel live resolution
- Software image enhancements include noise-reduction, live filtering, and settings memory
- Software included:
  - Motic Images Plus 2.0ML for Windows
  - Motic Images Plus 2.0 for Macintosh OSX
- Accessories included:
  - 16mm focusable lens
  - 28, 30, 34 & 35mm eyepiece couplers
  - B&S adapter to fit into microscope's eyetube
  - Macro tube
  - Calibration slide for accurate measurements CS mount adapter



#### Specifications

- Minimum specifications for Windows 2000 or XP
  - 256MB RAM
  - P4
  - Built-in USB2.0
- Minimum specifications for Macintosh
  - OS X or higher
  - 256MB RAM
  - G4
  - Built-in USB2.0
- Chip configuration: 1/2-inch live 3.0 megapixels imaging chip in portable casing
- Data output: USB2.0
- Power supply: through USB cable from computer

### EPS-ACC-HDTV — Digital TV package

#### Features

- Digital TV kit for C-mount microscopes with 720p resolution

#### Specifications

- Camera:
  - 1/3-inch color CCD digital camera (HDMI, 720p, 16:9), with C-mount
  - Wired remote control unit for camera setup (detachable)
  - HDMI cable
  - Power supply (100-220VAC 50/60HZ CE, UL)
- 22-inch TFT monitor:
  - TFT active matrix, 22-inch diagonal viewing area with 16:9 ratio
  - Max/native resolution: 1920 x1080
  - High brightness 250 cd/m & contrast ratio: 1.000.000:1 (DCR)
  - Wide viewing angle: 170/160 (H/V deg)
  - Video inputs: analog DB15, HDMI, 29-pin DVI-D
  - VESA mount and stand
  - Built-in power (100/240VAC 50/60Hz, UL/CE)
  - Crosshair overlay



#### Compatibility

- All EPS complete packages and C-mount video ready microscopes

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## EPS-ACC-TV — Analogue TV package

### *Features*

- Analogue TV kit for C-mount microscopes

### *Specifications*

- Camera:
  - 1/2-inch color CCD analogue camera (NTSC, 480 TV lines, 4:3) with C-mount
  - 15-foot combination cable (YC Svideo + Power)
  - Power supply (100-220VAC 50/60HZ CE, UL)
- 19-inch TFT monitor:
  - TFT active matrix, 19-inch diagonal viewing area with 4:3 ratio
  - Max/native resolution: 1280 x1024
  - High brightness 300 cd/m & contrast ratio: 700:1
  - Wide viewing angle: 150/130 (H/V deg)
  - Video inputs: analog DB15, S-video, CVBS jack, 29-pin DVI-D
  - VESA mount and stand
  - Built-in power (100/240VAC 50/60Hz, UL/TVU/CE)



### *Compatibility*

- All EPS complete packages and C-mount video ready microscopes





# Optical

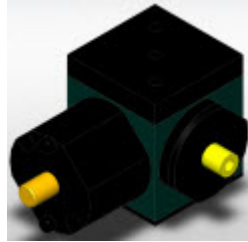
## Integrating Sphere and Mounts

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### 53541 — Integrating Sphere, Zenith

#### Features

- Diffuse, high reflective coating, recommended for UV-VIS-NIR wavelength
- Maximum Temperature 150°C
- Input port 1/4-inch (cutting edge-inch design)
- One detector port 1/4-inch with baffles and blind plug
- SMA connector fiber optic cable



#### Compatibility

- Required for 134826, 139086

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### 134826 — Integrating Sphere Mount, Mitutoyo FS70

#### Features

- Mounting of 1-inch Integrating Sphere into manual objective turret

#### Compatibility

- FS70



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### 139085 — Optical Fiber Mount, RPP305

#### Features

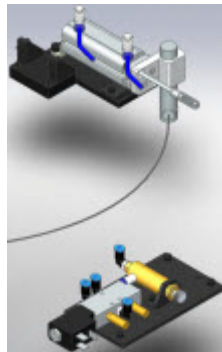
- Mounting for Instrument Systems EKT-fiber

#### Specifications

- Positioner arm with pneumatic cylinder, 40 mm stroke, for moving optical fiber out of microscope field of view

#### Compatibility

- PA200, PA200 BlueRay, PM8, PM5 + RPP305-S (and former PH250)



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### 139086 — Integrating Sphere Mount, RPP305

#### Features

- Positioner arm with pneumatic cylinder, 40 mm stroke, for moving sphere out of microscope field of view
- Mounting for Integrating Sphere 1-inch, OptoWhite/Zenith

#### Compatibility

- PA200, PA200 BlueRay, PM8, PM5 + RPP305-S (and former PH250)

# PA200

## PA200 BlueRay

### CHUCKS AND THERMAL CHUCK ADAPTERS

#### 53551 — ATT Chuck System, A200HS, +15°C to +150°C

##### Features

- RS232 Interface
- Air used for cooling
- Operated via the interfaces on the controller or through the probe station control software
- Complete system consists of chuck 200 mm, controller, cooling unit
- Requires additional thermal chuck adapter for BlueRay, with or without lift pins (138722 or 138723)



##### Specifications

- Temperature range: +15°C to +150°C
- Temperature resolution: 0.01°C

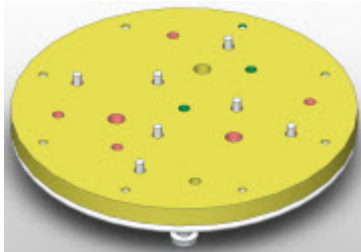
##### Compatibility

- PA200 BlueRay

#### 138722 — Thermal Chuck Adapter

##### Features

- Adapter for ATT chuck system A200HS+15
- Thermal and electrical insulation of chuck to machine



##### Compatibility

- PA200 BlueRay

#### 138723 — Thermal Chuck Adapter for Chuck with Lift Pins

##### Features

- Adapter for ATT chuck system A200HS+15
- Thermal and electrical insulation of chuck to machine
- With lift pins for loader application

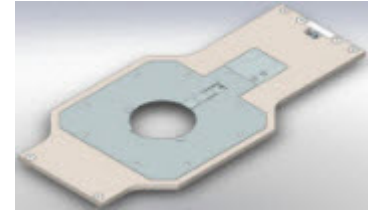
##### Compatibility

- PA200 BlueRay

#### 139873 — Double Side Chuck Plate

##### Features

- Top plate for double side chuck
- To be used on PA200 DS BlueRay
- For 3-inch wafer, held by clamping mechanism
- 1 mm circumferential support
- Front cutout for vacuum wand
- Other chucks on request



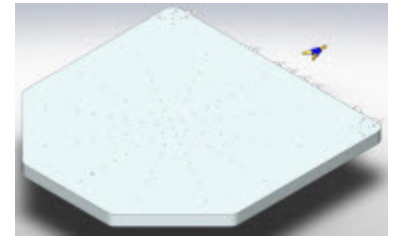
##### Compatibility

- PA200 DS BlueRay

#### 143820 — Chuck, 200 mm, HF, PA200A

##### Features

- Chuck insulated from machine
- Vacuum fixture for two calibration substrates or probe cleaning pads
- Vacuum zones for different-sized wafers 50 mm, 100 mm, 150 mm, 200 mm
- Single die vacuum location
- Material: stainless steel (others available on request)
- Flat surface with vacuum holes (0.8 mm Ø)



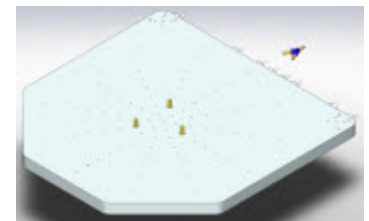
##### Compatibility

- PA200A BlueRay

#### 143821 — Chuck, 200 mm, HF, AP200

##### Features

- Chuck insulated from machine
- Vacuum fixture for two calibration substrates or probe cleaning pads
- Vacuum zones for different-sized wafers 50 mm, 100 mm, 150 mm, 200 mm
- Single die vacuum location
- Material: stainless steel (others available on request)
- Flat surface with vacuum holes (0.8 mm Ø)



##### Compatibility

- AP200 BlueRay

## MISCELLANEOUS ACCESSORIES

### 133371 — Operation Lamp 3 Colors

#### Features

- Colors: red, yellow, green
- Programmable through probe station control software
- Red light can be programmed static or blinking
- 800 mm pole (when combined with the Instrument Measurement Shelf 136687, the mounting pole is reduced to 400 mm).

#### Compatibility

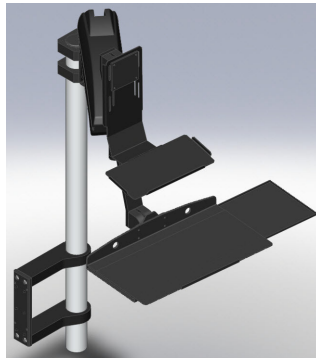
- PA200 BlueRay, PA200 DS BlueRay



### 133667 — Mount Arm for Monitor, Keyboard, Mouse, and Joystick

#### Features

- Mount arm for flat panel monitor, mouse and joystick or Expert Control Panel
- Includes compact computer keyboard (US English)
- With high quality pneumatic springs and two revolving joints
- Swing, tilt and rotate for optimum ergonomic positioning
- Dynamically adjustable to any working height
- Requires a machine table 700 or VIT701/800/801 for mounting



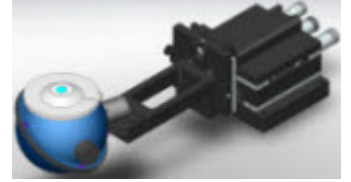
#### Compatibility

- PA200 BlueRay, PA200 DS BlueRay

### 135080 — Adaptation Integrating Sphere 4-inch Manual

#### Features

- Integrating sphere holder to be used in PA200 BlueRay DS
- Manual sphere adjustment
- Mount for integrating sphere 4-inch LabSphere (sphere not part of this item)
- Adaptation of other spheres on request
- Cannot be combined with automatic loader



#### Specifications

- Movement Range X/Y: 25 mm
- Movement Range Z: 10 mm

#### Compatibility

- PA200 BlueRay

### 136687 — Measuring Instrument Shelf for BlueRay

#### Features

- 2 planes for measurement equipment
- Cannot be combined with Shield Enclosures

#### Specifications

- 350 mm (W) x 380 mm (D) each
- Max. load 30 kg

#### Compatibility

- PA200 BlueRay, PA200 DS BlueRay



### 138390 — SE1000 to VIT700/701 Adapter

#### Features

- Connects the SE1000 to the 700 series probe station tables
- By using the VIT701, vibrations of the ShieldEnclosure are isolated from the probe station
- Not compatible with BlueRay loader module



#### Compatibility

- PA200 BlueRay, PA200 DS BlueRay

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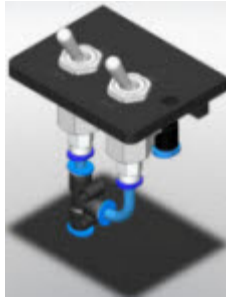
## 138651 — Pneumatic Switch Terminal

### *Features*

- Terminal to be mounted to BlueRay platen
- To be used for switching cal-site vacuum supply

### *Compatibility*

- PA200 BlueRay (not compatible with the BlueRay DS)

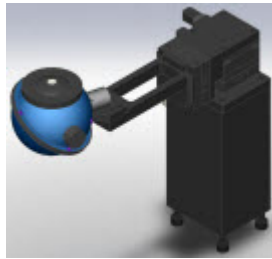


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## 139985 — Adaptation Integrating Sphere 4-inch Motorized

### *Features*

- Integrating sphere holder to be used in PA200 BlueRay DS
- Motorized/programmable sphere adjustment
- Mount for integrating sphere 4-inch LabSphere (sphere not part of this item)
- Adaptation of other spheres on request
- Can be combined with automatic loader



### *Specifications*

- Movement Range X/Y: 25 mm
- Movement Range Z: 25 mm

### *Compatibility*

- PA200 BlueRay

# PA300

## PA300PS-MA

### SIGMA KITS

#### 127312—Sigma for Keysight 42941A, HF

##### Features

- SIGMA Integration of the impedance probe Keysight 42941A into MicroAlign Advanced systems for capacitance measurements by IV method, including:
- On-wafer integration of Keysight 42941A close to the DUT to optimize measurement performance
- Optimized cable length reduces systematic measurement error
- Appropriate feed-through and ultra-short SMA cable for RF pad design
- Requires RPP305-S positioner with arm East/West/4PH or arm East/West/4PH/Mirrored plus |Z|Probe GS or SG and an instrument shelf for optimum instrument connection

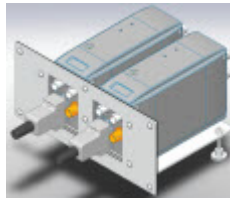
##### Compatibility

- CM300, PA300 MicroAlign

#### 131467—Sigma for Keysight E5288A ASU

##### Features

- SIGMA Integration of Keysight E5288A ATTO Sense and Switch Units (ASU) to MicroAlign Advanced systems, including:
- On-wafer integration of one or two ASUs close to the DUT to optimize measurement performance
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
- Providing automated I-V and C-V measurements
- Optimized cable length reduces cable capacitance
- For use with DPP2xx/DPP3xx positioners with Triax probe arm and probe arm for DCP probes



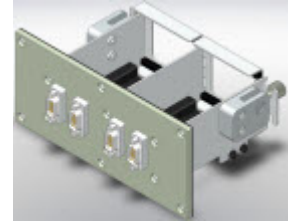
##### Compatibility

- CM300, PA300 MicroAlign

#### 138183—Sigma for PreAmp Keithley 4200/6430 (up to 4)

##### Features

- SIGMA Integration of up to 4 Keithley PreAmps for 4200 and 6430 into MicroAlign Advanced systems, includes:
- Optimal integration of up to 4 PreAmps on a single Test Equipment Interface placed close to the DUT
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
- High power cabling outside the MicroAlign (provided by Keithley) eliminates tribo-electric effects



##### Compatibility

- CM300, PA300 MicroAlign

#### 145265—Sigma for IV/CV

##### Features

- SIGMA Integration of Parameter Test Instruments for I-V and C-V measurements into the MicroAlign Advanced systems, includes:
- 2 panels with 4 triax-triax-dual connectors (Force & Sense), and 4 coax-triax connectors (type E1)
- Kelvin connectors (Force & Sense) fit to Keysight 4155/4156/4157, and any other single triaxial cable with 3-lug plug
- 4 coax cables with BNC plug for total cable length of 2 m for CV measurements
- CommonRing technology for shortest virtual ground close to the DUT
- For use with DPP2xx/DPP3xx positioners with Triax probe arm and probe arm for DCP probes



##### Compatibility

- CM300, PA300 MicroAlign

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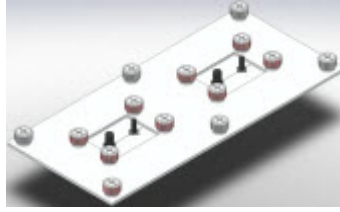
## TEST EQUIPMENT INTERFACES

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### 144987—Test Equipment Interface, Pico Probe (up to 2)

#### *Features*

- To connect up to 2 active pico probes to the MicroAlign Advanced
- Includes 1 panel with 2 feedthroughs with integrated cable strain relief



#### *Compatibility*

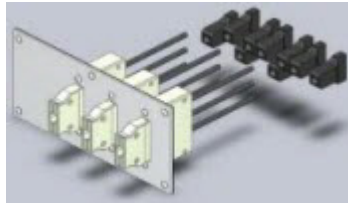
- CM300, PA300 MicroAlign

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### 145044—Test Equipment Interface, PH510 (up to 3)

#### *Features*

- Feedthrough plate for control lines of up to 3 PH510 for use in a MicroAlign system with Top Chambers
- Not used control lines are covered by a blank plate



#### *Compatibility*

- CM300, PA300 MicroAlign

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## MISCELLANEOUS ACCESSORIES

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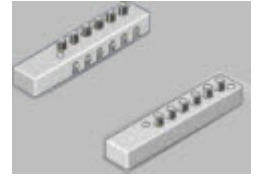
### 143123 — Vacuum Manifolds

#### *Features*

- Vacuum manifolds for six (6) positioners each on left and right side of PA300 MicroAlign

#### *Compatibility*

- PA300 MicroAlign



# Positioners and Positioner Accessories

## DC Positioners

### ENTRY LEVEL

#### DPP105-M/V-AI-S

##### Features

- Low cost probing
- Extremely small footprint
- Probe-tip pressure adjustment
- Single arm with gold-plated clamping included
- Suitable for probing pads down to 100 x 100  $\mu\text{m}$

##### Specifications

- Travel Range:
  - X: 8 mm
  - Y: 6 mm
  - Z: 25 mm (z-axis control: cw=down, ccw=up)
- Resolution:
  - Feature Resolution: 5  $\mu\text{m}$
  - Screw Resolution X 350  $\mu\text{m}/\text{rev}$  (70 tpi)
  - Screw Resolution Y 500  $\mu\text{m}/\text{rev}$  (50 tpi)
  - Screw Resolution Z 70  $\mu\text{m}/\text{rev}$  (350 tpi)
- Base: Magnetic or Vacuum
- Footprint Dimensions: 60 x 20 mm

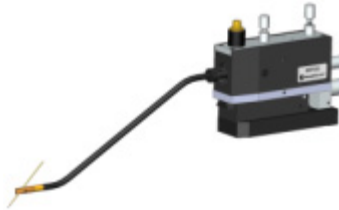
##### Compatibility

###### Open Platform Bundles

PM5  
PM8  
PM300  
PA200  
PA300

##### Ordering Information

- DPP105-M-AI-S
- DPP105-V-AI-S



#### DPP105-M/V-PTH

##### Features

- Low cost probing
- Extremely small footprint
- Probe-tip pressure adjustment
- Compatible with PTT needle holders
- Suitable for probing pads down to 100 x 100  $\mu\text{m}$

##### Specifications

- Travel Range:
  - X: 8 mm
  - Y: 6 mm
  - Z: 25 mm (z-axis control: cw=down, ccw=up)
- Resolution:
  - Feature Resolution: 5  $\mu\text{m}$
  - Screw Resolution X 350  $\mu\text{m}/\text{rev}$  (70 tpi)
  - Screw Resolution Y 500  $\mu\text{m}/\text{rev}$  (50 tpi)
  - Screw Resolution Z 70  $\mu\text{m}/\text{rev}$  (350 tpi)
- Base: Magnetic or Vacuum

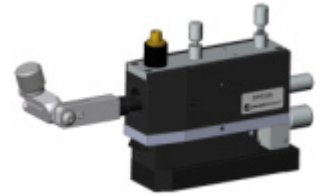
##### Compatibility

###### Open Platform + PTH Arms

Summit

##### Ordering Information

- DPP105-M-PTH
- DPP105-V-PTH





## STANDARD

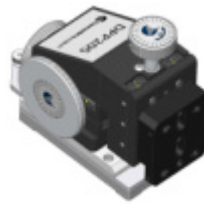
### DPP205-M/V-L/R; DPP205-M/V-L/R-S

#### Features

- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for Cascade Microtech's triaxial probing accessories and MicroChamber
- With probe and triaxial accessories, micropositioner configures to state-of-the-art, guarded, low-noise triaxial probing in minutes
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Can be ordered with either:
  - Vacuum base
  - Switch type magnetic base with residual holding force
- Configured for use on left or right hand side of platen



DPP205-V-R



DPP205-M-L-S

#### Specifications

- Ideal for 3 µm or larger feature resolution
- Fine screw: 0.5mm pitch (50TPI)
- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- 90mm x 60mm footprint in (WxD)

#### Compatibility

Platforms + Dedicated Arms	Open Platforms + DC Arms
CM300	PM5
Elite 300	PM8
PA300MA	PM300
Summit	PA200
Tesla	PA200 BlueRay
Power	PA300

#### Ordering Information

- DPP205-M-L
- DPP205-M-R
- DPP205-V-L
- DPP205-V-R
- DPP205-M-L-S
- DPP205-M-R-S
- DPP205-V-L-S
- DPP205-V-R-S

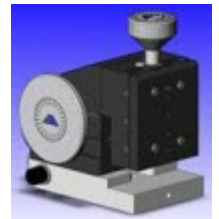
### DPP210-M/V-L/R; DPP210-M/V-L/R-S

#### Features

- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for Cascade Microtech's triaxial probing accessories and MicroChamber
- With probe and triaxial accessories, micropositioner configures to state-of-the-art, guarded, low-noise triaxial probing in minutes
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Configured for use on left/right hand side of platen
- Can be ordered with either:
  - Vacuum base
  - Switch type magnetic base with residual holding force



DPP210, magnetic base, right-hand x-axis control



DPP210, vacuum base, left-hand x-axis control

#### Specifications

- Ideal for 2 µm or larger feature resolution
- Fine screw: 0.25mm pitch (100TPI)
- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- 90mm x 60mm footprint in (WxD)

#### Compatibility

Platforms + Dedicated Arms	Open Platforms + DC Arms
CM300	PM5
Elite 300	PM8
PA300MA	PM300
Summit	PA200
Tesla	PA200 BlueRay
Power	PA300

#### Ordering Information

- DPP210-M-L
- DPP210-M-R
- DPP210-V-L
- DPP210-V-R
- DPP210-M-L-S
- DPP210-M-R-S
- DPP210-V-L-S
- DPP210-V-R-S

## DPP220-M/V-L/R; DPP220-M/V-L/R-S

### Features

- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for Cascade Microtech's triaxial probing accessories and MicroChamber
- With probe and triaxial accessories, micropositioner configures to state-of-the-art, guarded, low-noise triaxial probing in minutes
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Configured for use on left/right hand side of platen
- Can be ordered with either:
  - Vacuum base
  - Switch type magnetic base with residual holding force



DPP220, vacuum base, right-hand x-axis control



DPP220, magnetic base, left-hand x-axis control

### Specifications

- Ideal for 1  $\mu\text{m}$  or larger feature resolution
- Fine screw: 0.125mm pitch (200TPI)
- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- 90mm x 60mm footprint in (WxD)

### Compatibility

<b>Platforms + Dedicated Arms</b>	<b>Open Platforms + DC Arms</b>
CM300	PM5
Elite 300	PM8
PA300MA	PM300
Summit	PA200
Tesla	PA200 BlueRay
Power	PA300

### Ordering Information

- DPP220-M-L
- DPP220-M-R
- DPP220-V-L
- DPP220-V-R
- DPP220-M-L-S
- DPP220-M-R-S
- DPP220-V-L-S
- DPP220-V-R-S

# High-End Failure Analysis (FA) Positioners

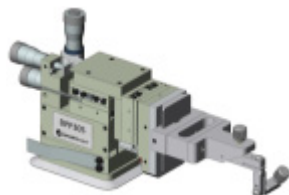
## DPP305-M/V-S; DPP305-M/V-PTH

### Features

- With precision ball bearings



DPP305 compatible with DC arms, and dedicated arms



DPP305 compatible with PTH arms

### Specifications

- Ideal for 0.5  $\mu\text{m}$  or larger feature resolution
- Movement range: X,Y: 10 mm, Z: 8 mm
- Z coarse adjustment range: 15 mm (z-axis control: cw=down, ccw=up)
- Micrometer screws: 250  $\mu\text{m}$  pitch (100TPI)

### Compatibility

Platforms + PTH Arms	Open Platforms + DC Arms	Platforms + Dedicated Arms
CM300	PM5	CM300
Elite 300	PM8	PA300MA
PA300MA	PM300	
Summit	PA200	
Tesla	PA200 BlueRay	
Power	PA300	

### Ordering Information

- DPP305-M-S
- DPP305-V-S
- DPP305-M-PTH
- DPP305-V-PTH

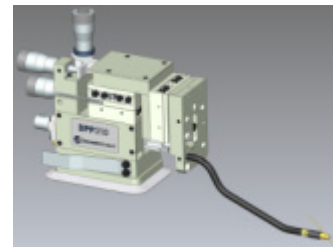
## DPP310-M/V-S; DPP310-M/V-PTH

### Features

- With precision ball bearings

### Specifications

- Movement range: XY: 10mm, Z: 8 mm
- Z coarse adjustment range: 15 mm
- Micrometer screws: 0.5 mm pitch
- Ideal for 0.5  $\mu\text{m}$  or larger feature resolution
- Movement range: X,Y: 10 mm, Z: 8 mm
- Z coarse adjustment range: 15 mm (z-axis control: cw=down, ccw=up)
- Micrometer screws: 250  $\mu\text{m}$  pitch (100TPI)



### Compatibility

Platforms + PTH Arms	Open Platforms + DC Arms	Platforms + Dedicated Arms
CM300	PM5	CM300
Elite 300	PM8	PA300MA
PA300MA	PM300	
Summit	PA200	
Tesla	PA200 BlueRay	
Power	PA300	

### Ordering Information

- DPP310-M-S
- DPP310-V-S
- DPP310-M-PTH
- DPP310-V-PTH

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## DPP450-M/V-S; DPP450-M/V-PTH

### Features

- With precision ball bearings
- Remote control block for fine movement
- For use with respective DPP3xx arms

### Specifications

- Ideal for 0.2  $\mu\text{m}$  or larger feature resolution
- Movement range X:10, Y:10, Z:8 mm, fine movement 300  $\mu\text{m}$  in each axis
- Z coarse adjustment range: 15 mm (z-axis control: cw=down, ccw=up)
- Micrometers with pitch of 500  $\mu\text{m}$  (50TPI) and superimposed hydraulic elements with 5 $\mu\text{m}$ /turn (5000TPI)



### Compatibility

<b>Platforms + PTH Arms</b>	<b>Open Platforms + DC Arms</b>	<b>Platforms + Dedicated Arms</b>
Elite 300	PM5	PA300MA
PA300MA	PM8	
Summit	PM300	
Tesla	PA200	
Power	PA200 BlueRay	
	PA300	

### Ordering Information

- DPP450-M-S
- DPP450-V-S
- DPP450-M-PTH
- DPP450-V-PTH

# RF Positioners

## STANDARD

### RPP210-M/V-L/R-S

#### Features

- 3 linear axes with precision ball bearings
- For adaptation of HF probes or probe wedges
- Magnetic fixation on HF platen or alternative with vacuum

#### Specifications

- Movement range: 12.5mm in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm pitch (100TPI)

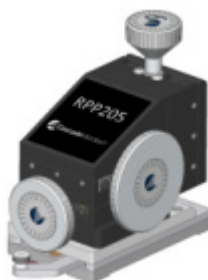
#### Compatibility

##### Platforms + RF Arms

PM5  
PM8  
PM300  
PA200  
PA200 BlueRay  
PA300  
PA300-MA

#### Ordering Information

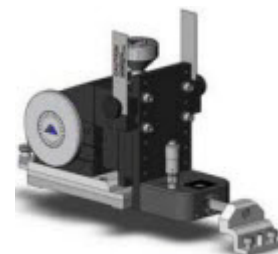
- RPP210-M-L-S
- RPP210-M-R-S
- RPP210-V-L-S
- RPP210-V-R-S
- RPP210-B-L-S
- RPP210-B-R-S



### RPP210-M/V/B-L/R-AI

#### Features

- Rigid probe platform yields repeatable measurements at microwave frequencies
- Economical conversion for probe stations originally configured for needle probing
- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Micrometer set planarity adjustment
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Vacuum base or switch-type magnetic base with residual holding force
- Configured for use on left/right hand side of platen
- Can be ordered with either:
  - Switch type magnetic base with residual holding force
  - Vacuum base
  - Bolt-down base



#### Specifications

- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- Fine screw: 0.25mm pitch (100TPI)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

#### Configurations

- Use on platen left location as WEST positioner
- Use on platen front location as SOUTH positioner
- Use on platen right location as EAST positioner
- Use on platen rear location as NORTH positioner

#### Compatibility

- Summit

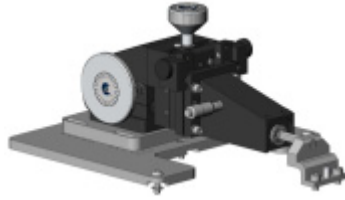
#### Ordering Information

- RPP210-M-L-AI
- RPP210-M-R-AI
- RPP210-V-L-AI
- RPP210-V-R-AI
- RPP210-B-L-AI
- RPP210-B-R-AI

## RPP210-B-SP-AI

### Features

- Rigid probe platform yields repeatable measurements at microwave frequencies
- Economical conversion for probe stations originally configured for needle probing
- Use with mmWave positioners for 4-port applications
- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Micrometer set planarity adjustment
- Optimized for Cascade Microtech's MicroChamber
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Bolt-down base



### Specifications

- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- Fine screw: 0.25mm pitch (100TPI)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen in South position only

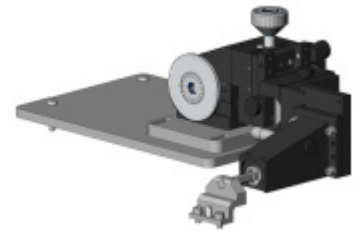
### Compatibility

- Summit

## RPP210-B-NP-AI

### Features

- Rigid probe platform yields repeatable measurements at microwave frequencies
- Economical conversion for probe stations originally configured for needle probing
- Use with mmWave positioners for 4-port applications
- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Micrometer set planarity adjustment
- Optimized for Cascade Microtech's MicroChamber
- Captivated stages with leadscrew design
- High precision cross-roller bearings
- Bolt-down base



### Specifications

- 12.5mm (0.5 inch) travel in X, Y and Z stages (z-axis control: cw=down, ccw=up)
- Fine screw: 0.25mm pitch (100TPI)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen in North position only

### Compatibility

- Summit

---

## RPP210-L/R-EW-CMC-AI — RF Probe Positioner Left/ Right Magnetic East-West

### *Features*

- 3 linear axes with precision ball bearings
- For adaptation of HF probes or probe wedges

Magnetic fixation on HF platen or alternative with vacuum

### *Specifications*

- Movement range: 12.5mm in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm pitch (100TPI)
- Positions the probe at the right side of DUT
- Horizontal probe mounting plate can be leveled
- East-West orientation
- For use with HF platen and MicroAlign

### *Compatibility*

- CM300 with top chambers



---

## RPP210-L/R-NS-CMC-AI — RF Probe Positioner Left/ Right Magnetic North-South

### *Features*

- 3 linear axes with precision ball bearings
- For adaptation of HF probes or probe wedges
- Magnetic fixation on HF platen or alternative with vacuum

### *Specifications*

- Movement range: 12.5mm in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm pitch (100TPI)
- Positions the probe at the right side of DUT
- Horizontal probe mounting plate can be leveled
- North-South orientation
- For use with HF platen and MicroAlign

### *Compatibility*

- CM300 with top chambers





## ADVANCED

### RPP305-M/V/B-S

#### Features

- 3 linear axes with precision ball bearings
- For adaptation of HF probes
- Bolt down, magnetic, or vacuum fixation to HF platen

#### Specifications

- Travel range: X,Y: 25 mm, Z: 10 mm (z-axis control: cw=down, ccw=up)
- Micrometer screws: 0.5 mm pitch (50TPI)

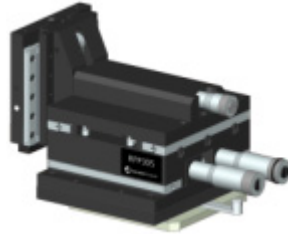
#### Compatibility

##### Platforms + RF Arms

PM5  
PM8  
PM300  
PA200  
PA200 BlueRay  
PA300  
PA300-MA

#### Ordering Information

- RPP305-M-S
- RPP305-V-S
- RPP305-B-S



### RPP304-EW/NS-SU-AI

#### Features

- Precision 4 axis probe positioner for RF/microwave probes
- Optimized for Summit 11k/12K-B station platform
- Rigid design for best probe placement
- New one-click positioner quick release control allows fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls for accurate probe placement
- Best probe-to-probe separation
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount Specifications
- 2-port probe tip separation
  - With MicroChamber TopHat: 40 mm (1.6-inch)
  - Without MicroChamber TopHat: 93 mm (3.7-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

#### Specifications

- Travel range: 12mm in X,Y and Y; 12mm in Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 1000µm pitch (25 TPI)
- Micrometer set planarity adjust: ±5°
- Gross X travel: 26 mm (1-inch) with TopHat; 68 mm (2.7-inch) with no TopHat/insert

#### Configurations

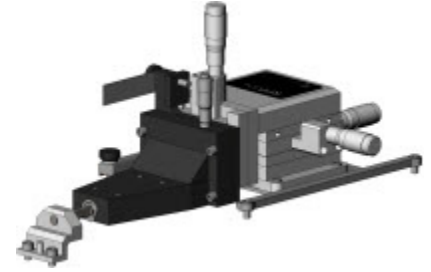
- Use on platen right/left location as East/West positioner (4-port)
- Use on platen top/bottom location as North/South positioners (4-port)

#### Compatibility

- Summit
- Tesla200

#### Ordering Information

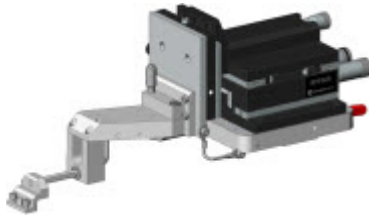
- RPP304-NS-SU-AI
- RPP304-EW-SU-AI
- RPP304-W-SU-AI



## RPP305-EW/NS-EL/SU-AI

### Features

- Precision 4 axis probe positioner for RF/microwave probes
- Optimized for Elite 300/ Summit 12K-B station platform
- Ultra rigid design for best probe placement
- New one-click positioner quick release control allows fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls for accurate probe placement
- Best probe-to-probe separation
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount



### Specifications

- Travel range: 25mm in X and Y; 10mm in Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 500µm pitch (50 TPI)
- Micrometer set planarity adjust: ±5°
- Gross X travel: 26 mm (1-inch) with TopHat; 68 mm (2.7-inch) with no TopHat/insert
- 2-port probe tip separation
  - With MicroChamber TopHat: 40 mm (1.6-inch)
  - Without MicroChamber TopHat: 93 mm (3.7-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen right/left location as East/West positioner (4-port)
- Use on platen top/bottom location as North/South positioners (4-port)

### Compatibility

Open Platforms + EL Arms	Open Platforms + SU Arms
Elite 300	Summit Tesla

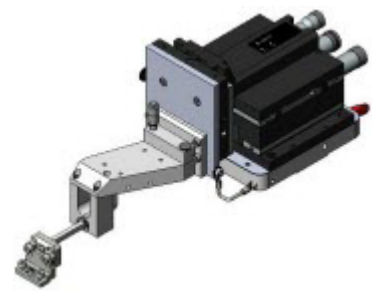
### Ordering Information

Elite 300	Summit
• RPP305-NS-EL-AI	• RPP305-NS-SU-AI
• RPP305-EW-EL-AI	• RPP305-EW-SU-AI

## RPP305-EW/NS-CM-AI

### Features

- Precision 4-axis probe positioner for RF/microwave probes
- Optimized for CM300 station platform
- Ultra rigid design for best probe placement
- New one-click positioner quick release control enables fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls for accurate probe placement
- Best probe-to-probe separation
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount



### Specifications

- Travel range: 25mm in X and Y; 10mm in Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 500µm pitch (50 TPI)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation:
  - With MicroChamber TopHat: 40 mm (1.6-inch)
  - Without MicroChamber TopHat: 93 mm (3.7-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design with locating pin configurations
- Use on platen right/left location as East/West positioner (4-port)
- Use on platen top/bottom location as North/South positioners (4-port)

### Compatibility

- CM300 with Top Hat, Elite 300

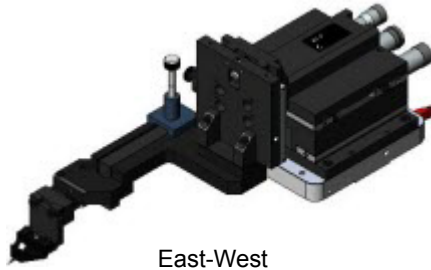
### Ordering Information:

- RPP305-EW-CM-AI
- RPP305-NS-CM-AI

## RPP305-EW/NS-CMC-AI — High Performance RF Probe Positioner 50TPI Bolt Down East-West or North-South

### Features

- Precision 4 axis probe positioner for RF/ microwave probes
- Optimized for CM300 station platform
- Ultra rigid design for best probe placement
- New one-click positioner quick release control allows fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls for accurate probe placement
- Best probe-to-probe separation
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- Industry standard RF probe mount



East-West



North-South

### Specifications

- Travel range: 25mm in X and Y; 10mm in Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 500 $\mu$ m pitch (50 TPI)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- 2-port probe tip separation
  - With TopHat: 40 mm (1.6-inch)
  - Without TopHat: 93 mm (3.7-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen right/left location as East/West positioner (4-port)
- Use on platen top/bottom location as North/South positioners (4-port)

### Compatibility

- CM300 with top chambers

### Ordering Information

#### CM300

- RPP305-NS-CMC-AI
- RPP305-EW-CMC-AI

## RPP305-EWM-CMC- AI — High Performance RF Probe Positioner 50TPI Bolt Down East-West or Mirrored

### Features

- Precision 4 axis probe positioner for RF/ microwave probes
- Optimized for CM300 station platform
- Ultra rigid design for best probe placement
- New one-click positioner quick release control allows fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls for accurate probe placement
- Best probe-to-probe separation
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- Industry standard RF probe mount



### Specifications

- Travel range: 25mm in X and Y; 10mm in Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 500 $\mu$ m pitch (50 TPI)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- 2-port probe tip separation
  - With TopHat: 40 mm (1.6-inch)
  - Without TopHat: 93 mm (3.7-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen right/left location as East/West positioner (4-port)

### Compatibility

- CM300 with top chambers

### Ordering Information

#### CM300

- RPP305-EWM-CMC-AI

## mmW and Motorized Positioners

### OPEN PLATFORM RF AND MICROWAVE POSITIONERS

#### 129227 — PH350HF (2)

##### Features

- Set of two PH350HF includes probe arms for fixing standard HF probes from all vendors
- For adaptation of the 1 mm 110GHz modules Keysight N5250A or Anritsu 3742A-EW fixed with screws on the PH350
- For adaptation of all Rohde & Schwarz converter with 1 mm cable, requires additional adapter platen depending from type (on request)
- Special flat design to minimize the HF cable length for highest measurement dynamic range
- Mounting of other tuners is possible with leveling feet and/or adapter platen (on request)
- Fixed by screws onto the HF platen



##### Specifications

- Travel range: X,Y: 25 mm, Z: 10 mm (z-axis control: cw=down, ccw=up)
- With 75 mm fast X-coarse movement for coaxial measurements
- Micrometer pitch: 500µm pitch (50 TPI)

##### Compatibility

- All PA/PM stations with dedicated platen (except BlueRay and MicroAlign)

#### 138230 — PH510 Motorized Positioner

##### Features

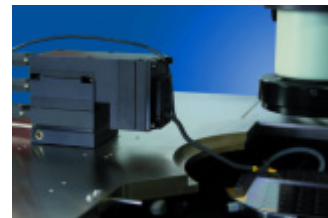
- IV/CV, RF motorized probing
- Multi-contact/mixed signal probing
- Versatile wafer level reliability probing

##### Specifications

- Feature resolution: 3 µm
- Travel range: (X / Y / Z) 25 mm / 25 mm / 25 mm
- Encoder resolution: (X / Y / Z) 0.02 µm / 0.02 µm / 0.02 µm
- Mounting: vacuum, magnetic, bolt down
- Footprint: 64 mm x 122 mm

##### Compatibility

- CM300, PM5, PM8, PM300, PA200, PA300, BlueRay, PA300 MicroAlign



### CM300 & ELITE 300 RF AND MICROWAVE POSITIONERS

#### 141-779 — mmW Large Area Positioner (W)

##### Features

- Precision 3 axis large area positioner for mmWave probes
- Optimized for CM300 and Elite 300 Station Platforms
- Micrometer set planarity adjustment
- Industry standard RF probe mount

##### Specifications

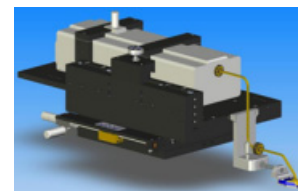
- XY travel: 150 mm (6-inch)
- Z travel: 12.5 mm (0.5-inch) Micrometer set planarity adjust: ±5° (z-axis control: cw=down, ccw=up)
- Weight: TDB
- 2-port probe tip separation
  - With MicroChamber TopHat: 40 mm (1.6-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

##### Configurations

- Use on platen left location as WEST positioner (2-port)

##### Compatibility

- CM300, Elite 300



## 141-778 — mmW Large Area Positioner (E)

### Features

- Precision 3 axis large area positioner for mmWave probes
- Optimized for CM300 and Elite 300 Station Platforms
- Micrometer set planarity adjustment
- Industry standard RF probe mount

### Specifications

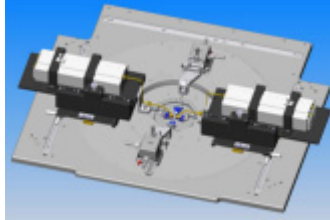
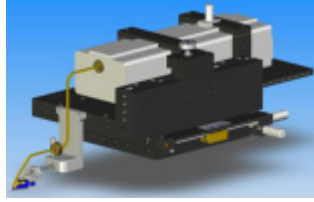
- XY travel: 150 mm (6-inch)
- Z travel: 12.5 mm (0.5-inch) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Weight: TDB
- 2-port probe tip separation
- With MicroChamber TopHat: 40 mm (1.6-inch)
- Without MicroChamber TopHat: TBD mm (y-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen right location as EAST positioner (2-port)

### Compatibility

- CM300, Elite 300



4-port configuration using East mmWave positioner, West mmWave positioner, and 2 E/W RF positioners placed in N/S positions.

## MS1-8-40 — RF Motorized Microwave Positioner (E/W)

### Features

- Fully programmable high resolution positioner for RF/microwave probes
- Optimized for Elite 300 Station Platform
- Provides 3 axes of linear motion with 1-inch of travel
- Video point-and-click movement with prober control software
- New one-click positioner quick release control allows fast setup and effortless gross positioning of RF probes
- Ultra rigid design for best probe placement
- Manual override of XYZ controls without losing software position
- Multi position RF cable clamp and offset probe mounting arm for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount

### Specifications

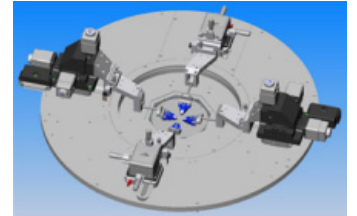
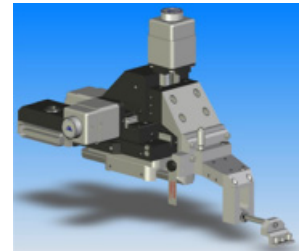
- XY travel: 25 mm (1-inch); Z travel: 15 mm (0.6-inch)
- Accuracy: 1  $\mu\text{m}$
- Repeatability: 1  $\mu\text{m}$
- High resolution at 0.1  $\mu\text{m}$  step size
- Closed loop motor-encoder system
- Speed: 1 mm/sec
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Gross Y travel: 26.42 mm (1.04-inch) with TopHat; 61.98 mm (2.44-inch) with no TopHat/insert
- Weight: 4.99 kg (11 lbs)
- Dimensions: height 140 mm (5.5-inch) x width 160 mm (6.28-inch) x depth 148 mm (5.8-inch)
- 2-port probe tip separation
  - With MicroChamber TopHat: 40.64 mm (1.6-inch)
  - Without MicroChamber TopHat: 81.28 mm (3.2-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin
- Includes 1 ECA-53 motor controller card for ECX-56D high resolution controller (not included)

### Configurations

- Use on platen right location as EAST positioner
- Use on platen left location as WEST positioner

### Compatibility

- Elite 300



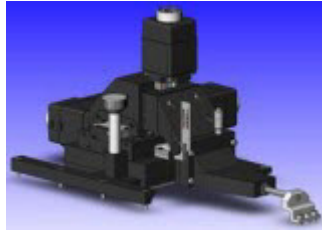
Two MS1-8-40 positioners shown in East and West positions with two 139-311B positioners (in N/S positions)

## SUMMIT RF AND MICROWAVE POSITIONERS

### MS1-8E — East Positioner, Programmable

#### Features

- Fully programmable high resolution positioner for RF/ microwave probes
- Provides 3 axes of linear motion with 1-inch of travel
- Video point and click movement with prober control software
- Ultra rigid design for best probe placement
- Manual override of XYZ controls without losing software position
- Multi position RF cable clamp for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount



#### Specifications

- XY travel: 25 mm (1-inch)
- Z travel: 15 mm (0.6-inch)
- Accuracy: 1  $\mu\text{m}$
- Repeatability: 1  $\mu\text{m}$
- High resolution at 0.1  $\mu\text{m}$  step size
- Closed loop motor-encoder system
- Speed: 1 mm/sec
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Weight: 4.99 kg (11 lbs)
- Dimensions: height 140 mm (5.5-inch) x width 160 mm (6.28-inch) x depth 148 mm (5.8-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin
- Includes 1 ECA-53 motor controller card for ECX-56D high resolution controller (not included)

#### Configurations

- Use on platen right location as EAST positioner

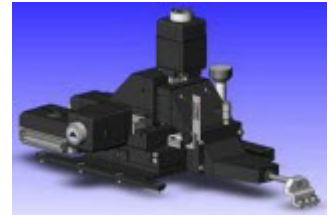
#### Compatibility

- Summit 12K, S300

### MS1-8W — West Positioner, Programmable

#### Features

- Fully programmable high resolution positioner for RF/ microwave probes
- Provides 3 axes of linear motion with 1-inch of travel
- Video point and click movement with probe station control software
- Ultra rigid design for best probe placement
- Manual override of XYZ controls without losing software position
- Multi position RF cable clamp for optimized RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount



#### Specifications

- XY travel: 25 mm (1-inch)
- Z travel: 15 mm (0.6-inch)
- Accuracy: 1  $\mu\text{m}$
- Repeatability: 1  $\mu\text{m}$
- High resolution at 0.1  $\mu\text{m}$  step size
- Closed loop motor-encoder system
- Speed: 1 mm/sec
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Weight: 4.99 kg (11 lbs)
- Dimensions: height 140 mm (5.5-inch) x width 160 mm (6.28-inch) x depth 148 mm (5.8-inch)
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin
- Includes 1 ECA-53 motor controller card for ECX-56D high resolution controller (not included)

#### Configurations

- Use on platen left location as WEST positioner

#### Compatibility

- Summit 12K, S300



## 133-525 — mmW Positioner, Manual, West Positioner

### Features

- Precision 3 axis large area positioner for Waveguide and 1.0 mm coaxial probes
- True vertical Z-axis avoids probe damage when probes are in close proximity to each other (thru measurements) and easy to view initial contact for accurate probe placement
- Quick release mechanism on X and Y axes for rapid test set-up
- Micrometer set planarity adjustment
- Industry standard RF probe mount
- Includes brackets to secure common test heads



### Specifications

- XY travel: 150 mm (6-inch)
- Z travel: 12.5 mm (0.5-inch) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen right location as West positioner

### Compatibility

- Summit, S300

## 133-528 — mmW Positioner, Manual, East Positioner

### Features

- Precision 3 axis large area positioner for Waveguide and 1.0 mm coaxial probes
- True vertical Z-axis avoids probe damage when probes are in close proximity to each other (thru measurements) and easy to view initial contact for accurate probe placement
- Quick release mechanism on X and Y axes for rapid test set-up
- Micrometer set planarity adjustment
- Industry standard RF probe mount
- Includes brackets to secure common test heads



### Specifications

- XY travel: 150 mm (6-inch)
- Z travel: 12.5 mm (0.5-inch) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust:  $\pm 5^\circ$
- Probe mount interface: 3 hole Cascade Microtech standard design, with locating pin

### Configurations

- Use on platen left location as EAST positioner

### Compatibility

- Summit, S300

# Positioner Accessories

## DCM POSITIONER ACCESSORIES

### 138-023 — Bracket for Keithley 4200-PA-1 for DPP2xx Positioner

#### Features

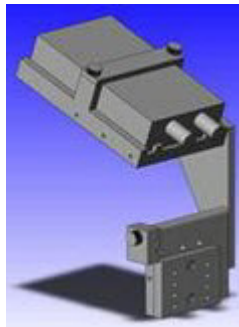
- Gets the Preamp close to the wafer/ device under test
- Isolated from the thermal environment of the wafer and station platen for highly stable measurements
- Mounts to Z axis to minimize cable flexure between the Amp and probe

#### Kit Contents

- Mounting bracket
- Mounting hardware

#### Compatibility

- Elite 300, Summit, S300, M150, Alessi



## RF POSITIONER ACCESSORIES

### 107-088 — Bracket Mount for Bias Tee/Keysight E4991A Module, for RF Positioners

#### Features

- Accessory mounting kit for RF positioners
- Used for bias tees
- Used for test head modules such as Keysight E4991 test heads
- Slotted mounting holes for easy multiple use adaptation

#### Kit Contents

- Mounting plate
- Plate mounting hardware

#### Compatibility

- Elite 300, Summit, S300, M150, Alessi



### 141-858 — FPC Mount for RF Positioners

#### Features

- Adapts between standard Cascade Microtech 3-hole mount to FPC style mount
- Allows the FPC probe to swing to address probing target

#### Specifications

- Compatible with standard 40 mm chuck below platen configurations
- Compatible with POS-RF positioners



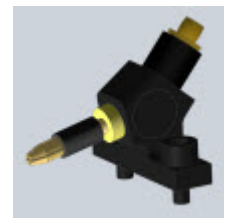
### 157-451 — DC Tip Holder

#### Features

- Mounts a DC needle to any RF probe mount
- Requires 100805 (50 cm) or 100751 (150 cm) coaxial cable arm

#### Specifications

- Leakage: <5fA
- Capacitance: <4pF





## POSITIONER ACCESSORIES FOR OPEN PLATFORMS

### 18129 — Plug, Female, HF-3 mm, Subminiature

#### Features

- Fits 3 mm male HF plug (18130) used with DPP105

#### Compatibility

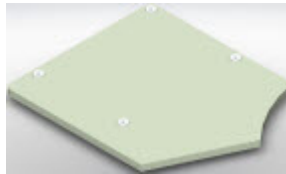
- DPP105



### 115604 — Quarter Ring on HF Platen for DC Probes

#### Features

- One quarter ring which instead of a [RPP305-M-S] can be bolted down to each of the 4 corners of an HF platen
- All DC probes can be used with standard arm length
- Fits all HF platens except MicroAlign



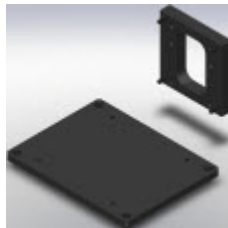
#### Compatibility

- PA300, PM300, PA200, PM8 + HF platen

### 143098 — PH510 Positioner Adapter for HF Platen and RPP305-S Probe Arm

#### Features

- Mechanical adaptation of PH510 to layout of RF platen
- Adaptation for use of RF probe arms RPP305-S



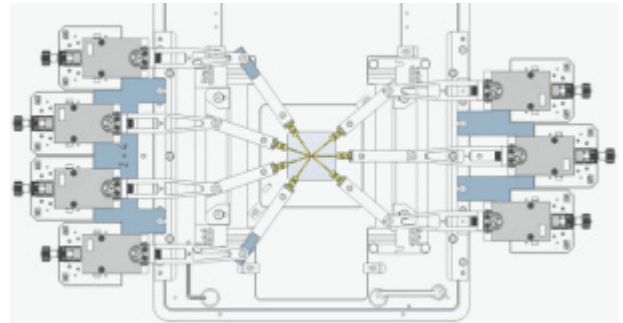
#### Compatibility

- PH510

### 145034 — Easy Positioning System for DPP3xx-M-S

#### Features

- For fast parallel mounting of 2, 3 or 4 positioners on each side of a MicroAlign system
- Suitable for DPP2xx-M-S and DPP3xx-M-S positioners only



#### Compatibility

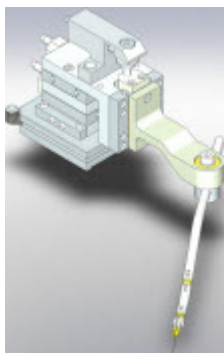
- PA300MA Basis

## Cryogenic & Vacuum Positioners

### 137197 — VCP110, DC Triax, Cryo, PMC200/PAC200

#### Features

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Three (3) linear axes with 12 mm movement range
- Probe arm DC triax with vacuum proof triax cable with connector to electrical feedthrough flange



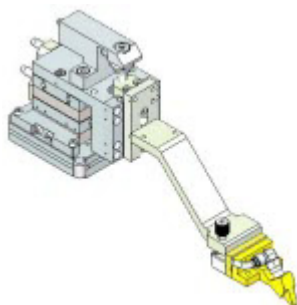
#### Compatibility

- PAC200, PMC200

### 137198 — VCP110, HF East-West, Cryo, PMC200/PAC200

#### Features

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF straight
- Three (3) linear axes with 12 mm movement range



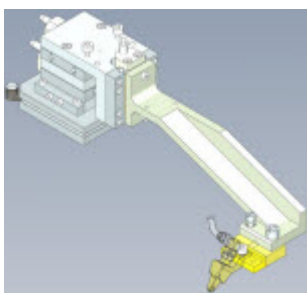
#### Compatibility

- PAC200, PMC200

### 137199 — VCP110, North-South, Cryo, PMC200/PAC200

#### Features

- VCP110 high vacuum positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF right-angled



#### Specifications

- Three (3) linear axes with 12 mm movement range

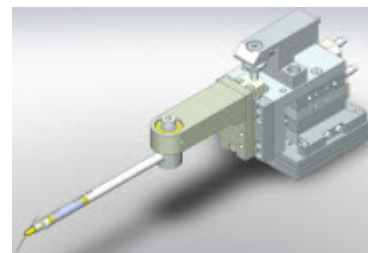
#### Compatibility

- PAC200, PMC200

### 140967— VCP110, High Vacuum, DC Triax, PLV50

#### Features

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm DC triax with vacuum proof triax cable with connector to electrical feedthrough flange
- Three (3) linear axes with 12 mm movement range



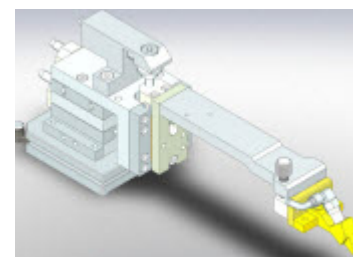
#### Compatibility

- PLV50

### 140968 — VCP110, High Vacuum, HF East-West, PLV50

#### Features

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF straight
- Three (3) linear axes with 12 mm movement range



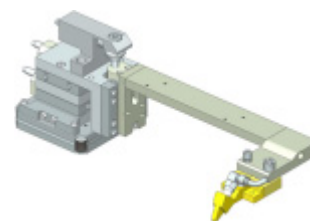
#### Compatibility

- PLV50

### 140969 — VCP110, High Vacuum, HF Arm, North-South, PLV50

#### Features

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF right-angled



#### Specifications

- Three (3) linear axes with 12 mm movement range

#### Compatibility

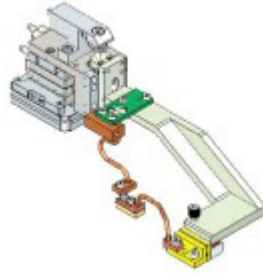
- PLV50

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147161 — VCP110, HF North-South, Cryo, PMC200/  
PAC200

**Features**

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Right-angled HF arm includes thermal contacts for cooling Cryo |Z|Probe



**Specifications**

- Three (3) linear axes with 12 mm movement range

**Compatibility**

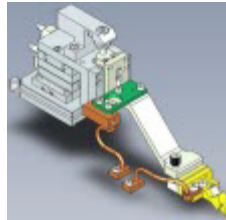
- PAC200, PMC200

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147160 — VCP110, HF East-West, Cryo, PMC200/PAC200

**Features**

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- HF arm straight includes thermal contacts for cooling Cryo |Z| probe
- Three (3) linear axes with 12 mm movement range



**Compatibility**

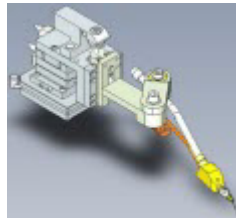
- PAC200, PMC200

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148722 — VCP110, DC Triax, Cryo, PMC200/PAC200

**Features**

- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm DC triax with vacuum proof triax cable with connector to electrical feedthrough flange
- Thermal contacts for probe cooling
- Three (3) linear axes with 12 mm movement range



**Compatibility**

- PAC200, PMC200

# Probe Card Holders

## Probe Card Holders and Accessories

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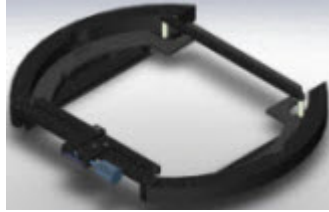
### PA, PM, DSP

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#### 100529 — Probe Card Holder, 6x7-Inch

##### Features

- Accepts 6-inch wide probe card
- Probe card located below platen
- Flexible probe arms recommended if DPP3xx is used
- Low profile probe card holder with bridge mounted 5° Theta and planarity adjustment



##### Compatibility

- PA300, PM300, PA200, PM8, PM5, all DSP stations

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#### 129912 — Probe Card Holder, 4.5 x 7-inch to 4.5 x 11-inch

##### Features

- Top loader/front loader functionality
- Maximum thickness of probe card: 23 mm, front loading
- Very stiff design
- Requires Platen Insert Ring PH/PC for use in PM300BEP (132521)



##### Specifications

- For standard formats:
  - Width: 4.5-inch
  - Length: 7- to 11-inch
- Theta adjustment range: 5°
- Minimum tip drop: 2 mm (0.08-inch)

##### Compatibility

- PA300, PM300, PA200 and PA200 BlueRay, PM8, PM5, all DSP stations

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### PROBE CARD HOLDER ACCESSORIES

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#### 51127 — Celadon Cable Harness

##### Features

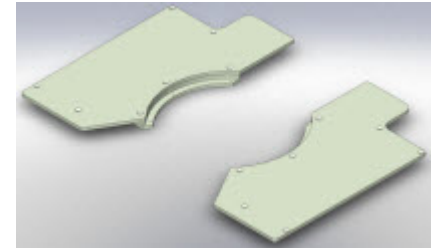
- Harness of 25 triaxial cables for Celadon probe cards (single site, multi site), MiniTiles or VersaTiles, length 2 meter  
Note: The double number of cables in the harness or even several harnesses are required for Kelvin Connections (two cables to each probe)
- Cable end to the prober: 26 pole microcoax connector AMP (1 Ground)
- Cable end to test meter: 25 3-lug triax plugs (m)

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#### 100651 — Insert for Probe Card Holder

##### Features

- For use with probe cards with probe card holder and HF platen
- When DPP positioners are used, RPP305-B must be removed



##### Compatibility

- PM5, PM8, PM300, PA200, PA300 with RF platen

# Probe Card Holders and Accessories

## CM300

### 171-570 — Probe Card Holder 4.5" for shielded CM300 with Cover and Celadon Probe Cards

#### Features

- For use by probe cards with 4.5-inch width inside the EMI/RFI shielded and light-tight environment of the CM300 Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)



#### Compatibility

- CM300

### 171-571 — Probe Card Holder 4.5" for shielded CM300 with Cover

#### Features

- For use by probe cards with 4.5-inch width inside the EMI/RFI shielded and light-tight environment of the CM300 Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)



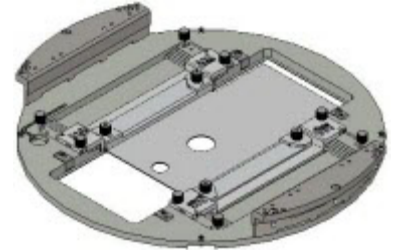
#### Compatibility

- CM300

### 171-226 — Probe Card Holder 4.5" for shielded CM300 with Top Chambers

#### Features

- For use by probe cards with 4.5-inch width of the CM300 Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)



#### Compatibility

- CM300

## ELITE 300

### 141-861 — Probe Card Holder

#### Features

- Universal probe card holder for 4.5-inch rectangular probe cards
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- Quick changeover from positioners to probe card
- Supports multiple probe card needle drafts with height adjustment
- Easy 3-point probe card planarization

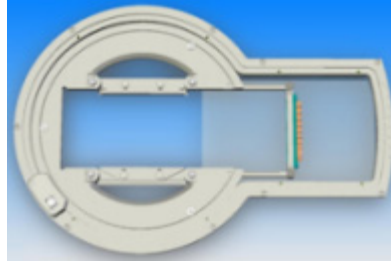


#### Specifications

- Temperature Range supported: -60°C to 300°C
- Probe card support:
  - 4.5-inch wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 8.5-inch long cards can be up to 2.5-inch off center
- Height adjustability:
  - 2.16-2.92 mm (0.085-inch - 0.115-inch)
  - 3.81-4.70 mm (0.150-inch - 0.185-inch)
  - 5.59 mm (0.220-inch)
  - 7.11 mm (0.280-inch)
- Theta rotation:  $\pm 7.5^\circ$
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lbs)

#### Kit Contents

- Probe card holder
- Edge connector kit with 48 and 70 pin connectors (f)
- Rear cable heat shield/support
- Probe card height adjustment kit (4 height settings)



Probe Card Holder (top view) with edge connector and cable heat shield installed

#### Compatibility

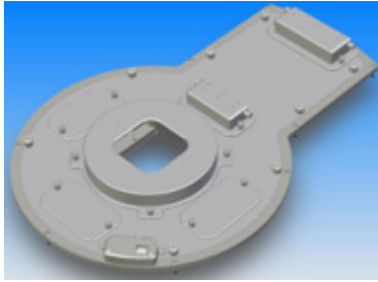
- Elite 300/AP, Elite 300/M



## 142-338 — MicroChamber Probe Card Holder

### Features

- Universal probe card holder for 4.5-inch rectangular probe cards
- Maintains dark, dry, EMI-RFI shielded environment (Elite 300 with MicroChamber)
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- Quick changeover from positioners to probe card
- Supports multiple probing configurations with removable access covers
- Supports multiple probe card needle drafts with height adjustment
- Easy 3-point probe card planarization



### Specifications

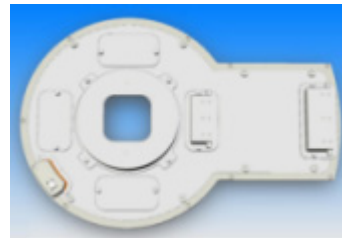
- Temperature range supported: -60°C to 300°C
- Probe card support:
  - 4.5-inch wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 8.5-inch long cards can be up to 2.5-inch off center
- Height adjustability:
  - 2.16-2.92 mm (0.085-inch - 0.115-inch)
  - 3.81-4.70 mm (0.150-inch - 0.185-inch)
  - 5.59 mm (0.220-inch)
  - 7.11 mm (0.280-inch)
- Theta rotation:  $\pm 7.5^\circ$
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lbs)

### Kit Contents

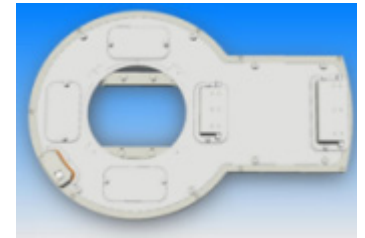
- Probe card holder
- MicroChamber cover (supports TopHat microscope objective seal)
- Edge connector kit with 48 and 70 pin connectors (f)
- Rear cable heat shield/support
- Probe card height adjustment kit (4 height settings)
- Cable access/exit kit (2)
- Quick access covers (4)



Shown with all quick access covers, exit panels and TopHat cover removed



Shown with all quick access covers in place



Shown with TopHat cover removed

### Compatibility

- Elite 300/AP, Elite 300/M

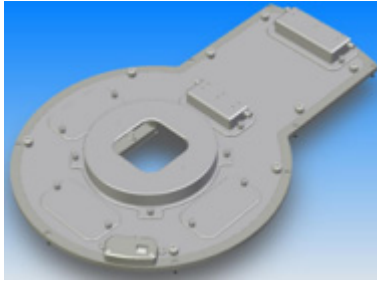
### Ordering Information

- For HTS compatible probe card holder, order 151-293 instead.

## 151-293 — MicroChamber Probe Card Holder, HTS, 40 mm, Universal

### Features

- Universal probe card holder for 4.5-inch rectangular probe cards
- Maintains dark, dry, EMI-RFI shielded environment (Elite with MicroChamber)
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- Quick changeover from positioners to probe card
- Supports multiple probing configurations with removable access covers
- Supports multiple probe card needle drafts with height adjustment
- Easy 3-point probe card planarization
- Constructed with high-stability thermal materials



### Specifications

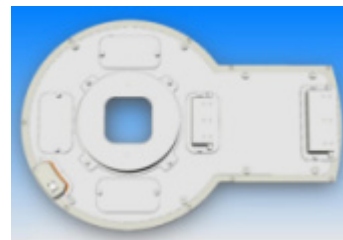
- Temperature range supported: -60°C to 300°C
- Probe card support:
  - 4.5-inch wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 8.5-inch long cards can be up to 2.5-inch off center
- Height adjustability:
  - 2.16-2.92 mm (0.085-inch - 0.115-inch)
  - 3.81-4.70 mm (0.150-inch - 0.185-inch)
  - 5.59 mm (0.220-inch)
  - 7.11 mm (0.280-inch)
- Theta rotation:  $\pm 7.5^\circ$
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lbs)

### Kit Contents

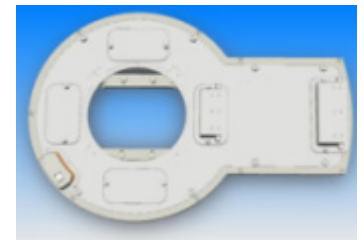
- Probe card holder
- MicroChamber cover (supports TopHat microscope objective seal)
- Edge connector kit with 48 and 70 pin connectors (f)
- Rear cable heat shield/support
- Probe card height adjustment kit (4 height settings)
- Cable access/exit kit (2)
- Quick access covers (4)



Shown with all quick access covers, exit panels and TopHat cover removed



Shown with all quick access covers in place



Shown with TopHat cover removed

### Compatibility

- Elite 300/AP, Elite 300/M, Summit 12K



## SUMMIT/S300

### 110-367 — Probe Card Holder for 6-inch Round Cards

#### Features

- Probe card holder for 6-inch round cards
- Mounts on Summit 12K and S300

#### Specifications

- 6-inch round probe card holder (for Pyramid probe cards)
- Theta adjustment
- No Z (height) adjustment (probe station Z is required)

#### Compatibility

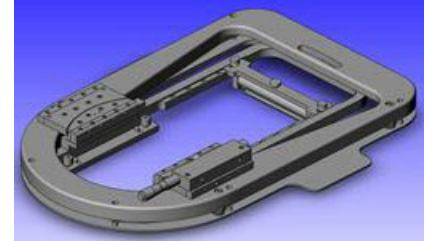
- Summit 12K, S300



### 114-338 — High Force Probe Card Holder

#### Features

- Easy-to-use probe card clamp
- Screw removal is not required to change similar types of probe cards
- No tools required to clamp the probe card in place
- Back pivoting edge connector for easy mating of edge card connector
- Support for 4.5-inch rectangular probe cards up to 11.375-inch long
- Stable three-point planarization adjustment
- Easy probe card height setting (three incremental settings)
- Probe card height adjustment accommodates Cascade Microtech low leakage probe cards and other probe cards
- Theta micrometer control located in front of the HF-PCH
- Includes 48 pin and 70 pin edge connectors



#### Specifications

- Maximum probe needle force: 20 kg (2,000 needles)
- Temperature range:
  - System with MicroChamber -55° to 300° C
  - System without MicroChamber Ambient to 300° C
- Theta range:  $\pm 3^\circ$
- Maximum planarization height compensation: 1.27 mm (0.050-inch)
- Probe card maximums:
  - W = 11.4 cm  $\pm 3$  mm (4.5-inch  $\pm 0.12$ -inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

#### Compatibility

- Summit 12K, S300

## 115-418 — High Force Probe Card Holder for MicroChamber

### Features

- Easy-to-use probe card clamp
- Screw removal is not required to change similar types of probe cards
- No tools required to clamp the probe card in place
- Back pivoting edge connector for easy mating of edge card connector
- Support for 4.5-inch rectangular probe cards up to 11.375-inch long
- Maintains a dark and dry EMI-RFI shielded environment (MicroChamber version only)
- Stable three-point planarization adjustment
- Easy probe card height setting (three incremental settings)
- Probe card height adjustment accommodates Cascade Microtech low leakage probe cards and other probe cards
- Theta micrometer control located in front of the HF-PCH
- Includes 48 pin and 70 pin edge connectors



### Specifications

- Maximum probe needle force: 20 kg (2,000 needles)
- Temperature range:
  - System with MicroChamber -55° to 300° C
  - System without MicroChamber Ambient to 300° C
- Theta range:  $\pm 3^\circ$
- Maximum planarization height compensation: 1.27 mm (0.050-inch)
- Probe card maximums:
  - W = 11.4 cm  $\pm 3$  mm (4.5-inch  $\pm 0.012$ -inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

### Compatibility

- Summit

## 122-437 — Edge Connector Kit Probe Card Holders

### Features

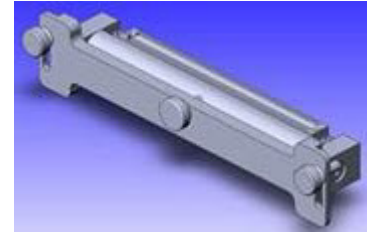
- Edge connector kit for Summit 4.5-inch probe card holders
- Support both 48 and 70 pin standard edge connectors
- Pivots for easy loading of probe card

### Kit Contents

- Edge connector mount
- 48 pin edge connector
- 70 pin edge connector

### Compatibility

- Summit, S300

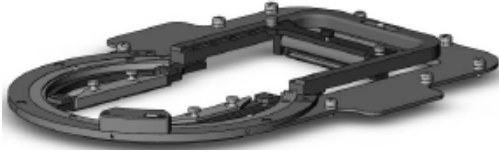


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## 120-935 — Low-Profile Probe Card Holder for Summit (Non-MicroChamber)

### Features

- Support for 4.5-inch rectangular probe cards up to 11.375-inch long
- Simultaneous use of a probe card and multiple positioners/DC probe needles
- DC probe needles can be used with the LP-PCH left in place
- Easy-to-use probe card clamp
- Screw removal is not required to change similar types of probe cards
- No tools required to clamp the probe card in place
- Back pivoting edge connector for easy mating of edge card connector
- Adjustable edge connector mounting brackets to support long probe cards
- Allows use of DCP probes without probe card in place
- Accurate, front-located theta adjustment wheel
- Stable three-point planarization adjustment
- Probe card height adjustment accommodates variability in probe card needle depth
- Probe card height adjustment accommodates Cascade Microtech low leakage probe cards and other probe cards
- Includes 48 pin and 70 pin edge connectors



### Specifications

- Maximum probe needle force: 1 kg (100 needles)
- Theta range  $\pm 3^\circ$
- Maximum planarization height compensation: 0.762 mm (0.030-inch)
- Probe card maximums:
  - W = 11.4 cm  $\pm 3$  mm (4.5-inch  $\pm 0.12$ -inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

### Compatibility

- Summit

## 124-118 — Low-Profile Probe Card Holder for Summit Stations with MicroChamber

### Features

- Support for 4.5-inch rectangular probe cards up to 11.375-inch long
- Simultaneous use of a probe card and multiple positioners/DC probe needles
- DC probe needles can be used with the LP-PCH left in place
- Easy-to-use probe card clamp
- Screw removal is not required to change similar types of probe cards
- No tools required to clamp the probe card in place
- Back pivoting edge connector for easy mating of edge card connector
- Adjustable edge connector mounting brackets to support long probe cards
- Allows use of DCP probes without probe card in place
- Quick switch-over between the TopHat cover and the LP-PCH
- Maintains a dark and dry EMI-RFI shielded environment (MicroChamber version only)
- Accurate, front-located theta adjustment wheel
- Stable three-point planarization adjustment
- Probe card height adjustment accommodates Cascade Microtech low leakage probe cards and other probe cards
- Includes 48 pin and 70 pin edge connectors

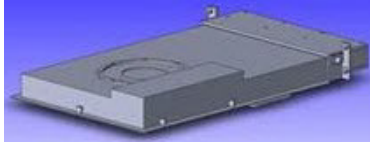
### Specifications

- Maximum probe needle force: 1 kg (100 needles)
- Temperature range:
  - System with MicroChamber -55 to 200 °C
  - System without MicroChamber ambient to 200°C
- Theta range  $\pm 3^\circ$
- Maximum planarization height compensation: 0.762 mm (0.030-inch)
- Probe card maximums:
  - W = 11.4 cm  $\pm 3$  mm (4.5-inch  $\pm 0.12$ -inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

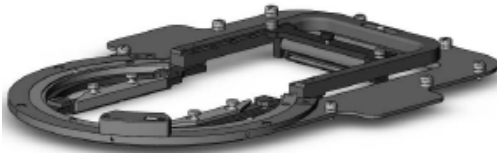
### Compatibility

- Summit

### With cover



### Cover removed



## 138-022 — Clamp Kit for LLPC, in Low Profile Card Holder

### Features

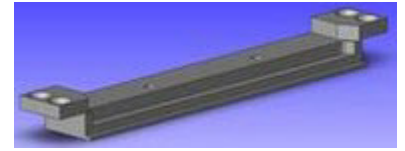
- Option to allow use of shallow draft probe cards
- For use on Low Profile Probe Card Holder 120-935 and 124-118 Low-Profile Probe Card Holder for Summit Stations with MicroChamber.

### Specifications

- Increases the draft from 2.03 mm to 4.57 mm (0.08-inch to 0.18-inch)

### Compatibility

- Summit



# Probe Mounts/ HOLDERS and PROBES

## Probe Arms and Probes (S-Positioner Compatible)

### DC PROBE ARMS, DPP2xx/DPP3xx

#### 100489 — Adapter Picoprobe 10-34A/DPP2xx/DPP3xx

##### Features

- Holding fixture for active picoprobes from GGB picoprobe 10...34 (picoprobe not included)
- Integrates existing picoprobe with DPP2XX or DPP3xx
- Adapter is included with Cascade Microtech standard picoprobes



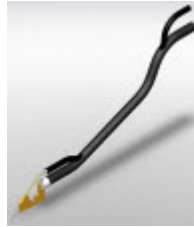
##### Compatibility

- MPS150, PM8, PM300, PA200, PA300

#### 100524 — Probe Arm, DPP2xx/DPP3xx, Edge Sensor

##### Features

- Includes edge sensor tip
- With connector matching to all semiautomatic standard probe stations (check compatibility to all other probe stations)



##### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)

#### 100525 — Probe Arm, DPP2xx/DPP3xx, Triax

##### Features

- 1.5 meter 50 Ohm low noise triax cable and triax plug BNC
- Highly isolated and gold plated needle clamping



##### Specifications

- Max. operation temperature: 300°C
- Resistance\*:

R_F-G @10V	T Ω	<100
R_G-S @10V	T Ω	<50
R_F-S @10V	T Ω	<300

- Leakage\*:

F-G @10V@1min	fA	<500
G-S @10V@1min	fA	<2000
F-S @10V@1min	fA	<500

- Capacitance\*:

C_F-G @300pA	pF	<300
C_G-S @300pA	pF	<500
C_F-S @300pA	pF	<200

\* Spec test conditions for all cases: 25% humidity, shielded chamber, ambient.

##### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)

#### 100560 — Probe Arm, DPP3xx, Coax, BNC

##### Features

- Short 50 Ohm coaxial cable and female BNC connector mounted in DPP3xx positioner base
- Requires additional coaxial cable (BNC male connector)
- Isolated and gold plated needle clamping



##### Compatibility

- All PA/PM stations (except MicroAlign) + DPP3xx-S, DPP450-S (and former PH150, PH400)

### 100561 — Probe Arm, DPP2xx/DPP3xx, Coax, BNC

#### Features

- 2 meter 50 Ohm coaxial cable with BNC connector
- Gold plated needle clamp

#### Specifications

- Resistance: >100TOhm
- Leakage: <120fA
- Capacitance: <300pF

#### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)



### 131844 — Probe Arm, DPP2xx/DPP3xx, Coax, High Temperature

#### Features

- For long term tests at temperatures higher than 100°C and always with temperature chucks up to 300°C

#### Specifications

- 1.5 meter 50 Ohm cable with coaxial plug BNC

#### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)



### 100696 — Probe Arm, DPP2xx/DPP3xx, Kelvin, 1 Tip

#### Features

- 2 coaxial cables 2 meters, 50 Ohm and BNC connector
- Double arm design for improved stiffness, with single tip clamping (gold plated)
- Shield connection can be changed
- Connected for LCR measurements as standard

#### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)



### 144139 — Probe Arm, DPP2xx/DPP3xx, Flex, DCP Probes

#### Features

- High rigidity
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx/DPP450
- DCP probes, cables and connectors not included base

#### Compatibility

- All PA/PM open systems (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

*Note: DPP3xx-S and DPP450-S (and former PH150, PH400) require 138697 in order to mount this arm.*



### 100715 — Probe Arm, DPP2xx/DPP3xx, Adjustable, Coax, BNC

#### Features

- 2 meter 50 Ohm coaxial cable and BNC plug
- Four hinges for individual arm profiling
- Gold plated needle clamping

#### Specifications

- Resistance: >100TOhm
- Leakage: <120fA
- Capacitance: <300pF

#### Compatibility

- All PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)



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## RF PROBE ARMS, RPP210-S

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### 146041 — Probe Arm, RPP210-S, North-South, for Vacuum/Magnetic Platen

#### Features

- For use with HF probes (e.g., |Z| Probe)
- Positions the probe at the front or rear side of DUT
- Horizontal probe mounting platen can be leveled
- For use with vacuum and magnetic platen



#### Compatibility

- All PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)

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### 146042 — Probe Arm, RPP210-S, East-West, for Vacuum/Magnetic Plate

#### Features

- For use with HF probes (e.g. |Z| Probe)
- Positions the probe at the left or right side of DUT
- Horizontal probe mounting platen can be leveled
- For use with vacuum and magnetic platen



#### Compatibility

- All PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)

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## RF PROBE ARMS, RPP305

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### 100624 — Probe Arm, RPP305, East-West, Mirrored

#### Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe on the left or right side of DUT
- Probe mounting platen can be leveled
- Mirror image of 100648 (only for 2 port configuration in combination with 100648)



#### Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

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### 100647 — Probe Arm, RPP305, East

#### Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe on the right side of DUT
- Probe mounting platen can be leveled (not compatible with 4-port configuration)



#### Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

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### 100648 — Probe Arm, RPP305, East-West

#### Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe on the left or right side of DUT
- Probe mounting platen can be leveled
- Mirror image of 100624 (for 4-port configuration, for 2-port configuration with 100624)



#### Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)



## 100649 — Probe Arm, RPP305, North-South

### Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe at the front or rear of DUT
- Probe mounting platen can be leveled (for 4-port configuration)



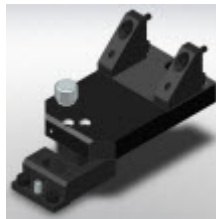
### Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

## 118160 — Probe Arm, RPP305, West

### Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe on the left side of DUT
- Probe mounting platen can be leveled (not compatible with 4-port configuration)



### Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

## 169-672- RF Probe Arm Mounting Platen

### Features

- Enables mounting of Lightwave probes on RF arms



### Compatibility

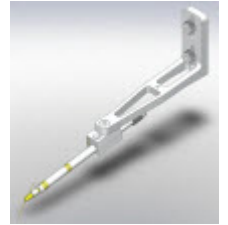
- Probe stations: MPS150, PM8, PA200, PM300 +
- RF probe arms: RPP2xx (146041, 146042), RPP305 +
- Lightwave probes: LWP-CLV-SM, LWP-CLV-MM, LWP-LEN-SM, LWP-LEN-MM

## DC PROBE ARMS, MICROALIGN

## 138687 — Probe Arm, DPP2xx/DPP3xx, Triax

### Features

- For use with MicroAlign systems
- Highly isolated needle clamp for standard single tips like PTT needles
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S



### Specifications

- 0.75 meter 50 Ohm low noise triax cable and 3 lug triax plug
- DC leakage <10 fA at ambient temperature
- For use with temperature chucks up to 300°C

### Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

## 138690 — Probe Arm, DPP2xx/DPP3xx, Triax, Kelvin 1Tip

### Features

- For use with MicroAlign systems
- For triaxial I/V-, Kelvin- and C/V (with CX-TRX adapter) tests
- Stainless steel design for high rigidity and minimum thermal drift
- Highly isolated needle clamp for single tips like PTT needles. (Signal from force and sense already connected inside chassis)
- Connector sockets for CommonRing cables (C/V-Test, 1 cable included), guard potentials from force and sense are connected to these sockets
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S



### Specifications

- 2 x 0.75 meter 50 Ohm low-noise triax cable and 3 lug triax plug
- For use with temperature chucks up to 300°C

### Compatibility

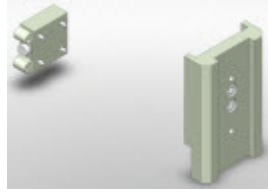
- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)



## 138697 — Adapter for Probe Arms DPP2xx/DPP3xx to Positioner DPP3xx

### Features

- Converts DPP3xx-S/DPP450-S front plate for use with DPP2xx/DPP3xx probe arms for DC and RF applications on MicroAlign systems



### Compatibility

- CM300 stations, PM/PA stations + DPP3xx-S, DPP450-S (and former PH150)

## 138700 — Probe Arm, DPP2xx/DPP3xx, Pico Probe

### Features

- For MicroAlign systems
- Holding fixture for Active Pico probes from GGB Pico probe 10...34 (Pico probe not included)
- Stainless steel design for high rigidity and minimum thermal drift
- Requires Test Equipment Interface 144987 for use at MicroAlign Advanced systems
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S



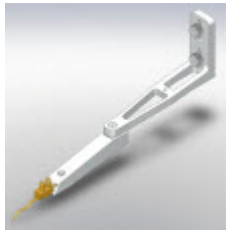
### Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

## 144866 — Probe Arm, DPP2xx/DPP3xx for DCP Probe

### Features

- For MicroAlign systems
- For triaxial I/V-, Kelvin-, C/V (with CX-TRX adapter) and 1/f applications
- Holding fixture for advanced DC coaxial probes like AP&T Probes, DCP and DCP-HTR probes
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S
- Includes two cables 0.7m long 3-lug Triax-SSMC for IV and Kelvin measurements



### Specifications

- DC leakage <10 fA at ambient temperature

### Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

## RF PROBE ARMS, MICROALIGN

### 133302 — Probe Arm, RPP305, North-South

#### Features

- For MicroAlign systems
- 4 probe setup
- For adaptation of HF probes or probe wedges
- For positioning the probe at front or rear side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at positioner end of the arm for easier operation
- Requires HF add-on platen or RPP305-M
- For use with RPP305 positioners



#### Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

### 133303 — Probe Arm, RPP305, East-West

#### Features

- For MicroAlign systems
- 4 probe setup
- For adaptation of HF probes or probe wedges
- For positioning the probe at left or right side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at positioner end of the arm for easier operation
- Requires HF add-on platen or RPP305-M
- For use with RPP305 positioners



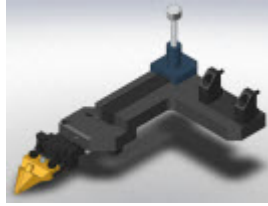
#### Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

## 134006 — Probe Arm, RPP305, East-West

### Features

- For MicroAlign systems
- To accompany 133303 to place two RPP305 (left and right) together in front of the operator
- For adaptation of HF probes or probe wedges
- For positioning the probe at left or right side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at end of the arm for easier operation
- Requires HF add-on platen on probe platen or RPP305-M
- For use with RPP305 positioners



### Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

## 144777 — Probe Arm, RPP210-S, East-West

### Features

- For use with HF probes or wedges
- Positions the probe at the left or right side of DUT
- Horizontal probe mounting plate can be levelled
- For use with HF platen and MicroAlign
- For use with RPP210-S (and former PH110) positioners



### Compatibility

- All PM/PA stations with RF platen, CM300 and PA300 MicroAlign, RPP210-S (and former PH110)

## 144778 — Probe Arm, RPP210-S, North-South, MicroAlign

### Features

- For MicroAlign systems
- For use with HF probes or wedges
- Positions the probe at the front or rear side of DUT
- Horizontal probe mounting plate can be levelled
- For use with HF platen and MicroAlign
- For use with RPP210-S positioners



### Compatibility

- All PM/PA stations with RF platen, CM300 and PA300 MicroAlign, RPP210-S (and former PH110)

## RF PROBE ARMS, PA200 BLUERAY

### 142139 — Probe Arm, RPP305-S East, Right, 2 Positioners, BlueRay

#### Features

- For positioning the probe on the right side of DUT
- With integrated probe planarization

#### Compatibility

- RPP305-B-S, RPP305-M-S

### 142140 — Probe Arm, RPP305-S West, Left, 2 Positioners, BlueRay

#### Features

- For positioning the probe on the left side of DUT
- With integrated probe planarization

#### Compatibility

- RPP305-B-S, RPP305-M-S

### 142143 — Probe Arm, RPP305-S East-West, 4 Positioners, BlueRay

#### Features

- For positioning the probe on the left or right side of DUT
- With integrated probe planarization

#### Compatibility

- RPP305-B-S, RPP305-M-S

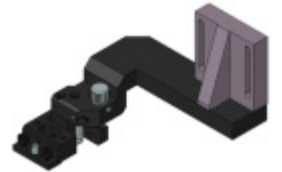
### 142148 — Probe Arm, RPP305-S North-South, 4 Positioners, BlueRay

#### Features

- For positioning the probe at the front or rear of DUT
- With integrated probe planarization

#### Compatibility

- RPP305-B-S, RPP305-M-S



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## PROBE ARM, OPTICAL FIBER

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### 145533 — Probe Arm, Optical Fiber 125 $\mu$ m, DPP2xx

#### Features

- Allows placement of glass fiber over the wafer
- Mount to DPP2xx
- Fiber tip visible in microscope image
- Front part of arm can be horizontally rotated
- Other fiber adaptations on request



#### Specifications

- Ferrule diameter 250  $\mu$ m for 125  $\mu$ m fiber cores and jacket
- Fiber angle vertical adjustable 80°-90°

#### Compatibility

- DPP2xx (and former PH110)

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## PROBE ARMS, PM5 POWER SYSTEMS

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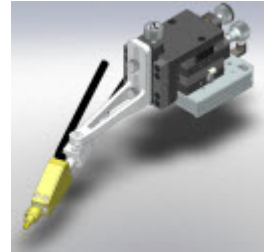
### 145303 — Probe Holder Short

#### Features

- Stainless steel design for high rigidity and minimum thermal drift
- To connect any individual probe to a RPP210 positioner for use with PM5 Power system

#### Compatibility

- PM5 Power



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### 144777 — Probe Arm, RPP210-S, East-West

#### Features

- For use with HF probes or wedges
- Positions the probe at the left or right side of DUT
- Horizontal probe mounting plate can be levelled
- For use with HF platen and MicroAlign
- For use with RPP210-S (and former PH110) positioners

#### Compatibility

- All PM/PA stations with RF platen, CM300 and PA300 MicroAlign, RPP210-S (and former PH110)



## PROBES, PM5 POWER SYSTEMS

### 142693 — Probe 10 kV



To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

#### Features

- Highly isolated needle clamp for standard single tips
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Requires arm holder for RPP210



#### Specifications

- 1.2m coax cable with 10 kV plug
- Operating voltage up to 10 kV

#### Compatibility

- PM5 Power

### 145297 — Probe HV Triax / 3 kV



To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

#### Features

- Highly isolated needle clamp for standard single tips like PTT needles
- For use with temperature chucks up to 300°C
- Stainless steel design for high rigidity and minimum thermal drift
- Requires arm holder for RPP210



#### Specifications

- 1.2m coax cable with HV triax plug
- Operating voltage up to 3 kV with lowest leakage

#### Compatibility

- PM5 Power

### 145298 — Probe HV Coax / 3 kV



To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

#### Features

- Highly isolated needle clamp for standard single tips
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Requires arm holder for RPP210



#### Specifications

- 0.75m coax cable with SHV plug
- Operating voltage up to 3 kV

#### Compatibility

- PM5 Power

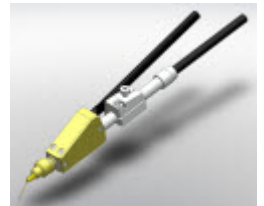
### 145300 — Probe HV Triax / Kelvin / 3 kV



To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

#### Features

- For triaxial I/V and Kelvin measurements
- Highly isolated needle clamp for standard single tips
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210



#### Specifications

- 2 x 1.2 meter 50 Ohm triaxial cable with HV Triax plug
- Operating voltage up to 3 kV

#### Compatibility

- PM5 Power

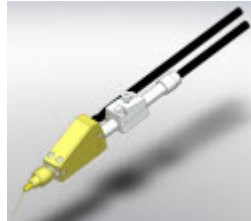
## 145301 — Probe HV Coax / Kelvin / 3 kV



To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

### Features

- For coaxial I/V-, Kelvin- and C/V tests
- Highly isolated needle clamp for standard single tips
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210



### Specifications

- 2 x 1.2 meter 50 Ohm coaxial cable with SHV connector (male)
- Operating voltage up to 3 kV

### Compatibility

- PM5 Power

## 145302 — Probe Coax / Kelvin

### Features

- For coaxial I/V-, Kelvin- and C/V tests
- Highly isolated needle clamp for single tips (inner conductor of both cables already connected inside chassis)
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210



### Specifications

- 2 x 1.2 meter 50 Ohm coaxial cable with BNC connector

### Compatibility

- PM5 Power

## 146083 — Sigma for B1505A/SE

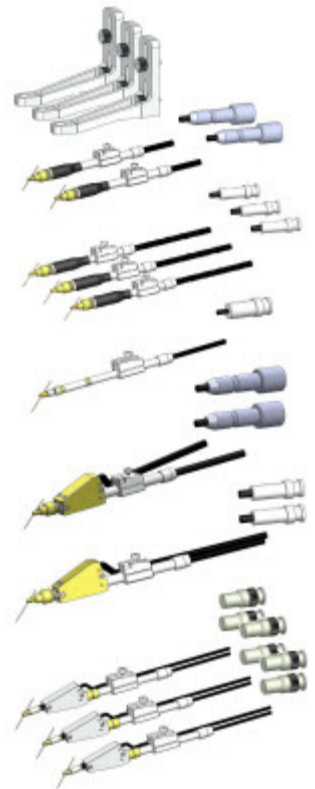


To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.

### Features

SIGMA Integration of Keysight B1505A Parameter System into the ShieldEnclosure/POWER, including:

- On-wafer integration of Keysight B1505A Parameter Analyzer System for high voltage measurements up to 3 kV and for high current measurements up to 20 A pulsed.
- Optimal integration by EMI and light shielded environment.
- Dedicated probe arm set of 11 probe arms (triax, coax, Kelvin/triax, Kelvin/coax) for measuring with highest accuracy of:
  - Lateral and vertical devices
  - IV like device break down /I leak
  - CV like Cds and Cgd
- All appropriate feedthroughs, internal system wiring, measurement adapter and supports to accommodate Keysight protection adapters and HV-bias-T according to the Application Overview for B1505A by Keysight.
- Keysight-verified configuration and probe accessories.
- Also requires:
  - Three (3) DPP2xx-M positioners with MAG base
  - Standard probe needles suitable for desired voltage/ current range



### Compatibility

- PM5 Power System

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## 146151 — Mounting B1505A/Module Selector/SE



*To use this probe safely, your station must be configured with a Tesla specific light curtain or approved safety interlocks. Failure to employ these safety measures can result in serious injury or death.*

### *Features*

- Feed-through for an Keysight N1258A Module Selector into a ShieldEnclosure for a Power probe system.
- Minimum additional space outside the SE required.
- Mounting in the rear side of the SE.

### *Compatibility*

- PM5 Power System





# CM300 DC Probe Mounts and Holders

## TOPHAT CONFIGURATION

### 163-593 — DCP Probe Mount, 43mm, Dual Triax, DPP2xx DPP2xx

#### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

#### Specifications

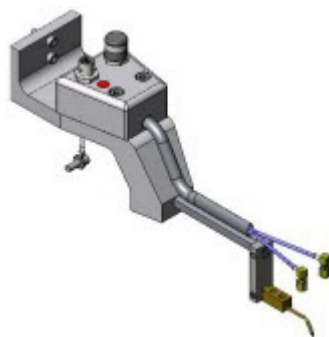
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- Precision industry standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

#### Kit Contents

- Probe to positioner mount
- Dual triaxial adapter (Kelvin), mini triax (f) to SSMC (m)
- EMI shielding cap
- EMI grounding strap

#### Compatibility

- CM300 with TopHat, Elite 300



### 163-597 — Needle Probe Mount, 43mm, Enhanced Jack Lock Holder, DPP2xx

#### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

#### Kit Contents

- Probe to positioner mount
- EMI grounding strap

#### Compatibility

- CM300 with TopHat, Elite 300



### 163-595 — DCP Probe Mount, 43 mm, HTS, DPP2xx

#### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

#### Kit Contents

- Probe to positioner mount
- EMI grounding strap

#### Compatibility

- CM300 with TopHat, Elite 300



## TOP CHAMBER CONFIGURATION

### 163-307 — Probe Arm, DPP2xx/DPP3xx for DCP Probe

#### Features

- For CM300 MicroAlign systems
- For triaxial I/V-, Kelvin-, C/V (with CX-TRX adapter) and 1/f applications
- Holding fixture for advanced DC coaxial probes like AP&T Probes, DCP and DCP-HTR probes
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S
- Includes two cables 0.7m long 3-lug Triax-SSMC for IV and Kelvin measurements

#### Specifications

- DC leakage <10 fA at ambient temperature

#### Compatibility

- CM300 MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)





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### 163-309 — Probe Arm, DPP2xx/DPP3xx, Triax

#### Features

- For use with CM300 MicroAlign systems
- Highly isolated needle clamp for standard single tips like PTT needles
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

#### Specifications

- 0.75 meter 50 Ohm low noise triax cable and 3 lug triax plug
- DC leakage <10 fA at ambient temperature
- For use with temperature chucks up to 300°C

#### Compatibility

- CM300 MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)



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### 163-313 — Probe Arm, DPP2xx/DPP3xx, Pico Probe

#### Features

- For CM300 MicroAlign systems
- Holding fixture for Active Pico probes from GGB Pico probe 10...34 (Pico probe not included)
- Stainless steel design for high rigidity and minimum thermal drift
- Requires Test Equipment Interface 144987 for use at MicroAlign Advanced systems

- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

#### Compatibility

- CM300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)



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### 163-311 — Probe Arm, DPP2xx/DPP3xx, Triax, Kelvin 1Tip

#### Features

- For use with CM300 MicroAlign systems
- For triaxial I/V-, Kelvin- and C/V (with CX-TRX adapter) tests
- Stainless steel design for high rigidity and minimum thermal drift
- Highly isolated needle clamp for single tips like PTT needles. (Signal from force and sense already connected inside chassis)
- Connector sockets for CommonRing cables (C/V-Test, 1 cable included), guard potentials from force and sense are connected to these sockets
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

#### Specifications

- 2 x 0.75 meter 50 Ohm low-noise triax cable and 3 lug triax plug
- For use with temperature chucks up to 300°C

#### Compatibility

- CM300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

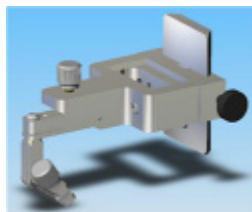


## Elite 300 and Summit DC Probe Mounts and Holders

### 144-388 — Universal Probe Holder with Dovetail Adapter Kit

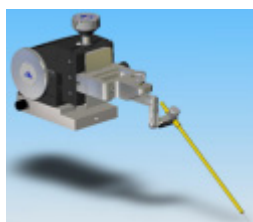
#### Features

- Universal probe holder for DPP series positioners (not TopHat compatible)
- Locking universal swivel-inch joint for quick probe setup
- Gross Z height adjustment for easy probe tip replacement
- Standard probe interface supports multiple probes (coax, triax, unshielded, picoprobe)



#### Kit Contents

- Universal probe holder
- Cable clamp
- Mounting screws



Universal probe holder shown mounted on a DPP2xx positioner, with a straight coaxial probe and PTT needle combination



Universal probe holder shown mounted on a DPP3xx/DPP450 positioner, with a straight coaxial probe and PTT needle combination

#### Compatibility

- Elite 300/AP, Elite 300/M, Summit 12K

### 144-389 — Universal Probe Holder with MS1 Adapter

#### Features

- Universal probe holder for MS1-44 programmable positioners (not compatible with TopHat)
- Locking universal swivel-inch joint for quick probe setup
- Gross Z height adjustment for easy probe tip replacement
- Standard probe interface supports multiple probes (coax, triax, unshielded, pico probe)
- Side cable clamp for minimizing cable vibration to the probe



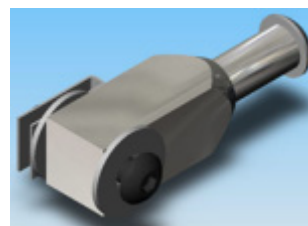
#### Kit Contents

- Universal probe holder
- Cable clamp
- Mounting screws

#### Compatibility

- Elite 300, Summit

### 144-887 — Mount, Pico Probe, Stud Grip



Picoprobe high impedance probe on DPP2xx-PTH positioner



Picoprobe high impedance probe on DPP3xx-PTH or DPP450-PTH positioner

#### Features

- Adapts pico probe high impedance probes to the universal probe holder

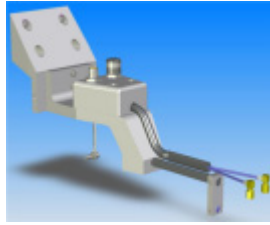
#### Compatibility

- Elite 300, Summit

## 151-286 — DCP Probe Mount, 40 mm, HTS, Triax, MS1 Series

### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Compatible with MS1 programmable positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials



### Specifications

- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation),
- Precision Industry Standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

### Kit Contents

- Probe to positioner mount
- Dual triaxial adapter (Kelvin), mini triax (f) to SSMC (m)
- EMI shielding cap
- EMI grounding strap

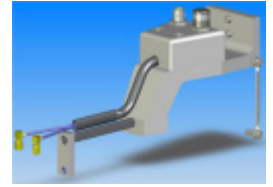
### Compatibility

- Elite 300/AP, Elite 300/M

## 151-287 — DCP Probe Mount, 40 mm, HTS, Triax, DPP2xx

### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials



### Specifications

- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation),
- Precision Industry Standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

### Kit Contents

- Probe to positioner mount
- Dual triaxial adapter (Kelvin), mini triax (f) to SSMC (m)
- EMI shielding cap
- EMI grounding strap

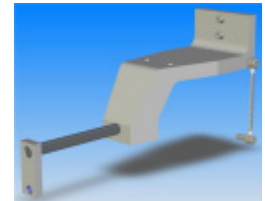
### Compatibility

- Elite 300/AP, Elite 300/M

## 151-288 — DCP Probe Mount, 40 mm, HTS, DPP2xx

### Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials



### Kit Contents

- Probe to positioner mount
- EMI grounding strap

### Compatibility

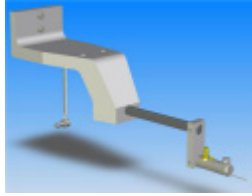
- Elite 300/AP, Elite 300/M

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## 151-289 — Needle Probe Mount and Enhanced Jack Lock Holder for DPP2xx Positioners

### Features

- Enhanced probe mount for PTT needle probes (45°)
- Easy probe needle replacement without tools
- Constructed with high-stability thermal materials
- For use on Elite 300
- Compatible with MicroChamber TopHat
- Compatible with DPP2xx positioners
- Compatible with all 45° PTT series probe needles



### Kit Contents

- Probe to positioner mount
- Jack lock holder with SSMC (f) and pin jack (f) connectors
- 1m coax (m) to SSMC (m)
- 18-inch cable with pin jack (m) to (m)
- EMI grounding strap

### Compatibility

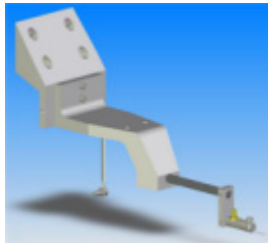
- Elite 300/AP, Elite 300/M

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## 151-290 — PTT Needle Probe Mount, 40 mm, HTS, Enhanced Jack Lock Holder, MS1 Series

### Features

- Enhanced probe mount for PTT needle probes (45°)
- For use on Elite 300
- Compatible with MicroChamber TopHat
- Easy probe needle replacement without tools
- Compatible with all 45° PTT series probe needles
- Compatible with MS1 programmable positioners



### Kit Contents

- Probe to positioner mount
- Jack lock holder with SSMC (f) and pin jack (f) connectors
- 1m coax (m) to SSMC (m)
- 18-inch cable with pin jack (m) to (m)
- EMI grounding strap

### Compatibility

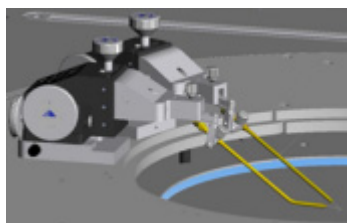
- Elite 300/AP, Elite 300/M

## Elite 300 and Summit DC Probes

### 139-331 — Coaxial Probe (Straight)

#### Features

- Shielded DC measurements with coaxial probe
- Straight configuration for multiple probing applications when using straight or 45° needles for steep access
- Easy probe needle replacement without tools
- Compatible with all PTT series probe needles
- Replaceable SMA cable
- Easy connection to Elite 300 coax connection panel on platen



Two (2) DPP2xx positioners and universal probe mounts, one using the straight coax probe with straight needle, and the other using a bent coax probe with 45° bent PTT needle

#### Kit Contents

- Straight shielded probe
- Integrated SMA (f) connector
- Shielded coaxial cable, 30-inch with SMA (m) to BNC (m)

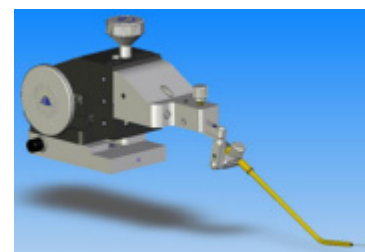
#### Compatibility

- Elite 300, Summit

### 139-870 — Coaxial Probe (Bent)

#### Features

- Shielded DC measurements with coaxial probe
- Bent configuration for increased microscope objective clearance with high magnification/low working distance objective lenses
- Easy probe needle replacement without tools
- Compatible with all bent PTT series probe needles
- Replaceable SMA cable
- Easy connection to Elite 300 coax connection panel on platen



Coaxial probe (bent) with 45° PTT needle, shown attached to universal probe holder and DPP2xx positioner.

#### Kit Contents

- Bent 35° shielded probe
- Integrated SMA (f) connector
- Shielded coaxial cable, 30-inch with SMA (m) to BNC (m)

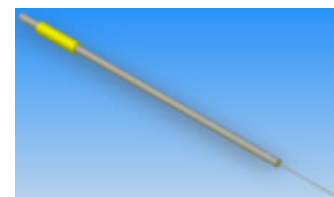
#### Compatibility

- Elite 300, Summit

### 144-390 — Triaxial Probe (Straight)

#### Features

- Guarded DC measurements with triaxial probe
- Integrated triaxial cable for low-noise measurements
- Easy connection to Elite 300 triaxial connection panel on platen
- Straight configuration for multiple probing applications when using straight or 45° needles for steep access
- Easy probe needle replacement without tools
- Compatible with all PTT series probe needles



#### Kit Contents

- Straight triax probe
- Integrated triaxial low-noise cable, 30-inch with triax (m) connector

#### Compatibility

- Elite 300, Summit

## 144-391 — Triaxial Probe (Bent)

### Features

- Guarded DC measurements with triaxial probe
- Integrated triaxial cable for low-noise measurements
- Easy connection to Elite 300 triaxial connection panel on platen
- Bent configuration for increased microscope objective clearance with high magnification/low working distance objective lenses
- Easy probe needle replacement without tools
- Compatible with all 45° PTT series probe needles



### Kit Contents

- Bent 35° triax probe
- Integrated triaxial low-noise cable, 30-inch with triax (m) connector

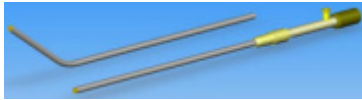
### Compatibility

- Elite 300, Summit

## 144-392 — Unshielded Probe Kit

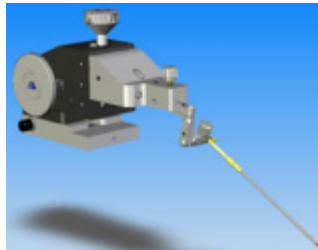
### Features

- Interchangeable probe arms (unshielded)
- Easy probe needle replacement without tools
- Pin jack for DC electrical connection
- Compatible with all PTT series probe needles



### Kit Contents

- Collet adapter with pin lock connector (f)
- Straight unshielded probe arm with jack lock
- 35° bent unshielded probe arm with jack lock
- 18-inch cable with pin jack (m) to (m)



Unshielded probe (straight) and collet shown attached to universal probe holder and DPP2xx positioner

### Compatibility

- Elite 300, Summit

## PHQ — Quick Lock Probe Holder

### Features

- Replacement probe tip holder for MMP probes
- Quick lock needle holding mechanism (spring-loaded Collette style)
- Constructed of nickel plated brass that can be user-formed as needed



### Specifications

- 4.5-inch in length
- Nickel plated brass
- Quick lock mechanism

### Kit Contents

- Probe tip holder
- MAE-44/18 cable 18-inch

### Compatibility

- Summit

## PHW — Wrench Lock Probe Holder

### Features

- Replacement probe tip holder for MMP probes
- Wrench lock needle holding mechanism (set screw hold)
- Constructed of nickel plated brass that can be user-formed as needed



### Specifications

- 4.5-inch in length
- Nickel plated brass
- Wrench lock mechanism

### Kit Contents

- Probe tip holder
- MAE-44/18 cable 18-inch
- Allen wrench

### Compatibility

- Summit



## Summit DC Probe Arms and Mounts

### 104-030K — DCP Probe Mount, Dual Triax Adapter (Kelvin) for RPP305-EW-SU positioner

#### Features

- Enables Kelvin connection to DCP style probes on East/West RPP305 positioners
- Supports Summit 11/12K and S300 systems

#### Specifications

- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

#### Kit Contents

- Mounting hardware

#### Compatibility

- Summit, S300, Alessi



### 114-818 — DCP Probe Mount, Dual Triax Adapter (Kelvin) for DPP2xx

#### Features

- Enables Kelvin connection to DCP style probes on DPP2xx positioners
- Supports Summit 11/12K and S300 systems

#### Specifications

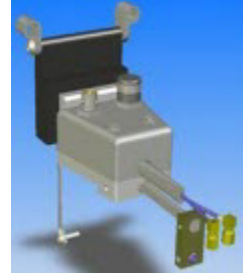
- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

#### Kit Contents

- Mounting hardware

#### Compatibility

- Summit, S300, Alessi



### 104-856K — DCP Probe Mount, Dual Triax Adapter (Kelvin) for RPP305-NS-SU Positioner

#### Features

- Enables Kelvin connection to DCP style probes on North/South RF positioners
- Supports Summit 11/12K and S300 systems

#### Specifications

- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

#### Kit Contents

- Mounting hardware

#### Compatibility

- Summit, S300, Alessi

### 114-842 — Needle Probe Mount and Jack Lock Holder for DPP2xx

#### Product Features

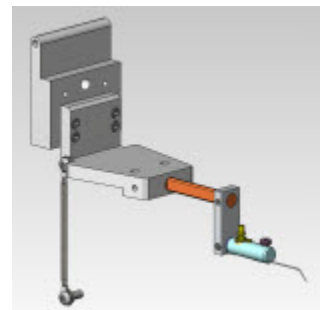
- Enhanced probe mount for PTT needle probes (45°)
- Easy probe needle replacement without any tools
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style or SSMC cable connection

#### Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45°) style needles (not included)

#### Station Compatibility

- Summit, S300, Alessi

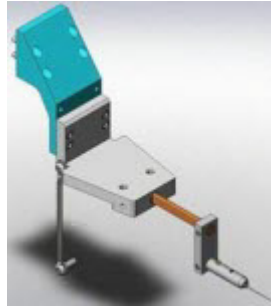




### 114-843 — Needle Probe Mount and Jack Lock Holder for MS1 Series Positioners

#### Features

- Needle probe holder (PTT style needles) for MS1 series programmable positioners
- Jack lock style holding mechanism
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style cable connection



#### Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45degree) style needles (not included)

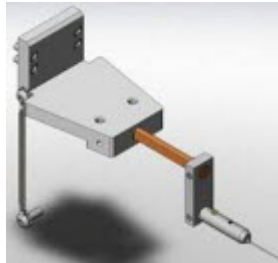
#### Compatibility

- Summit, S300, Alessi

### 114-847 — Needle Probe Mount and Jack Lock Holder for MH2 Positioners

#### Features

- Needle probe holder (PTT style needles) for MH2 series positioners
- Jack lock style holding mechanism
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style cable connection



#### Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45degree) style needles (not included)

#### Compatibility

- Summit, S300, Alessi

### 115-596 — DCP Probe Mount, Dual Triax Adapter (Kelvin) for MS1 Series Positioners

#### Features

- Enables Kelvin connection to DCP style probes on MS1 series programmable positioners

#### Specifications

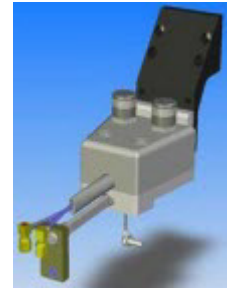
- Instrument connection are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

#### Kit Contents

- Mounting hardware

#### Compatibility

- Summit, S300, Alessi



### 116-031 — DCP Probe Mount for DPP2xx, Direct Probe/ Cable Conn (SSMC)

#### Features

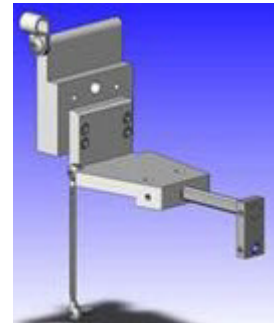
- Mounting bracket for DCP probes, for use on DPP2xx positioners
- To be used with direct cable from instrument to DCP probe (e.g., 105-540 or 124-562 BNC to SSMC cables)
- Top Hat compatible

#### Kit Contents

- Mounting hardware

#### Compatibility

- Summit, S300, Alessi



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## 129-116 — PTT Probe Mount (MMP-01/J) and Adapter Kit for DPP2xx

### *Features*

- For use with DPP2xx positioners
- Brass needle holder can be user-formed as needed
- Uses pin jack style connection (e.g., MAE cables), one included
- Has gross Z adjustment via thumb screw on holder arm
- Holder also pivots
- Not recommended for Top Hat use



### *Kit Contents*

- Mounting hardware
- Mounting bracket
- Probe holder arm
- MAE-44/18 cable 18-inch

### *Compatibility*

- Summit, S300 (non TopHat), Alessi

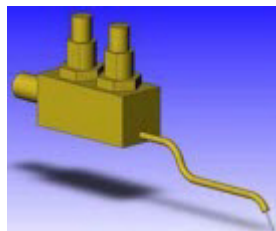
## DC Probes, Coax and Triax, DCP and PE5 Style Probe Holders

### DCP-105R — DC Coaxial Probe, Single Line, 0.5 $\mu\text{m}$ Radius, Replaceable Tip

(Packages of 4 available by ordering DCP-105R-4)

#### Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)



#### Specifications

- Breakdown voltage:  $>500\text{ V}$
- Isolation resistance:  $> 1 \times 10^{13}\text{ ohms}$
- Frequency response (3 dB): 150 MHz
- Temperature range:  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 0.5  $\mu\text{m}$  radius probe tip

#### Compatibility

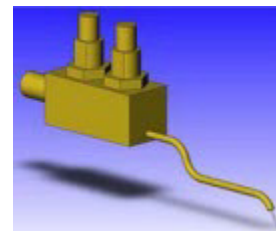
- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See [Replaceable Probe Tips on page 16](#) for compatible replacement probes.

### DCP-115R — DC Coaxial Probe, Single Line, 1.5 $\mu\text{m}$ Radius, Replaceable Tip

(Packages of 4 available by ordering DCP-115R-4)

#### Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Fully guarded measurement to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)



#### Specifications

- Breakdown voltage:  $>500\text{ V}$
- Isolation resistance:  $> 1 \times 10^{13}\text{ ohms}$
- Frequency response (3 dB): 150 MHz
- Temperature range:  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 1.5  $\mu\text{m}$  radius probe tip

#### Compatibility

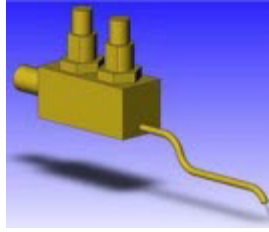
- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See [Replaceable Probe Tips on page 16](#) for compatible replacement probes.

## DCP-150R — DC Coaxial Probe, Single Line, 5.0 $\mu\text{m}$ , Replaceable Tip

(Packages of 4 available by ordering DCP-150R-4)

### Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)



### Specifications

- Breakdown voltage:  $>500\text{ V}$
- Isolation resistance:  $> 1 \times 10^{13}\text{ ohms}$
- Frequency response (3 dB): 150 MHz
- Temperature range:  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5  $\mu\text{m}$  radius probe tip

### Compatibility

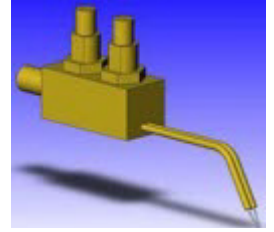
- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See [Replaceable Probe Tips on page 16](#) for compatible replacement probes.

## DCP-150K-25 — DC Coaxial Probe, Kelvin, 25 $\mu\text{m}$ Pitch, 5.0 $\mu\text{m}$ Tip Radius

(Packages of 4 available by ordering DCP-150K-25-4)

### Features

- True Kelvin Probe, two 5  $\mu\text{m}$  radius tips separated by 25  $\mu\text{m}$
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections, one for each tip
- Individual connectors for each tip
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage



### Specifications

- Breakdown voltage:  $>500\text{ V}$
- Isolation resistance:  $> 1 \times 10^{13}\text{ ohms}$
- Frequency response (3 dB): 150 MHz
- Temperature range:  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Characteristic impedance: 50 ohms
- Probe Tip separation: 25 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5  $\mu\text{m}$  radius probe tip

### Compatibility

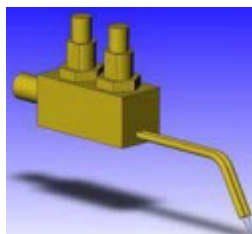
- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi

## DCP-150K-50 — DC Coaxial Probe, Kelvin, 50 $\mu\text{m}$ Pitch, 5.0 $\mu\text{m}$ Tip

(Packages of 4 available by ordering DCP-150K-50-4)

### Features

- True Kelvin Probe, two 5  $\mu\text{m}$  radius tips separated by 50  $\mu\text{m}$
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65°C to 150°C
- Fully guarded measurements to fA and fF levels
- Great for Modeling and Characterization work
- Dual Precision SSMC 50 ohm connections, one for each tip
- Individual connectors for each tip
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage



### Specifications

- Breakdown voltage: >500 V
- Isolation resistance: >  $1 \times 10^{13}$  ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Probe Tip separation: 50 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5  $\mu\text{m}$  radius probe tip

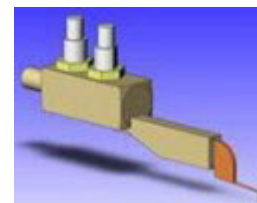
### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi

## DCP-HTR — High Performance DC Probe Holder

### Features

- High-quality construction with low-noise electrical performance
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Configurable for triax usage
- Full temperature range coverage
- Dual Precision SSMC 50 connection allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Replaceable microstrip probe tips (Not included)



### Specifications

- Frequency range: dc - 100 MHz
- 500 V breakdown voltage, isolation resistance  $1\text{E}13$  ohms
- Temperature range -65 to +300°C
- Leakage noise:  $\pm 10\text{fA}@-65$  to +200°C,  $\pm 20\text{fA}@200$  to 300°C
- Does not include replaceable tip

### Compatibility

- CM300, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See [Replaceable Probe Tips on page 16](#) for compatible replacement probes.

# Summit

## Optical Bridge Mounts and Transports

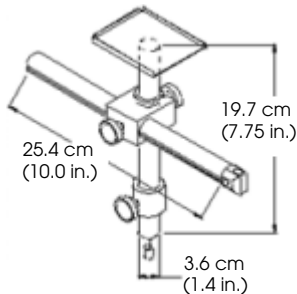
### 115-416 — Low Power Optics Boom Stand

#### Features

- Microscope boom stand for low power microscopes/optic
- Includes illuminator mounting tray
- Provides for a wide range of movement
- Enables movement of the microscope fully out of the probing area
- Fits Summit 11/12K systems
- Uses standard bonder arm mounts
- Not compatible with eVue, Mitutoyo, Seiwa, or A-Zoom microscopes

#### Compatibility

- Summit



### 131-924 — Motorized Theta Upgrade Kit for Summit 12K Stations (with 68 Pin Interconnect)

#### Features

- Kit supports automatic wafer alignment and productivity tools in probe station control software packages.
- Installation must be ordered with kit (p/n SRV-STATION-UP)



#### Specifications

- Travel  $\pm 5.5^\circ$
- Resolution  $0.65 \mu\text{m}$  (0.03 mils)\*
- Repeatability  $\pm 2 \mu\text{m}$  (0.08 mils)\*
- Accuracy  $\pm 2 \mu\text{m}$  (0.08 mils)\* standard moves,  $\pm 3 \mu\text{m}$  (0.12 mils)\* large moves

\*Measured at edge of 200 mm chuck

#### Kit Contents

- New motorized Theta/Z-stage assembly
- Interconnect board electronics for 68-pin motor controller
- Motor driver and complete accessories.

#### Compatibility

- Summit 12K

### 131-923 — Motorized Theta Upgrade Kit (with 80 Pin Interconnect)

#### Features

- Kit supports automatic wafer alignment and productivity tools in probe station control software packages.
- Installation must be ordered with kit (p/n SRV-STATION-UP)
- Must be used with PC48 OR PC38, not compatible with PCI motor card



#### Specifications

- Travel  $\pm 5.5^\circ$
- Resolution  $0.65 \mu\text{m}$  (0.03 mils)\*
- Repeatability  $\pm 2 \mu\text{m}$  (0.08 mils)\*
- Accuracy  $\pm 2 \mu\text{m}$  (0.08 mils)\* standard moves,  $\pm 3 \mu\text{m}$  (0.12 mils)\* large moves

\* Measured at edge of 200 mm chuck

#### Kit Contents

- New motorized Theta/Z-stage assembly
- Interconnect board electronics for 80-pin motor controller
- Motor driver and complete accessories

#### Compatibility

- Summit 12K

## 158-073 — Large Area Optics Bridge Mount

### Features

- Larger area 6-inch x 8-inch XY movement range
- Linear Z lift
- Manual lead screw driven XY movement
- Compatible with most common microscopes used on probing systems
- A microscope mounting plate matching the selected microscope and microscope transport is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.



### Specifications

- 6-inch X axis movement range ( $\pm 3$ -inch from center of travel)
- 8-inch Y axis movement range ( $\pm 4$ -inch from center of travel)
- 3-inch linear manual Z lift

### Compatibility

- Summit

## 162-160 — High Stability Optics Bridge Mount (Manual 2x2)

### Features

- High stability 2-inch x 2-inch XY microscope transport
- Easy coaxial manual XY drive controls
- Pneumatic vertical z-lift (4-inches of travel)
- Supports laser and very small structure work
- A microscope mounting plate matching the selected microscope and microscope transport is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.



### Specifications

- 2-inch X axis movement range ( $\pm 1$ -inch from center of travel)
- 2-inch Y axis movement range ( $\pm 1$ -inch from center of travel)

### Compatibility

- Summit



## 162-165— High Stability Optics Bridge Mount (Motorized 2x2)

### *Features*

- Programmable high stability 2-inch x 2-inch XY microscope transport
- Pneumatic vertical z-lift (4-inches of travel)
- Motorized XY control with rotary encoders for precision positioning
- Knobs for manual control provided
- Supports laser and very small structure work
- ECA-53 drive card included
- An ECX-56 equipped system is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.



### *Specifications*

- 2-inch X axis movement range ( $\pm 1$ -inch from center of travel)
- 2-inch Y axis movement range ( $\pm 1$ -inch from center of travel)
- Encoder driven positioning provides resolution of 0.1  $\mu\text{m}$

### *Compatibility*

- Summit 12K

# Connection Panels (Coax, Triax, Pin jack, Banana Vacuum)

## 105-626 — Triax Connection Panel, Side Mount

### Features

- Optional triaxial connection panel for convenient cable management
- Designed to mount to the side of the Summit series platen
- 8 triaxial (3-lug) feed through connectors (female)
- Panel connections support single triax cables and Keysight dual triax SMU cable assemblies. For Keysight Quadrax SMU connections, please contact the factory.



### Kit Contents

- Panel with triax feed-throughs mounted
- Mounting hardware
- Cables are not included.

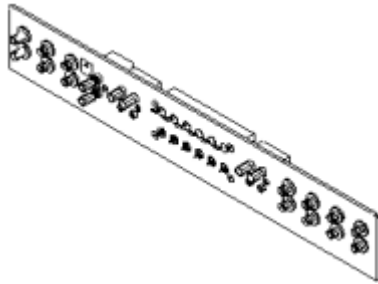
### Compatibility

- Summit

## 106-171 — Triax Connection Panel, Large Area Optical Bridge/Boom Stand Config

### Features

- Connection/vacuum panel
- 6 vacuum ports with on/off toggle switches
- Supports triax, BNC, pin-to-banana style connects
- Triax connections support single triax cables and Keysight dual triax SMU cable assemblies. Contact the factory for Keysight quadrax SMU connections.



### Specifications

- 12 triaxial (3-lug) feed through connectors (f)
- 2 BNC coax (2-lug) feed through connectors (f)
- 4 BNC to pin jack feed through connections
- Shorting bar to set the plane float or grounding setting
- Six 1/8-inch barb output vacuum manifold for vacuum base positioner support

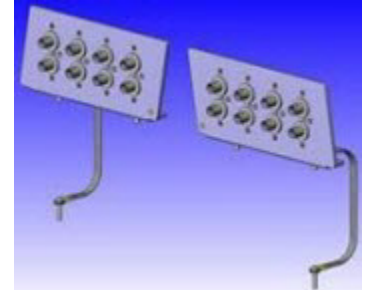
### Compatibility

- Summit

## 118-640 — Triax Connection Panel, High Stability Bridge Config, S300

### Features

- Set of triaxial connection panels for convenient cable management
- Designed to mount to the high stability optical bridge mount
- Panel connections support single triax cables and Keysight dual triax SMU cable assemblies. Contact the factory for Keysight quadrax SMU connections.



### Specifications

- 16 total triaxial (3-lug) feed through connectors (female), 8 on each side
- Ground straps for each panel

### Compatibility

- S300

## 134-710 — Triax Connection Panel, High Stability Bridge Config, Summit

### Features

- Set of triaxial connection panels for convenient cable management
- Designed to mount to the high stability optical bridge mount
- Panel connections support single triax cables and Keysight dual triax SMU cable assemblies. For Keysight quadrax SMU connections, please contact the factory.



### Specifications

- 10 triaxial (3-lug) feed through connectors (female)
- 4 BNC connectors
- 2 banana connectors
- Ground strap on each side

### Compatibility

- Summit

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## 162-200— Vacuum Manifold Kit, High Stability Optics Bridge

### Features

- One set of 5 port vacuum manifolds (10 total output ports) mounted on each side of the high stability microscope bridge
- Easy push on hose connection
- Easy push/pull, on and off flow toggle

### Specifications

- 5 ports per manifold
- 2 manifolds
- Outputs supports 1/8-inch vacuum hose

### Compatibility

- Summit, S300



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## RAC-92 — Pin Jack to Banana Interface Panel, High Stability Optical Bridge

### Features

- Includes two brackets, with six each Pin Jack to Banana connection interfaces
- Mounts at rear of station onto the high stability bridge mount



### Compatibility

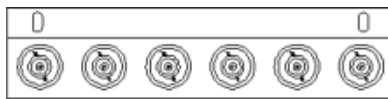
- Summit, S300

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## RAC-96 — Pin Jack to Coax Interface Panel, High Stability Optical

### Features

- Includes two brackets, with six each pin jack to coax interface connections
- Mounts at rear of station onto the high stability bridge mount



### Compatibility

- Summit, S300

# Mounting Kits and Miscellaneous Accessories

## 105-588 — Thermal Flow Meter Kit

### Features

- Provide dry air/nitrogen flow control to Summit MicroChamber
- Allow for optimization of the air flow to achieve stable measurement conditions at various set temperatures

### Specifications

- Input/output ports are 1/2-inch OD quick connect style
- Scale resolution is 0.5 SCFM

### Compatibility

- Summit



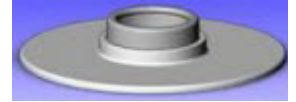
## 116-512 — MicroChamber Large TopHat Objective Ring/Cover

### Features

- Provides for objective light/ environmental seal when used with Summit TopHat
- Collapsible seal prevent damage to microscope or objective

### Compatibility

- Summit



## 106-889 — Dust Cover for Summit Systems

### Features

- Semi-transparent vinyl dust cover for Summit 11/12K system
- Provides protection for periods when the system is not in use

### Compatibility

- Summit

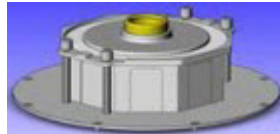
## 116-441 — Enhanced RF Shielded MicroChamber TopHat Kit

### Features

- Provides for an additional 20db of RF shielding
- Upgrades older Summit systems to the current style and size of TopHat
- Enables compatibility with newer accessories and system options
- Provides for compatibility with Current Wave Guide and Unity-MW probes

### Compatibility

- Summit, S300



## 133-492 — High Stability Bridge Mounting Bracket for Keysight E5288A Atto Sense Unit

### Features

- Mounts Keysight B1500 Atto sense unit in a thermally isolated position close to the probing environment
- Keeps cables lengths short for optimal performance
- Triax feed through direct connection paths support single triax cables and Keysight dual triax SMU cable assemblies. For Keysight Quadrax SMU connections, please contact the factory.

### Specifications

- Mount for two Keysight B1500 Atto Sense units
- 4 triaxial (3-lug) feed through connectors (female)

### Compatibility

- Summit, S300



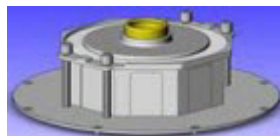
## 116-511 — MicroChamber Large TopHat Upgrade Kit

### Features

- Upgrades older Summit systems to the current style and size of TopHat
- Enables compatibility with newer accessories and system options
- Provides for compatibility with Current Wave Guide and Unity-MW probes

### Compatibility

- Summit



## 135-038 — Mounting plate for B1500A SCUU (SMU-CMU Unit), High Stability Bridge Config

### Features

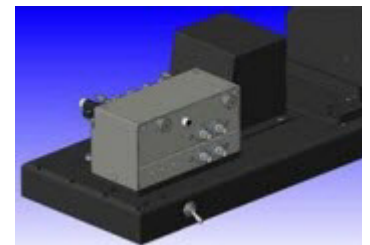
- Mounts Keysight B1500 SCUU (SMU-CMU unify unit) in a thermally isolated position close to the probing environment
- Keeps cables lengths short for optimal performance
- For use on Summit 11/12k and S300 systems with high stability optics bridge

### Kit Contents

- Mounting bracket
- Mounting hardware

### Compatibility

- Summit, S300



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## 165-210 — Xandex Inker, 12V, with Ink Cartridges and DPP2XX Positioner Mount

### *Features*

- Inker kit for DPP2XX positioner
- Enables marking/binning of selected dies
- Controlled by Cascade Microtech's probe station control software or external software
- Solenoid controlled inker

### *Specifications*

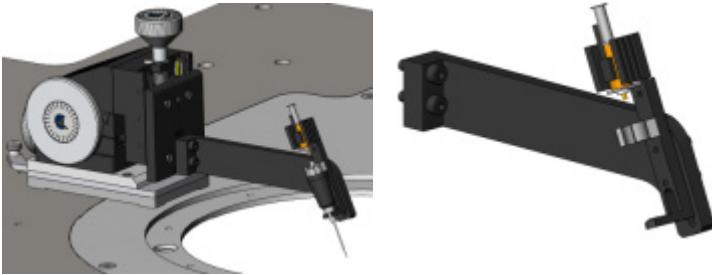
- 12 volt Xandex inker system

### *Kit Contents*

- Cartridge, Xandex die mark ink, 1.25-inch needle
- Cartridge, Xandex die mark ink, S-bend needle

### *Compatibility*

- Summit, S300



# Microscope Mounting Plates

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## 122-246 — Microscope Mounting Kit, Manual Transport, Large Area

### Features

- Dovetail mounting block for Seiwa VMS-888 family and Mitutoyo VMS-70
- Select when ordering a manual large area microscope transport system

### Compatibility

- Summit, S300, Alessi, MTS



---

## 162-150 — Microscope Mounting Kit, eVue/A-Zoom2/Seiwa/Mitutoyo/Manual Transport, HS

### Features

- Dovetail mounting block for eVue, A-Zoom2, Seiwa and Mitutoyo
- Select when ordering a manual, high stability microscope transport system

### Compatibility

- Summit, S300



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## 122-248 — Microscope Mounting Kit, eVue/A-Zoom2, Manual Transport, Large Area

### Features

- Dovetail mounting block for eVue and A-Zoom2
- Select when ordering a manual, large area microscope transport system

### Compatibility

- Summit, S300



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## 158-064 — Microscope Mounting Kit, Leica, Manual Transport

### Features

- Dovetail mounting block for Leica S6 and S8
- Adapts standard dovetail to bonder pin common to stereo zoom microscopes
- Universal design for Summit 11000B, 12000B, S300 and legacy probe stations

### Compatibility

- Summit, S300, Alessi, MTS



# Tesla

## Keysight Configuration

**Note: Male and Female connector ends as discussed in this section.**



SHV (f) connector



SHV (m) connector

### KEYSIGHT ACCESSORIES

#### 148-651 — HV Adapter Box, 2 SHV (f) to 2 BNC (f)

##### Features

- Provides connection between Keysight B1505A module selector and HVP-3C probes.
- Adapts SHV to BNC connection
- Magnetic base mounts on platen



##### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 3A
- Maximum current (Pulse): 40A, ( $PW \leq 1ms$ , Duty ratio  $\leq 1\%$ )
- Connector type: 2 SHV (f), 2 BNC (f)

##### Compatibility

- Tesla

#### 148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)

##### Features

- Provides the connection between Keysight B1505A HCSMU adapter and HCP-BNC or DCP-HTR probes
- Adapts single BNC connection to dual

##### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, ( $PW \leq 1ms$ , Duty ratio  $\leq 1\%$ )
- Connector type: 1 BNC (m), 2 BNC (f)

##### Compatibility

- Tesla



#### 148-658 — Keysight HV Triax Cable, (m - m)

##### Features

- Provides triax HV connection between Keysight B1505A and Tesla probe station.



##### Specifications

- Maximum voltage (triax connection): 3000V DC
- Connector type: Keysight HV triax connectors (m -m)
- Cable length: 1.5 m (5-feet)

##### Compatibility

- Tesla



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### 148-659 — BNC Cable, 61 cm (m - m)

#### Features

- Provides the connection between Keysight B1505A HCSMU accessories and HCP-BNC probes.

#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, ( $PW \leq 1\text{ms}$ , Duty ratio  $\leq 1\%$ )
- Connector type: BNC connectors (m - m)
- Cable length: 61 cm (24-inch)

#### Compatibility

- Tesla



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### 148-665 — HC BNC Cable, 61 cm (m - m)

#### Features

- Provides the high current, low-resistance connection between Keysight B1505A HCSMU accessories and HCP-BNC probes.

#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, ( $PW \leq 1\text{ms}$ , Duty ratio  $\leq 1\%$ )
- Connector type: BNC connectors (m - m)
- Cable length: 61 cm (24-inch)

#### Compatibility

- Tesla



---

### 148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm

#### Features

- Provides the connection between Keysight B1505A HCSMU adapter and DCP-HTR probes.

#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 1A
- Connector type: Mini triax (m), BNC (m)
- Cable length: 60 cm (23.5-inch)

#### Compatibility

- Tesla

---

### 148-669 — Keysight HV Triax (m) – SHV (m), 60 cm

#### Features

- Provides the HV triax to coaxial adaptation between Keysight B1505A and Tesla probe station.

#### Specifications

- Maximum voltage: 3000V DC
- Connector type: Keysight HV triax (m), SHV (m)
- Cable length: 60 cm (23.5-inch)
- Guard of Keysight HV triax connects to cable shield

#### Compatibility

- Tesla

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### 148-670 — HC BNC Cable, 1.5 m (m - m)

#### Features

- Provides the high current, low-resistance connection between Keysight B1505A HCSMU module selector and HVP-3C probes through the SHV to BNC adapter (148-651).

#### Specifications

- Maximum voltage: 500V DC
- Max current (DC): 5A
- Maximum current (Pulse): 40A, ( $PW \leq 1\text{ms}$ , Duty ratio  $\leq 1\%$ )
- Connector type: BNC connectors (m - m)
- Cable length: 1.5 m (5-feet)

#### Compatibility

- Tesla

---

### 148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)

#### Features

- Provides the interconnections between the Keysight B1505A HCSMU adapter, GNDU protection adapter and HVP-3C probes.

#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Connector type: SHV (f), BNC (m), 3 BNC (f)

#### Compatibility

- Tesla



**149-396 — Resistor Box, HV, 100 K $\Omega$  – HV Triax (f), SHV (f)**

**Features**

- 100K $\Omega$  Keysight resistor box
- Provides connection between Keysight B1505A HVSMU and HVP-3C probes.

**Specifications**

- Resistance: 100K $\Omega$
- Maximum voltage: 3000V DC
- Connector type: Keysight HV triax (f), SHV (f)

**Compatibility**

- Tesla



**149-397 — Resistor Box, HV, 1 K $\Omega$  – Triax (f - f)**

**Features**

- 1K $\Omega$  Keysight resistor box.
- Provides connection between Keysight B1505A HPSMU protection adapter and DCP-HTR probes.

**Specifications**

- Resistance: 1K $\Omega$
- Maximum voltage: 500V DC
- Connector type: Standard triax (f - f)

**Compatibility**

- Tesla



**149-398 — Resistor Box, HV, 1 K $\Omega$  – HV Triax (f), SHV (f)**

**Features**

- 1K $\Omega$  Keysight resistor box.
- Provides connection between Keysight B1505A HPSMU protection adapter box and HVP-3C probes.

**Specifications**

- Resistance: 1K $\Omega$
- Maximum voltage: 3000V DC
- Connector type: Keysight HV triax (f), SHV (f)

**Compatibility**

- Tesla



**149-445 — Test Head Plate Assembly**

**Features**

- Adapter plate for mounting instrument accessories on the Tesla station bridge



**Specifications**

- Dimensions: width 21.59 cm (8.5-inch) x depth 21.28 cm (8.38-inch) x 2.54 cm (1.0-inch)

**Compatibility**

- Tesla

**149-947 — SHV (m) to BNC (m) Cable, 60 cm**

**Features**

- Provides SHV to BNC connection

**Specifications**

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW $\leq$ 1ms, Duty ratio  $\leq$ 1%)
- Connector type: BNC (m), SHV (m)
- Cable length: 60 cm (23.5-inch)

**Compatibility**

- Tesla



**149-958 — Keysight HV Triax (m) to Std Triax Cable (m), 1.5 m**

**Features**

- Provides the HV triax to standard triax connection for Keysight B1505A.

**Specifications**

- Maximum voltage: 500V DC
- Connector type: Keysight HV triax (m), Standard (m)
- Cable length: 1.5 m (5-feet)

**Compatibility**

- Tesla

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### 149-976 — High Voltage Chuck Floating Plug

#### *Product Features*

- Provides the floating chuck connection for the Tesla high-power chuck
- Safety interlock connection



#### *Specifications*

- Dual triax connection
- Maximum voltage: 10,000V

#### *Station Compatibility*

- Tesla

#### *Ordering Information*

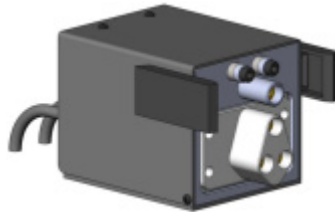
- Chuck Guard terminal connects to Chuck Shield terminal.

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### 149-977 — High Voltage Chuck Shorting Plug

#### *Product Features*

- Provides the shorting chuck connection for the Tesla high-power chuck
- Safety interlock connection



#### *Specifications*

- Dual triax connection
- Maximum current (DC): 10A
- Maximum current (Pulse): 100A, (PW<=1ms, Duty ratio <=1%)

#### *Station Compatibility*

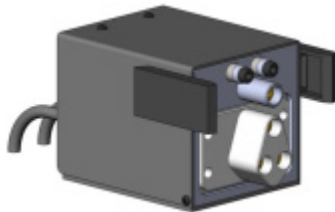
- Tesla

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### 149-978 — Chuck Cable, High Voltage Chuck to Agilent High Voltage Connector (m), 1.5 m

#### *Product Features*

- Provides dual triax connection between the high voltage Tesla chuck and Agilent B1505A HVSMU
- Low-leakage
- Low resistance, high voltage, high-current cable



#### *Specifications*

- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech high voltage chuck connector, Agilent high voltage connector (m)
- Cable length: 1.5 m (4.92-feet)

#### *Station Compatibility*

- Tesla

---

### 149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m

#### *Product Features*

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-current cable

#### *Specifications*

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech high voltage chuck connector, SHV connector (f)
- Cable length: 1.5 m (4.92-feet)

#### *Station Compatibility*

- Tesla

---

### 151-196 — SHV (f) to SHV (f) Adapter

#### *Features*

- Adapts SHV to SHV connection

#### *Specifications*

- Maximum voltage: 5000V
- Connector type: SHV (f) to SHV (f)

#### *Compatibility*

- Tesla



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### 151-207 — SHV (m) to SHV (m) Cable, 60 cm

#### *Features*

- Provides the high voltage SHV to SHV coaxial connection for Keysight B1505A and Tesla probe station.

#### *Specifications*

- Maximum voltage: 5000V DC
- Connector type: SHV (m)
- Cable length: 60 cm (23.5-inch)

#### *Compatibility*

- Tesla

---

### 151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m

#### *Product Features*

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-current cable

#### *Specifications*

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech high voltage chuck connector, BNC connector (m)
- Cable length: 1.5 m (4.92-feet)

#### *Station Compatibility*

- Tesla

---

### 151-466 — Tesla Bridge Mounting Kit for Keysight B1505A

#### *Features*

- Tesla high-power bridge mounting kit for use with Keysight B1505A.
- The kit includes necessary brackets, test head plates, interlock cables and hardware to mount the B1505A accessories configured with 1 HVSMU, 1 HCSMU, 2 HPSMUs and 1 MFCMU for typical measurement setup.

#### *Compatibility*

- Tesla

---

### 151-280 — HV Bulkhead Interconnect Panel

#### *Features*

- Two Keysight HV triax connectors
- Two BNC connectors
- Two SHV connectors
- Two standard triax connectors
- Includes grounding strap

#### *Specifications*

- Max Voltage:
  - Keysight HV triax: 3000V
  - BNC: 500V
  - SHV: 5000V
  - Standard triax: 500V
- Connector type:
  - Keysight HV triax (f)
  - BNC (f)
  - SHV (f)
  - Standard triax (f)

#### *Compatibility*

- Tesla



## 151-465 — Tesla Probes and Interconnect Accessory Kit for Keysight B1505A

### Features

- Tesla high-power probing kit for use with Keysight B1505A.
- The kit includes the HVP and HCP probes, positioners, necessary brackets, cables and adapters to connect B1505A configured with 1 HVSMU, 1 HCSCMU, 2 HPSCMUs and 1 MFCMU for typical measurement setup.

### Kit Contents

HVP-3C-E — HV, Coaxial Probe with SHV Connection	3
HVP-3T — HV, Triax Probe with Keysight HV Triax Connection	2
HCP-BNC-3-350 — HC Probe Holder with BNC Connection, 3-Finger, 350 µm Tip	2
DPP210-M positioner	5
RPP305 positioners	2
Interlock cable	1
Test head mounting brackets, small	4
Test head mounting brackets, large	1
Test head mounting plates	2
Keysight HV triax bulkhead assembly	2
Triax to BNC adapter	1
<a href="#">148-651 — HV Adapter Box, 2 SHV (f) to 2 BNC (f)</a>	1
<a href="#">148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)</a>	4
<a href="#">148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)</a>	2
<a href="#">148-658 — Keysight HV Triax Cable, (m - m)</a>	3
<a href="#">148-659 — BNC Cable, 61 cm (m - m)</a>	2
<a href="#">148-665 — HC BNC Cable, 61 cm (m - m)</a>	2
<a href="#">148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm</a>	2
<a href="#">148-669 — Keysight HV Triax (m) – SHV (m), 60 cm</a>	1
<a href="#">148-670 — HC BNC Cable, 1.5 m (m - m)</a>	2
<a href="#">149-947 — SHV (m) to BNC (m) Cable, 60 cm</a>	2
<a href="#">149-958 — Keysight HV Triax (m) to Std Triax Cable (m), 1.5 m</a>	2
<a href="#">151-207 — SHV (m) to SHV (m) Cable, 60 cm</a>	2
<a href="#">149-976 — High Voltage Chuck Floating Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m</a>	1
<a href="#">151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m</a>	1

### Compatibility

- Tesla

### Ordering Information

- When ordering as standalone, a 149-401 cable kit is required.

## 151-467 — Tesla Interconnect Kit for Keysight B1505A (Excluding Probes and Positioners)

### Features

- Tesla high-power probeless kit for use with Keysight B1505A.
- The kit includes necessary brackets, cables and adapters to connect B1505A configured with 1 HVSMU, 1 HCSCMU, 2 HPSCMUs and 1 MFCMU for typical measurement setup.

### Kit Contents

Interlock cable	1
Test head mounting brackets, small	4
Test head mounting brackets, large	1
Test head mounting plates	2
Keysight HV triax bulkhead assembly	2
Triax to BNC adapter	1
<a href="#">148-651 — HV Adapter Box, 2 SHV (f) to 2 BNC (f)</a>	1
<a href="#">148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)</a>	4
<a href="#">148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)</a>	2
<a href="#">148-658 — Keysight HV Triax Cable, (m - m)</a>	3
<a href="#">148-659 — BNC Cable, 61 cm (m - m)</a>	2
<a href="#">148-665 — HC BNC Cable, 61 cm (m - m)</a>	2
<a href="#">148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm</a>	2
<a href="#">148-669 — Keysight HV Triax (m) – SHV (m), 60 cm</a>	1
<a href="#">148-670 — HC BNC Cable, 1.5 m (m - m)</a>	2
<a href="#">149-947 — SHV (m) to BNC (m) Cable, 60 cm</a>	2
<a href="#">149-958 — Keysight HV Triax (m) to Std Triax Cable (m), 1.5 m</a>	2
<a href="#">151-207 — SHV (m) to SHV (m) Cable, 60 cm</a>	2
<a href="#">149-976 — High Voltage Chuck Floating Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m</a>	1
<a href="#">151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m</a>	1

### Compatibility

- Tesla

### Ordering Information

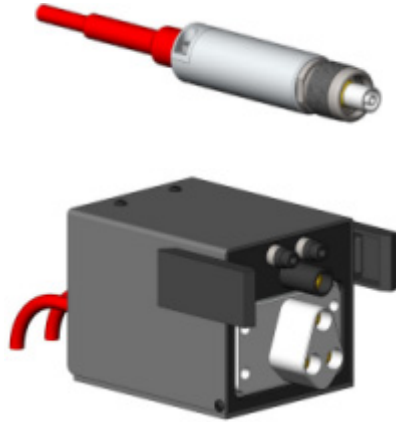
- When ordering as standalone, a 149-401 cable kit is required.

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### 153-180 Chuck Cable, HV Chuck to Keysight HV Connector (m) for 40A High Current Test, 1.5m

#### Features

- Provides dual triax connection between the HV Tesla chuck and Keysight B1505A HVSMU
- Low-leakage
- Very low resistance, HV, HC cable for dual HCSMU 40A configuration



#### Specifications

- Maximum voltage: 3000V
- Maximum current (DC): 3A
- Maximum current (Pulse): 40A, (PW  $\leq$  1ms, Duty ratio  $\leq$  1%)
- Connector type: Cascade Microtech HV chuck connector, Keysight HV connector (m)
- Cable length: 1.5 m (5-feet)

#### Compatibility

- Tesla

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### 153-190 BNC to Keysight HV Triax Adapter

#### Features

- Provides connection between Keysight B1505A dual HCSMU 40A solution and HCP-BNC probe



#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 3A
- Maximum current (Pulse): 40A (PW  $\leq$  1ms, Duty ratio  $\leq$  1%)
- Connector type: Keysight HV triax (m), BNC (f)

#### Compatibility

- Tesla

# Keithley Configuration

## KEITHLEY ACCESSORIES

### 144-527 — HV Triax Connector Cable, Interface Panel to Keithley 237/238

#### Features

- Provides connection between HV triax interface panel and:
  - High Voltage SMUs (Keysight, Keithley)
  - Standard triax connectors



#### Specifications

- Maximum voltage: 1100V (triax)
- Maximum current (DC): 5A
- Cable length: 1m (3.3-feet)
- Cable characteristics:
  - Withstand voltage: 1,100V (F-G), (G-S)
  - Isolation resistance: 1TΩ @ 1,100V (F-G), 100GΩ @ 1,100V (G-S)
- Terminating connector types:
  - Amphenol triax threaded, 11/16-24 (m)
  - Standard triax (HV version) (m)

#### Compatibility

- Tesla

### 151-469 — Tesla Interconnect Kit for Keithley Instruments (Excluding Probes and Positioners)

#### Features

- Tesla high-power probeless kit for use with Keithley instruments.
- The kit includes brackets, cables and adapters to connect Keithley instruments for typical measurement setup.

#### Kit Contents

<a href="#">151-472 — Safety interlock Cable, 3 m</a>	1
<a href="#">162-085 — HV Triax Connector Cable, Interface Panel to HV Coax</a>	1
<a href="#">144-527 — HV Triax Connector Cable, Interface Panel to Keithley 237/238</a>	3
<a href="#">149-976 — High Voltage Chuck Floating Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">High Power Chuck Connection Cables</a>	1
<a href="#">149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m</a>	1
<a href="#">151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m</a>	1

### 151-468 — Tesla Probes and Interconnect Kit for Keithley instruments

#### Features

- Tesla high-power probing kit for use with Keithley instruments.
- The kit includes the HVP and HCP probes, positioners, necessary brackets, cables and adapters to connect the Keithley instruments for typical measurement setup.

#### Kit Contents

<a href="#">RPP305 Positioners</a>	2
<a href="#">DPP210-M Positioners</a>	3
<a href="#">HCP-1-B — HC Probe Holder with Banana Jack Connections (no HCP tip)</a>	2
<a href="#">HCP-TIP-3-350 — HC Replaceable Probe Tips, 5-pack</a>	1
<a href="#">HVP-13 — HV Triax Probe with CMI HV Triax Connection</a>	3
<a href="#">PTT Needle, 12u</a>	1 box
<a href="#">151-472 — Safety interlock Cable, 3 m</a>	1
<a href="#">162-085 — HV Triax Connector Cable, Interface Panel to HV Coax</a>	1
<a href="#">144-527 — HV Triax Connector Cable, Interface Panel to Keithley 237/238</a>	3
<a href="#">149-976 — High Voltage Chuck Floating Plug</a>	1
<a href="#">149-977 — High Voltage Chuck Shorting Plug</a>	1
<a href="#">High Power Chuck Connection Cables</a>	1
<a href="#">149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m</a>	1
<a href="#">151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m</a>	1

#### Compatibility

- Tesla

#### Compatibility

- Tesla

### 151-470 — HV Triax Interface Panel

#### Features

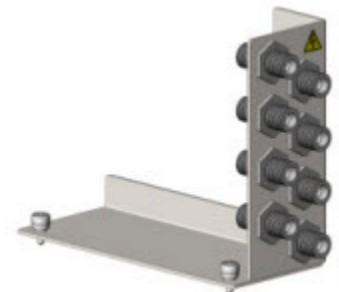
- Eight HV triax connections:
  - Four force
  - Four sense
- Includes grounding strap

#### Specifications

- Max Voltage: 3000V (coax)/1500V (triax)
- Connector type: Amphenol triax threaded 11/16-24 (f)

#### Compatibility

- Tesla





### 151-471 — HC Banana & STD Triax Interface Panel

#### Features

- Four pairs standard red and black banana jacks
  - Four force
  - Four ground
- Includes grounding strap

#### Specifications

- Maximum current (Pulse): 100A, (PW $\leq$ 1ms, Duty ratio  $\leq$ 1%)
- Max Voltage: 500V
- Connector type: Banana jack

#### Compatibility

- Tesla



### 162-085 — HV Triax Connector Cable, Interface Panel to HV Coax

#### Features

- Provides connection between HV triax interface panel and coaxial instruments

#### Specifications

- Maximum voltage: 3,000V (coax guard-shield connected), 1500V (triax)
- Maximum current (DC): 5A
- Cable length: 3m (9.8-feet)
- Cable characteristics
  - Impedance F-S: 40 $\Omega$
  - Withstand voltage F-S: 3,000V
  - Insulation resistance F-S: > 1T ohm @3000V

#### Terminating connector types

- Amphenol triax threaded, 11/16-24 (m)
  - SHV coaxial (m)
- Guard of HV triax connects cable shield

#### Compatibility

- Tesla



### 151-472 — Safety interlock Cable, 3 m

#### Features

- Provides the interlock connection between the test instrument and the Tesla station safety light curtain

#### Specifications

- Cable length: 3 m (9.8-feet)

#### Compatibility

- Tesla



## Common Probes

### 149-976 — High Voltage Chuck Floating Plug

#### Product Features

- Provides the floating chuck connection for the Tesla high-power chuck
- Safety interlock connection



#### Specifications

- Dual triax connection
- Maximum voltage: 10,000V

#### Station Compatibility

- Tesla

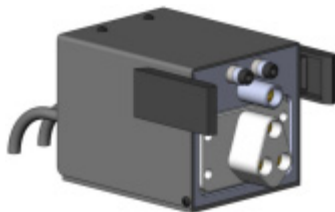
#### Ordering Information

- Chuck Guard terminal connects to Chuck Shield terminal.

### 149-977 — High Voltage Chuck Shorting Plug

#### Product Features

- Provides the shorting chuck connection for the Tesla high-power chuck
- Safety interlock connection



#### Specifications

- Dual triax connection
- Maximum current (DC): 10A
- Maximum current (Pulse): 100A, (PW<=1ms, Duty ratio <=1%)

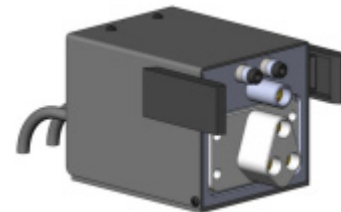
#### Station Compatibility

- Tesla

### 149-978 — Chuck Cable, High Voltage Chuck to Agilent High Voltage Connector (m), 1.5 m

#### Product Features

- Provides dual triax connection between the high voltage Tesla chuck and Agilent B1505A HVSMU
- Low-leakage
- Low resistance, high voltage, high-current cable



#### Specifications

- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech high voltage chuck connector, Agilent high voltage connector (m)
- Cable length: 1.5 m (4.92-feet)

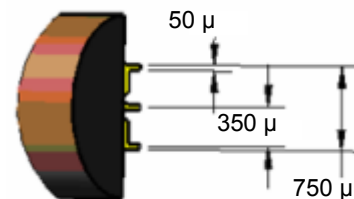
#### Station Compatibility

- Tesla

### HCP-TIP-3-350 — HC Replaceable Probe Tips, 5-pack

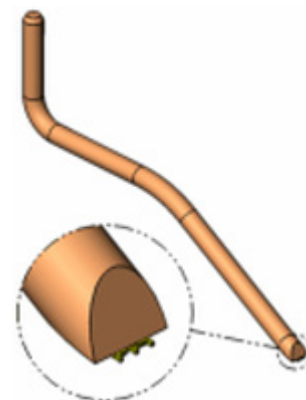
#### Features

- Includes five tips for use with the HCP-1-B, high current parametric coax
- Patented tip design provides low contact resistance and superior current dissipation



#### Specifications

- Maximum voltage: 500V DC
- Maximum current: 100A (PW<=1ms, Duty ratio <=1%)
- Tip material: Tungsten
- Number of tips: 3
- Tip pitch: 350 μm
- Total footprint: 750 μm
- Typical contact resistance on Al: 20mΩ
- Recommended range of overtravel: 150 μm to 200 μm
- Contact force: 20 gms per tip (60 grams total) @ 100 μm overtravel
- Scrub: 60 μm to 80 μm



#### Compatibility

- Tesla

## High Power Chuck Connection Cables

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### 149-979 — HV Tesla Chuck Cable, HV Chuck Connector-Std Triax (m) Connector, 1.5m

#### Features

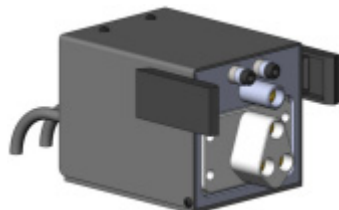
- Provides connection between the HV Tesla chuck and test instruments
- Low resistance, HV, HC cable

#### Specifications

- Maximum voltage: 500V DC
- Maximum current: 5A (pulse)
- Connector type: Cascade Microtech HV chuck connector, standard triax (m)
- Cable length: 1.5 m (5-feet)

#### Compatibility

- Tesla



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### 151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m

#### Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-current cable

#### Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech high voltage chuck connector, BNC connector (m)
- Cable length: 1.5 m (4.92-feet)

#### Station Compatibility

- Tesla

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### 149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m

#### Features

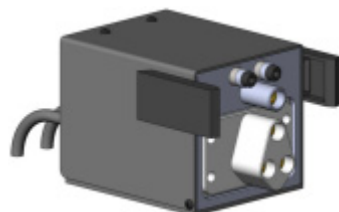
- Provides connection between the HV Tesla chuck and test instruments
- Low resistance, HV, HC cable

#### Specifications

- Maximum voltage: 10000V DC
- Maximum current: 100A (pulse)
- Connector type: Cascade Microtech HV chuck connector, banana jack
- Cable length: 1.5 m (5-feet)

#### Compatibility

- Tesla



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### 151-257 — HV Tesla Chuck Cable, HV Chuck Connector-CMI HV (m) Connector End, 1.5m

#### Features

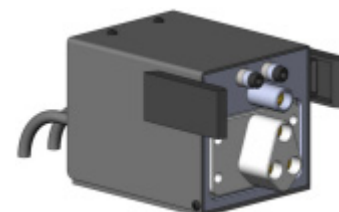
- Provides connection between the HV Tesla chuck and CMI HV Amphenol feed-thru panel
- Low leakage, low-resistance, HV, HC cable

#### Specifications

- Maximum voltage: 3000V (coax), 1500V (triax)
- Connector type: Cascade Microtech HV chuck connector, CMI HV Amphenol (m)
- Cable length: 1.5 m (5-feet)

#### Compatibility

- Tesla



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### 149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m

#### Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-current cable

#### Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech high voltage chuck connector, SHV connector (f)
- Cable length: 1.5 m (4.92-feet)

#### Station Compatibility

- Tesla