›Probe Station Accessory Catalog

The FormFactor Complete Set of Accessories for your Probe Station

FormFactor™

Contents

Note

Compatible accessories described in this section and throughout this catalog can be configured with the FormFactor CM300xi or CM300 probe systems.

CM300xi with TopHat

Connection Panels

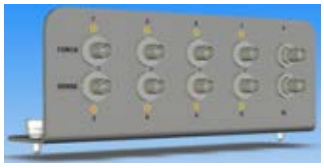
167-117 — Connection Panel

Features

- Complete kit of cable connection panels and accessories
- Optimized for CM300xi 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 Triax connection panels
  - Each panel features 8 Triax (3-lug) feed through connectors (f), and 2 BNC (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).



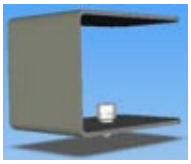
Triax connection panel (front view)

Triax connection panel (top view)

- 1 coaxial connection panel – each panel features 10 BNC (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

- CM300xi

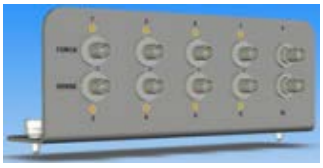
780-00937 — Triax Connection Panel

Features

- Optimized for CM300xi and Elite 300 universal accessory mounting rail system
- Panels can be mounted on the platen in any location (left, right and back sides of the probe station platen)

Kit Contents

- 2 Triax connection panels:
  - Each panel features 8 Triax (3-lug) feed through connectors (f), and 2 BNC (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)



Triax connection panel (front view)

Triax connection panel (top view)

Compatibility

- CM300xi

Mounting Kits, Plates, and Miscellaneous Accessories

143-428 — Keysight 42941A Mounting Kit

Features

- Mounting bracket to hold Keysight 42941A probe
- Compatible with CM300xi and Elite 300 RPP305 positioners

Kit Contents

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

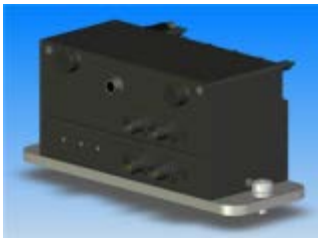
Compatibility

- CM300xi, 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

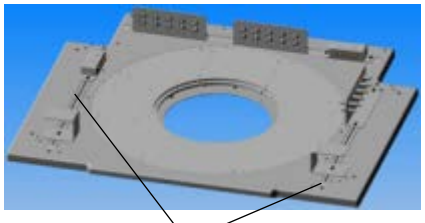
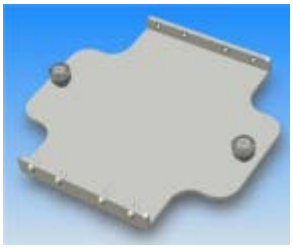


Plate mounts on universal accessory mounting rails

Compatibility

- CM300xi, Elite 300

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



Mounted plate

Keysight ASU mounted to plate

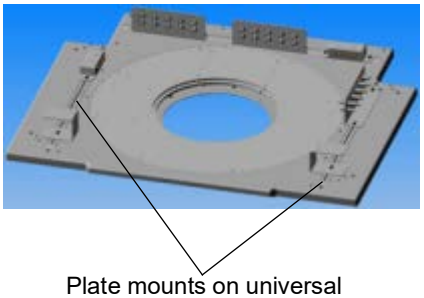


Plate mounts on universal accessory mounting rails

Compatibility

- CM300xi, Elite 300

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 CM300xi
- Compatible with RPP305 positioners
- Compatible with MicroChamber TopHat

Compatibility

- CM300xi, Elite 300

163-755 — DPP2xx 43mm Probe Mount Adapter

Features

- Adapter converts existing Elite 300 DCP probes and needle probe mounts for use with CM300xi
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials

Compatibility

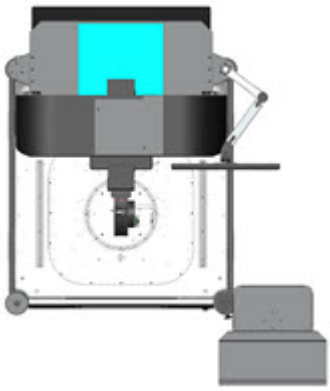
- CM300xi, Elite 300

INSTRUMENT SHELVES

161-695 — Instrument Shelf

Features

- Shelf system easily attaches to the CM300xi system frame
- Instruments and accessories can be conveniently placed at the rear of the CM300xi
- Instrument shelf is positioned forward over the CM300xi platen surface, allowing test instruments to be located close to probes for shortest cable interconnects



Specifications

- Minimum clearance under the HTS transport: 3HU (133.4 mm [5.25 in])
- Maximum supported instrument load: 50 kg (110 pounds)
- Dimensions (WxDxH):1140 x 590 x 25 mm (44.9 x 23.2 x 1 in)
- Weight: 15 kg (33 pounds)

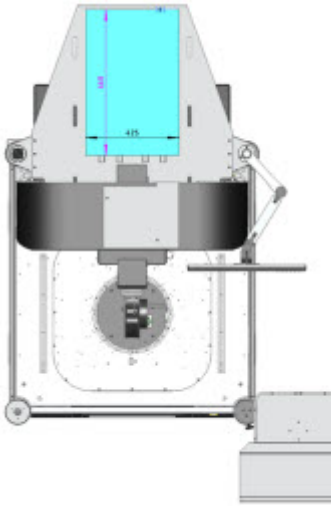
Compatibility

- CM300xi

176-613 — Large Instrument Shelf

Features

- Large shelf for measurement equipment
- Centered at the rear side of the table, behind the microscope bridge, to allow for large equipment height
- Enables placement of instruments up to 680 mm deep behind the microscope bridge
- For use with the shortest noise and RF application measurement cables
- Includes post



Specifications

- Maximum supported instrument load: 150 kg (330 pounds)
- Maximum depth for instrument: 680 mm (26.7 in)
- Maximum width between lead-through for straps: 520 mm (20.4 in)
- Weight (including post): 36 kg (80 pounds)

Compatibility

- CM300xi

176-911 — Left Side Instrument Shelf

Features

- Tray assembly mounts on both CM300 left side posts
- Well suited for applications requiring short cabling (e.g., low-noise and RF applications)

Specifications

- Maximum load: 50 kg (110 lb)
- Shelf area (WxD): 488 x 600 mm (19.2 x 23.6 in), adapted for Keysight B1505 footprint
- Height above probe platen: 225 mm (8.9 in)

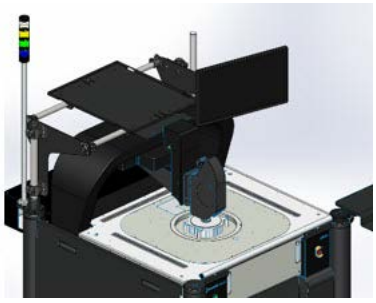
Compatibility

- CM300 semi-automated probe stations only
- Compatible with rear shelves 161-695 and 176-613

780-01342 — Top Instrument Shelf

Features

- Footprint optimized Top Shelf mounted on rear posts
- Does not add to the overall footprint of the prober
- Designed for placement of instruments above microscope transport, close to the center of the prober, enabling short probe interconnect cable lengths



Specifications

- Tray dimension (WxD): 494 x 606 mm (19.4 x 23.9 in)
- Cannot be combined with other instrument shelves

Compatibility

- CM300xi
- Incompatible with other shelf types
-

Miscellaneous Cryogenic and Vacuum System Accessories

49827 — LN_2 Transport Dewar, 120l

Features

- Tank head with safety valve, fill level gauge, central ball valve with 12 mm (0.5 in) 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

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

Features

- Flexible
- Male-right angle male
- Cable length: 0.8 m (32 in)

Compatibility

- PMC200, PMV200, PLV50

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 (0.5 in) quick lock fitting
- Two side-gated ball valves for pressure relief and bypass valve

Specifications

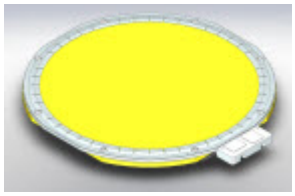
- Maximum overpressure 1.2 bar gauge pressure

Compatibility

- Cryogenic systems only

PMC200 Wafer Carriers

128027 — Wafer Carrier, 200 mm, PMC200



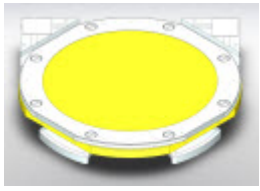
Features

- For mounting, fixing and handling of SEMI standard 200 mm (8 in) wafers with FormFactor 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

130476 — Wafer Carrier, 100 mm, PMC200



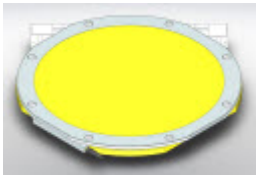
Features

- For mounting, fixing and handling of SEMI standard 100 mm (4 in) wafers with FormFactor 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

130474 — Wafer Carrier, 150 mm, PMC200



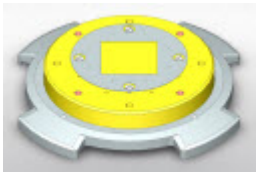
Features

- For mounting, fixing and handling of SEMI standard 150 mm (6 in) wafers with FormFactor 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

133758 — Substrate Holder, 4K, PMC200



Features

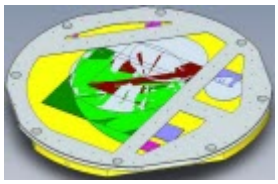
- For mounting, fixing and handling of small substrates, maximum size 25 x 25 mm (1 x 1 in), with FormFactor cryogenic probe stations. Size and shape of the substrate needs to be specified with the order.
- Includes additional cold shield for achieving lowest sample temperature
- Mounting outside vacuum 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

136397 — Universal Carrier, PMC200

Features



- For mounting, fixing and handling of substrates of different shapes or wafers up to 75 mm (3 in) with FormFactor 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

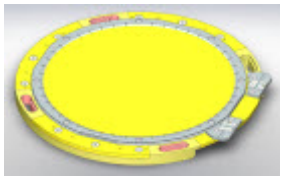
- Maximum substrate dimensions:
  - 76.2 mm (3 in) (full wafer)
  - 150 mm (6 in) (quartered wafer)
  - 76.2 x 76.2 mm (3 x 3 in) or 50 x 110 mm (2 x 4.3 in)

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

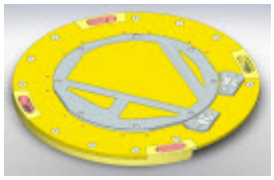
Specifications

- Maximum substrate dimensions:
  - 76.2 mm (3 in) (full wafer)
  - 150 mm (6 in) (quartered wafer)
  - 76.2 x 76.2 mm (3 x 3 in) or 50 x 110 mm (2 x 4.3 in)
- Temperature range: -60° to +200°C (-76° to +392°F)

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

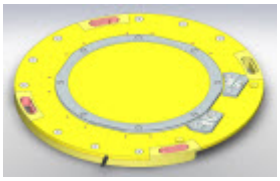
Specifications

- Maximum substrate dimensions:
  - 76.2 mm (3 in) (full wafer)
  - 150 mm (6 in) (quartered wafer)
  - 76.2 x 76.2 mm (3 x 3 in) or 50 x 110 mm (2 x 4.3 in)
- Temperature range: -60° to +200°C (-76° to +392°F)

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

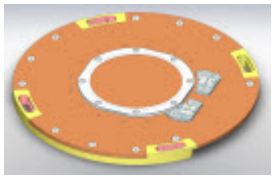
Specifications

- Temperature range: -60° to +200°C (-76° to +392°F)

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

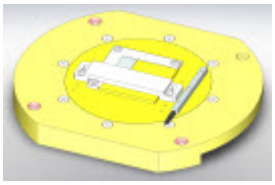
- Temperature range: -60° to +200°C (-76° to +392°F)

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

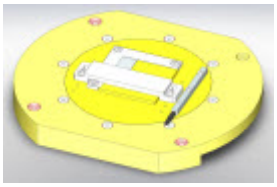
Specifications

- Maximum substrate dimensions:
  - 50.8 mm (2 in) (full wafer)
  - 100 mm (4 in) (quartered wafer)
  - 50.8 x 50.8 mm (2 x 2 in)
- Temperature range: -60° to +200°C (-76° to +392°F)

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

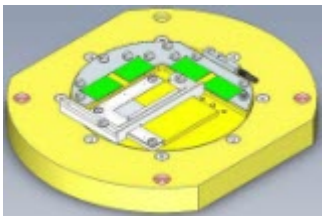
Specifications

- Maximum substrate dimensions:
  - 50.8 mm (2 in) (full wafer)
  - 100 mm (4 in) (quartered wafer)
  - 50.8 x 50.8 mm (2 x 2 in)
- Temperature range: -60° to +200°C (-76° to +392°F)

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

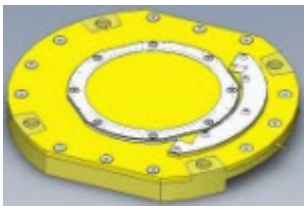
Specifications

- Maximum substrate dimensions:
  - 50.8 mm (2 in) (full wafer)
  - 100 mm (4 in) (quartered wafer)
  - 50.8 x 50.8 mm (2 x 2 in)
- Temperature range: -60° to +200°C (-76° to +392°F)

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° to +200°C (-76° to +392°F)

Compatibility

- PLV50

Test Interface Feedthroughs

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

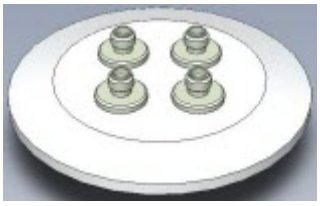
Features

- 4 pcs. hermetically sealed bulk feedthrough type W.W. Fischer WDE103 on 100 mm flange
- 4 pcs. low-noise triax cable 2 m (6.5 ft)

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

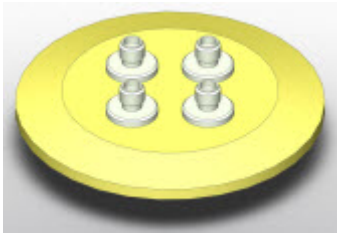
Features

- 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

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

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

- CM300xi, 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

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

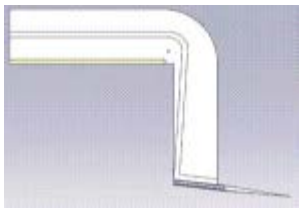
Ordering Information

Part Number	Size	Compatibility
107-157	1.5 µm (0.06 mils)	DCP-115R
107-158	5.0 µm (0.2 mils)	DCP-150R
107-159	0.5 µm (0.02 mils)	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 µm (0.75 mils) diameter
- 10 µm (0.39 mils) diameter

Kit Contents

- Box of 10

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

Ordering Information

Part Number	Tip Radius
154-001	19 µm (0.75 mils)
154-003	10 µm (0.39 mils)

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

Features

- Tungsten carbide tip

Specifications

- 1.2 µm (0.05 mils)
- Straight

Kit Contents

- 25 tips per set

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

PTS 24-25 — Specialty Probe Tip, Osmium

Features

- Osmium tip

Specifications

- 2.4 µm (0.09 mils)

Kit Contents

- 25 tips per set
- Straight

Compatibility

- CM300xi, 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 µm (0.09 mils)
- 45 degree bend

Kit Contents

- 25 tips per set

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

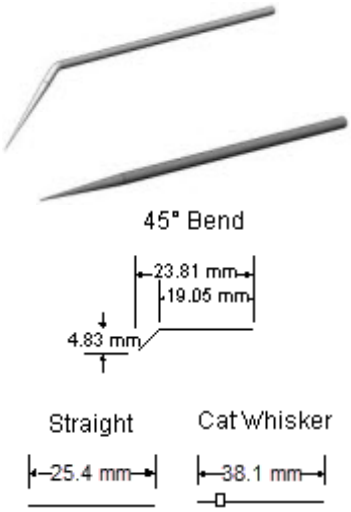
PTT Probe Tips

Features

- Low cost
- Easily replaceable
- Durable

Specifications

- Tip material: Tungsten
- Tip diameters shown below
- Shaft diameter: 0.5 mm (0.020 in)



Kit Contents

- 25 tips per set

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, M150, S300, Alessi

Ordering Information

Part Number	Type	Size
PTT-06-25	Straight	0.6 µm (0.002 mils)
PTT-12-25	Straight	1.2 µm (0.05 mils)
PTT-24-25	Straight	2.4 µm (0.09 mils)
PTT-120-25	Straight	12 µm (0.47 mils)
PTT-250-25	Straight	25 µm (0.98 mils)
PTT 1200-25	Straight	120 µm (4.7 mils)
PTT 1500-25	Straight	150 µm (5.9 mils)
PTT-06/4-25	45° Bend	0.6 µm (0.02 mils)
PTT-12/4-25	45° Bend	1.2 µm (0.05 mils)
PTT-24/4-25	45° Bend	2.4 µm (0.09 mils)
PTT-120/4-25	45° Bend	12 µm (0.47 mils)
PTT-250/4-25	45° Bend	25 µm (0.98 mils)
PTT-70-25	Catwhisker	0.07 µm (0.003 mils)

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

- 70 mm (2.8 in) 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 1500 mm (59 in)
- 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 500 mm (19.7 in)
- 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 ft)

Kit Contents

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

Compatibility

- CM300xi, 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 in)
- Large to small triax (male to male)

Compatibility

- CM300xi, Elite 300, Summit, M150, S300, Alessi

104-334 — Triax Extension Cable, 53 cm

Features

- Extends existing triax cables

Specifications

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

Compatibility

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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: 1.8 m (6-feet) (male to male)

Compatibility

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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 ft)
- BNC male to 2-pin Molex (female) connector cable

Compatibility

- CM300xi, 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: ~120 cm (48 in)

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: ~120 cm (48 in)
- 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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

127-911 — 42941 Holder and Cable

127-911

RPP305-EW-SU-AI

Features

- Holds the 42941 capacitance meter impedance positioner

Specifications

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

Compatibility

- Summit
- RPP305-EW-EL-AI, 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 in)
- Large to small triax (male to male)

Compatibility

- CM300xi, Elite 300, Summit, M150, S300, Alessi

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

Features

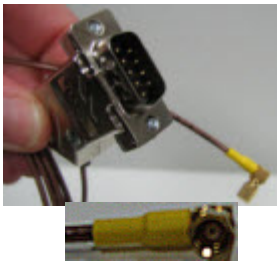
- Connects the SSMC and DCP-HTR probe

Specifications

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

Compatibility

- CM300xi, Elite 300, Summit, M150, S300, Alessi



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

Features

- Connects the SMA and BNC connector

Specifications

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

Compatibility

- CM300xi, Elite 300, Summit, M150, S300, Alessi

DC/CV Adapters

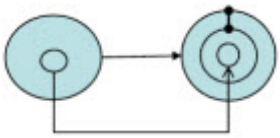
104-341 — Triax to BNC Adapter, Guard Shorted

Features

- Adapts triax to BNC connection

Specifications

- Guard shorted (male to female)



Compatibility

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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 in)
- Ground unit bulkhead adapter

Compatibility

- CM300xi, 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

- CM300xi, 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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

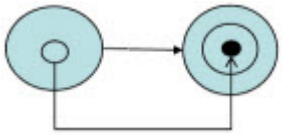
104-803 — Triax to BNC Adapter, Guard Floated

Features

- Adapts triax to BNC connection

Specifications

- Guard floated (male to female)



Compatibility

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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

- CM300xi, 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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

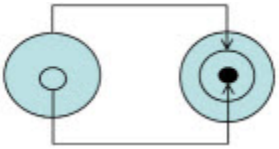
106-837 — Triax to BNC Adapter, Guard Thru, No Shield

Features

- Adapts triax to BNC connector

Specifications

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



Compatibility

- CM300xi, Elite 300, Summit, M150, S300, Alessi

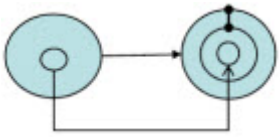
108-714 — Adapter BNC Female to Triax Female, Guard Short

Features

Adapts triax to BNC connector

Specifications

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



Compatibility

- CM300xi, 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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

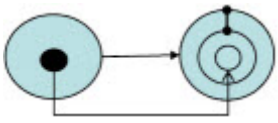
108-716 — Adapter, BNC Male to Triax Female, Guard Short

Features

- Adapts triax to BNC connector

Specifications

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



Compatibility

- CM300xi, 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

- CM300xi, 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 in), with DCP/DCP clip

Compatibility

- CM300xi, 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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

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

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

- CM300xi, Elite 300, Summit, M150, S300, Alessi

Ordering Information

- Part Number: See specifications table for cable length selection

PN	Cable length
MAE-44/6	152 mm (6 in)
MAE-44/12	305 mm (12 in)
MAE-44/18	457 mm (18 in)
MAE-44/24	610 mm (24 in)

Station Accessories

Connection Panels

141-790 — Connection Panel

Features

- Complete kit of cable connection panels and accessories
- Optimized for CM300xi 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 Triax connection panels
  - Each panel features 8 Triax (3-lug) feed through connectors (f), and 2 BNC (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).

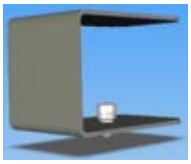
Triax connection panel (front view)

Triax connection panel (top view)

- 1 coaxial connection panel – each panel features 10 BNC (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

177-398 — Dual LCD Monitor

Features

- Adds second LCD screen (20 in) 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 5-13 kg [12-29 lb])
- Monitor arm has 406 mm (16 in) height range and tilt/swivel adjustment
- VESA mounting plates (70/100 mm [2.8/3.9 in])
- 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)

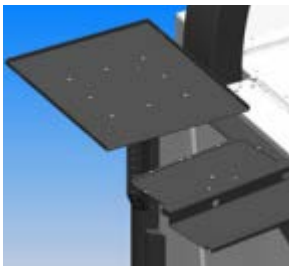
Compatibility

- 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 lb)
- Dimensions
  - Platform (W x D): 43 x 53 cm (21 x 17 in), Adjustment height: 30.5 cm (12 in)
  - Keyboard/mouse tray (W x D): 50.8 x 44.45 cm (20 x 17.5 in)
  - Adjustment height: None
- Weight
  - Platform and mounting arm: 13.166 kg (29 lb)
  - Keyboard/mouse tray: 9.988 kg (22 lb)

Kit Contents

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

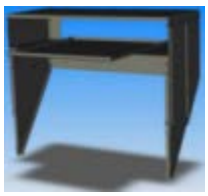
Compatibility

- 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

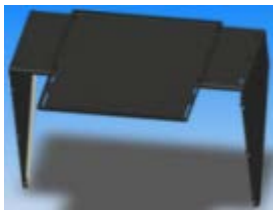


Complete rear instrument shelf system

- 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

Specifications

- Maximum supported instrument load
  - Lower shelf and tray: 90.8 kg (200 lb)
  - Upper shelf: 45.4 kg (100 lb)
- Dimensions
  - Lower shelf (WxDxH): 120 x 46 x 76.8 cm (47.24 x 18.11 x 30.23 in)
  - Lower tray (WxD): 75 x 75 cm (29.52 x 29.52 in), Adjustment forward: 29 cm (11.41 in)
  - Upper shelf (WxD): 120.6 x 47.9 cm (47.48 x18.86 in), Adjustment height: 24.4 cm (9.60 in)
- Weight
  - Lower shelf and tray: 14.98 kg (33 lb)
  - Upper shelf: 12.26 kg (27 lb)



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

Floor restraint bracket

Compatibility

- Elite 300

Mounting Kits, Plates, and Miscellaneous Accessories

143-428 — Keysight 42941A Mounting Kit

Features

- Mounting bracket to hold Keysight 42941A probe
- Compatible with CM300xi and Elite 300 RPP305 positioners

Kit Contents

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

Mounting bracket shown on RPP305 positioner with Keysight high impedance probe

Compatibility

- CM300xi, Elite 300

143-429 — Mounting Plate for B1500A SCUU

Mounted plate

Keysight SCUU mounted to plate

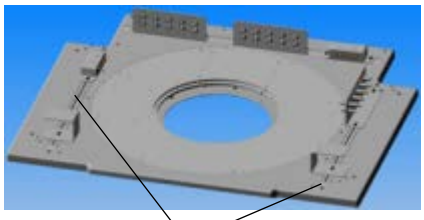
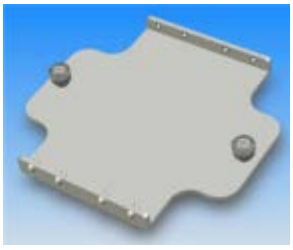


Plate mounts on universal accessory mounting rails

Compatibility

- CM300xi, Elite 300

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



Mounted plate

Keysight ASU mounted to plate

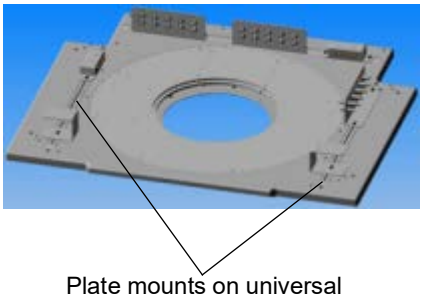


Plate mounts on universal accessory mounting rails

Compatibility

- CM300xi, Elite 300

177-560 — Top Hat Assembly, 4 Port, 300 mm

Features

- Enables the use of single or dual Keysight N5291 modules with Infinity and ACP probes on CM300xi and Elite 300 stations with MicroChamber
- Enables full thermal capability

Configuration

- Intended for use with positioner assemblies RPP404-EW-120 and RPP404-W-120, RPP304-NS-67

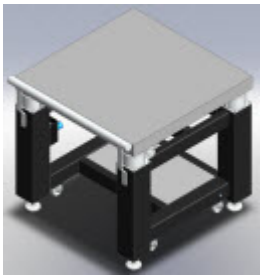
Compatibility

- CM300xi, Elite300

Lab Accessories and Miscellaneous

Tables

115405 — Vibration Isolation Table, VIT801



Features

- 1 pressure input regulator with gauge
- Storage shelf 550 x 320 mm (21.6 x 12.6) at rear bottom
- Support arm systems optionally available

Specifications

- W x D x H = 800 x 800 x 750 mm (31.5 x 31.5 x 29.5 in)
- Adjustable two-chamber air damping system with resonance frequency of 2.5Hz
- Automatic load leveling
- Max. load capacity: 360 kg (794 lb)
- Air pressure required: ~1.5 to 4 bar, depending on load
- Normal working pressure: 2 to 3.5 bar

Compatibility

- PA200, PM8, MPS150, EPS150

117931 — SE1200 EMC Adapter for VIT951/PA300

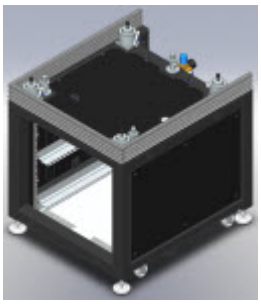
Features

- 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 483 mm (19 in) devices
- Equipped with docking points for upgrade with BlueRay Loader Module to fully automatic probe station
- Requires compressed air (min. 6 bar, 8 mm [0.31 in] hose).
- Measurement shelf and monitor/keyboard arm optionally available

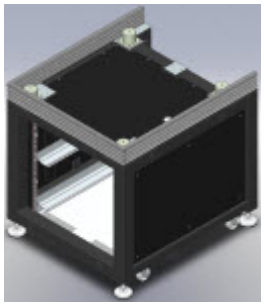
Specifications

- W x D x H = 700 x 700 x 750 mm (27.5 x 27.5 x 29.5 in)
- 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 483 mm (19 in) 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 x D x H = 700 x 700 x 750 mm (27.5 x 27.5 x 29.5 in)

Compatibility

- PA200 BlueRay, PA200 DS BlueRay, APS/SPS200TESLA

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

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 (W x D): 1016 x 1016 mm (40 x 40 in)
  - Table operating height: 813 mm (32 in)
- Weights:
  - Steel tabletop:104 kg (230 lb)
  - Complete system (including tabletop): ~218 kg (~480 lb)
- Operation:
  - Optimum air pressure: 25 - 60 psi
  - Input air pressure: min 20 psi (approx.) - max 80 psi
  - Max weight capacity 703 kg (1,150 lb) (@ 80 psi)
  - Optimum load on the tabletop is 90-363 kg (200-800 lb)(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 12000 series probe station or equivalent load)

Compatibility

- Summit, M150, BTS

177-396 — 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 (W x D): 1016 x 1016 mm (40 x 40 in)
  - Table operating height: 813 mm (32 in)
- Weights:
  - Steel tabletop:104 kg (230 lb)
  - Complete system (including tabletop): ~218 kg (~480 lb)
- Operation:
  - Optimum air pressure: 25 - 60 psi
  - Input air pressure: min 20 psi (approx.) - max 80 psi
  - Max weight capacity 703 kg (1,150 lb) (@ 80 psi)
  - Optimum load on the tabletop is 90-363 kg (200-800 lb) (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 12000 series probe station or equivalent load)

Compatibility

- Summit

143-567 — Side Instrument Shelf for Table

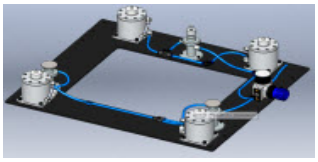
Features

- 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 (W x D): 533 x 1016 mm (21 x 40 in), positioned with a 25.4 mm (1 in) space between the side shelf and main steel tabletop
  - Table width (with 2 side shelves installed, left and right): 2184.4 mm (86 in)

169-130 — Vibration Isolation Platform VIP601



Features

- Compact, vibration dampening platform
- Suitable for MPS150 and EPS150 probe stations

Specifications

- Dimensions (WxDxH): 598 x 530 x 87 mm (23.5 x 20.9 x 3.4 in)
- Max. load at 4 bar: 530N per damper
- Max load capacity at nominal pressure (4 bar): 200 kg
- Internal frequency: 2.5 Hz (vert.), 2.5 Hz (hor.), depending on load

Compatibility

- MPS150, EPS150 and also with SE750

171-512 — Optional Cover and Earthquake Kit for VIP601

Features

- Cover for VIP601
- Earthquake protection

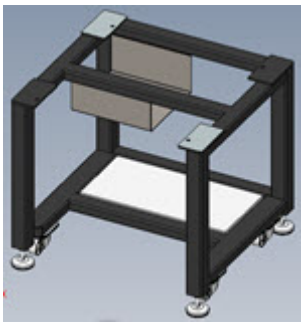
Specifications

- Fixed link between probe station and platform provides seismic stability
- Enables probe station movement together with the platform in case of relocation or a seismic event

Compatibility

- VIP601
- Not configurable with EPS-ACC-SE750-COAX and EPS-ACC-SE750-TRX (earthquake protection already included)

146117 — Table for SE750



Features

- Table for SE750 Shield Enclosure
- Heavy duty frame
- Integrated rolling casters

Specifications

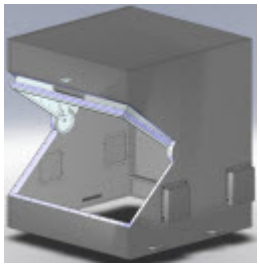
- Dimensions (WxDxH): 720 x 668 x 653 mm (28.3 x 26.3 x 25.7 in)

Compatibility

- Shield Enclosure SE750 is required
- Configuration with VIP601 requires SE750
- Configuration with station requires SE750

Shield Enclosures/Dark Boxes

111650 — Shield Enclosure, SE1200 EMC



Features

- For standard probe systems PM300 and PA300 (others on request).
- Light-tight, electrically grounded and optimized design for EMC shielding
- Vizor opening
- Requires additional feed-throughs and table adaptation
- Requires EMO option in combination with (semiautomatic) PA300.
- Inside light and interlock switch optional
- Clean room compliant field upgrades are not possible
- Four people are required to complete field upgrade installation

Specifications

Required floor space:

- Width = 1.5 m (59 in)
- Depth = 1.3 m (51.2 in)
- Height (with table): 2.1 m (82.7 in)

Compatibility

- PA300, PM300

138121 — Shield Enclosure, 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
- Clean room compliant field upgrades are not possible
- Four people are required to complete field upgrade installation

Specifications

Required floor space:

- Width = 1.3 m (51.2 in)
- Depth (with front lid opened) = 2 m (78.7 in)
- Height (with table and front lid opened): 2.5 m (98.4 in)
- Requires:
  - Adaptation to VIT70x (PN 138390)
  - VIT700 (PN 138815) or VIT701 (PN 135100) for BlueRay
  - Adaptation SE1000EMC to VIT801 (PN 119585)
  - 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

Compatibility

- PA200, PA200 BlueRay, PM8, MPS150, EPS150

100689 — EMC Light-Tight Feedthrough

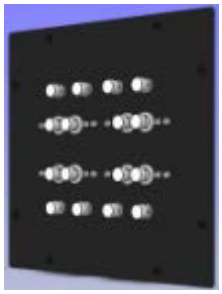
Features

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

Compatibility

- Shield enclosures: SE750, SE1000, SE1200

112391 — EMC Test Equipment Interface, Kelvin



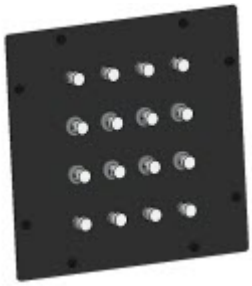
Features

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

Compatibility

- Shield enclosures: SE750, SE1000, SE1200

112392 — EMC Test Equipment Interface, Standard



Features

- For adapting test equipment
- One plate with 8 triax-triax and 8 coax-coax feedthroughs

Compatibility

- Shield enclosures: SE750, SE1000, SE1200

EPS-ACC-SE750-COAX — Shield Enclosure

Features

- Light-tight and EMI-shielded environment
- Stable table required as base
- Includes media feedthrough, test equipment interface with 5 coax-coax measurement feedthroughs, and opening for one additional test equipment interface

Specifications

- Width: 750 mm (29.5 in)
- Depth: 750 mm (29.5 in)
- Height: 820 mm (32.3 in) (door closed), 1620 mm (63.8 in) (door open)
- DC-noise reduction (1 Sigma) between -20dB and -40dB depending on measurement environment
- Depending on measurement environment up to 100 femtoampere (fA) will be possible

Compatibility

- EPS150, MPS150 (without laser cutter)

EPS-ACC-SE750-TRX — Shield Enclosure

Features

- Light-tight and EMI-shielded environment
- Stable table required as base
- Includes media feedthrough, test equipment interface with 1x12 mm RF and 6x triax-triax measurement feedthroughs, and opening for one additional test equipment interface

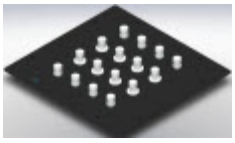
Specifications

- Width: 750 mm (29.5 in)
- Depth: 750 mm (29.5 in)
- Height: 820 mm (32.3 in) (door closed), 1620 mm (63.8 in) (door open)
- Depending on measurement environment up to 100 femtoampere (fA) will be possible

Compatibility

- EPS150, MPS150 (without laser cutter)

112392 — EMC Test Equipment Interface, Standard



Features

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

Compatibility

- Shield Enclosures

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 (13 in)
- Tilt/Pan: 80°/180°, rotation: 90°

Compatibility

- PA300, PA300PS-MA, PA200 BlueRay, VIT801

148858 — Dual 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 (13 in)
- Tilt/Pan: 80°/180°, rotation: 90°
- Dual DVI-card for control PC included

Compatibility

- PA300, PA300PS-MA, PA200 BlueRay, VIT801

138846 — Control Console

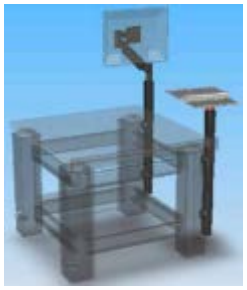
Features

- 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, PA200 BlueRay, VIT801

177-395 — 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

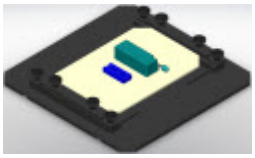
- Supports LCD monitor with VESA mount (weight range 5-13 kg [12-29 lb])
- Monitor arm has 406 mm (16 in) height range, and tilt/swivel adjustment
- VESA mounting plates (70/100 mm)
- Accessory mounting posts (2) are height adjustable

Compatibility

- 142-032

Miscellaneous Accessories

100422 — Textool Socket Adapter



Features

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

Compatibility

- Vacuum chucks

100539 — Vacuum Switches for HF Chuck

Features

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

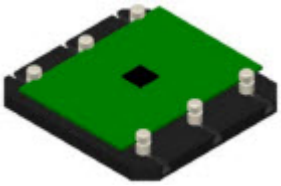
Specifications

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

Compatibility

- PA300, PM300, PA200, PM8, PM300PS

157-842 — Universal DUT Board Holder



Features

- For isolated holding of PC boards with up to 150 mm (6 in) width
- Adapter is vacuum clamped onto chuck

Specifications

- Max. board thickness up to 2.5 mm (0.09 in)
- DUT will be located 20 mm above chuck top surface
- Height of DUT holder might restrict chuck movement range due to mechanical platen conflict

Compatibility

- MPS150, PM8, PA200, PM300

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

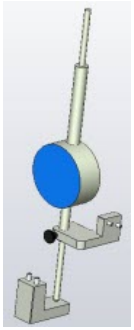
Specification

- 10 µm (0.39 mils) division marks
- 1 turn = 1 mm (0.04 in)
- 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

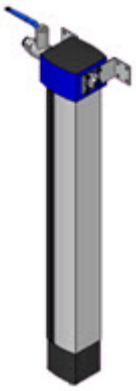
Specification

- 10 µm (0.39 mils) division marks
- 1 turn = 1 mm (0.04 in)
- Adjustable 0 position

Compatibility

- MPS150 (MMW platen)

164-917— Air Drying Unit



Features

- Membrane air dryer (internal purge air consumption 120 l/min [4.2 CFM])
- Integrated nano filter
- No electric power required
- Designed for wall mounting

Specifications

- Dimensions (HxWxD): 805 x 100 x 81 mm (31.7 x 3.9 x 3.2 in.)
- Input CDA requirements
  - Minimum inlet pressure 7 bar/0.7 MPa/101.5 psi
  - Oil-free, particle-free (<1 µm), pressure dew point < +3°C (37.4°F)
- Outlet pressure dew point depending on inlet pressure, inlet pressure dew point and flow rate
- Purge air 120 l/min (4.2 CFM)
- Requires yearly exchange of filter unit

Application Example

- Inlet pressure 7 bar/0.7 MPa/101.5 psi, inlet pressure dew point +3°C (37.4°F), inlet air flow 570 l/min (20.1 CFM)
- Outlet pressure dew point < -20°C (-4°F)
- Outlet air flow 450 l/min (15.9 CFM)

183-000 — Portable Vacuum System

Features

- Medium capacity portable vacuum system for manual and semiautomatic probe stations and vacuum based accessories
- Intended for facilities without house vacuum system

Specifications

- Oil-less design, noise level typ. 45dBA
- Rated power 40W, safety class IP40, 5 kg (11 pounds)
- Air flow 11.3/14.2 l/min (0.4/0.5 CFM) (50/60Hz) @ vacuum 75 torr
- Air flow 11.7/14.2 l/min (0.4/0.5 CFM) (50/60Hz) @ vacuum 100 mbar
- Rated for 100% continuous duty
- Switchable 100-120V or 200-230V @ 50&60Hz (IEC 60320/C15 socket)
- Connector cable purchased separately
- Includes silencer
- Includes 3 m (9.8 ft) connection tube with 8 mm (0.3 in) diameter
- Pump dimensions (L x W x H): 247 x 121 x 145 mm

System Compatibility

- PM5/EPS150, PM8/EPS200, PM300, Summit, PA200/PA200BR, SUMMIT200-SA, T200/TESLA200

183-838 — Vacuum Pump Kit Including Vacuum Buffer Reservoir

Features

- Portable vacuum system for semi- and fully-automated probe stations (e.g., one CM300 with one MHU301)
- Intended for facilities without house vacuum system
- For standard use cases only. In case of non-standard use cases, an additional pump kit (PN 183-000) can be added in parallel

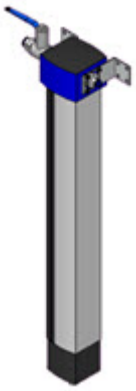
Specifications

- Oil-less design, noise level typ. 45 dBA
- Rated power 40 W, safety class IP40, 5 kg
- Air flow 11.3/14.2 l/min (0.4/0.5 CFM) (50/60Hz) @ vacuum 75 torr
- Air flow 11.7/14.2 l/min (0.41/0.5 CFM) (50/60Hz) @ vacuum 100 mbar
- Rated for 100% continuous duty
- Switchable 100-120 V or 200-230 V @ 50&60 Hz (IEC 60320/C15 socket)
- Connector cable purchased separately
- Includes silencer
- Includes 3 m (10 ft) connection tube with 8 mm (0.3 in) diameter
- Includes 10 l vacuum buffer reservoir
- Dimensions (L x W x H):
  - Pump = 247 x 121 x 145 mm
  - Buffer reservoir = 558 x 162 x 195 mm

Compatibility

- CM300, TESLA300, SUMMIT200-FA, TESLA200-FA

192-085 — Air Drying Unit



Features

- Membrane air dryer (internal purge air consumption 150 l/min [5.3 CFM])
- Integrated nano filter
- No electric power required
- Designed for wall mounting

Specifications

- Dimensions (HxWxD): 805 x 100 x 81 mm (31.7 x 3.9 x 3.2 in.)
- Input CDA requirements:
  - Minimum inlet pressure 7 bar/0.7 MPa/101.5 psi
  - Oil-free, particle-free (<1 µm), pressure dew point < +3°C (37.4°F)
- Purge air 150 l/min (5.3 CFM)
- Outlet pressure dew point depending on inlet pressure, inlet pressure dew point and flow rate
- Requires yearly exchange of filter unit

Application Example

- Inlet pressure 7 bar/0.7 MPa/101.5 psi, inlet pressure dew point +3°C (37.4°F), inlet air flow 390 l/min (13.8 CFM)
- Outlet pressure dew point -45 °C (-49 °F)
- Outlet air flow 240 l/min (8.5 CFM)

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: 3 mm (1/8 in) ID push on connector
- Output connections:1.5 mm (1/16 in) ID

Compatibility

- CM300xi, TESLA300, Elite 300, SUMMIT200, TESLA200, Summit, T200, M150, Alessi

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 = 3 mm (1/8-inch)
- Must be used with steel base

Compatibility

CM300xi, TESLA300, Elite 300, PM300, SUMMIT200, TESLA200, Summit, T200, M150, Alessi

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

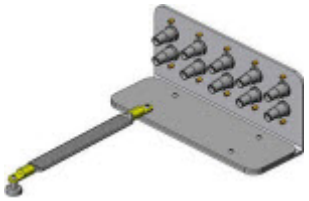
- One 6 port interface

Compatibility

- CM300xi, TESLA300, Elite 300, PM300, SUMMIT200, TESLA200, Summit, T200, M150, Alessi

M150-ACC-19 — Triax Panel, Magnetic Base

Features



- Triax connection panel for convenient cable management
- Magnet base enables convenient placement based on your positioner location
- 10 Triax (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

- CM300xi, TESLA300, Elite 300, PM300, SUMMIT200, TESLA200, Summit, T200, M150, Alessi

M150-ACC-28 — Coax Panel, Magnetic Base

Features

- Coxial 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

- CM300xi, TESLA300, Elite 300, PM300, SUMMIT200, TESLA200, Summit, T200, M150, Alessi

Manual Stations

PM8

100507 — Supply Kit for Vacuum Adapter

Features

- For vacuum clamping of positioners on magnetic or HF platen

Compatibility

- PM8

190-243 — ATT Auxiliary Chuck 160/200 mm for ISS up to 22.2mm

Features

- Additional chuck for one calibration Substrate, custom ISS and/or burnishing pad up to 22.2mm*22.2mm, for 160mm 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 100539 for PA200/PM8

Compatibility:

- PA200, PA200 BlueRay, PM8 with 160 mm (6 in) / 200 mm (8 in) ATT thermal chuck

PM300

133270 — Additional Chuck for Two Substrates

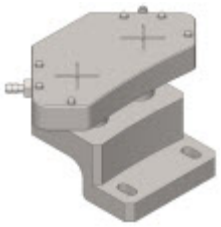
Features

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

Compatibility

- PM300

190-244 — ATT Auxiliary Chuck 300 mm dual for ISS up to 22.2mm



Features

- Additional chuck for two calibration substrates, custom ISS and/or burnishing pad up to 22.2mm*22.2mm, for 300mm ATT thermal chuck
- Can be mounted at front-left position
- Requires vacuum switches for HF chuck (PN 100539)

Compatibility:

- PA300, PM300 with 300 mm ATT thermal chuck, PM300PS

Microscopes

Note

This catalog shows a wide range of microscope solutions and the general compatibility for a platform. To determine compatibility for a specific configuration, refer to the station configuration guide.

eVue V

763-00082 — eVue V 10x, Digital Imaging System

Features

- Maximized field-of-view with ultra-sharp image quality
  - Large 20MP sensor
  - High magnification quality optics
  - Unique Megapixel Mode enables ultra-sharp image quality and video speed of up to 20 fps
- Quick and easy probe tip navigation
  - Maximizes field-of-view
  - High magnification
- Intelligent crash protection
  - Protects valuable equipment from expensive damage, even when probes are in contact
- Advanced slim design
  - Seamless integration of frequency extenders and tuners with shortest distance to the DUT
  - cTUVus certified and CE
  - Compatible with TopHat for perfect shielding
- Application flexibility
  - Ideal for IV/CV, small pad probing, RF/mmW, load-pull, high power and silicon photonics
  - Certified for high-voltage measurements
  - Tested for ultra-low noise measurements
- Seamless integration with Velox Probe Station Control Software
  - Find Focus guarantees a perfect image even with uneven wafers
- Autonomous Measurement Assistants
  - Part of FormFactor's patented Autonomous Measurement Assistants
  - Automated probe-to-pad alignment over a wide temperature range
  - Continuous RF calibration monitoring and re-calibration
  - Increased throughput and highest productivity
- Remote operation
  - eVue V can be conveniently operated from home or anywhere in the world via remote access to Velox Probe Station Control Software

Specifications:

- 20 MP sensor
- 4 mm fine focus Z drive range
- 0.2 µm (0.008 mils) Z drive resolution
- Multi view with two screens
- 20 fps video frame rates
- 0.5 - 5.0X zoom range

Compatibility

All CM300, all SUMMIT200, TESLA300, TESLA200, S12k, S11k, S300, Elite 300, PM300, PM8, MPS150

Requirements:

- Velox 3.4 and above
- A probe station-specific mounting kit must be selected

763-00083 — eVue V 10x Pro, Digital Imaging System

Features

- Maximized field-of-view with ultra-sharp image quality
  - Large 20MP sensor
  - High magnification quality optics
  - Unique Megapixel Mode enables ultra-sharp image quality and video speed of up to 20 fps
- Quick and easy probe tip navigation
  - Maximizes field-of-view
  - High magnification
- Intelligent crash protection
  - Protects valuable equipment from expensive damage, even when probes are in contact
- Advanced slim design
  - Seamless integration of frequency extenders and tuners with shortest distance to the DUT
  - cTUVus certified and CE
  - Compatible with TopHat for perfect shielding
- Application Flexibility
  - Ideal for IV/CV, small pad probing, RF/mmW, load-pull, high power and silicon photonics
  - Certified for high-voltage measurements
  - Tested for ultra-low noise measurements
- Seamless Integration with Velox Probe Station Control Software
  - Up to eight detailed views
  - Find Focus guarantees a perfect image even with uneven wafers
  - CellView allows easy navigation and orientation on parts of the wafer that are out of view
- Autonomous Measurement Assistants

  - Part of FormFactor's patented Autonomous Measurement Assistants
  - Automated probe-to-pad alignment over a wide temperature range
  - Continuous RF calibration monitoring and re-calibration
  - Increased throughput and highest productivity
- Remote operation
  - eVue V can be conveniently operated from home or anywhere in the world via remote access to Velox Probe Station Control Software

Specifications

- 20 MP sensor
- 4 mm fine focus Z drive range
- 0.2 µm (0.008 mils) Z drive resolution
- Multi view with two screens
- 20 fps video frame rates
- 0.5 - 5.0X zoom range

Compatibility

All CM300, all SUMMIT200, TESLA300, TESLA200, S12k, S11k, S300, Elite 300, PM300, PM8, MPS150

Requirements

- Velox 3.4 and above
- A probe station-specific mounting kit must be selected

763-00084 — eVue V 40x Pro, Digital Imaging System

Features

- Maximized field-of-view with ultra-sharp image quality
  - Large 20MP sensor
  - High magnification quality optics
  - Unique Megapixel Mode enables ultra-sharp image quality and video speed of up to 20 fps
- Quick and easy probe tip navigation
  - Maximizes field-of-view
  - High magnification
- Intelligent crash protection
  - Protects valuable equipment from expensive damage, even when probes are in contact
- Advanced slim design
  - Seamless integration of frequency extenders and tuners with shortest distance to the DUT
  - cTUVus certified and CE
  - Compatible with TopHat for perfect shielding
- Application Flexibility
  - Ideal for IV/CV, small pad probing, RF/mmW, load-pull, high power and silicon photonics
  - Certified for high-voltage measurements
  - Tested for ultra-low noise measurements
- Seamless Integration with Velox Probe Station Control Software
  - Up to eight detailed views
  - Find Focus guarantees a perfect image even with uneven wafers
  - CellView allows easy navigation and orientation on parts of the wafer that are out of view
- Autonomous Measurement Assistants
  - Part of FormFactor's patented Autonomous Measurement Assistants
  - Automated probe-to-pad alignment over a wide temperature range
  - Continuous RF calibration monitoring and re-calibration
  - Increased throughput and highest productivity
- Remote operation
  - eVue V can be conveniently operated from home or anywhere in the world via remote access to Velox Probe Station Control Software

Specifications

- 20 MP sensor
- 4 mm fine focus Z drive range
- 0.2 µm (0.008 mils) Z drive resolution
- Multi view with three screens
- 20 fps video frame rates
- 0.5 - 20X zoom range

Compatibility

All CM300, all SUMMIT200, TESLA300, TESLA200, S12k, S11k, S300, Elite 300, PM300, PM8, MPS150

Requirements

- Velox 3.4 and above
- A probe station-specific mounting kit must be selected

eVue V Mounting Kits for SUMMIT200, TESLA200, and S12k

780-01863 — Motorized Z Scope Mounting Kit for SUMMIT200, TESLA200, and S12k

A probe station-specific mounting kit must be selected for the installation of eVue V.

Kit Contents

Each mounting kit contains:

- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

780-01864 — Manual Z Scope Mounting Kit for SUMMIT200, TESLA200, and S12k

A probe station-specific mounting kit must be selected for the installation of eVue V.

Kit Contents

Each mounting kit contains:

- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

780-01865 — Large Area Bridge Mounting Kit for SUMMIT200, and S12k

A probe station-specific mounting kit must be selected for the installation of eVue V.

Kit Contents

Each mounting kit contains:

- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

eVue V Mounting Kit For Manual Probe Stations

780-01867 — Large Area Bridge Mounting Kit for Summit 11k

A probe station-specific mounting kit must be selected for the installation of eVue V on a manual probe station.

Kit Contents

Each mounting kit contains:

- Windows 10 PC with Velox probe station control software
- Monitor / Keyboard / Mouse
- Focus Block
- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

780-01866 — Manual Z-drive Mounting Kit for Summit 11k

A probe station-specific mounting kit must be selected for the installation of eVue V on a manual probe station.

Kit Contents

Each mounting kit contains:

- Windows 10 PC with Velox probe station control software
- Monitor / Keyboard / Mouse
- Focus Block
- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

780-01935 — Mounting Kit for PM8, PM300, and PS150

A probe station-specific mounting kit must be selected for the installation of eVue V on a manual probe station.

Kit Contents

Each mounting kit contains:

- Windows 10 PC with Velox probe station control software
- Monitor / Keyboard / Mouse
- Focus Block
- All necessary adapters for mounting eVue V on the microscope bridge
- All necessary cables
- All necessary screws

Optional eVue Accessories

122-556 — Polarizer/Analyzer Package

Features

- For advanced optical contrast
- For eVue V and Mitutoyo FS70

174-564 — Smart Lens Adapter

Features

- Intelligent objective lens mount
- Automatically detects the lens and all associated calibration data
- No recalibration necessary after lens change

eVue V Pro Package Upgrade Kit

797-00298 — 10x Pro Upgrade

Features

- Multi Camera Imaging
- Adaptive Megapixel Mode
- CellView
- Zoom anywhere
- Detail Views
- Auto Focus

797-00299 — 40x Pro Upgrade

- Multi Camera Imaging
- Adaptive Megapixel Mode
- CellView
- Zoom anywhere
- Detail Views
- Auto Focus

eVue I, II, III, and IV Pro Package Upgrade Kit

131-964 — Pro Package Upgrade Kit for eVue generation I, II and III

Upgrades the basic eVue (generation I, II and III) to include all the features of the PRO features of the PRO.

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

- eVue I, eVue II, eVue III

183-923 — Pro Package Upgrade Kit for eVue IV

Upgrades the basic eVue IV to include all the features of the PRO features of the PRO.

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

- eVue IV

SlimVue

157-459 — SlimVue Microscope

Features

- Unique slim scope design for minimum scope footprint
- Ergonomic design
- 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 13 mm (0.5 in) CCD cameras
- Optical path change-over: Manual Type 100?0/0?100
- Focus unit range: ±25mm (1 in)(4mm [0.2 in]/100µm per turn of coarse/fine focus knob)
- Power adapter 100V-240 V AC 1.6 A with IEC 60320-1-C14 connector
- Approx 5.5 kg (12 lb)

Kit Contents

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

Compatibility

- MPS150, PM8, PM300, PA200, PA300, Summit 11000/12000, PA200 BlueRay, SUMMIT200

Seiwa 888

VMSS-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 355-532 nm
- Zoom 1X wavelength range 532-1064 nm
- Zoom 2X wavelength range 486-656 nm (laser cannot be used on in this position)
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Weight: ~ 6.8 kg (15 lb)
- Dimensions (HxWxD): ~ 460 x 192 x 360 mm (18.1 x 7.5 x 14.2 in)

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 in heavy duty manual focus block
- F3000 LED light source
- C-mount camera adapter (126-260)

Compatibility

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

VMSS-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 486-656 nm
- Zoom 2X wavelength range 486-656 nm
- Brightfield Kohler illumination with field and aperture stop
- Color filter and polarizer/analyzer slots
- Weight: ~ 6.8 kg (15 lb)
- Dimensions (HxWxD): ~ 460 x 192 x 360 mm (18.1 x 7.5 x 14.2 in)

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 in heavy duty manual focus block
- F3000 LED light source
- C-mount video adapter (126-260)

Compatibility

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

Mitutoyo FS70

VMSS-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 -1064 nm laser cutters
- Brightfield Kohler illumination with field and aperture stop
- Weight: ~ 6.4 kg (14.1 lb)
- Dimensions (HxWxD): ~ 360 x 229 x 324 mm (14.2 x 9 x 12.8 in)

Kit Contents

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 51 mm (2 in) heavy duty manual focus block
- F3000 high power light source
- C-mount video adapter

Compatibility

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

VMSS-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
- Weight: ~ 6.6 kg (14.5 lb)
- Dimensions (HxWxD): ~ 360 x 229 x 324 mm (14.2 x 9 x 12.8 in)

Kit Contents

- Microscope body
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2X, 10X, 20X long working distance
- 51 mm (2 in) heavy duty manual focus block
- F3000 high power light source
- C-mount video adapter

Compatibility

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

Motic PSM1000

141763 — Motic PSM-1000 Microscope

Features

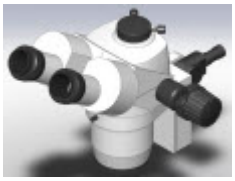
- Microscope body
- Trinocular photo tube
- 1x and 2x VIS body lens
- Objective revolver, rotary type (with 4 mounts)
- Coaxial LED light source
- Two eyepieces: 10x
- Objectives: 2x, 10x, 20x
- Optional polarizer/analyzer capability
- 50mm Focus Block
- Laser ready for 1064, 532, and 355 nm (exchangeable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

Compatibility

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

SMZ-171

780-00602 — Motic Stereozoom Microscope, SMZ-171



Features

- Light source for optical fiber with control unit (100-240 V/50-60 Hz)
- Ring light with 1m optical fiber
- 2x widefield eyepieces 30x
- Trinocular - TV option possible
- Microscope fixation ring with manual focus drive

Specifications

- Zoom Range 6.7:1
- Working distance 110 mm (4.3 in)
- Magnification 0.75x - 5.0x
- Eyepiece magnification 22.5x-150x
- FOV (diameter) 10.7- 1.6 mm
- Option: 775-00197, C-mount adapter for Motic SMZ-171 (Remark: 0.65x)

Compatibility

- SUMMIT200, PA200 BlueRay, PA200, PA300, PM300, PM8, PM5, DSP, BEP

775-00865 — 1.5x Objective for Motic SMZ-171-TH

Feature

Auxiliary objective (body lens) for higher magnification.

Specifications

- Increases magnification by 1.5X
- Results in magnification 1.125x - 7.5x. 30x eyepiece results in magnification 33.75x - 225x
- Reduces working distance to 56.3mm
- Not recommended for RF applications
- Reduced light intensity
- Affects C-mount camera magnification

Compatibility

- For SMZ-171 in combination with open station

Leica

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 (3.9 in) working distance with 0.63X objective installed
- 75 mm (3.0 in) 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 (100-240 VAC, 50/60 Hz)

Compatibility

- MTS

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 (3.0 in) 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 (100-240 VAC, 50/60 Hz)

Compatibility

- Summit, M150, Alessi
- T200 High Voltage testing

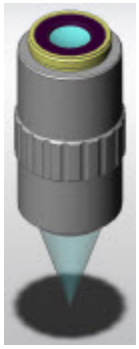
Objectives/Eye Pieces

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	[1] 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[1] (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[1] (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

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[1] (mm)	Mass (g)	λ Correction
126-255	M.Plan APO2.5x	BF, LWD	2.5	0.08	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

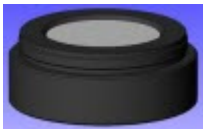
Features

- Wide field eye-pieces

Specifications

- 30X magnification

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 (3.9 in) working distance
- Apochromatic optical design

Microscope Adapters, Mounting Plates, and Accessories

Adapters

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

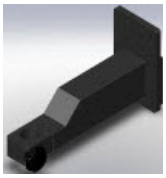
Features

- For microscope movement ranges larger than XY 50 x 50 mm (2 x 2 in)
- 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 50 x 50 mm (2 x 2 in)

Compatibility

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

120586 — Microscope Adapter, Mitutoyo FS70x-S/229

Features

- For microscope movement ranges XY 50 x 50 mm (2 x 2 in) and larger
- Compatible with FS70 with original Mitutoyo focus rack 378-062 only
- Used with PA300 and PM300

Compatibility

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

132712 — Microscope Adapter, Optem

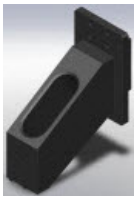
Features

- Required for use with 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

142730 — Microscope Adapter, Motic SMZ-168/171/229

Features

- For microscope movement ranges of 50 x 50 mm (2 x 2 in) and 100 x 100 mm (3.9 x 3.9 in)
- Adapts Motic SMZ168/171 for microscope movement

Compatibility

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

Mounting Plates

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

102-363 — Mitutoyo Video Adapter, 1.0X Magnification

Features

- Connect video camera to microscope for remote viewing

Specifications

- 1X magnification

Cameras and Video Packages

780-01191 — Moticam 4000 Sales Package, 8M, 1/1.8 in, USB/HDMI/SD, 32GB SD-card, USB Mouse

Features

- 1/1.8 in CMOS with C-mount and mounting thread
- Capture resolution on SD-card:
  - Still image: 8.0 MP (3840 x 2160)
  - Video: 4K 3840 x 2160
- Live display mode through output:
  - USB: 3840 x 2160 @ 20 frames per second
    or
  - HDMI: 3840 x 2160 (4K) @ 30 frames per second
- Pixel size: 2.0 x 2.0 microns
- Data transfer: HDMI and USB 2.0
- SD card slot (maximal: 32 GB)

Kit Contents

- CS Ring Adapter
- HDMI and USB cable
- Computer mouse (USB)
- SD card 32 GB SDHC
- Motic Images Plus 3.0 application software for PC and Mac

190-956 — Velox Digital Camera Kit USB3 5MP

Features

Velox digital camera package for FormFactor probe stations configured with C-mount microscopes. The camera is supported by the SPECTRUM Vision System. Velox probe station control software is required.

Specifications

- Digital video camera, 2592 x1944 pixel, 1/2.5-inch sensor
- USB3 cable
- White light LED for microscope illumination port

Compatibility

- PA210 BlueRay, Summit 12000, EPS150, PM8, PM300

Requirements

- Velox 3.1 and above

780-00536 — Velox for Manual Stations Kit, Velox, USB Camera

Features

Velox for manual probe stations. The exclusive AugmentedAlign tool provides on-screen markers that improve measurement accuracy and simplify RF probe positioning. The kit contains a digital camera, connection cable, and Velox for manual probe stations.

Specifications

- Digital video camera, 2592 x1944 pixel, 1/2.5-inch sensor
- USB3 cable
- Velox for manual probe stations

Compatibility

- EPS150, PM8, PM300

Requirements

- Customer PC or laptop, or 782-00081 high performance controller for manual probe stations

782-00119 — Velox Digital Camera Kit USB3 w/o light 5MP

Features

Velox digital camera package for FormFactor probe stations configured with C-mount microscopes. The camera is supported by the SPECTRUM Vision System. Velox probe station control software is required.

Specifications

- Digital video camera, 2592 x1944 pixel, 1/2.5-inch sensor
- USB3 cable

Compatibility

- Summit 12000, EPS150, PM8, PM300

Requirements

- Velox 3.1 and above

EPS-ACC-HDTV+ — Digital TV Package

Features

- Video recording and live view, without a computer
- Integrated menu system driven by a mouse for low overhead
- Saves stills and video direct to a memory card and outputs to an HDMI monitor

Specifications

- Moticam 4000
- 1/1.8-inch CMOS with C-mount and mounting thread
- Capture resolution on SD-card:
  - Still image: 8.0MP (7.68 x 4.32 mm)
  - Video: 4K 3840 x 2160
- Live display mode through output
  - USB: 3840 x 2160 @ 20 frames per second
    or
  - HDMI: 3840 x 2160 (4K) @ 30 frames per second
- Pixel size: 2.0 x 2.0 microns
- Data transfer: HDMI and USB 2.0
- SD card slot (maximal: 32 GB)
- Motic Images Plus 3.0 application software for PC and Mac
- Still and live image capture function
- 27 in wide screen LED monitor
  - HDMI, DisplayPort
- SD-Card
  - RAM size 32 GB
  - Data rate 80 MB/s
  - Form factor SDHC
- USB computer mouse
  - USB plug for connection to MOTICAM 4000
  - 1.80 m (6 ft) cable for convenient and ergonomic operation

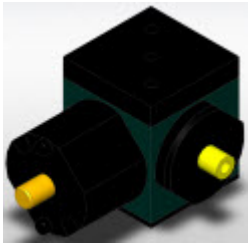
Compatibility

- MPS150, EPS150 (excluding EPS150TESLA, EPS150TESLA-EDU and SE750), PM8, EPS200

Optical

Integrating Sphere and Mounts

53541 — Integrating Sphere, Zenith



Features

- Diffuse, high reflective coating, recommended for UV-VIS-NIR wavelength
- Maximum temperature: 150°C (302°F)
- Input port 6 mm (1/4 in) (cutting edge in design)
- One detector port 6 mm (1/4 in) with baffles and blind plug
- SMA connector fiber optic cable

Compatibility

- Required for 134826, 139086

134826 — Integrating Sphere Mount, Mitutoyo FS70

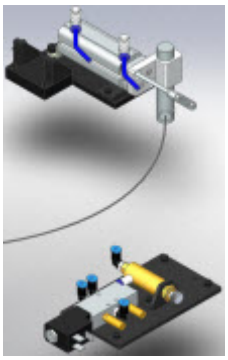
Features

- Mounting of 1 in integrating sphere into manual objective turret

Compatibility

- FS70

139085 — Optical Fiber Mount, RPP305



Features

- Mounting for Instrument Systems EKT-fiber

Specifications

- Positioner arm with pneumatic cylinder, 40 mm (1.5 in) stroke, for moving optical fiber out of microscope field of view

Compatibility

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

139086 — Integrating Sphere Mount, RPP305

Features

- Positioner arm with pneumatic cylinder, 40 mm (1.5 in) stroke, for moving sphere out of microscope field of view
- Mounting for Integrating Sphere 1 in, OptoWhite/Zenith

Compatibility

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

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 200 mm (8 in) chuck, controller, cooling unit
- Requires additional thermal chuck adapter for BlueRay, with or without lift pins (138722 or 138723)

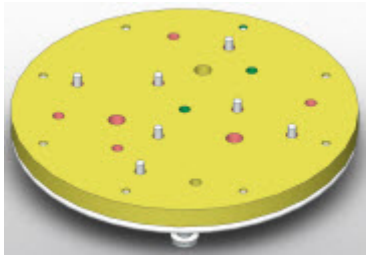
Specifications

- Temperature range: +15 to +150°C (59° to 302°F)
- Temperature resolution: 0.01°C (32°F)
- Temperature accuracy: +/- 0.2°C (32.4°F)
- Heating rate:
  - 25 → 150°C (77 → 302°F): < 8 min
  - 15 → 25°C (59 → 77°F): < 2 min
- Cooling rates:
  - 25° → 15°C (77° → 59°F): < 6 min
  - 150° → 25°C (302° → 77°F): < 18 min
- Temperature uniformity:
  - 15…100°C (59°...212°F): < +/- 1K
  - >100°C (212°F): +/- 1%
- Flatness: < +/-12 µm (0.5 mils)
- Power supply: 100-127/208-240 V 50/60 Hz AC 800 VA
- Air supply: 200 l/min at 6 bar dewpoint <-10°C (50°F) oil free

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

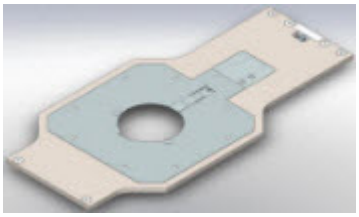
Features

- 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



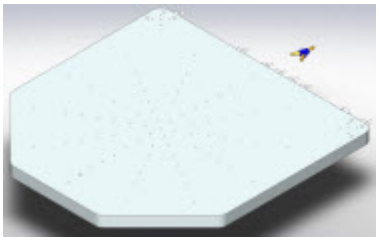
Features

- Top plate for double side chuck
- To be used on PA200 DS BlueRay
- For 76 mm (3 in) wafer, held by clamping mechanism
- 1 mm (0.04 in) circumferential support
- Front cutout for vacuum wand
- Other chucks on request

Compatibility

- PA200 DS BlueRay

143820 — Chuck, 200 mm, HF, PA200A



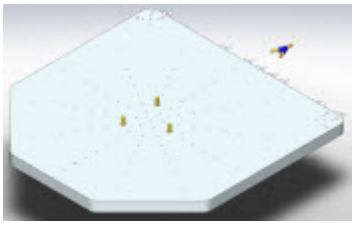
Features

- Chuck insulated from machine
- Vacuum fixture for two calibration substrates or probe cleaning pads
- Vacuum zones for 50 mm (2 in), 100 mm (4 in), 150 mm (6 in), and 200 mm (8 in) wafers
- Single die vacuum location
- Material: stainless steel (others available on request)
- Flat surface with vacuum holes (0.8 mm [0.03 in] 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 50 mm (2 in), 100 mm (4 in), 150 mm (6 in), and 200 mm (8 in) wafers
- Single die vacuum location
- Material: stainless steel (others available on request)
- Flat surface with vacuum holes (0.8 mm [0.03 in] Ø)

Compatibility

- AP200 BlueRay

Miscellaneous Accessories

133371 — Operation Lamp 3 Colors

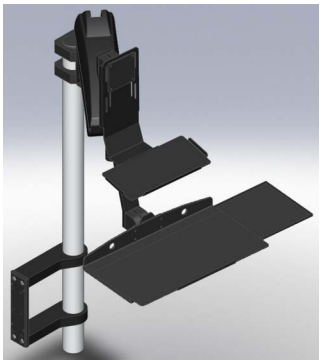
Features

- Colors: red, yellow, green
- Programmable through probe station control software
- Red light can be programmed static or blinking
- 800 mm (31.5 in) pole (when combined with the instrument measurement shelf [136687], the mounting pole is reduced to 400 mm [15.7 in])

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

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



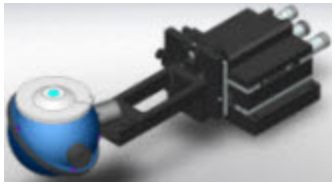
Features

- Mount arm for flat panel monitor, mouse and joystick or Expert Control Panel
- Includes compact computer keyboard (US English)
- 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 in Manual



Features

- Integrating sphere holder for PA200 BlueRay DS
- Manual sphere adjustment
- Mount for integrating sphere 102 mm (4 in) LabSphere (sphere not part of this item)
- Other spheres can be adapted on request
- Cannot be combined with automatic loader

Specifications

- Movement Range X/Y: 25 mm (1 in)
- Movement Range Z: 10 mm (0.4 in)

Compatibility

- PA200 BlueRay

136687 — Measuring Instrument Shelf for BlueRay

Features

- Two planes for measurement equipment

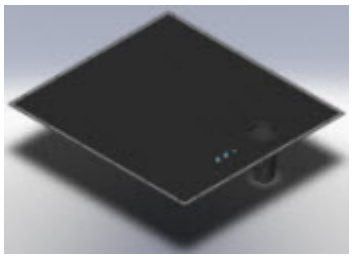
Specifications

- Dimensions (W x D): 350 x 380 mm (13.8 x 15 in) each
- Max. load: 30 kg (66 lb)

Compatibility

- PA200 BlueRay, PA200 DS BlueRay
- Cannot be combined with shield enclosures

138390 — SE1000 to VIT700/701 Adapter



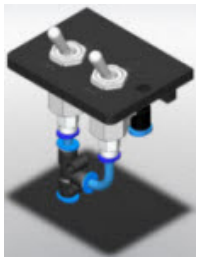
Features

- Connects the SE1000 to the 700 series probe station tables
- By using the VIT701, vibrations of the ShieldEnclosure are isolated from the probe station

Compatibility

- PA200 BlueRay, PA200 DS BlueRay
- Not compatible with BlueRay loader module

138651 — Pneumatic Switch Terminal



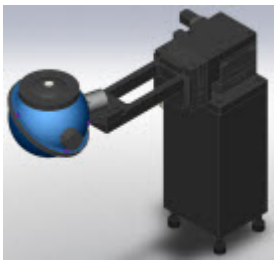
Features

- Terminal is mounted to BlueRay platen
- Used for switching cal-site vacuum supply

Compatibility

- PA200 BlueRay (not compatible with the BlueRay DS)

139985 — Adaptation Integrating Sphere 4 in Motorized



Features

- Integrating sphere holder for PA200 BlueRay DS
- Motorized/programmable sphere adjustment
- Mount for integrating sphere 102 mm (4 in) LabSphere (sphere not part of this item)
- Other spheres can be adapted on request
- Can be combined with automatic loader

Specifications

- Movement range X/Y: 25 mm (1 in)
- Movement range Z: 25 mm (1 in)

Compatibility

- PA200 BlueRay

Positioners and Positioner Accessories

DC Positioners

Note
Positioner movement ranges specified here may be further limited by specific application setups.

Entry Level

DPP105-M/V-AI-S

Features

- Used for basic IV probing
- Ideal for applications that require more than eight positioners
- Used with PTT DC probe needles
- 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 µm (3.9 x 3.9 mils)

Specifications

- Travel range:
  - X: 8 mm (0.3 in)
  - Y: 6 mm (0.2 in)
  - Z: 25 mm (1 in) (z-axis control: cw=down, ccw=up)
- Feature resolution:5 µm (0.2 mils)
- Screw resolution:
  - X: 350 µm (13.8 mils)/rev (70 TPI)
  - Y: 500 µm (19.7 mils)/rev (50 TPI)
  - Z: 70 µm (2.8 mils)/rev (350 TPI)
- Base: magnetic or vacuum
- Footprint: 60 x 20 mm (2.4 x 0.8 in)
- The temperature of the cable containing arm must not exceed 200°C. Usually, this is suitable for a 300°C wafer temperature in an open setup with an arm at least 10 mm above the wafer.

Compatibility

Open Platform Bundles	
PM5	PA300
PM8	EPS150
PM300	MPS150
PA200	

Ordering Information

Standard (z-axis: cw=down, ccw=up)	Legacy (z-axis: cw=up, ccw=down)
DPP105-M-AI-S	133346
DPP105-V-AI-S	100298

DPP105-M/V-PTH

Features

- Used for basic IV probing
- Ideal for applications that require more than eight positioners
- Used with PTT DC probe needles
- Low cost probing
- Extremely small footprint
- Probe-tip pressure adjustment
- Compatible with PTT needle holders
- Suitable for probing pads down to 100 x 100 µm (3.9 x 3.9 mils)

Specifications

- Travel range:
  - X: 8 mm (0.3 in)
  - Y: 6 mm (0.2 in)
  - Z: 25 mm (1 in) (z-axis control: cw=down, ccw=up)
- Feature resolution:5 µm (0.2 mils)
- Screw resolution:
  - X: 350 µm (13.8 mils)/rev (70 TPI)
  - Y: 500 µm (19.7 mils)/rev (50 TPI)
  - Z: 70 µm (2.8 mils)/rev (350 TPI)
- Base: magnetic or vacuum
- Footprint: 60 x 20 mm (2.4 x 0.8 in)

Compatibility

Open Platform + PTH Arms
Summit 11000/12000

Ordering Information

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

STANDARD

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

Features

- Used for IV/CV probing and failure analysis
- Used with PTT and DCP high performance DC probes
- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for FormFactor'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
- Captive stages with leadscrew design
- High precision cross-roller bearings
- Configured for use on left/right side of platen

DPP205-V-R

DPP205-M-L-S

Specifications

- Feature resolution: <2 µm (0.08 mils)
- Fine screw: 0.5 mm (0.02 in) pitch (50 TPI)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Base: magnetic or vacuum
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Compatibility

Platforms + Dedicated Arms*	Open Platforms + DC Arms**
CM300xi	PM5
Elite 300	PM8
PA300MA	PM300
PM300PS	PA200
Summit 11000/12000	PA200 BlueRay
Tesla	PA300
SUMMIT200	EPS150
TESLA200	MPS150
Power	

** Platforms + Dedicated Arms require the non-S versions of the positioner.*

*** Open Platforms + DC Arms require the -S version of the positioner.*

Ordering Information

Standard (z-axis: cw=down, ccw=up)
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

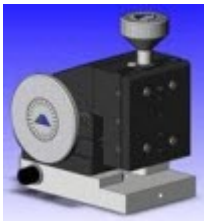
NOTE: Legacy PH120-complete (107870) replaced by DPP205-V-L/R-S with 100561 coax arm

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

Features

- Used for IV/CV probing and failure analysis
- Used with PTT and DCP high performance DC probes
- Accurate X and Y placement and precise probe overtravel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for FormFactor'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
- Captive stages with leadscrew design
- High precision cross-roller bearings
- Configured for use on left/right hand side of platen

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



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

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Fine screw: 0.25mm (0.02 in) pitch (100 TPI)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Base: magnetic or vacuum
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Compatibility

Platforms + Dedicated Arms*	Open Platforms + DC Arms**
CM300xi	PM5
Elite 300	PM8
PA300MA	PM300
PM300PS	PA200
Summit 11000/12000	PA200 BlueRay
Tesla	PA300
SUMMIT200	EPS150
TESLA200	MPS150
Power	

** Platforms + Dedicated Arms require the non-S versions of the positioner.*

*** Open Platforms + DC Arms require the -S version of the positioner.*

Ordering Information

Standard (z-axis: cw=down, ccw=up)
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

** Available by special request. Contact your FormFactor representative.*

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

Features

- Used for IV/CV probing and failure analysis
- Used with PTT and DCP high performance DC probes
- Accurate X and Y placement and precise probe over travel with easily adjusted knobs
- Adjustable probe arm mounting plate
- Optimized for FormFactor'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
- Captive stages with leadscrew design

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

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

- High precision cross-roller bearings
- Configured for use on left/right hand side of platen

Specifications

- Feature resolution: 0.5 µm (0.02 mils)
- Fine screw: 0.125 mm (0.005 in) pitch (200 TPI)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Base: magnetic or vacuum
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Compatibility

Platforms + Dedicated Arms	Open Platforms + DC Arms
CM300xi	PM5
Elite 300	PM8
PA300MA	PM300
PM300PS	PA200
Summit 11000/12000	PA200 BlueRay
Tesla	PA300
SUMMIT200	EPS150
TESLA200	MPS150
Power	

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

- Used for high-precision and high-resolution probing, high-performance IV/CV probing and failure analysis, and internal node probing
- Used with PTT and DCP high performance DC probes
- Precision ball bearings

DPP305 compatible with DC arms, and dedicated arms

DPP305 compatible with PTH arms

Specifications

- Feature resolution: 0.5 µm (0.02 mils)
- Travel range:
  - X/Y: 10 mm (0.4 in)
  - Z: 8 mm (0.3 in) (z-axis control: cw=down, ccw=up)
- Z coarse adjustment range: 15 mm (0.6 in)
- Micrometer screws: 500 µm (19.7 mils) pitch (50 TPI)
- Footprint (WxD): 75 x 50 mm (3 x 2 in)
- Base: magnetic or vacuum

Compatibility

Platforms + PTH Arms	Open Platforms + DC Arms*	Platforms + Dedicated Arms**
CM300xi Elite 300 PA300MA Summit 11000/12000 SUMMIT200 Tesla Power	PM5 PM8 PM300 PA200 PA200 BlueRay PA300 EPS150 MPS150	CM300xi PA300MA PM300PS

* Open Platforms + DC Arms require the -S version of the positioner.

** Platforms + Dedicated Arms require the non-S versions of the positioner.

Ordering Information

Standard (z-axis: cw=down, ccw=up)	Legacy (z-axis: cw=up, ccw=down)
DPP305-M-S	900286+130364
DPP305-V-S	900286+100508
DPP305-M-PTH	–
DPP305-V-PTH	–

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

Features

- Used for high-precision and high-resolution probing, high-performance IV/CV probing and failure analysis, and internal node probing
- Used with PTT and DCP high performance DC probes
- Precision ball bearings

Specifications

- Feature resolution: 0.5 µm (0.02 mils)
- Travel range:
  - X/Y: 10 mm (0.4 in)
  - Z: 8 mm (0.3 in) (z-axis control: cw=down, ccw=up)
- Z coarse adjustment range: 15 mm (0.6 in)
- Micrometer screws: 250 µm (9.8 mils) pitch (100 TPI)
- Footprint (WxD): 75 x 50 mm (3 x 2 in)
- Base: magnetic or vacuum

Compatibility

Platforms + PTH Arms	Open Platforms + DC Arms*	Platforms + Dedicated Arms**
CM300xi Elite 300 PA300MA Summit 11000/12000 Tesla Power	PM5 PM8 PM300 PA200 PA200 BlueRay PA300 EPS150 MPS150	CM300xi PA300MA PM300PS

* Open Platforms + DC Arms require the -S version of the positioner.

** Platforms + Dedicated Arms require the non-S versions of the positioner.

Ordering Information

Standard (z-axis: cw=down, ccw=up)	Legacy (z-axis: cw=up, ccw=down)
DPP310-M-S	900315+130364
DPP310-V-S	900315+100508
DPP310-M-PTH	–
DPP310-V-PTH	–

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

Features

- Used for high-resolution probing, high-performance IV/CV probing and failure analysis, and high-performance internal node probing
- Used with PTT and DCP high performance DC probes and respective DPP3xx arms
- Precision ball bearings
- Remote control block for fine movement

Specifications

- Feature resolution: 0.2 µm (0.008 mils)
- Travel range:
  - X/Y: 10 mm (0.4 in)
  - Z: 8 mm (0.3 in) (z-axis control: cw=down, ccw=up)
  - Micrometer screws: 500 µm (19.7 mils) pitch (50 TPI)
- Fine movement: 300 µm (11.8 mils) in each axis
- Z coarse adjustment range: 15 mm (0.6 in)
- Footprint (WxD): 75 x 50 mm (3 x 2 in)
- Base: magnetic or vacuum

Compatibility

Platforms + PTH Arms	Open Platforms + DC Arms	Platforms + Dedicated Arms
CM300xi	PM5	PA300MA
PA300MA	PM8	
Summit 11000/12000	PM300	
SUMMIT200	PA200	
Tesla	PA200 BlueRay	
Power	PA300	
	EPS150	
	MPS150	

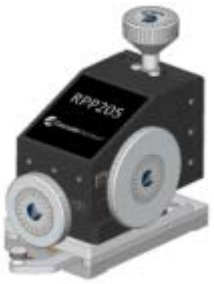
Ordering Information

Standard (z-axis: cw=down, ccw=up)
DPP450-M-S
DPP450-V-S
DPP450-M-PTH
DPP450-V-PTH

RF Positioners

STANDARD

RPP210-M/V-L/R-S



Features

- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 3 linear axes with precision ball bearings
- Enables use of HF probes or probe wedges
- Magnetic mount on HF platen or alternative with vacuum mount

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Compatibility

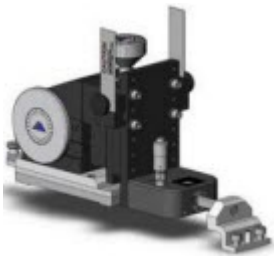
Platforms + RF Arms	
PM5	PA200 BlueRay
PM8	PA300
PM300	PA300-MA
PM300PS	EPS150
PA200	MPS150

Ordering Information

Standard (z-axis: cw=down, ccw=up)
RPP210-M-L-S
RPP210-M-R-S
RPP210-V-L-S
RPP210-V-R-S
RPP210-B-L-S
RPP210-B-R-S

RF arms must be ordered separately for these RPP210 versions.

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



Features

- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 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 overtravel with easily adjusted knobs
- Micrometer set planarity adjustment
- Captive stages with leadscrew design
- High precision cross-roller bearings
- 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

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 11000/12000

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

- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 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 FormFactor's MicroChamber
- Captive stages with leadscrew design
- High precision cross-roller bearings
- Bolt-down base

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Configurations

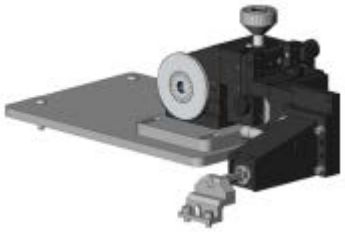
- Use on platen in South position only

Compatibility

- Summit 11000/12000

RPP210-B-NP-AI

Features



- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 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 FormFactor's MicroChamber
- Captive stages with leadscrew design
- High precision cross-roller bearings
- Bolt-down base

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

Configurations

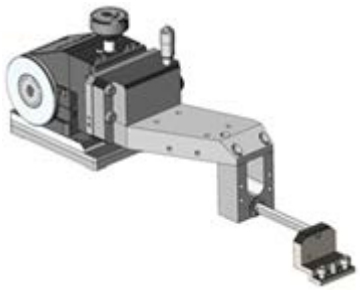
- Use on platen in North position only

Compatibility

- Summit 11000/12000

RPP210-M-L/R/N/S-S2-AI

Features



- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 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 overtravel witheasily adjusted knobs
- Micrometer set planarity adjustment
- Captive stages with leadscrew design
- High precision cross-roller bearings
- Configured for use on left/right hand side of platen
- Can be ordered with either:

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control:
- cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)

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

- SUMMIT200, CM300

Ordering Information

- RPP210-M-L-S2-AI
- RPP210-M-R-S2-AI
- RPP210-M-N-S2-AI
- RPP210-M-S-S2-AI

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

Features

- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 3 linear axes with precision ball bearings
- Used to adapt HF probes or probe wedges

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)
- Positions the probe at the right side of DUT
- Horizontal probe mounting plate can be leveled
- East-West orientation
- Used with HF platen and MicroAlign

Compatibility

- CM300xi with top chambers

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

Features

- RF and multi-contact/mixed-signal probing and wafer-level reliability probing
- Used with Infinity / ACP / |Z| Probe high performance RF probes
- 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12.5 mm (0.5 in) in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm (0.01 in) pitch (100 TPI)
- Micrometer set planarity adjust: ±5°
- Mount: vacuum or magnetic
- Footprint (WxD): 90 x 60 mm (3.5 x 2.4 in)
- Positions the probe at the right side of DUT
- Horizontal probe mounting plate can be leveled
- East-West orientation
- Used with HF platen and MicroAlign

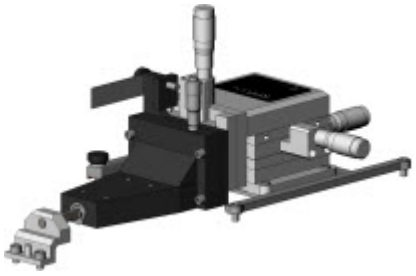
Compatibility

- CM300xi with top chambers

ADVANCED

RPP304-EW/NS/W-SU-AI

Features



- Precision 4-axis probe positioner for RF/ microwave probes
- Optimized for Summit 11000/12000-B station platform
- Rigid design for best probe placement
- New 1-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

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  - X/Y: 12 mm (0.47 in)
  - Z: 12mm (0.47 in) (z-axis control: cw=down, ccw=up)
- Micrometer screws: 1000 µm (3.9 mils) pitch (25 TPI)
- Micrometer set planarity adjust: ±5°
- Gross X travel:
  - 26 mm (1 in) with TopHat
  - 68 mm (2.7 in) with no TopHat/insert
- 2-port probe tip separation
  - With MicroChamber TopHat: 40 mm (1.6 in)
  - Without MicroChamber TopHat: 93 mm (3.7 in)
- Probe mount interface: 3 hole FormFactor 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

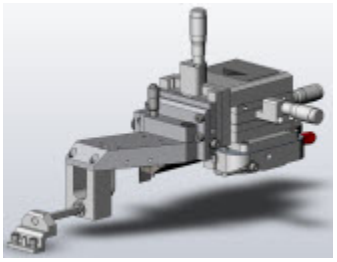
- Summit 11000/12000, T200

Ordering Information

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

RPP304-EW/NS-EL-AI

Features



- Precision 4-axis probe positioner for RF/microwave probes
- Optimized for Elite MicroChamber platform
- Rigid design for optimal probe placement
- One-click positioner quick release control enables fast setup and effortless gross positioning of RF probes
- Smooth glide micrometer controls enable accurate probe placement
- Multi position RF cable clamp and offset probe mounting arm optimize RF cable connection
- Micrometer set planarity adjustment
- EMI grounding strap
- Industry standard RF probe mount

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  - X/Y: 12 mm (0.47 in)
  - Z: 12 mm (0.47 in) (z-axis control: cw=down, ccw=up)
- Micrometer screws: 1000 µm (39.4 mils) pitch (25 TPI)
- Micrometer set planarity adjust: ±5°
- Gross X travel: 26 mm (1 in) with TopHat; 68 mm (2.7 in) with no TopHat/insert
- 2-port probe tip separation
  - With MicroChamber TopHat: 40 mm (1.6 in)
  - Without MicroChamber TopHat: 93 mm (3.7 in)
- Probe mount interface: 3 hole FormFactor 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

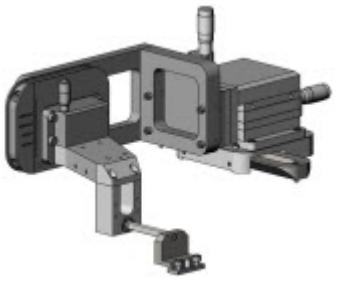
- Elite300

Ordering Information

- RPP304-NS-EL-AI
- RPP304-EW-EL-AI
- RPP304-W-EL-AI

RPP304-EW/NS/W-67 — Positioner (North/South)

Features



- Enables probes in north/south position
- Supplied with Chamber/EMI seal

Specifications

- Compatible with 67 GHz and lower RF probes, or DCQ probes
- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  - X/Y: 12 mm (0.47 in)
  - Z: 12 mm (0.47 in) (z-axis control: cw=down, ccw=up)
- Micrometer screws: 1000 µm (39.4 mils) pitch (25 TPI)
- Micrometer set planarity adjust: ±5°
- Probe mount interface: 3 hole FormFactor standard design, with locating pin

Compatibility

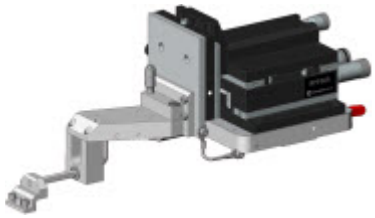
- CM300xi, SUMMIT200, TESLA200, Elite300

Ordering Information

- RPP304-EW-67
- RPP304-W-67
- RPP304-NS-67

RPP305-EW/NS-EL/SU-AI

Features



- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4 axis probe positioner for RF/microwave probes
- Optimized for Elite 300/Summit 12000-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 enable 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  - X/Y: 25 mm (1 in),
  - Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Micrometer screws: 500µm pitch (50 TPI)
- 2-port probe tip separation
  - With TopHat: 40 mm (1.6 in)
  - Without TopHat: 93 mm (3.7 in)
- Mount: bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)

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 12000 Tesla200

Ordering Information

Elite 300	Summit 12000
RPP305-NS-EL-AI RPP305-EW-EL-AI	RPP305-NS-SU-AI RPP305-EW-SU-AI

RPP305-EW/NS-CM-AI

Features

- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4 axis probe positioner for RF/microwave probes
- Optimized for CM300xi 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  – X/Y: 25 mm (1 in),
  – Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Micrometer screws: 500µm pitch (50 TPI)
- 2-port probe tip separation
  – With TopHat: 40 mm (1.6 in)
  – Without TopHat: 93 mm (3.7 in)
- Mount: bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)
- 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

- CM300xi with Top Hat, Elite 300

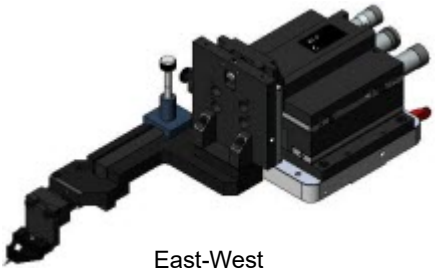
Ordering Information:

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

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

Features

- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing



East-West

- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4 axis probe positioner for RF/microwave probes
- Optimized for CM300xi 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

North-South

- Micrometer set planarity adjustment
- Industry standard RF probe mount

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  – X/Y: 25 mm (1 in),
  – Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Micrometer screws: 500µm pitch (50 TPI)
- 2-port probe tip separation
  – With TopHat: 40 mm (1.6 in)
  – Without TopHat: 93 mm (3.7 in)
- Mount: bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)

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

- CM300xi with top chambers

Ordering Information

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

RPP305-EW/NS-HT-AI

Features

- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing

- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4-axis probe positioner for RF/microwave probes
- High temperature stability
- Recommended for testing at high temperatures or multiple temperatures
- Optimized for CM300xi 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  – X/Y: 25 mm (1 in),
  – Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Micrometer screws: 500µm pitch (50 TPI)
- 2-port probe tip separation
  – With TopHat: 40 mm (1.6 in)
  – Without TopHat: 93 mm (3.7 in)
- Mount: bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)
- 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

- CM300xi with Top Hat, Elite 300

Ordering Information

- RPP305-EW-HT-AI
- RPP305-NS-HT-AI

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

Features

- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4 axis probe positioner for RF/ microwave probes
- Optimized for CM300xi 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

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  – X/Y: 25 mm (1 in),
  – Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer screws: 500µm pitch (50 TPI)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation
  – With TopHat: 40 mm (1.6 in)
  – Without TopHat: 93 mm (3.7 in)
- Mount: bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)

Configurations

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

Compatibility

- CM300xi with top chambers

Ordering Information

- RPP305-EWM-CMC-AI

RPP305-M/V/B-S

Features

- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/ load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Precision 4 axis probe positioner for RF/microwave probes
- 3 linear axes with precision ball bearings
- For adaptation of HF probes
- Bolt down, magnetic, or vacuum fixation to HF platen

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range:
  - X/Y: 25 mm (1 in),
  - Z: 10 mm (0.4 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Mount: magnetic, vacuum, bolt-down
- Footprint (W x D): 124 x 124 mm (4.9 x 4.9 in)

Compatibility

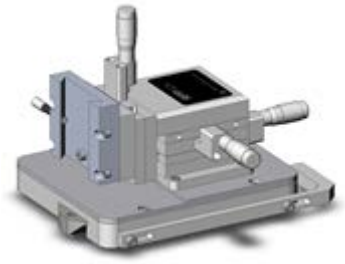
Platforms + RF Arms	
PM8	PA300
PM300	PA300-MA
PM300PS	EPS150
PA200	MPS150
PA200 BlueRay	

Ordering Information

Standard (z-axis: cw=down, ccw=up)
RPP305-M-S
RPP305-V-S
RPP305-B-S

RPP404 / RPP404-W

Features



- Used for high-performance RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Version for East and West

Specifications

- Compatible with RFA probe arms
- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12 mm (0.47 in) in X, Y, and Z (z-axis control: cw=down, ccw=up)
- Micrometer screws: 1000 µm (39.4 mils) pitch (25 TPI)
- Mount: bolt-down (large base)
- Footprint (WxD): 124 x 149.5 mm (4.9 x 5.9 in)

Configuration

- Use adapter (174-889) for mounting to Summit 11000/12000 stations
- Use adapter (174-973) for mounting to EPS stations

Compatibility

- CM300xi, SUMMIT200, Elite
- EPS150, EPS200, Summit 11000/12000 with dedicated adapter

191-446 — Micrometer Screw for RPP404 X-axis

Features

- Digital micrometer screw for RPP404 X-axis to support precise multiline TRL calibrations
- Replaces the manual X-axis micrometer with a micrometer with digital LCD readout
- For RPP404 and RPP304 positioners
- Preset, inch/mm conversion

Specifications

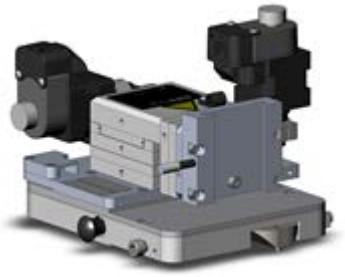
- Resolution: 0.001mm (.00005 in)
- Repeatability: < +/- 0.6 µm (0.24 mils)
- Accuracy: < +/- 1 µm (0.04 mils) (within +/- 2 mm travel range)

Compatibility

- For RPP404 and RPP304 positioners
- Can be mounted on all axes

RPP504

Features



- Used for autonomous RF, multi-contact/mixed signal probing, high-performance wafer-level reliability probing, and single-ended broadband/ mm-Wave, THz, source/load-pull, RF noise probing
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Universal version for East and West

Specifications

- Compatible with RFA probe arms
- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12 mm (0.47 in) in X, Y, and Z (z-axis control: cw=down, ccw=up)
- Travel speed (max): 1.5 mm/s (0.06 in)
- Minimum step size 0.3 µm
- Mount: bolt-down (large base)
- Footprint (WxD): 124 x 149.5 mm (4.9 x 5.9 in)

Configuration

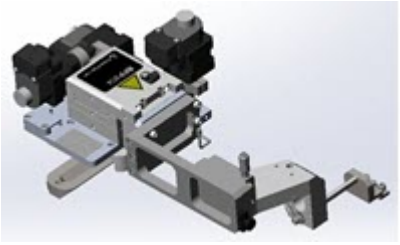
RPP504 motorized positioners require a dedicated controller (such as MPX or MPX2 box). A station-specific kit containing the appropriate mechanical parts, electronics, and/or cables for your configuration is required. Note that the MPX and MPX2 box require different kits. Please refer to the Application Configuration Guide for the available options.

Compatibility

- CM300xi, SUMMIT200, Elite
- EPS150, EPS200, Summit 11000/12000 with dedicated adapter

RPP504-NS-67

Features



- Used for autonomous RF probing up to 67 GHz
- Used with Infinity / ACP / |Z| Probe / T-Wave high performance RF probes
- Version for North and South

Specifications

- Feature resolution: <1 µm (0.04 mils)
- Travel range: 12 mm (0.47 in) in X, Y, and Z (z-axis control: cw=down, ccw=up)
- Travel speed (max): 1.5 mm/s (0.06 in)
- Minimum step size 0.3 µm
- Mount: bolt-down (large base)
- Footprint (WxD): 124 x 149.5 mm (4.9 x 5.9 in)

Configuration

RPP504 motorized positioners require a dedicated controller (such as MPX or MPX2 box) and a station specific configuration. Please refer to the *Application Configuration Guide* for the available options.

Compatibility

- CM300xi, SUMMIT200, Elite
- EPS150, EPS200, Summit 11000/12000 with dedicated adapter

IceShield Solutions

780-01850– IceShield Insert Upgrade Kit for CM300xi

Features

- Field upgrade kit for CM300xi IceShield insert
- Platen insert enables open environment (without TopHat) -60°C to 300°C frost free-probing
- Ideal for Load-pull and S-Parameters mmW Waveguide extender applications
- Includes four modular aperture cutout shapes to enable flexible application configuration
- Compatible with all FormFactor positioners and RFA arms, Autonomous RF, and Autonomous DC
- FormFactor FSE installation is recommended. Customer installation is also possible.
- Can also be ordered as a kit dedicated for new systems (with station, PN 780-01474)

Specifications

- CDA purge requirements
  - IceShield jets: 27 l/min
  - MicroChamber purge: 270 l/min - 300 l/min
- Environmental humidity will affect low temperature operation
  - -40°C capable at ≤55% relative Humidity
  - -60°C capable at ≤25% relative Humidity

Compatibility

- CM300xi with MicroChamber

780-02826– IceShield Insert Upgrade Kit SUMMIT200

Features

- Field upgrade kit for SUMMIT200 IceShield insert
- Platen insert enables open environment (without TopHat) -60°C to 300°C frost free-probing
- Ideal for Load-pull and S-Parameters mmW Waveguide extender applications
- Includes four modular aperture cutout shapes to enable flexible application configuration
- Compatible with all FormFactor positioners and RFA arms, Autonomous RF, and Autonomous DC
- FormFactor FSE installation is recommended. Customer installation is also possible.
- Can also be ordered as a kit dedicated for new systems (with station, PN 780-02774)

Specifications

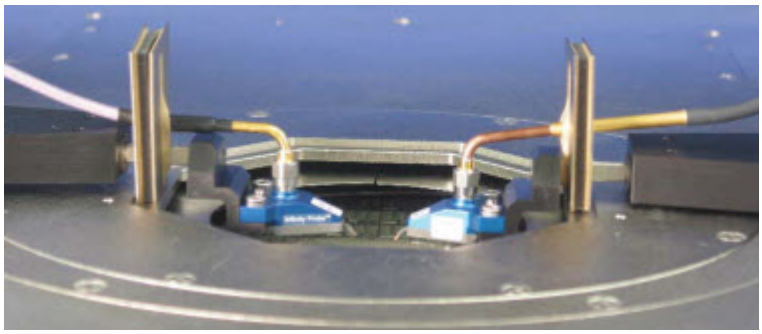
- CDA purge requirements
  - IceShield jets: 27 l/min
  - MicroChamber purge: 120 l/min
- Environmental humidity will affect low temperature operation
  - -40°C capable at ≤55% relative humidity
  - -60°C capable at ≤25% relative humidity

Compatibility

- SUMMIT200 with MicroChamber

RF and Microwave Cables

Infinity probe shown with TopHat incompatible cable (left)



Infinity probe with Top Hat compatible cable (right). An extended ferrule shorts the coax shield to the EMI gasketed TopHat for local ground reference.

Cables for unshielded environments

GORE P/N	Junkosha P/N	Freq	Style	Length	Probe station
101-162-B‡	180-801	40 GHz	vertical probe	~120 cm (48 in)	EPS with SlimVue
103-202-B†	180-805	50 GHz	vertical probe	~120 cm (48 in)	EPS with SlimVue
124-084-B	180-800	40 GHz	angled probe	~120 cm (48 in)	EPS with SMZ168
124-085-B	180-804	50 GHz	angled probe	~120 cm (48 in)	EPS with SMZ168
124-605-B†	180-809	67 GHz	vertical probe	~90 cm (36 in)	EPS with SlimVue*
124-606-B	180-808	67 GHz	angled probe	~90 cm (36 in)	EPS with SMZ168*
132-458	180-812	110 GHz	angled probe	18 cm (7.1 in)	EPS with SlimVue*

** Rear mounted instrument rack recommended.*

† Item on limited supply. If possible, convert to alternative from Junkosha.

‡ Item is obsolete, listed for reference only.

Cables for shielded environments with TopHat

GORE P/N	Junkosha P/N	Freq	Style	Length	Probe station
132-420‡	180-803	40 GHz	vertical probe	~120 cm (48 in)	CM300, Elite, SUMMIT200, Summit 11000/12000
132-421†	180-807	50 GHz	vertical probe	~120 cm (48 in)	CM300, Elite, SUMMIT200, Summit 11000/12000
132-422†	180-811	67 GHz	vertical probe	~90 cm (36 in)	CM300, Elite, SUMMIT200, Summit 11000/12000*
132-423‡	180-802	40 GHz	angled probe	~120 cm (48 in)	CM300, Elite, SUMMIT200, Summit 11000/12000
132-424†	180-806	50 GHz	angled probe	~120 cm (48 in)	CM300, Elite, SUMMIT200, Summit 11000/12000
132-425‡	180-810	67 GHz	angled probe	~90 cm (36 in)	CM300, Elite, SUMMIT200, Summit 11000/12000*
132-458	180-812	110 GHz	angled probe	18 cm (7.1 in)	Summit 11000/12000 single port*
147-316	180-813	110 GHz	angled probe	24 cm (9.4 in)	CM300, Elite, Summit 11000/12000*,**
178-383	—	110 GHz	angled probe	10 cm (3.9 in)	EPS150, EPS200, SUMMIT200, Elite, and CM300xi*
178-387	—	110 GHz	angled probe	13 cm (5.1 in)	EPS150, EPS200, SUMMIT200, Elite, and CM300xi*

** Rear mounted instrument rack recommended.*

*** For Summit 11000/12000 multiport set-up.*

† Item on limited supply. If possible, convert to alternative from Junkosha.

‡ Item is obsolete, listed for reference only.

Shielded Environments with TopHat

180-803 — Cable, 40 GHz, m/f, Flexible, Vertical Style Probe Body, 48 in for MicroChamber

Features

- Connects 40 GHz probes with VNA

Specifications

- For signals DC to 40 GHz
- Connectors straight K (f) to elbow K (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and use in MicroChamber/TopHat applications

180-807 — Cable, 50 GHz, m/f, Flexible, Vertical Style Probe Body, 48 in for MicroChamber

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to elbow 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and use in MicroChamber/TopHat applications

180-811 — Cable, 67 GHz, m/f, Flexible, Vertical Style Probe Body, 36 in for MicroChamber

Features

- Connects 67 GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 2.4 (f) to elbow 2.4 (m)
- Length: ~90 cm (36 in)

Compatibility

- For vertical probe bodies and use in MicroChamber/TopHat applications

180-802 — Cable, 40 GHz, m/f, Flexible, Angled Style Probe Body, 48 in for MicroChamber

Features

- Connects 40 GHz probes with VNA

Specifications

- For signals DC to 40 GHz
- Connectors straight K (f) to straight K (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

180-806 — Cable, 50 GHz, m/f, Flexible, Angled Style Probe Body, 48 in for MicroChamber

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to straight 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

180-810 — Cable, 67 GHz, m/f, Flexible, Angled Style Probe Body, 36 in for MicroChamber

Features

- Connects 67 GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 1.85 (f) to straight 1.85 (m)
- Length: ~90 cm (36 in)
- Connector mechanically compatible with 2.4 type

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

180-812 — Cable, Test Port, 1mm, m/f, 110 GHz, 18 cm for MicroChamber

Features

- Connects 110 GHz probes with test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 18 cm (7 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

180-813 — Cable, Test Port, 1mm m/f, 110 GHz, 24 cm for Elite 300

Features

- Connects 110 GHz probes with test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 24 cm (9 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications on Elite 300

178-383 — RF Cable,110 GHz, m/f, 100 mm

Features

- Connects 110 GHz probes with Keysight M4 test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 10 cm (4 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications in M4 single port set-up

178-387 — RF Cable,110 GHz, m/f,130 mm

Features

- Connects 110 GHz probes with Keysight M4 test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 13 cm (5 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications in M4 multiport set-up

132-421 — Cable, 50 GHz, m/f, Flexible, Vertical Style Probe Body, 48 in for MicroChamber

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to straight 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and use in MicroChamber/TopHat applications

132-422 — Cable, 67 GHz, m/f, Flexible, Vertical Style Probe Body, 36 in for MicroChamber

Features

- Connects 67 GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 2.4 (f) to elbow 2.4 (m)
- Length: ~90 cm (36 in)

Compatibility

- For vertical probe bodies and use in MicroChamber/TopHat applications

132-424 — Cable, 50 GHz, m/f, Flexible, Angled Style Probe Body, 48 in for MicroChamber

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to straight 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

147-316 — Cable, Test Port, 1mm m/f, 110 GHz, 24 cm for Elite 300

Features

- Connects 110 GHz probes with test head

Specifications

- For signals DC to 110 GHz

- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 24 cm (9 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications on Elite 300

132-458 — Cable, Test Port, 1mm, m/f, 110 GHz, 18 cm for MicroChamber

Features

- Connects 110 GHz probes with test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 18 cm (7 in)

Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

Unshielded Environments

180-801 — Cable, 40 GHz 2.92mm (f), 2.92 mm (m) Integrated Elbow, 48 inch

Features

- Connects 40 GHz probes with VNA

Specifications

- For signals DC to 40 GHz
- Connectors straight K (f) to elbow K (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and non-microchambered applications

180-805 — Cable, 50 GHz 2.4mm (f), 2.4mm (m) Integrated Elbow, 48 inch

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to elbow 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and non-microchambered applications

180-800 — Cable, 40 GHz, K (f) Straight, K (m) Straight, 48 in

Features

- Connects 40 GHz probes with VNA

Specifications

- For signals DC to 40 GHz
- Connectors straight K (f) to straight K (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies for non-microchambered applications

180-804 — Cable, 50 GHz 2.4 (f) Straight, 2.4 (m) Straight, 48 in

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to straight 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies for non-microchambered applications

180-808 — Cable, 67 GHz 1.85mm (f), 1.85mm (m) Straight, 36 in

Features

- Connects 67GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 1.85 (f) to straight 1.85 (m)
- Length: ~90 cm (36 in)
- Connector mechanically compatible with 2.4 type

Compatibility

- For angled probe bodies for non-microchambered applications

180-809 — Cable, 67 GHz 1.85mm (f), 1.85mm (m) Integrated Elbow, 36 in

Features

- Connects 67 GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 1.85 (f) to elbow 1.85 (m)
- Length: ~90 cm (36 in)

- Connector mechanically compatible with 2.4 type

Compatibility

- For vertical probe bodies and non-microchambered applications

103-202-B — Cable, 50 GHz Flexible 2.4 mm Connector Cable/Integrated Elbow, 4-feet, m/f

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to elbow 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For vertical probe bodies and non-microchambered applications

124-084-B — Cable, 40 GHz, K (f) Straight, K (m) Straight, 48 in

Features

- Connects 40 GHz probes with VNA

Specifications

- For signals DC to 40 GHz
- Connectors straight K (f) to straight K (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies for non-microchambered applications

124-085-B — Cable, 50 GHz 2.4 (f) Straight, 2.4 (m) Straight, 48 in

Features

- Connects 50 GHz probes with VNA

Specifications

- For signals DC to 50 GHz
- Connectors straight 2.4 (f) to straight 2.4 (m)
- Length: ~120 cm (48 in)

Compatibility

- For angled probe bodies for non-microchambered applications

124-606-B — Cable, 67 GHz 1.85mm (f), 1.85mm (m) Straight, 36 in

Features

- Connects 67GHz probes with VNA

Specifications

- For signals DC to 67 GHz
- Connectors straight 1.85 (f) to straight 1.85 (m)
- Length: ~90 cm (36 in)
- Connector mechanically compatible with 2.4 type

Compatibility

- For angled probe bodies for non-microchambered applications

132-458 — Cable, Test Port, 1mm, m/f, 110 GHz, 18 cm for MicroChamber

Features

- Connects 110 GHz probes with test head

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 18 cm (7 in)

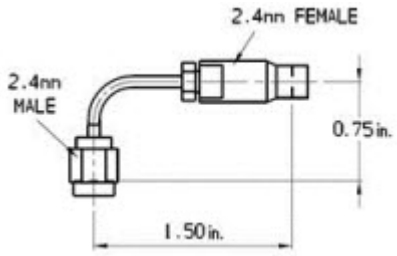
Compatibility

- For angled probe bodies and use in MicroChamber/TopHat applications

RF Adapters

100-934 — 2.92 mm (K connector) 90° Elbow, (m) to (f)

105-010 — 2.4 mm 90° Elbow, (m) to (f)



105-097 — 2.4 mm (f) to 2.92 mm (m) Adapter

Features

- Connects 40 GHz cables to 40 GHz or 50 GHz Keysight VNA, or 40 GHz probes to 50 GHz cables

164-500 — 2.4 mm (m) to 2.92 mm (f) Adapter

Features

- Connects 50 GHz probes to 40 GHz cables

122-237 — SMA (f) to S-G Square Pin Header, 12 in (30 cm) Flexible Cable

Features

- Connects |Z| Probe wedges with VNA

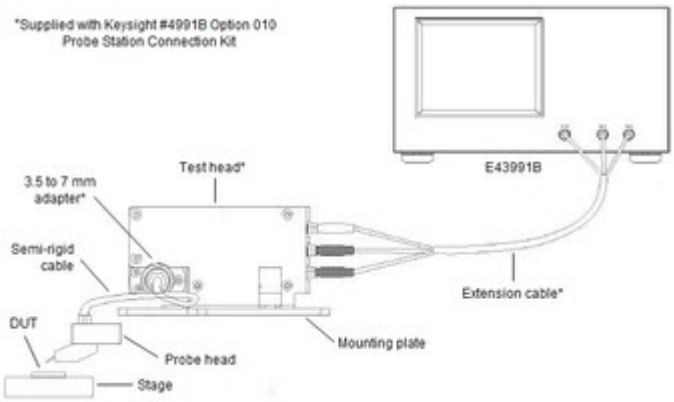
Specifications

- For signals DC to 18 GHz
- Connectors straight SMA (f) to straight S-G square pin (f)
- Length: ~30 cm (12 in)

Compatibility

- For |Z| Probe wedges with square S-G pins

123-724 — Adapter Kit for Interface Between Summit 11000/12000 and Agilent E4991A Module



Features

- Connects a Keysight E4991A module to an ACP probe

Specifications

- For signals DC to 110 GHz
- Connectors straight 1.00 (f) to straight 1.00 (m)
- Length: 24 cm (9.5 in)

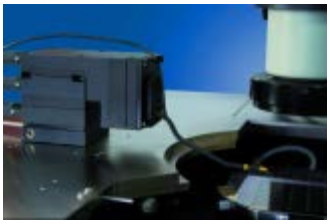
Compatibility

- Summit 11000/12000

mmW and Motorized Positioners

Open Platform RF and Microwave Positioners

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 (0.12 mils)
- Travel range: 25 mm (1 in) in X, Y, and Z
- Encoder resolution: (X / Y / Z) 0.02/ 0.02/ 0.02 µm (0.0008 mils)
- Mount: vacuum, magnetic, bolt down
- Footprint: 64 x 122 mm (2.5 x 4.8 in)

Configuration

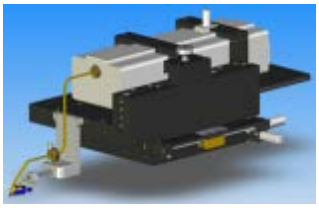
- Use adapter 138610, 142480 or 143098 for mounting to PM5, PM8, PM300, PA200, PA300, PA200 BlueRay, PA300 MicroAlign

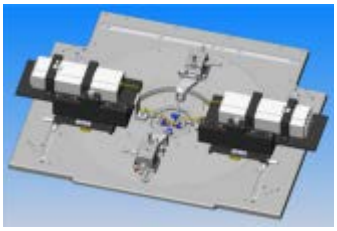
Compatibility

- PM5, PM8, PM300, PM300PS, PA200, PA200 BlueRay, PA300, PA300 MicroAlign

CM300xi & Elite 300 RF and Microwave Positioners

141-778 — mmW Large Area Positioner (E)





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

Features

- Used for high-performance single-ended/differential broadband/ mm-Wave, sub-THz S-parameters, and source/load-pull, RF noise probing
- Used with Infinity / ACP / T-Wave high performance RF probes
- Precision 3 axis large area positioner for mmWave probes
- Optimized for CM300xi and Elite 300 Station Platforms
- Micrometer set planarity adjustment

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range:
  - X/Y: 150 mm (5.9 in)
  - Z: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation
- Adjustable for MicroChamber TopHat: 40 mm (1.6 in for Elite) and 43 mm (1.7 in for CM300xi)
- Without MicroChamber TopHat: TBD mm (y in)
- Mount: bolt-down
- Footprint: 204 x 204 mm (8 in)
- Weight = approx. 11 kg (23 pounds)

Configurations

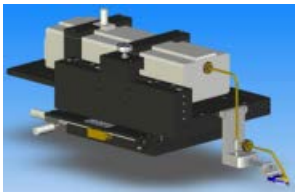
- Use on platen right location as East positioner (2-port)

Compatibility

- SUMMIT200, CM300xi, Elite 300

141-779 — mmW Large Area Positioner (W)

Features



- Used for high-performance single-ended/differential broadband/ mm-Wave, sub-THz S-parameters, and source/load-pull, RF noise probing
- Used with Infinity / ACP / T-Wave high performance RF probes
- 3 axis large area positioner for mmWave probes
- Optimized for CM300xi and Elite 300 Station Platforms
- Micrometer set planarity adjustment
- Industry standard RF probe mount

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range:
  - X/Y: 150 mm (5.9 in)
  - Z: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation
- Adjustable for MicroChamber TopHat: 40 mm (1.6 in for Elite) and 43 mm (1.7 in for CM300xi)
- Without MicroChamber TopHat: TBD mm (y in)
- Mount: bolt-down
- Footprint: 204 x 204 mm (8 in)
- Weight = approx. 11 kg (23 pounds)

Configurations

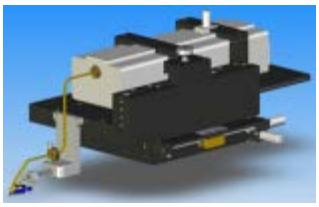
- Use on platen left location as West positioner (2-port)

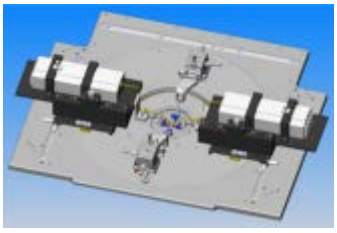
Compatibility

- SUMMIT200, CM300xi, Elite 300

181-895 — mmW Large Area Positioner HTS (E)

Features





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

- Used for high-performance single-ended/differential broadband/ mm-Wave, sub-THz S-parameters, and source/load-pull, RF noise probing
- Used with Infinity / ACP / T-Wave high performance RF probes
- Precision 3 axis large area positioner for mmWave probes
- Optimized for CM300xi and Elite 300 Station Platforms
- Micrometer set planarity adjustment
- High temperature stability (HTS)
- Recommended for testing at high temperatures or multiple temperatures

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range:
  - X/Y: 150 mm (5.9 in)
  - Z: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation
- Adjustable for MicroChamber TopHat: 40 mm (1.6 in for Elite) and 43 mm (1.7 in for CM300xi)
- Without MicroChamber TopHat: TBD mm (y in)
- Mount: bolt-down
- Footprint: 204 x 204 mm (8 in)
- Weight = approx. 11 kg (23 pounds)

Configurations

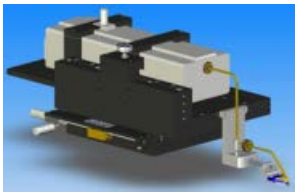
- Use on platen right location as East positioner (2-port)

Compatibility

- CM300xi with Top Hat, Elite 300

181-896 — mmW Large Area Positioner HTS (W)

Features



- Used for high-performance single-ended/differential broadband/ mm-Wave, sub-THz S-parameters, and source/load-pull, RF noise probing
- Used with Infinity / ACP / T-Wave high performance RF probes
- Precision 3 axis large area positioner for mmWave probes
- Optimized for CM300xi and Elite 300 Station Platforms
- Micrometer set planarity adjustment
- High temperature stability (HTS)
- Recommended for testing at high temperatures or multiple temperatures

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range:
  - X/Y: 150 mm (5.9 in)
  - Z: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- 2-port probe tip separation
- Adjustable for MicroChamber TopHat: 40 mm (1.6 in for Elite) and 43 mm (1.7 in for CM300xi)
- Without MicroChamber TopHat: TBD mm (y in)
- Mount: bolt-down
- Footprint: 204 x 204 mm (8 in)
- Weight = approx. 11 kg (23 pounds)

Configurations

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

Compatibility

- CM300xi with TopHat, Elite 300

SUMMIT 11000/12000 RF AND MICROWAVE POSITIONERS

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

- X travel: 132 mm (5.2 in)
- Y travel: 143 mm (5.6 in)
- Z travel: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Probe mount interface: 3 hole FormFactor standard design, with locating pin

Configurations

- Use on platen right location as West positioner

Compatibility

- Summit 11000/12000, S300

133-528 — mmW Positioner, Manual, East Position

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

- X travel: 132 mm (5.2 in)
- Y travel: 143 mm (5.6 in)
- Z travel: 12.5 mm (0.5 in) (z-axis control: cw=down, ccw=up)
- Micrometer set planarity adjust: ±5°
- Probe mount interface: 3 hole FormFactor standard design, with locating pin

Configurations

- Use on platen left location as East positioner

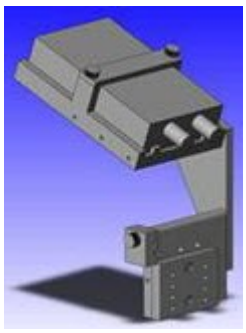
Compatibility

- Summit 11000/12000, S300

Positioner Accessories

DCM Positioner Accessories

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



Features

- Positions 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 11000/12000, 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

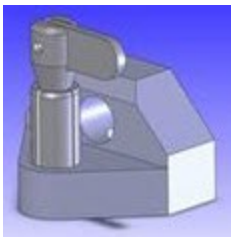
Kit Contents

- Mounting plate
- Plate mounting hardware

Compatibility

- Elite 300, Summit 11000/12000, S300, M150, Alessi

141-858 — FPC Mount for RF Positioners



Features

- Adapts from standard FormFactor 3-hole mount to FPC style mount
- Enables the FPC probe to swing to reach 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 / 20 in] or 100751 (150 cm / 60 in) coaxial cable arm

Specifications

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

174-889 — Summit 11000/12000 Platen Adapter

Features

- Adapts the Summit 11000/12000 station platen to enable mounting of RPP404/ RPP504 positioners
- Requires one adapter per side

Compatibility

- Summit 11000/12000

174-973 — EPS Platen Adapter

Features

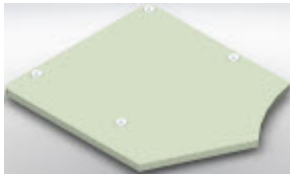
- Adapts the EPS station platen to enable mounting of RPP404/ RPP504 positioners
- Requires one adapter per positioner

Compatibility

- EPS150, EPS200

Positioner Accessories for Open Platforms

115604 — Quarter Ring on HF Platen for DC Probes



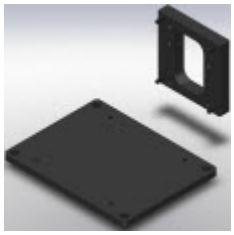
Features

- 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

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

Features

- Fits 3 mm (0.12) male HF plug (18130) used with DPP105

Compatibility

- DPP105

Motorized Positioner Accessories (MPX Controller)

178-511 — MPX Controller for 4 Motorized Positioners

Features

- Controller box for up to 4 motorized RPP504 or DPP504-B positioners

Compatibility

- CM300xi, SUMMIT200, EPS150/200
- Station-specific adapter kit required

178-517 — Adapter Kit for MPX Controller on CM300xi

Features

- Used for mounting the MPX controller on a CM300xi station
- Mounts at the rear side of the station

Compatibility

- CM300xi

178-924 — Adapter Kit for MPX Controller on SUMMIT200

Features

- Used for mounting the MPX controller on a SUMMIT200 station
- Mounts at the left side of the station

Compatibility

- SUMMIT200

178-920 — Adapter Kit for MPX Controller on EPS

Features

- Used for mounting the MPX controller as a stand-alone unit

Compatibility

- EPS150/200, Summit 11000/12000 12000, Elite 300

181-170 — MPX Controller for 2 Motorized Positioners

Features

- Controller box for up to 2 motorized RPP504 or DPP504-B positioners

Compatibility

- CM300xi, SUMMIT200, EPS150/200
- Station-specific adapter kit required

183-111 — MPX Controller for 1 Motorized Positioners

Features

- Controller box for 1 motorized RPP504 or DPP504-B positioner

Compatibility

- CM300xi, SUMMIT200, EPS150/200
- Station-specific adapter kit required

780-01218 — MPX2 Controller for up to 6 Motorized Positioners

Features

- Controller box for up to six motorized RPP504 or DPP504-B positioners
- Station-specific adapter kit required

Specifications

- Dimensions (WxDxH): 446 x 410 x 171 mm (17.6 x 16.1 x 6.7 in)
- Weight: 15 kg (33 pounds)

Compatibility

- CM300xi, SUMMIT200, manual station (such as EPS150/200)

780-01562 — Adapter Kit for MPX2 Controller on CM300xi

Features

- Contains mechanical and electrical connecting parts
- Used for mounting the MPX2 controller on a CM300xi station
- Mounts at the side of the station

Compatibility

- CM300xi

780-01305 — Adapter Kit for MPX2 Controller on SUMMIT200

Features

- Contains mechanical and electrical connecting parts
- Used for mounting the MPX2 controller on a SUMMIT200 station
- Mounts at the left hand side of the station

Compatibility

- SUMMIT200

780-01959— Adapter Kit for MPX2 Controller on Manual Stations

Features

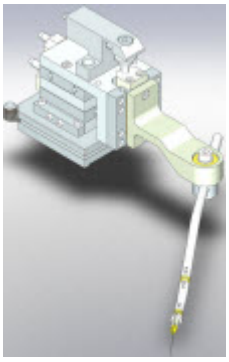
- Connects the MPX2 controller for motorized positioning to a controller running Velox 3.4 or higher
- Not suited for automated stations

Compatibility

- Manual stations (such as EPS)

Cryogenic & Vacuum Positioners

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



Features

- Used for IV/CV probing and failure analysis in vacuum/cryogenic environments
- Used with PTT probes
- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- 3 linear axes with 12 mm movement range
- Probe arm DC triax with vacuum proof triax cable with connector to electrical feedthrough flange

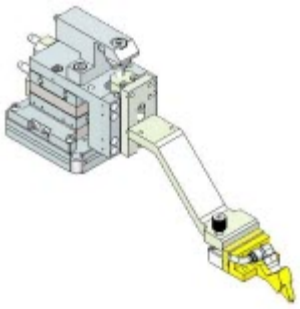
Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PAC200, PMC200

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



Features

- Used for RF probing in vacuum/cryogenic environments
- Used with high performance RF probes
- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF straight

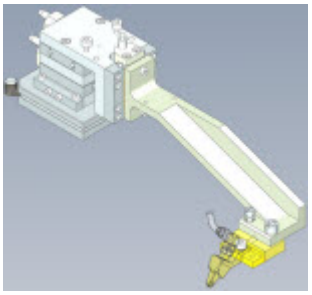
Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PAC200, PMC200

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



Features

- Used for RF probing in vacuum/cryogenic environments
- Used with high performance RF probes
- VCP110 high vacuum positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF right-angled

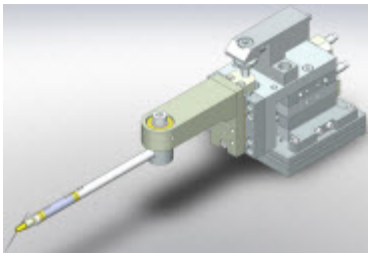
Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PAC200, PMC200

140967 — VCP110, High Vacuum, DC Triax, PLV50



Features

- Used for IV/CV probing and failure analysis in vacuum/cryogenic environments
- Used with PTT probes
- 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

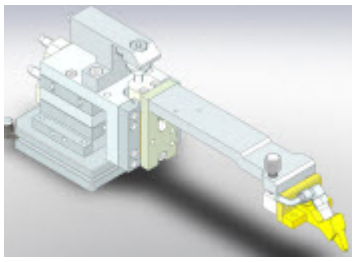
Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PLV50

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



Features

- Used for RF probing in vacuum/ cryogenic environments
- Used with high performance RF probes
- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF straight

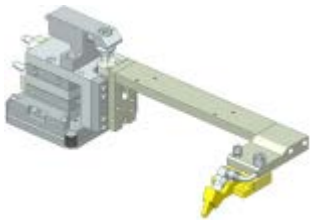
Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PLV50

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



Features

- Used for RF probing in vacuum/ cryogenic environments
- Used with high performance RF probes
- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- Probe arm HF right-angled

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PLV50

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

Features

- Used for RF probing in vacuum/ cryogenic environments
- Used with high performance RF probes
- 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

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PAC200, PMC200

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

Features

- Used for RF probing in vacuum/cryogenic environments
- Used with high performance RF probes
- VCP110 high vacuum probe positioner
- Stainless steel main body
- Magnetic foot adapter
- HF arm straight includes thermal contacts for cooling Cryo |Z| probe

Specifications

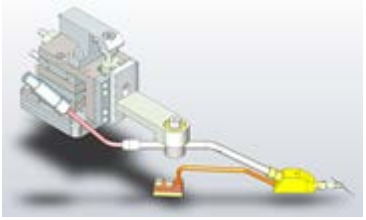
- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

- PAC200, PMC200

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

Features



- Used for IV/CV/RF probing and failure analysis in vacuum/cryogenic environments
- Used with high performance DC or RF probes
- 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

Specifications

- Feature resolution: 3 µm (0.12 mils)
- Travel range: 12 mm (0.5 in) in X, Y, and Z
- Mount: magnetic
- Footprint (WxD): 65 x 65 mm (0.24 x 0.24 in)

Compatibility

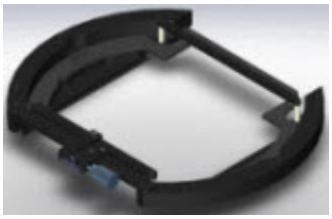
- PAC200, PMC200

Probe Card Holders

Probe Card Holders and Accessories

PA, PM, DSP

100529 — Probe Card Holder, 6x7 in



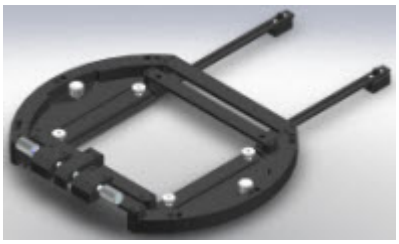
Features

- Accepts 150 mm (6 in) 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

129912 — Probe Card Holder, 4.5 x 7 in to 4.5 x 11 in



Features

- Top loader/front loader functionality
- Maximum probe card thickness: 23 mm (0.9 in), front loading
- Very stiff design
- Requires Platen Insert Ring PH/PC for use in PM300BEP (132521)

Specifications

- For standard formats:
  - Width: 114 mm (4.5 in)
  - Length: 178- 279 mm (7-11 in)
- Theta adjustment range: 5°
- Minimum tip drop: 2 mm (0.08 in)

Compatibility

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

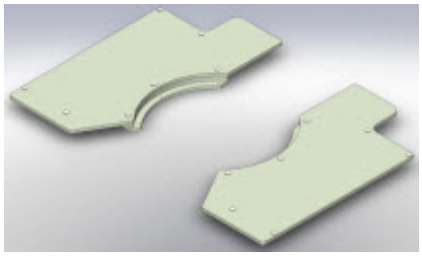
Probe Card Holder Accessories

51127 — Celadon Cable Harness

Features

- 25 triaxial cable harness for Celadon probe cards (single site, multi site), MiniTiles or VersaTiles, length 2 meter (6.6 ft)
  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

100651 — Insert for Probe Card Holder



Features

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

Compatibility

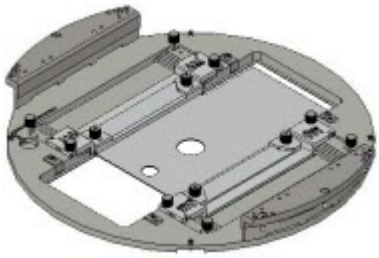
- MPS150, EPS150, PM8, PM300, PA200, PA300 with RF platen,

Probe Card Holders and Accessories

CM300xi

171-226 — Probe Card Holder 4.5 in for shielded CM300xi with Top Chambers

Features



- Used with 114 mm (4.5 in) width probe cards with the CM300xi Advanced and probe card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation
- Easy compensation for different tip drop
- Check probe card for mechanical compatibility (electric connectors, tip drop, wire harness, etc.)

Specifications

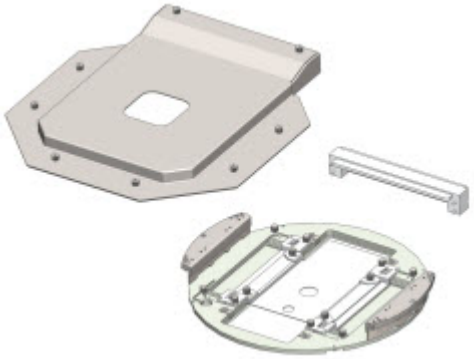
- Probe card support:
  - Max. probe card length = 284 mm (11.2 in) (max. 142 mm [5.6 in] from probe center to front/rear)
  - Tip drop adjustable for 3.0 to 5.0 mm (in 0.5 mm steps)

Compatibility

- CM300xi

171-976 — Probe Card Holder 4.5 in for shielded CM300xi with Cover

Features



- Used with114 mm (4.5 in) width probe cards inside the EMI/ RFI shielded and light-tight CM300xi environment
- Integrated AttoGuard for optimal low-level accuracy
- Frost-free probing
- Use positioners in conjunction with the probe card by removing the PCH cover (open environment)
- Simple and fast installation
- Easy compensation for different tip drop
- Check probe card for mechanical compatibility (electric connectors, tip drop, wire harness, etc.)

Specifications

- Probe card support:
  - Max. probe card length = 284 mm (11.2 in) (max. 142 mm [5.6 in] from probe center to front/rear)
  - Tip drop adjustable for 3.0 to 5.0 mm (in 0.5 mm steps)

Compatibility

- CM300xi

171-977 — Probe Card Holder 4.5 in for shielded CM300xi with Cover and Celadon Probe Cards

Features

- Used with 114 mm (4.5 in) width probe cards inside the EMI/RFI shielded and light-tight CM300xi environment
- Integrated AttoGuard for optimal low-level accuracy
- Frost-free probing
- Use positioners in conjunction with the probe card by removing the PCH cover (open environment)
- Simple and fast installation
- Easy compensation of different tip drop
- Check probe card for mechanical compatibility (electric connectors, tip drop, wire harness, etc.)

Specifications

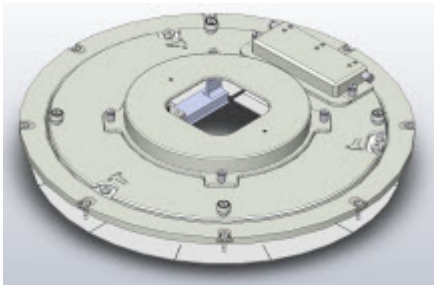
- Probe card support:
  - Max. probe card length = 284 mm (11.2 in) (max. 142 mm [5.6 in] from probe center to front/rear)
  - Tip drop adjustable for 3.0 to 5.0 mm (in 0.5 mm steps)

Compatibility

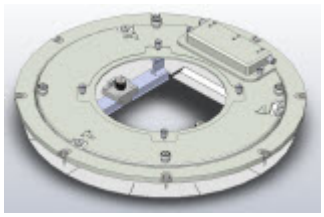
- CM300xi

173-020 — 4.5 in Probe Card Holder, HTS, for Shielded CM300xi

Features



- Probe card holder for 114 mm (4.5 in) rectangular probe cards
- Maintains dark, dry, EMI/RFI shielded environment (CM300xi shielded and fully-shielded)
- Can be oriented E/W/ S/N for short cables to test equipment
- Easy 3-point probe card planarization
- Simple and fast installation, quick changeover from positioners to probe card



Shown with quick access cover removed

- High thermal stability design and materials
- Check probe card for mechanical compatibility (electric connectors, nominal tip drop 4.7 mm [0.185 in], etc.)

Specifications

- Temperature range supported: -60°C (-76°F) to 300°C (572°F)
- For unattended testing of pads down to 30 x 30 µm (1.12 x 1.12 mils) at temperatures between -55°C to +175°C (-67°F to +347°F)
- Probe card support:
  - For Celadon T40 probe cards or compatible
  - Max. probe card length = 160 mm (6.3 in) (max. 80 mm [3.1 in] from probe center to front/rear)
- Height adjustability:
  - For nominal tip drop of 4.7 mm (0.185 in)
  - ProbeHorizon tolerates +/-0.5 mm (0.02 in) of nominal tip drop
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lb)

Compatibility

- CM300xi

ELITE 300/SUMMIT200/TESLA200

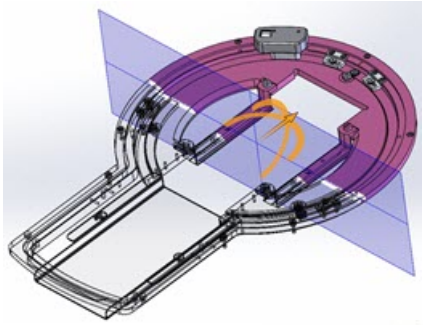
177-600/X2-PIPCH — Probe Card Holder

Features

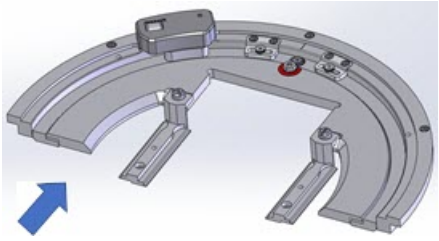
- Universal probe card holder for 114 mm (4.5 in) rectangular probe cards
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- Quick changeover from positioners to probe card
- Supports multiple probe card needle drafts with height adjustment
- Easy 3-point probe card planarization

Specifications

- Temperature range supported: -60°C to 300°C (-76°F to 572°F)
- Probe card support:
  - 114 mm (4.5 in) wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 216 mm (8.5 in) long cards can be up to 64 mm (2.5 in) off center
- Probe card draft (distance between bottom of probe card and probe tip):

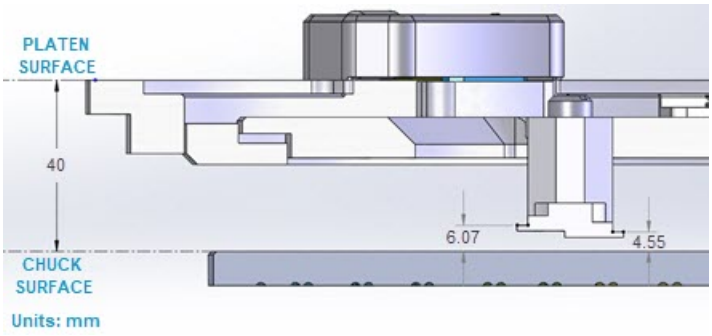


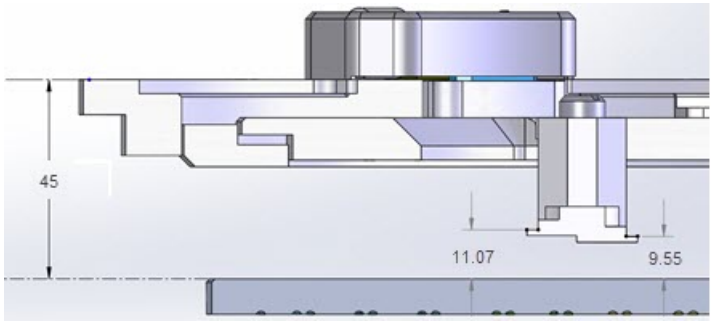
- Front view of this section is shown in Standard PCH rail assembly (PN 162-000) and Optional deep PCH rail assembly (PN 162-001) images below
- All units are in mm



– Standard PCH rail assembly (PN 162-000)

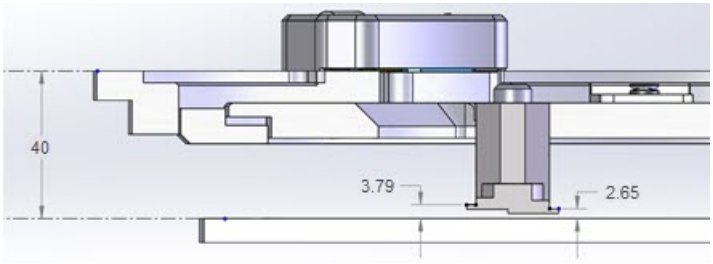
Overall probe card draft = 4.55 mm – 11.07 mm

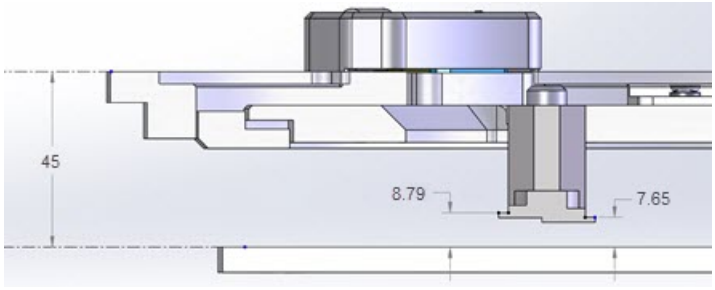




– Optional deep PCH rail assembly (PN 162-001)

Overall probe card draft = 2.65 mm – 8.79 mm

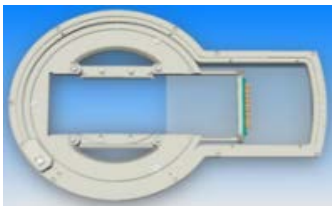




- Theta rotation: ± 7.5°
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lb)

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)
- Standard PCH rail assembly (PN 162-000)



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

Compatibility

- Elite 300/AP, Elite 300/M, SUMMIT200-S, SUMMIT200-AP, SUMMIT200-M (with performance limitations)

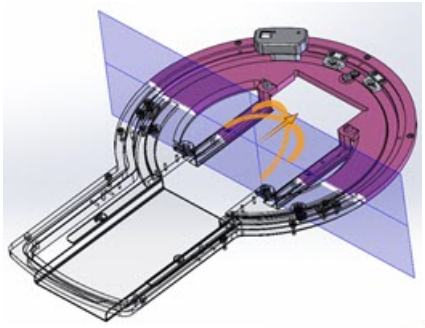
177-610/X2-PIPCHM — MicroChamber Probe Card Holder

Features

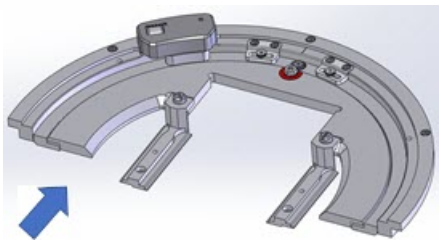
- Universal probe card holder for 114 mm (4.5 in) rectangular probe cards
- Maintains dark, dry, EMI-RFI shielded environment (Elite 300 with MicroChamber)
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle 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 (-76°F to 572°F)
- Probe card support:
  - 114 mm (4.5 in) wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 216 mm (8.5 in) long cards can be up to 64 mm (2.5 in) off center
- Probe card draft (distance between bottom of probe card and probe tip):

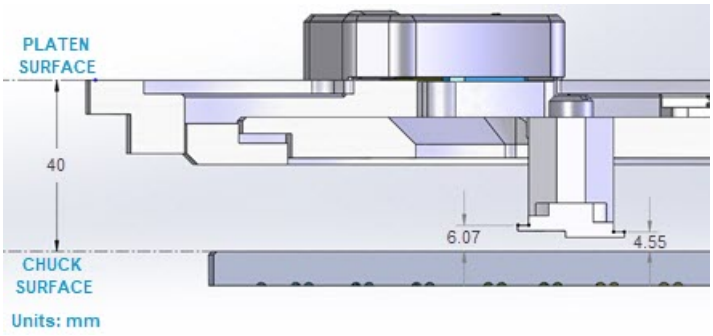


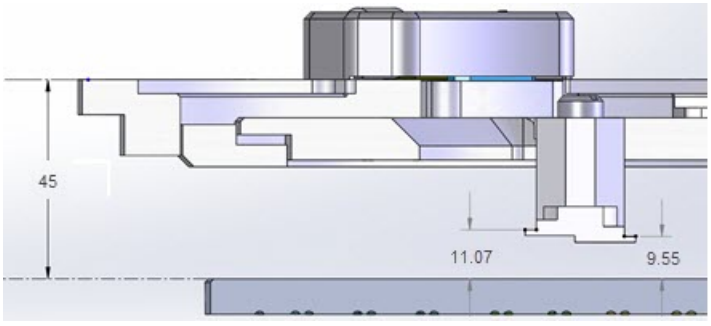
- Front view of this section is shown in Standard PCH rail assembly (PN 162-000) and Optional deep PCH rail assembly (PN 162-001) images below
- All units are in mm



– Standard PCH rail (PN 162-000)

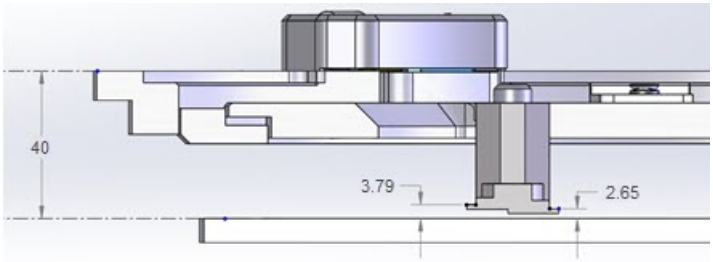
Overall probe card draft = 4.55 mm – 11.07 mm

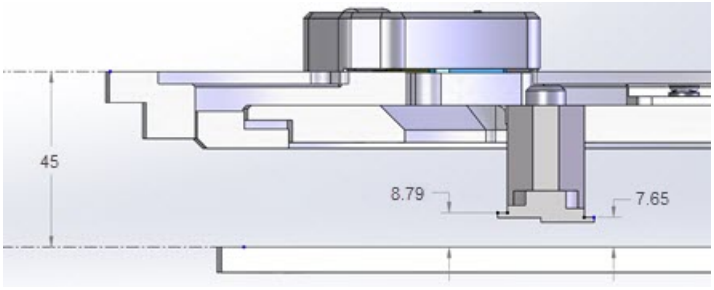




– Optional deep PCH rail (PN 162-001)

Overall probe card draft = 2.65 mm – 8.79 mm



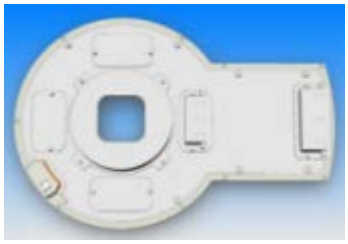


- Theta rotation: ± 7.5°
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lb)

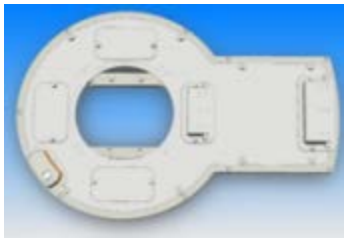
Kit Contents

- 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)
- Standard PCH rail assembly (PN 162-000)

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, SUMMIT200-AP, SUMMIT200-M, TESLA200-AP, TESLA200-M (<= 3kV)

Ordering Information

- For HTS compatible probe card holder, order 177-620

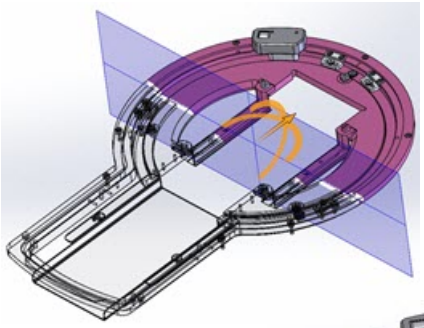
177-620/X2-PIPCHMH — MicroChamber Probe Card Holder, HTS, 40 mm, Universal

Features

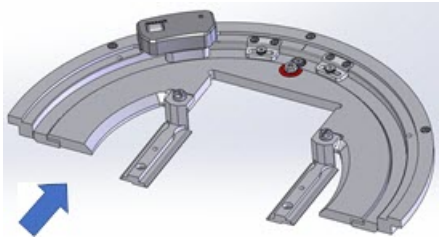
- Universal probe card holder for 114 mm (4.5 in) rectangular probe cards
- Maintains dark, dry, EMI-RFI shielded environment (Elite with MicroChamber)
- PCH can be oriented E/W/ S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- 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 (-76°F to 572°F)
- Probe card support:
  - 114 mm (4.5 in) wide rectangular cards
  - Max. probe card length with edge connector: 11.375
  - Needles for 216 mm (8.5 in) long cards can be up to 64 mm (2.5 in) off center
- Probe card draft (distance between bottom of probe card and probe tip):

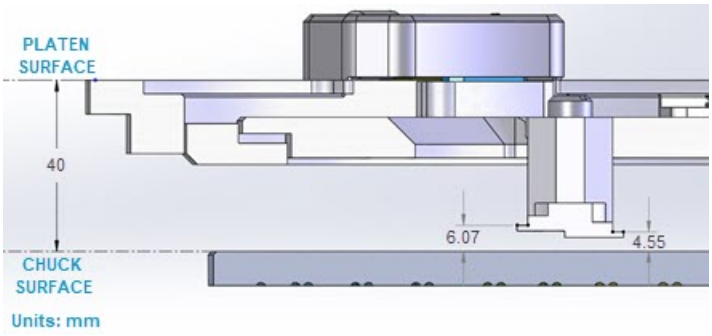


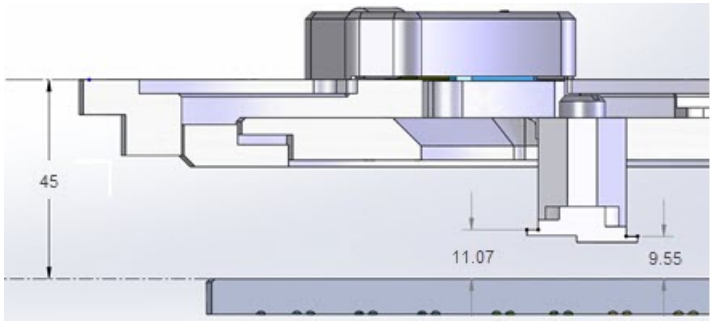
- Front view of this section is shown in Standard HTS PCH rail assembly (PN 162-002) and Optional HTS PCH deep rail assembly (PN 162-003) images below
- All units are in mm



– Standard HTS PCH rail assembly (PN 162-002)

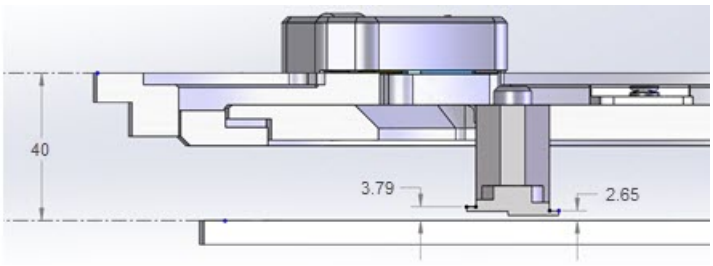
Overall probe card draft = 4.55 mm – 11.07 mm

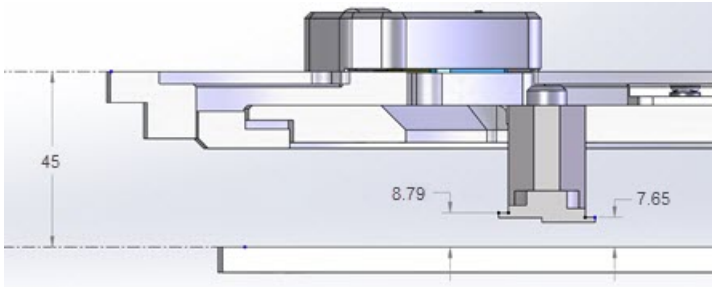




– Optional HTS PCH deep rail assembly (PN 162-003)

Overall probe card draft = 2.65 mm – 8.79 mm



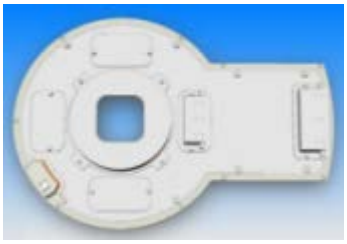


- Theta rotation: ± 7.5°
- Max planarization height range: up to 40 mils compression at each planarization point (3)
- Max probe card force: 20 kg (44 lb)

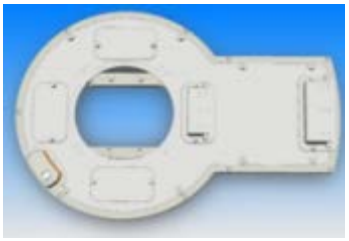
Kit Contents

- 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)
- Standard HTS PCH rail assembly (PN 162-002)

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 with HTS platen, SUMMIT200-AP, SUMMIT200-M, TESLA200-AP, TESLA200-M (<= 3kV)

SUMMIT/S300

110-367 — Probe Card Holder for 6 in Round Cards

Features

- Probe card holder for 152 mm (6 in) round cards
- Mounts on Summit 12000 and S300

Specifications

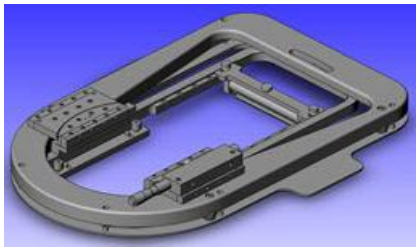
- 152 mm (6 in) round probe card holder (for Pyramid probe cards)
- Theta adjustment
- No Z (height) adjustment (probe station Z is required)

Compatibility

- Summit, 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 114 mm (4.5 in) rectangular probe cards up to 289 mm (11.375 in) long
- Stable 3-point planarization adjustment
- Easy probe card height setting (three incremental settings)
- Probe card height adjustment accommodates FormFactor 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 (44 lb) (2,000 needles)
- Temperature range:
  - System with MicroChamber -55ºC to 300ºC (-67ºF to 572ºF)
  - System without MicroChamber ambient to 300ºC (572ºF)
- Theta range: ±3º
- Maximum planarization height compensation: 1.27 mm (0.050 in)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5 in ±.012 in)
  - L = 15.25 cm 28.9 cm (6 in 11.375 in)
  - Thickness = 0.15 cm 0.32 cm (0.060 in 0.125 in)

Compatibility

- Summit, 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 114 mm (4.5 in) rectangular probe cards up to 289 mm (11.375 in) long
- Maintains a dark and dry EMI-RFI shielded environment (MicroChamber version only)
- Stable 3-point planarization adjustment
- Easy probe card height setting (three incremental settings)
- Probe card height adjustment accommodates FormFactor 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 (44 lb) (2,000 needles)
- Temperature range:
  - System with MicroChamber -55ºC to 300ºC (-67ºF to 572ºF)
  - System without MicroChamber ambient to 300ºC (572ºF)
- Theta range: ±3º
- Maximum planarization height compensation: 1.27 mm (0.050 in)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5 in ±.012 in)
  - L = 15.25 cm 28.9 cm (6 in 11.375 in)
  - Thickness = 0.15 cm 0.32 cm (0.060 in 0.125 in)

Compatibility

- Summit

122-437 — Edge Connector Kit Probe Card Holders

Features

- Edge connector kit for Summit 114 mm (4.5 in) probe card holders
- Support both 48 and 70 pin standard edge connectors
- Pivots for easy loading of probe card

Kit Contents

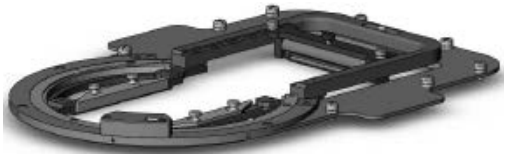
- Edge connector mount
- 48 pin edge connector
- 70 pin edge connector

Compatibility

- Summit, S300

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

Features



- Support for 114 mm (4.5 in) rectangular probe cards up to 289 mm (11.375 in) 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
- Enables use of DCP probes without probe card in place
- Accurate, front-located theta adjustment wheel
- Stable 3-point planarization adjustment
- Probe card height adjustment accommodates variability in probe card needle depth
- Probe card height adjustment accommodates FormFactor low leakage probe cards and other probe cards
- Includes 48 pin and 70 pin edge connectors

Specifications

- Maximum probe needle force: 1 kg (2.2 lb) (100 needles)
- Theta range ±3°
- Maximum planarization height compensation: 0.762 mm (0.030 in)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5 in ±.012 in)
  - L = 15.25 cm 28.9 cm (6 in 11.375 in)
  - Thickness = 0.15 cm 0.32 cm (0.060 in 0.125 in)

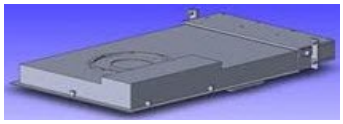
Compatibility

- Summit

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

Features

With cover



Cover removed

- Support for 114 mm (4.5 in) rectangular probe cards up to 289 mm (11.375 in) 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
- Enables 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 3-point planarization adjustment
- Probe card height adjustment accommodates FormFactor low leakage probe cards and other probe cards
- Includes 48 pin and 70 pin edge connectors

Specifications

- Maximum probe needle force: 1 kg (2.2 lb) (100 needles)
- Temperature range:
  - System with MicroChamber -55°C to 200°C (-67° to F392°F)

– System without MicroChamber ambient to 200°C (392°F)

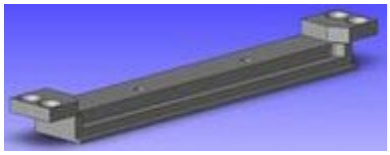
- Theta range ±3°
- Maximum planarization height compensation: 0.762 mm (0.030 in)
- Probe card maximums:
  – W = 11.4 cm ±3 mm (4.5 in ±.012 in)
  – L = 15.25 cm 28.9 cm (6 in 11.375 in)
  – Thickness = 0.15 cm 0.32 cm (0.060 in 0.125 in)

Compatibility

- Summit

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 Low-Profile Probe Card Holder for Summit Stations with MicroChamber (124-118)

Specifications

- Increases the draft from 2.03 to 4.57 mm (0.08 to 0.18 in)

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 FormFactor 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 m (5 ft) 50 Ohm low noise triax cable and triax plug BNC
- Highly isolated and gold plated needle clamping

Specifications

- Max. operation temperature: 300°C (572°F)
- 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

- MPS150, EPS150, 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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + DPP3xx-S, DPP450-S (and former PH150, PH400)

100561 — Probe Arm, DPP2xx/DPP3xx, Coax, BNC

Features

- 2 m (6.5 ft) 50 Ohm coaxial cable with BNC connector
- Gold plated needle clamp

Specifications

- Resistance: >100 TOhm
- Leakage: <120 fA
- Capacitance: <300 pF

Compatibility

- MPS150, EPS150, 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

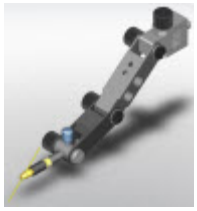
Features

- (2) 2 m (6.5 ft) coaxial cables, 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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)

100715 — Probe Arm, DPP2xx/DPP3xx, Adjustable, Coax, BNC



Features

- 2 m (6.5 ft) 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

- MPS150, EPS150, 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 m (6 ft) 50 Ohm cable with coaxial plug BNC

Compatibility

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH120, PH150, PH400)

155-369 — Adapter, RPP2xx/DPP2xx Non-S to DPP2xx-S

Features

- Used for mounting DC arms for open systems on RPP2xx/DPP2xx non-S positioners
- RF arm must be disassembled from the RPP2xx positioner

Specifications

- Used to mount 1 (each) of 100489/ 100524/100525/100560/100561/100696/100715/131844
- Not for use with 144139

Compatibility

- EPS150/200, PM8, PA200, PM300 + RPP2xx

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

- MPS150, EPS150, 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.

RF Probe Arms, RPP210-S

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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)
- Arms are not compatible with EPS200RF, EPS200MMW, or PM8 with RF or MMW platen. For these systems, the platen adapter (PN 100651) is required, or you may consult a FormFactor representative for custom arms.

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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)
- Arms are not compatible with EPS200RF, EPS200MMW, or PM8 with RF or MMW platen. For these systems, the platen adapter (PN 100651) is required, or you may consult a FormFactor representative for custom arms.

RF Probe Arms, RPP305

100624 — Probe Arm, RPP305, East-West, Mirrored

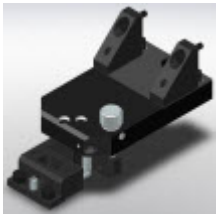
Features

- 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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

100647 — Probe Arm, RPP305, East



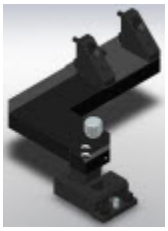
Features

- 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)

100648 — Probe Arm, RPP305, East-West



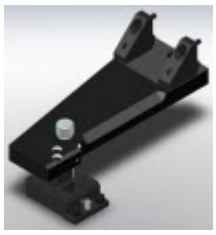
Features

- 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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

100649 — Probe Arm, RPP305, North-South



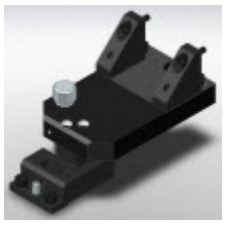
Features

- 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

- MPS150, EPS150, all PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

118160 — Probe Arm, RPP305, West



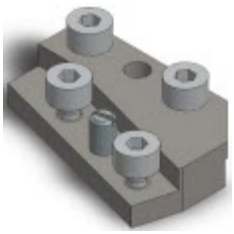
Features

- 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

RFA Probe Arms, RPP404/RPP404-W/RPP504 (Coax up to 67 GHz)

RFA-67-EW

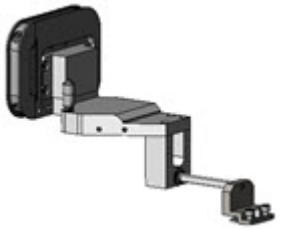
Features

- East/West probe arm enables mounting of probe only (no frequency extender)
- Compatible with 8-sided MicroChamber TopHat or open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-67-EW-TH



Features

- East/West probe arm enables mounting of probe only (no frequency extender)
- Compatible with 8-sided MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

Boot/FlexShield

RFA Probe Arms, RPP404/RPP404-W/RPP504 (COAX up to 130 GHz with Keysight N5291A)

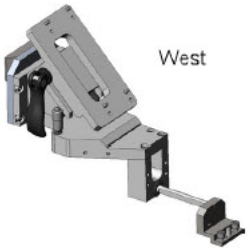
RFA-K120-E/W

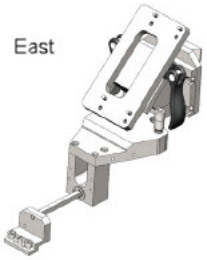
Features

- East/West probe arm enables mounting of Keysight N5291 frequency extender
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners





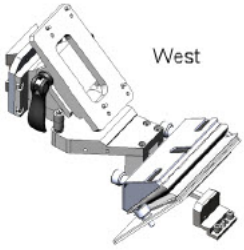
RFA-K120-E/W-TH

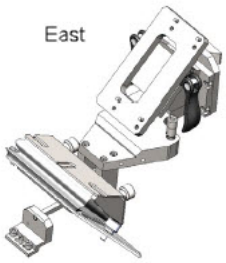
Features

- East/West probe arm enables mounting of Keysight N5291 frequency extender
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners





Boot/FlexShield

RFA Probe Arms, RPP404/RPP404-W/RPP504 (mmWave and THz with VDI Mini Extenders)

RFA-VDI-EW

Features

- East/West probe arm enables mounting of VDI Mini frequency extender
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-VDI-EW-TH

Features

- East/West arm enables mounting of VDI Mini frequency extender
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations
- Non-Tophat plates (for closer coupling) and TopHat adapter included

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA Probe Arms, RPP404/RPP404-W/RPP504 (Load-Pull with Focus Microwaves DELTA Tuners)

RFA-F67-E

Features

- East probe arm enables mounting of Focus Microwaves Delta Tuner
- 67 GHz, fundamental (C-672xx) / harmonic (M-67100), load
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F67-W

Features

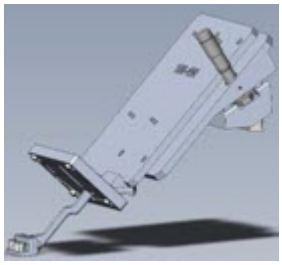
- West probe arm enables mounting of Focus Microwaves Delta Tuner
- 67 GHz, fundamental (C-672xx) / harmonic (M-67100), source
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F67-E-TH

Features



- East probe arm enables mounting of Focus Microwaves Delta Tuner
- 67 GHz, fundamental (C-672xx) / harmonic (M-67100), load
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations
- Non-Tophat plates (for closer coupling) and TopHat adapter included

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F67-W-TH

Features

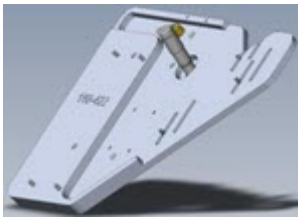
- East probe arm enables mounting of Focus Microwaves Delta Tuner
- 67 GHz, fundamental (C-672xx) / harmonic (M-67100), source
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations
- Non-Tophat plates (for closer coupling) and TopHat adapter included

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F110-EH

Features



- East probe arm enables mounting of Focus Microwaves Delta Tuner
- 110 GHz, harmonic, (M-1102XX / M-1105XX), load
- Compatible with open (non-TopHat) configurations
- Requires one of the following:
  - PN 188-768 Nikon Objective Kit for eVue, 10X (contains spacer and lens)
  - PN 188-769 Nikon Objective Kit for eVue, 20X (contains spacer and lens)

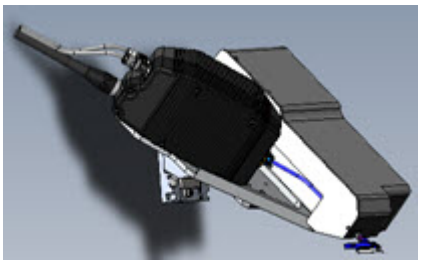
Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F110-WH

Features

- West probe arm enables mounting of Focus Microwaves Delta Tuner
- 110 GHz, harmonic, (M-1102XX / M-1105XX), source
- Compatible with open (non-TopHat) configurations
- Requires one of the following:
  - PN 188-768 Nikon Objective Kit for eVue, 10X (contains spacer and lens)
  - PN 188-769 Nikon Objective Kit for eVue, 20X (contains spacer and lens)



RFA-F110-WH with tuner

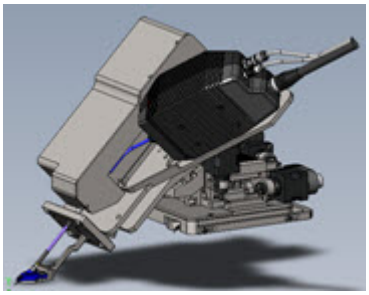
Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F110-EH-TH

Features

- East probe arm enables mounting of Focus Microwaves Delta Tuner
- 110 GHz, harmonic, (M-1102XX / M-1105XX), load
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations
- Non-Tophat plates (for closer coupling) and TopHat adapter included



RFA-F110-EH-TH with tuner (positioner shown, not included)

RFA-F110-EH-TH assembled on system

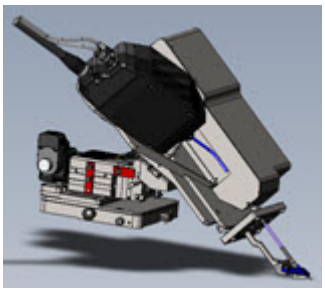
Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-F110-WH-TH

Features

- West probe arm enables mounting of Focus Microwaves Delta Tuner
- 110 GHz, harmonic, (M-1102XX / M-1105XX), source
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations
- Non-Tophat plates (for closer coupling) and TopHat adapter included



RFA-F110-WH-TH with tuner (positioner shown, not included)

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA Probe Arms, RPP404/RPP404-W/RPP504 (Single Sweep Broadband Measurements from DC to 220GHz)

RFA-K220-E

Features

- East probe arm enables mounting of N5291/VDI with T-Wave BB probe
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-K220-W

Features

- West probe arm enables mounting of N5291/VDI with T-Wave BB probe
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

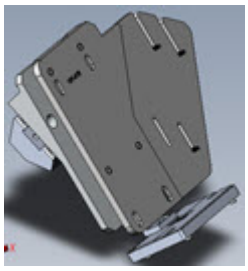
RFA-K220-E-TH

Features

- East probe arm enables mounting of N5291/VDI with T-Wave BB probe
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners



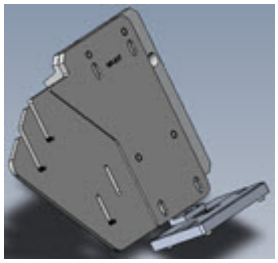
RFA-K220-W-TH

Features

- West probe arm enables mounting of N5291/VDI with T-Wave BB probe
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners



RFA Probe Arms, Maury Nano5G

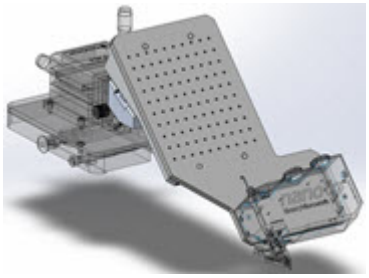
RFA-MN5G-EW

Features

- East/West arm enables mounting of Maury Nano5G frequency extender
- Compatible with open (non-TopHat) configurations

Compatibility

- RPP404, RPP404-W, RPP504 positioners

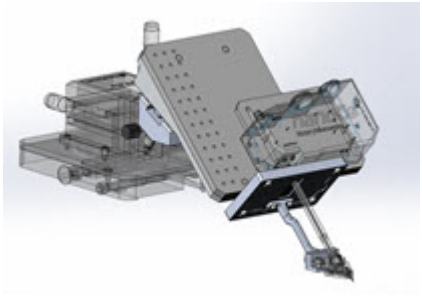


Arm, positioner, and probe assembly shown
(transparent parts not included)

RFA-MN5G-EW-TH

Features

- East/West arm enables mounting of Maury Nano5G frequency extender
- Compatible with RF MicroChamber TopHat (includes boot/FlexShield) or open (non-TopHat) configurations (but not direct dock)



Arm, positioner, and probe assembly shown
(transparent parts not included)

Compatibility

- RPP404, RPP404-W, RPP504 positioners

RFA-RS170-EW

Features

- East/West arm enables mounting of Rohde & Schwarz FE170SR and FE170ST
- Compatible with open (non-TopHat) configurations

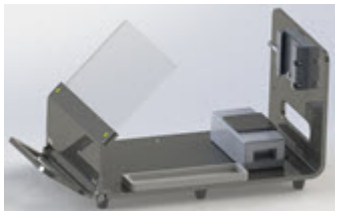
Compatibility

- RPP404, RPP404-W, RPP504

RFA Probe Arms Storage Pod

780-00169 — RFA Series Probe Arms Storage Pod

Features



- Enables safe storage of populated RFA arms
- Stores RFA probe arms while configured with probes, VNA frequency extenders and/or tuners, and associated port savers and flex-shields.
- Enables safe and efficient RFA arm changes and band swapping
- Reduces the risk of damage to the probe during arm changes
- Fitting hardware enables placement of the VDI Mini VNAX power supply to keep the extender warm between band swaps, minimizing drift and maximizing prober utilization
- Integrated trays enable storage of probing accessories
- Enables probe assembly from a sitting position, away from the prober
- A hinged, anti-static, cleanroom-safe window protects probes from accidental damage and prevents accidental probe tip contact, while allowing safe, ergonomic probe arm loading
- Ergonomic hand grips ensure safe and secure handling of valuable test equipment
- Each pod stores one populated probe arm
- Storage pod can be placed on the prober platen during band swaps on the CM300 and Summit 12k / Summit 200 probe stations

(depending on configuration)

Specifications

- Dimensions (L x W x H): 350 x 175 x175 mm (or larger, depending on stored parts [e.g., RFA-K220])

Compatibility

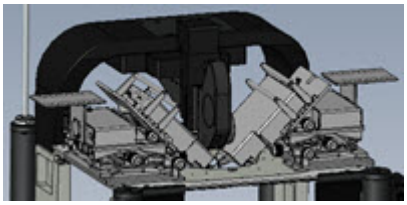
(Denotes all variants)*

- Compatible with, but not limited to, TopHat and non-TopHat configurations with the following arms:
  - RFA-67* - Coaxial sub 67 GHz probes
  - RFA-K120* - Keysight Coaxial N5295AX03, used as part of N5291A extenders up to 130 GHz
  - RFA-K220* - N5291/VDI with T-Wave BB probe
  - RFA-VDI* - VDI Waveguide Mini models and S geometry Waveguide probes to 500 GHz, for both Tophat and non-TopHat
  - RFA-F* - Focus delta tuner arms
- Compatible with both FM4910 and UL94-V0 industry standards for safety against combustion and smoke generation

Tuner Integration Kits

780-00612 — Integration Kit for Focus Microwave Tuner M-4030 or L-4030 on CM300

Features



- Enables integration of the Focus Microwave Tuner M-4030 and L-4030 on the CM300
- Positioner and tuner are supplied by Focus Microwave

Specifications

- eVue cover (PN 188-682) is required until eVue IV

Configuration

- Qty one required for each side
- Configurable with both East and West tuners

Compatibility

- CM300, Non-TopHat solution only

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 m (2.5 ft) 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 (572°F)

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

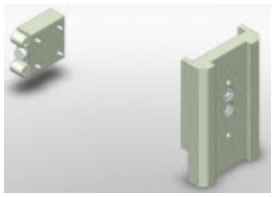
Specifications

- 2 x 0.75 m (2.5 ft) 50 Ohm low-noise triax cable and 3 lug Triax plug
- For use with temperature chucks up to 300°C (572°F)

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

- MPS150, EPS150, CM300xi stations, PM/PA stations + DPP3xx-S, DPP450-S (and former PH150)

138700 — Probe Arm, DPP2xx/DPP3xx, Pico Probe

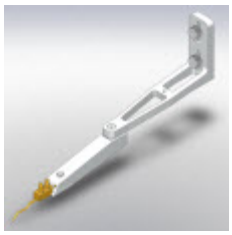
Features

- 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 (2) 0.7 m (2.3 ft) cables, 3-lug Triax-SSMC for IV and Kelvin measurements

Specifications

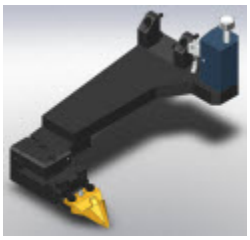
- DC leakage <10 fA at ambient temperature

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

- PM300PS, PA300 MicroAlign + RPP305 (and former PH250)

133303 — Probe Arm, RPP305, East-West

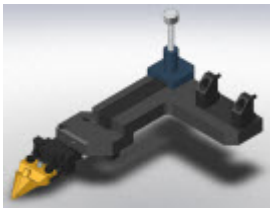
Features

- 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

- PM300PS, 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

- PM300PS, 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, CM300xi 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

Probe Arm, Optical Fiber

145533 — Probe Arm, Optical Fiber 125 µm, 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 µm (9.8 mils) for 125 µm (4.9 mils) fiber cores and jacket
- Fiber angle vertical adjustable 80°-90°

Compatibility

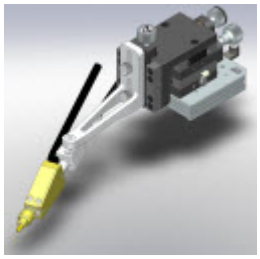
- DPP2xx (and former PH110)

Probe Arms, PM5 Power Systems

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

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

Danger

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 (572°F)
- Requires arm holder for RPP210

Specifications

- 1.2 m (4 ft) coax cable with 10 kV plug
- Operating voltage up to 10 kV

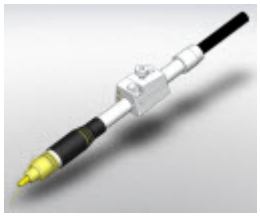
Compatibility

- PM5 Power

145297 — Probe HV Triax / 3 kV

Danger

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 (572°F)
- Stainless steel design for high rigidity and minimum thermal drift
- Requires arm holder for RPP210

Specifications

- 1.2 m (4 ft) coax cable with HV triax plug
- Operating voltage up to 3 kV with lowest leakage

Compatibility

- PM5 Power

145298 — Probe HV Coax / 3 kV

Danger

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 (572°F)
- Requires arm holder for RPP210

Specifications

- 0.75 m (2.5 ft) coax cable with SHV plug
- Operating voltage up to 3 kV

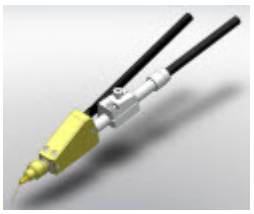
Compatibility

- PM5 Power

145300 — Probe HV Triax / Kelvin / 3 kV

Danger

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 (572°F)
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 m (4 ft) 50 Ohm triaxial cable with HV Triax plug
- Operating voltage up to 3 kV

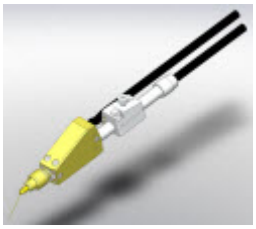
Compatibility

- PM5 Power

145301 — Probe HV Coax / Kelvin / 3 kV

DANGER

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 (572°F)
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 m (4 ft) 50 Ohm coaxial cable with SHV plug
- 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 (572°F)
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 m (4 ft) 50 Ohm coaxial cable with BNC connector

Compatibility

- PM5 Power

146083 — Sigma for B1505A/SE

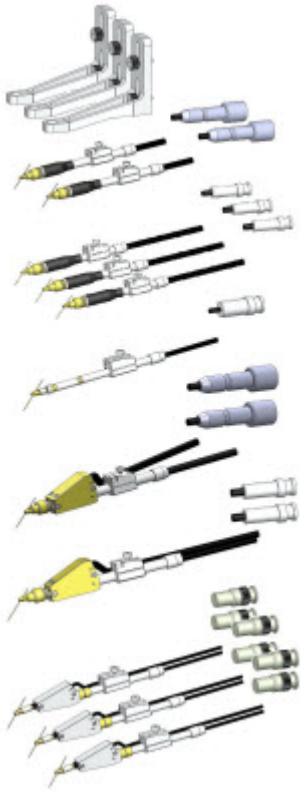
DANGER

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:
  - 3 DPP2xx-M positioners with MAG base
  - Standard probe needles suitable for desired voltage/ current range



Compatibility

- PM5 Power System

146151 — Mounting B1505A/Module Selector/SE

DANGER

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.

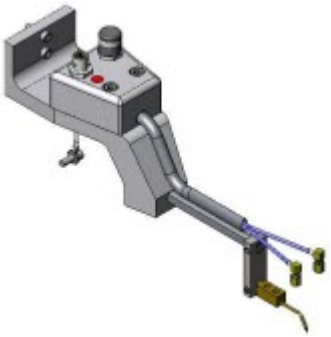
Compatibility

- PM5 Power System

CM300xi DC Probe Mounts and Holders

TopHat Configuration

163-593 — DCP Probe Mount, 43mm, Dual Triax, 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° to 300°C (-140° to 572°F, above 250°C [482°F]: 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 (jack) to SSMC (m)
- EMI shielding cap
- EMI grounding strap

Compatibility

- CM300xi 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

- CM300xi with TopHat, Elite 300

163-597 — Needle Probe Mount, 43mm, Enhanced Jack Lock Holder, DPP2xx

Features

- Probe mount for 45° bend PTT needles
- 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

- CM300xi with TopHat, Elite 300

Top Chamber Configuration

163-307 — Probe Arm, DPP2xx/DPP3xx for DCP Probe

Features

- For CM300xi 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 0.7 m (2.3 ft) long 3-lug Triax-SSMC for IV and Kelvin measurements

Specifications

- DC leakage <10 fA at ambient temperature

Compatibility

- CM300xi MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

163-309 — Probe Arm, DPP2xx/DPP3xx, Triax

Features

- For use with CM300xi 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 m (2.3 ft) 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 (572°F)

Compatibility

- CM300xi MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

163-311 — Probe Arm, DPP2xx/DPP3xx, Triax, Kelvin 1Tip

Features

- For use with CM300xi 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 m (2.3 ft) 50 Ohm low-noise triax cable and 3 lug Triax plug
- For use with temperature chucks up to 300°C (572°F)

Compatibility

- CM300xi MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

163-313 — Probe Arm, DPP2xx/DPP3xx, Pico Probe

Features

- For CM300xi 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

- CM300xi MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

Elite 300 and Summit DC Probe Mounts and Holders

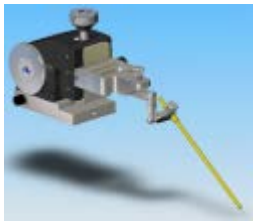
144-388 — Universal Probe Holder with Dovetail Adapter Kit

Features

- Universal probe holder for DPP series positioners (incompatible with TopHat)
- Locking universal swivel in 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



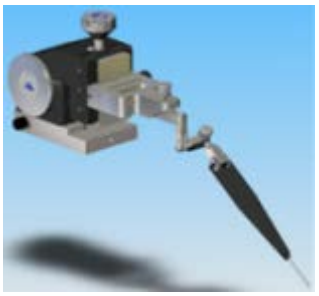
Universal probe holder shown mounted on a DPP2xx positioner, with a straight coaxial probe and PTT needle combination

Universal probe holder shown mounted on a DPP3xx/DPP450 positioner, with a straight coaxial probe and PTT needle combination

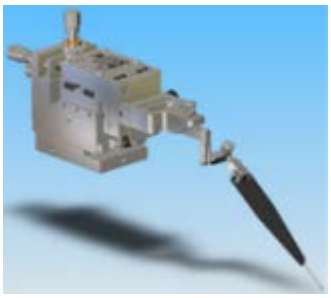
Compatibility

- Elite 300/AP, Elite 300/M, Summit, SUMMIT200

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

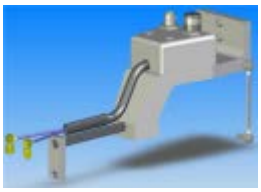
Features

- Adapts pico probe high impedance probes to the universal probe holder

Compatibility

- Elite 300, Summit, SUMMIT200

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 (-140° to +572°F, above +250°C [+482°F]: 8 hours max. operation)
- Precision Industry Standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

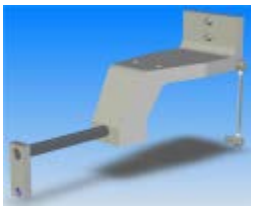
Kit Contents

- Probe to positioner mount
- Dual triaxial adapter (Kelvin), mini triax (jack) to SSMC (m)
- EMI shielding cap
- EMI grounding strap

Compatibility

- Elite 300/AP, Elite 300/M, Summit (with HTS platen upgrade), SUMMIT200, TESLA200

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

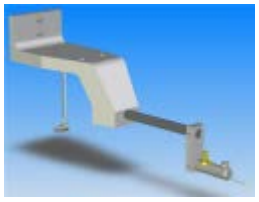
Kit Contents

- Probe to positioner mount
- EMI grounding strap

Compatibility

- Elite 300/AP, Elite 300/M, Summit (with HTS platen upgrade), SUMMIT200, TESLA200

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
- 1 m (3.3 ft) coax (m) to SSMC (m)
- 46 cm (18 in) cable with pin jack (m) to (m)
- EMI grounding strap

Compatibility

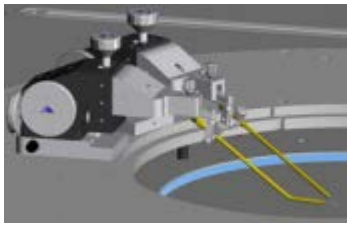
- Elite 300/AP, Elite 300/M, Summit (with HTS platen upgrade), SUMMIT200, TESLA200

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
- The temperature of the cable containing arm must not exceed 200°C. Usually this is suitable for 300°C wafer temperature in an open setup with an arm at least 10mm above the wafer.



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, 76 cm (30 in) with SMA (m) to BNC plug

Compatibility

- Elite 300, Summit, SUMMIT200

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
- The temperature of the cable containing arm must not exceed 200°C. Usually this is suitable for 300°C wafer temperature in an open setup with an arm at least 10mm above the wafer.

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, 76 cm (30 in) with SMA (m) to BNC plug

Compatibility

- Elite 300, Summit, SUMMIT200

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
- The temperature of the cable containing arm must not exceed 200°C. Usually this is suitable for 300°C wafer temperature in an open setup with an arm at least 10mm above the wafer.

Kit Contents

- Straight triax probe
- Integrated triaxial low-noise cable, 76 cm (30 in) with triax (m) connector

Compatibility

- Elite 300, Summit, SUMMIT200

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
- The temperature of the cable containing arm must not exceed 200°C. Usually this is suitable for 300°C wafer temperature in an open setup with an arm at least 10mm above the wafer.

Kit Contents

- Bent 35 ° triax probe
- Integrated triaxial low-noise cable, 76 cm (30 in) with triax (m) connector

Compatibility

- Elite 300, Summit, SUMMIT200

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
- 46 cm (18 in) 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, SUMMIT200

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

- 114 mm (4.5 in) in length
- Nickel plated brass
- Quick lock mechanism

Kit Contents

- Probe tip holder
- MAE-44/18 cable 46 cm (18 in)

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

- 114 mm (4.5 in) in length
- Nickel plated brass
- Wrench lock mechanism

Kit Contents

- Probe tip holder
- MAE-44/18 cable 46 cm (18 in)
- 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 (-140° to +572°F, above +250°C [+482°F]: 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 (-140° to +572°F, above +250°C [+482°F]: 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 (-140° to +572°F, above +250°C [+482°F]: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

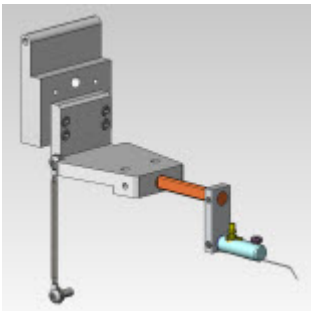
Kit Contents

- 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

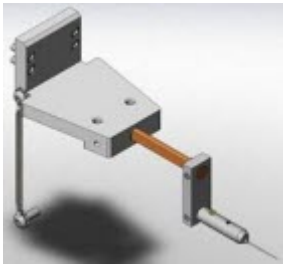
Kit Contents

- 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

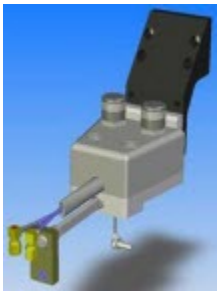
Kit Contents

- 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 (-140° to +572°F, above +250°C [+482°F]: 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

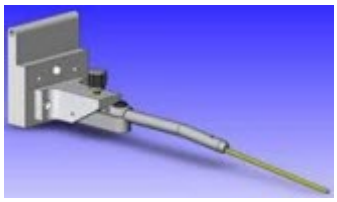
Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

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 46 cm (18 in)

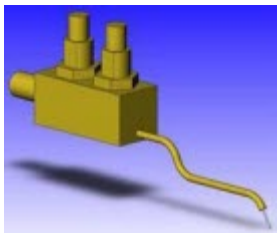
Compatibility

- 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 µm 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 -65º to 150ºC (-149º to 302ºF)
- 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 FormFactor's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

Specifications

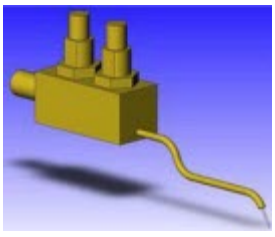
- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 10^{13} ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65° to +150°C (-149º to +302ºF)
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 0.5 µm (0.2 mils) radius probe tip

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See Replaceable Probe Tips on page 11 for compatible replacement probes

DCP-115R — DC Coaxial Probe, Single Line, 1.5 µm 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 -65º to 150ºC (-149º to 302ºF)
- 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 FormFactor's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

Specifications

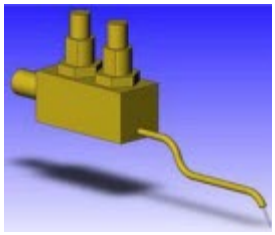
- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 10^{13} ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65° to +150°C (-149º to +302ºF)
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 1.5 µm (0.06 mils) radius probe tip

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See Replaceable Probe Tips on page 11 for compatible replacement probes

DCP-150R — DC Coaxial Probe, Single Line, 5.0 µm, 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° to +150°C (-149º to +302ºF)
- 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 FormFactor's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

Specifications

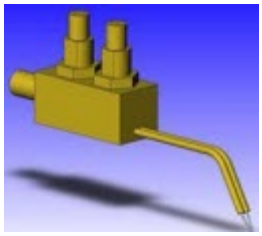
- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 10^{13} ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65° to +150°C (-149º to +302ºF)
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm (0.2 mils) radius probe tip

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See Replaceable Probe Tips on page 11 for compatible replacement probes

DCP-150K-25 — DC Coaxial Probe, Kelvin, 25 µm Pitch, 5.0 µm Tip Radius

(Packages of 4 available by ordering DCP-150K-25-4)



Features

- True Kelvin Probe, two 5 µm (0.2 mils) radius tips separated by 25 µm (0.98 mils)
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65° to +150°C (-149º to +302ºF)
- 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 FormFactor's complete measurement solution
- Configurable for triax usage

Specifications

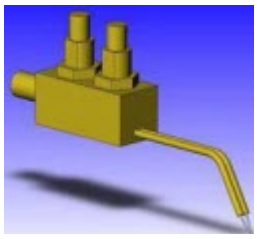
- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 10^{13} ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65° to +150°C (-149º to +302ºF)
- Characteristic impedance: 50 ohms
- Probe Tip separation: 25 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm (0.2 mils) radius probe tip

Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi

DCP-150K-50 — DC Coaxial Probe, Kelvin, 50 µm Pitch, 5.0 µm Tip

(Packages of 4 available by ordering DCP-150K-50-4)



Features

- True Kelvin Probe, two 5 µm (0.2 mils) radius tips separated by 50 µm (2.0 mils)
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65° to +150°C (-149º to +302ºF)
- 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 FormFactor's complete measurement solution
- Configurable for triax usage

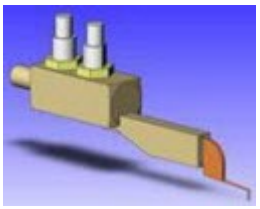
Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 10^{13} ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65° to +150°C (-149º to +302ºF)
- Characteristic impedance: 50 ohms
- Probe Tip separation: 50 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm (0.2 mils) radius probe tip

Compatibility

- CM300xi, 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 1E13 ohms
- Temperature range -65° to +300°C (-149º to +572ºF)
- Leakage noise: ± 10fA@-65 to +200°C, ± 20fA@200 to 300°C
- Does not include replaceable tip

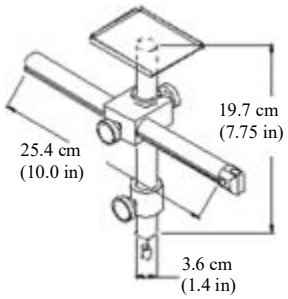
Compatibility

- CM300xi, PA/PM, MicroAlign, Elite 300, Summit, S300, M150, Alessi
- See Replaceable Probe Tips on page 11 for compatible replacement probes

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 11000/12000 systems
- Uses standard bonder arm mounts
- Not compatible with eVue, Mitutoyo, Seiwa, or A-Zoom microscopes

Compatibility

- Summit

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 ± 5.5°
- Resolution 0.65 µm (0.03 mils)*
- Repeatability ± 2 µm (0.08 mils)*
- Accuracy ± 2 µm (0.08 mils)* standard moves, ± 3 µm (0.12 mils)* large moves

** Measured at edge of 200 mm (8 in) chuck*

Kit Contents

- New motorized Theta/Z-stage assembly
- Interconnect board electronics for 80-pin motor controller
- Motor driver and complete accessories

Compatibility

- Summit 12000

131-924 — Motorized Theta Upgrade Kit for Summit 12000 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 ± 5.5°
- Resolution 0.65 µm (0.03 mils)*
- Repeatability ± 2 µm (0.08 mils)*
- Accuracy ± 2 µm (0.08 mils)* standard moves, ± 3 µm (0.12 mils)* large moves

*Measured at edge of 200 mm (8 in) chuck

Kit Contents

- New motorized Theta/Z-stage assembly
- Interconnect board electronics for 68-pin motor controller
- Motor driver and complete accessories

Compatibility

- Summit 12000

158-073 — Large Area Optics Bridge Mount

Features

- Larger area 152 x 203 mm (6 x 8 in) 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

- 152 mm (6 in) X axis movement range (±76 mm [3 in] from center of travel)

- 203 mm (8 in) Y axis movement range (±102 mm [4 in] from center of travel)
- 76 mm (3 in) linear manual Z lift

Compatibility

- Summit

162-160 — High Stability Optics Bridge Mount (Manual 2x2)

Features

- High stability 51 x 51 mm (2 x 2 in) XY microscope transport
- Easy coaxial manual XY drive controls
- Pneumatic vertical z-lift (102 mm [4 in] 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

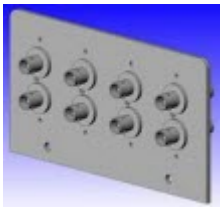
- 51 mm (2 in) X axis movement range (±25 mm [1 in] from center of travel)
- 51 mm (2 in) Y axis movement range (±25 mm [1 in] from center of travel)

Compatibility

- Summit 12000

Connection Panels (Coax, Triax, Pin jack, Banana Vacuum)

105-626 — Triax Connection Panel, Side Mount



Features

- Optional Triax connection panel for convenient cable management
- Designed to mount to the side of the Summit series platen
- 8 Triax (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

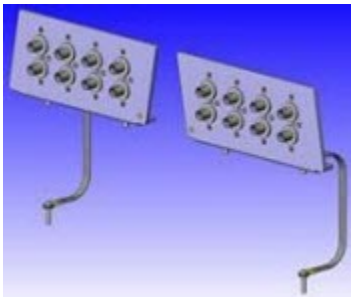
- 12 Triax (3-lug) feed through connectors (f)
- 2 BNC (2-lug) feed through connectors (f)
- 4 BNC to pin jack feed through connections
- Shorting bar to set the plane float or grounding setting
- Six 1/8 in barb output vacuum manifold for vacuum base positioner support

Compatibility

- Summit

118-640 — Triax Connection Panel, High Stability Bridge Config, S300

Features



- Set of Triax 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 Triax (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 Triax 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 Triax (3-lug) feed through connectors (female)
- 4 BNC connectors
- 2 banana connectors
- Ground strap on each side

Compatibility

- Summit

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 3 mm (1/8 in) vacuum hose

Compatibility

- Summit, S300

RAC-92 — Pin Jack to Banana Interface Panel, High Stability Optical Bridge

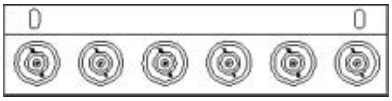
Features

- 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

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 13 mm (0.5 in) OD quick connect style
- Scale resolution is 14 l/min (0.5 SCFM)

Compatibility

- Summit

106-889 — Dust Cover for Summit Systems

Features

- Semi-transparent vinyl dust cover for Summit 11000/12000 system
- Provides protection for periods when the system is not in use

Compatibility

- Summit

116-441 — Enhanced RF Shielded MicroChamber TopHat Kit

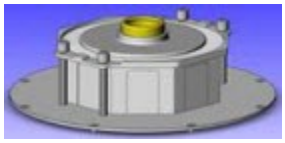
Features

- 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

116-511 — MicroChamber Large TopHat Upgrade Kit



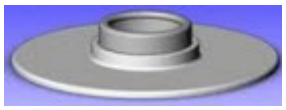
Features

- 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

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

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.

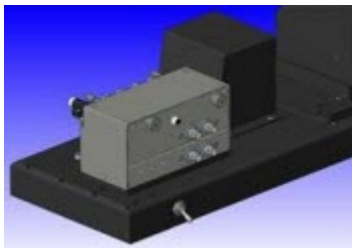
Specifications

- Mount for two Keysight B1500 Atto Sense units
- 4 Triax (3-lug) feed through connectors (female)

Compatibility

- Summit, S300

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 11000/ 12000 and S300 systems with high stability optics bridge

Kit Contents

- Mounting bracket
- Mounting hardware

Compatibility

- Summit, S300

174-889 — Summit Platen Adapter

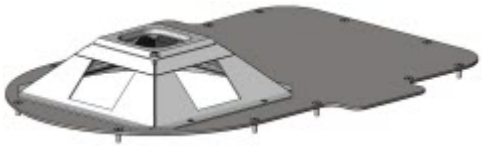
Features

- Adapter plate enables the use of E300/CM300 positioners (e.g., RPP404-EW-120, RPP404-W-120, RPP304-NS-67)

Compatibility

- Summit

177-561— Top Hat Assembly, 4 Port, Summit



Features

- Enables the use of single or dual Keysight N5291 modules with Infinity and ACP probes on Summit stations with MicroChamber
- Enables full thermal capability

Configuration

- Intended for use with positioner assemblies RPP404-EW-120, RPP404-W-120, RPP304-NS-67

Compatibility

- Summit

780-02709 — Inker Kit For SUMMIT200, Xandex, 12V, and DPP2XX Positioner Mount

Features

- Requires DPP2xx positioner
- Enables marking/binning of selected dies
- Controlled by FormFactor's probe station control software or external software
- Solenoid controlled inker
- Connector for SUMMIT200

Specifications

- 12 volt Xandex inker system
- Cartridges must be purchased separately (Xandex die mark ink)

Compatibility

- SUMMIT200
- Incompatible with TopHat configuration

Microscope Mounting Plates

122-246 — Microscope Mounting Kit, Manual Transport, Large Area

Features

- Dovetail mounting block for Seiwa VMSS-888 family and Mitutoyo VMSS-70
- Select when ordering a manual large area microscope transport system

Compatibility

- Summit, S300, Alessi, MTS

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

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

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

Tesla

Keysight Configuration

SHV (jack)

SHV (plug)

Keysight Accessories

148-651 — HV Adapter Box, 2 SHV (Jack) to 2 BNC (Jack)

Features

- Provides connection between Keysight B1505A module selector and HVP-5C probes (and older HVP-3C models)
- Adapts SHV to BNC connection
- Magnetic base mounts on platen

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 3A
- Maximum current (Pulse): 40A, (PW≤1ms, Duty ratio ≤1%)
- Connector type: 2 SHV (jack), 2 BNC (jack)

Compatibility

- Tesla

148-657 — BNC Tee, 1 BNC (Plug) to 2 BNC (Jack)

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≤1ms, Duty ratio ≤1%)
- Connector type: 1 BNC (plug), 2 BNC (jack)

Compatibility

- Tesla

148-658 — Keysight HV Triax Cable, (Plug - Plug)

Features

- Provides triax HV connection between Keysight B1505A and Tesla probe station

Specifications

- Maximum voltage (triax connection): 3000V DC
- Connector type: Keysight HV triax (plug-plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- Tesla

148-659 — BNC Cable, 61 cm, (Plug - Plug)

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≤1ms, Duty ratio ≤1%)
- Connector type: BNC (plug - plug)
- Cable length: 61 cm (24 in)

Compatibility

- Tesla

148-665 — HC BNC Cable, 61 cm (Plug - Plug)

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≤1ms, Duty ratio ≤1%)
- Connector type: BNC (plug - plug)
- Cable length: 61 cm (24 in)

Compatibility

- Tesla

148-668 — Mini Triax (Plug) to BNC (Plug) 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 (plug), BNC (plug)
- Cable length: 60 cm (23.5 in)

Compatibility

- Tesla

148-669 — Keysight HV Triax (Plug) – SHV (Plug), 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 (plug), SHV (plug)
- Cable length: 60 cm (23.5 in)
- Guard of Keysight HV triax connects to cable shield

Compatibility

- Tesla

148-670 — HC BNC Cable,1.5 m (Plug - Plug)

Features

- Provides the high current, low-resistance connection between Keysight B1505A HCSMU module selector and HVP-5C probes (and older HVP-3C models) through the SHV to BNC adapter (148-651)

Specifications

- Maximum voltage: 500V DC
- Max current (DC): 5A
- Maximum current (Pulse): 40A, (PW≤1ms, Duty ratio ≤1%)
- Connector type: BNC (plug - plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- Tesla

148-724 — SHV to 4-BNC Adapter Box 1 SHV (Jack), 1 BNC (Plug), 3 BNC (Jack)

Features

- Provides the interconnections between the Keysight B1505A HCSMU adapter, GNDU protection adapter and HVP-5C probes (and older HVP-3C models)

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Connector type: SHV (jack), BNC (plug), 3 BNC (jack)

Compatibility

- Tesla

149-396 — Resistor Box, HV, 100 KΩ – HV Triax (Jack), SHV (Jack)

Features

- 100KΩ Keysight resistor box
- Provides connection between Keysight B1505A HVSMU and HVP-5C probes (and older HVP-3C models)

Specifications

- Resistance: 100KΩ
- Maximum voltage: 3000V DC
- Connector type: Keysight HV triax (jack), SHV (jack)

Compatibility

- Tesla

149-397 — Resistor Box, HV, 1 KΩ – Triax (Jack-Jack)

Features

- 1KΩ Keysight resistor bot
- Provides connection between Keysight B1505A HPSMU protection adapter and DCP-HTR probes

Specifications

- Resistance: 1KΩ
- Maximum voltage: 500V DC
- Connector type: Standard triax (plug - plug)

Compatibility

- Tesla

149-398 — Resistor Box, HV, 1 KW – HV Triax (Jack), SHV (Jack)

Features

- 1KΩ Keysight resistor bot
- Provides connection between Keysight B1505A HPSMU protection adapter box and HVP-5C probes (and older HVP-3C models)

Specifications

- Resistance: 1KΩ
- Maximum voltage: 3000V DC
- Connector type: Keysight HV triax (jack), SHV (jack)

Compatibility

- Tesla

149-445 — Test Head Plate Assembly

Features

- Adapter plate for mounting instrument accessories on the Tesla station bridge

Specifications

- Dimensions (WxDxH): 21.59 x 21.28 x 2.54 cm (8.5 x 8.38 x 1.0 in)

Compatibility

- Tesla

149-947 — SHV (Plug) to BNC (Plug) Cable, 60 cm

Features

- Provides SHV to BNC connection

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW≤1ms, Duty ratio ≤1%)
- Connector type: BNC (plug), SHV (plug)
- Cable length: 60 cm (23.5 in)

Compatibility

- Tesla

149-958 — Keysight HV Triax (Plug) to Std Triax Cable (Plug),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 (plug), standard (plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- EPS150TESLA, T200, T300

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

- EPS150TESLA, T200, T300

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

- EPS150TESLA, T200, T300

149-978 — Chuck Cable, HV Chuck to Agilent HV (Plug), 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-curent cable

Specifications

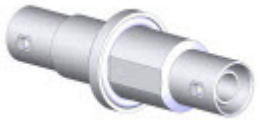
- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech HV chuck, Agilent high voltage (plug)
- Cable length: 1.5 m (4.92 ft)

Station Compatibility

- EPS150TESLA, T200, T300

151-196 — SHV (Jack) to SHV (Jack) Adapter

Features



- Adapts SHV to SHV connection

Specifications

- Maximum voltage: 5000V
- Connector type: SHV (jack) to SHV (jack)

Compatibility

- Tesla

151-207 — SHV (Plug) to SHV (Plug) 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 (plug)
- Cable length: ~0.75m (30 in)

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 (jack)
  - BNC (jack)
  - SHV (jack)
  - Standard triax (jack)

Compatibility

- Tesla

151-465 — Tesla Probes and Interconnect Accessory Kit for Keysight B1505A (1st Generation)

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 HCSMU, 2 HPSMUs and 1 MFCMU for typical measurement setup

Kit Contents

HVP-5C-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 (13.8 mils) 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
148-651 — HV Adapter Box, 2 SHV (Jack) to 2 BNC (Jack)	1
148-657 — BNC Tee, 1 BNC (Plug) to 2 BNC (Jack)	4
148-724 — SHV to 4-BNC Adapter Box 1 SHV (Jack), 1 BNC (Plug), 3 BNC (Jack)	2
148-658 — Keysight HV Triax Cable, (Plug - Plug)	3
148-659 — BNC Cable, 61 cm, (Plug - Plug)	2
148-665 — HC BNC Cable, 61 cm (Plug - Plug)	2
148-668 — Mini Triax (Plug) to BNC (Plug) Cable, 60 cm	2
148-669 — Keysight HV Triax (Plug) – SHV (Plug), 60 cm	1
148-670 — HC BNC Cable,1.5 m (Plug - Plug)	2
149-947 — SHV (Plug) to BNC (Plug) Cable, 60 cm	2
149-958 — Keysight HV Triax (Plug) to Std Triax Cable (Plug),1.5 m	2
151-207 — SHV (Plug) to SHV (Plug) Cable, 60 cm	2
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
780-01338 — Chuck Cable, HV Chuck to SHV (Jack), 1.0 m	1
780-01339 — Chuck Cable, HV Chuck Connector to BNC (Plug), 1.0 m	1

Compatibility

- T200

Ordering Information

- When ordering as standalone, a 149-401 cable kit is required

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

151-467 — Tesla Interconnect Kit for Keysight B1505A (Excluding Probes and Positioners) (1st Generation)

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 HCSMU, 2 HPSMUs 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
148-651 — HV Adapter Box, 2 SHV (Jack) to 2 BNC (Jack)	1
148-657 — BNC Tee, 1 BNC (Plug) to 2 BNC (Jack)	4
148-724 — SHV to 4-BNC Adapter Box 1 SHV (Jack), 1 BNC (Plug), 3 BNC (Jack)	2
148-658 — Keysight HV Triax Cable, (Plug - Plug)	3
148-659 — BNC Cable, 61 cm, (Plug - Plug)	2
148-665 — HC BNC Cable, 61 cm (Plug - Plug)	2
148-668 — Mini Triax (Plug) to BNC (Plug) Cable, 60 cm	2
148-669 — Keysight HV Triax (Plug) – SHV (Plug), 60 cm	1
148-670 — HC BNC Cable,1.5 m (Plug - Plug)	2
149-947 — SHV (Plug) to BNC (Plug) Cable, 60 cm	2
149-958 — Keysight HV Triax (Plug) to Std Triax Cable (Plug),1.5 m	2
151-207 — SHV (Plug) to SHV (Plug) Cable, 60 cm	2
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
780-01338 — Chuck Cable, HV Chuck to SHV (Jack), 1.0 m	1
780-01339 — Chuck Cable, HV Chuck Connector to BNC (Plug), 1.0 m	1

Compatibility

- T200

Ordering Information

- When ordering as standalone, a 149-401 cable kit is required

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£1ms, Duty ratio £1%)
- Connector type: Keysight HV triax (plug), BNC (jack)

Compatibility

- Tesla

780-00621 — Chuck Cable, HV Chuck to Keysight HV (Plug) 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 ≤ 1ms, Duty ratio ≤ 1%)
- Connector type: FormFactor HV chuck, Keysight HV (plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- TESLA200, TESLA300

780-01338 — Chuck Cable, HV Chuck to SHV (Jack), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech HV chuck, SHV (jack)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- EPS150TESLA, T200, T300

780-01339 — Chuck Cable, HV Chuck Connector to BNC (Plug), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 50 A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech HV chuck, BNC (plug)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- EPS150TESLA, T200, T300

780-01341 — Chuck Cable, HV Chuck to Keysight HV (Plug) 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 ≤ 1ms, Duty ratio ≤ 1%)
- Connector type: FormFactor HV chuck, Keysight HV (plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- EPS150TESLA, T200, T300

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 (Keithley)
  - Standard triax connectors

Specifications

- Maximum voltage: 1100V (triax)
- Maximum current (DC): 5A
- Cable length: 1m (3.3 ft)
- 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 (plug)
  - Standard triax (plug) (HV version)

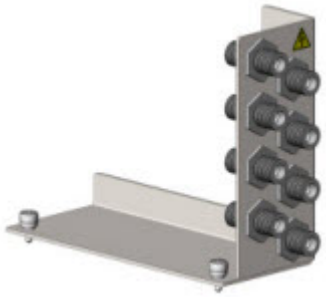
Compatibility

- 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 (jack)

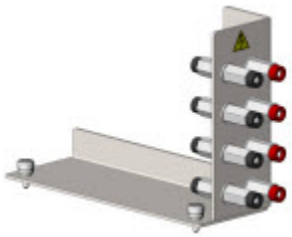
Compatibility

- 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≤1ms, Duty ratio ≤1%)
- Max Voltage: 500V
- Connector type: Banana jack

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 ft)

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

- EPS150TESLA, T200, T300

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

- EPS150TESLA, T200, T300

149-978 — Chuck Cable, HV Chuck to Agilent HV (Plug), 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-curent cable

Specifications

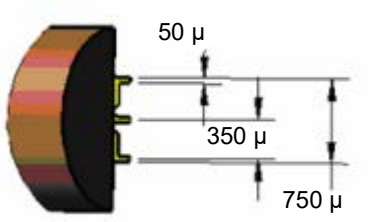
- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech HV chuck, Agilent high voltage (plug)
- Cable length: 1.5 m (4.92 ft)

Station Compatibility

- EPS150TESLA, T200, T300

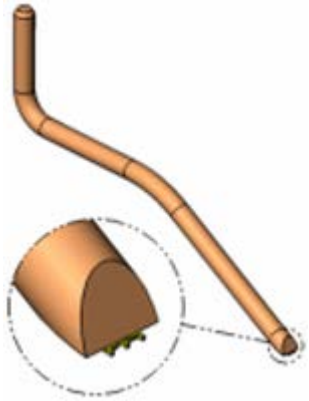
HCP-TIP-3-350 — HC Replaceable Probe Tips, 5-pack

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 (13.8 mils)
- Total footprint: 750 µm (29.5 mils)
- Typical contact resistance on Al: 20mΩ
- Recommended range of overtravel: 150 to 200 µm (5.9 to 7.9 mils)
- Contact force: 20 gms per tip (60 grams total) @ 100 µm (3.9 mils) overtravel
- Scrub: 60 to 80 µm (2.4 to 3.1 mils)

Compatibility

- Tesla, TESLA200

High Power Chuck Connection Cables

780-00622 — HV Tesla Chuck Cable, HV Chuck Connector- Std Triax (Plug), 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: FormFactor HV chuck, standard triax (plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- TESLA200, TESLA300

780-00623 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.2 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: FormFactor HV chuck connector, banana jack
- Cable length: 1.2 m (4 ft)

Compatibility

- TESLA200, TESLA300

780-00624 — Chuck Cable, HV Chuck to SHV (Jack), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech HV chuck, SHV (jack)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- TESLA200, TESLA300

780-00625 — Chuck Cable, HV Chuck Connector to BNC (Plug), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 50 A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech HV chuck, BNC (plug)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- TESLA200, TESLA300

780-01336 — HV Tesla Chuck Cable, HV Chuck Connector- Std Triax (Plug), 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: FormFactor HV chuck, standard triax (plug)
- Cable length: 1.5 m (5 ft)

Compatibility

- EPS150TESLA, T200, T300

780-01337 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.2 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: FormFactor HV chuck connector, banana jack
- Cable length: 1.2 m (4 ft)

Compatibility

- EPS150TESLA, T200, T300

780-01338 — Chuck Cable, HV Chuck to SHV (Jack), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech HV chuck, SHV (jack)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- EPS150TESLA, T200, T300

780-01339 — Chuck Cable, HV Chuck Connector to BNC (Plug), 1.0 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 50 A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech HV chuck, BNC (plug)
- Cable length: 1.0 m (3.5 ft)

Station Compatibility

- EPS150TESLA, T200, T300

Safety Enclosures

170-750 — Clear Safety Enclosure Package

Features

- Impact resistant clear acrylic enclosure
- Safety interlock system for high power testing
- Front opening doors for ergonomic test setup/operation
- Side & rear access panels for easy equipment configuration
- Mounting kit for standard Summit-Tesla vibration isolation table

Compatibility

- Tesla (200 mm)

Auxiliary Chucks

174-213 — AUX chuck Add-on for Tesla HV Coax Chuck

Features

- High-Power AUX chuck, with vacuum holes
- High isolation Eccosorb material (magnetically loaded)
- Enables addition surface for holding cleaning, calibration
- Probe contact substrates
- Remote vacuum control integrated into TESLA probe station
- Up to 2 High-Power AUX chucks can be added to a Tesla coax chuck

Compatibility

- Tesla

Ordering Information

- For field upgrade kits, request P/N from the FormFactor Custom Products Group

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