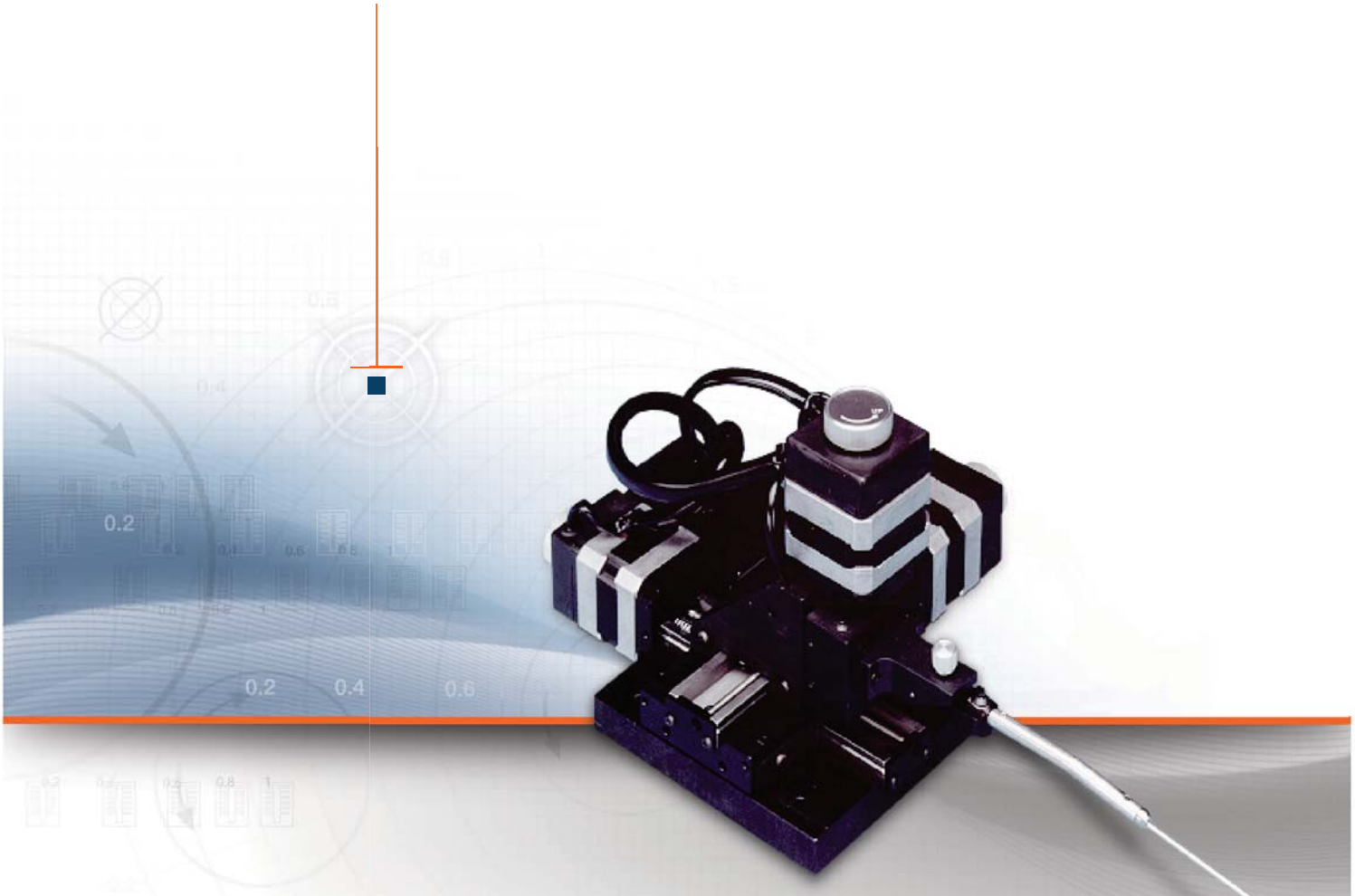

ProbeStation
Accessory Catalog

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

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

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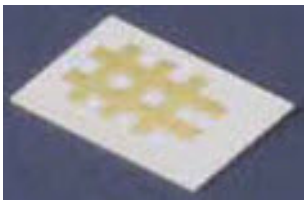
Board Test Systems

Positioners, Mounts and Accessories

005-018 — Contact Substrate



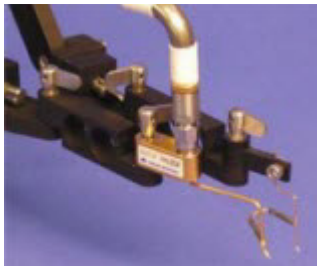
Features

- Impedance Standard Substrates used in probe calibration.

Package Compatibility

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

106-564 — Variable Pitch Mount



Features

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

Specifications

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

Package Compatibility

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

125-058 — Video Monitor

Features

19-inch LCD, multi-function video monitor.

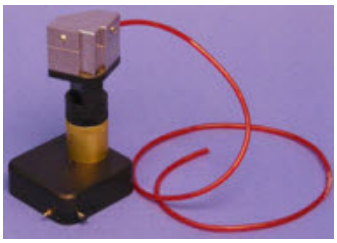
Specifications

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

Package Compatibility

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

129-691 — Vacuum Based Auxiliary Chuck



Features

- Adjustable height auxiliary chuck mounted on a vacuum base.

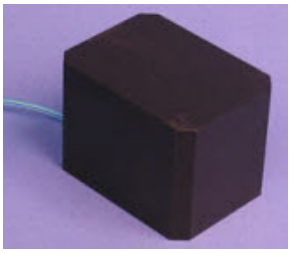
Specifications

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

Package Compatibility

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

131-906 — Vacuum Mount Spacer Block



Features

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

Specifications

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

Package Compatibility

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

134-420 — Vacuum Base Board Clamp

Features

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

Specifications

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

Package Compatibility

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

134-421 — Vacuum Base PCB Bottom Support

Features

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

Specifications

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

• *Package Compatibility*

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

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

Features

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

Specifications

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

Package Compatibility

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

141-050 — Portable Vacuum System

Features

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

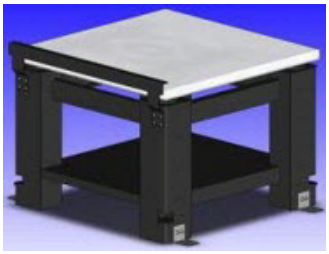
Specifications

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

Package Compatibility

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

142-032 — Vibration Isolation Table for BTS Packages



Features

- Heavy duty frame and steel tabletop.

Specifications

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

Package Compatibility

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

142-033 — Deluxe Vibration Isolation Table for BTS Packages

Features

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

Specifications

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

Package Compatibility

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

142-171 — WinCal XE Software

Features

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

Package Compatibility

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

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

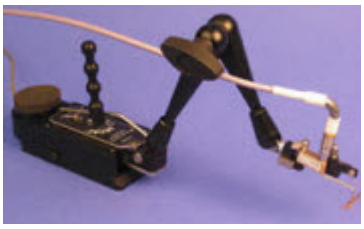
Features

- Combination anti-vibration table and dark box for applications with probing features smaller than 50 µm, and with light sensitive tests or I/R laser probing.

Package Compatibility

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

EZ-PROBE — EZ-Probe Positioner



Features

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

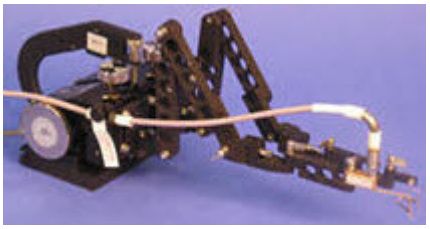
Specifications

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

Package Compatibility

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

FPD-100 — Fine Pitch Dual-Armed Positioners



Features

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

Specifications

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

Package Compatibility

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

M150-ACC-16 — Magnetic Cable Clamp Kit

Features

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

Kit Contents

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

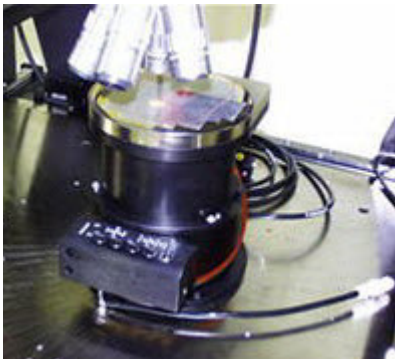
Compatibility

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

Package Compatibility

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

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



Features

- Planarizable 150 mm wafer chuck for PCB probing.

Specifications

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

Package Compatibility

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

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

Features

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

Specifications

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

Package Compatibility

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

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

Features

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

Specifications

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

Package Compatibility

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

CM300 With TopHat

Connection Panels

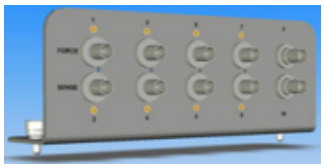
167-117 —Connection Panel

Features

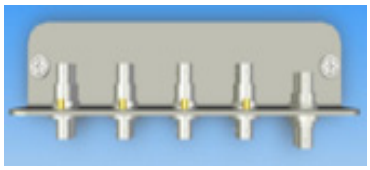
- Complete kit of cable connection panels and accessories.
- Optimized for CM300 and Elite 300 universal accessory mounting rail system.
- All accessories can be mounted on the platen simultaneously, in any location (left, right and back sides of the probe station platen).

Kit Contents

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

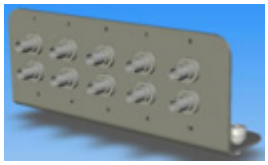


Triaxial connection panel (front view)

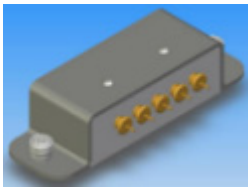


Triaxial connection panel (top view)

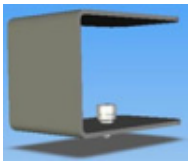
- 1 coaxial connection panel – each panel features 10 BNC coax (2-lug) connectors (f).
- 2 vacuum manifolds – each manifold features 5 vacuum inlets with integrated on/off pull switches.
- 2 positioner mounts – used for holding DPP2xx/DPP3xx positioners above the platen while changing probe tips.



Coaxial connection panel



Vacuum manifold



Positioner mount

Compatibility

- CM300

Mounting Kits and Plates

143-428 — Agilent 42941 Mounting Kit

Features

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

Kit Contents

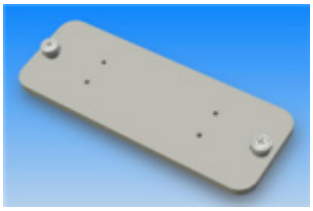
- 2 cables:
  - SMA (m) to SMA (m)
  - 120 mm (4.7-inch)
- Mounting bracket for RPP305-EL positioner

Compatibility

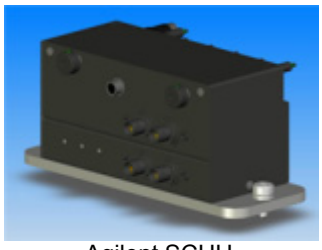
- CM300, Elite 300

Mounting bracket shown on RPP305 positioner with Agilent high impedance probe

143-429 — Mounting Plate for B1500A SCUU



Mounted plate



Agilent SCUU mounted to plate

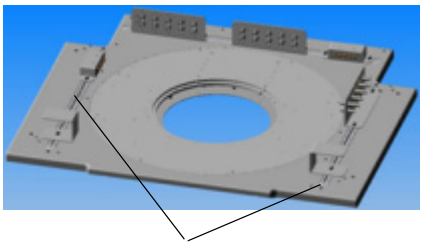
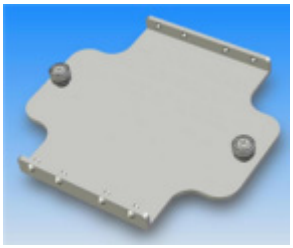


Plate mounts on universal accessory mounting rails

Compatibility

- CM300, Elite 300

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



Mounted plate

Agilent ASU mounted to plate

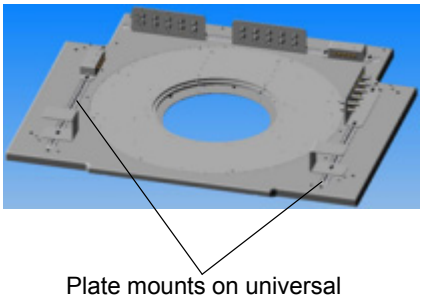


Plate mounts on universal accessory mounting rails

Compatibility

- CM300, Elite 300

161-695 — Instrument Shelf

Features

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

Specifications

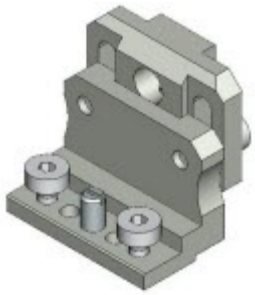
- Maximum supported instrument load: 50 kg (110 lbs)
- Dimensions: width 114 cm (44.9 inch) x depth 59 cm (23.2 inch) x height 2.5 cm (1 inch)
- Weight: 15 kg (33 lbs)

Compatibility

- CM300

163-753 — Adjustable RF Probe Mount

Features



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

Compatibility

- CM300, Elite 300

163-755 — DPP2xx 43mm Probe Mount Adapter

Features

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

Compatibility

- CM300, Elite 300

SIGMA Kits

127312—SIGMA for Agilent 42941A, HF

Features

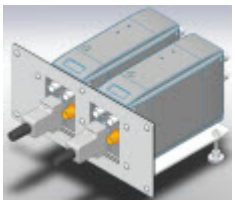
- SIGMA Integration of the impedance probe Agilent 42941A into MicroAlign Advanced systems for capacitance measurements by IV method, including:
- On-wafer integration of Agilent 42941A close to the DUT to optimize measurement performance
- Optimized cable length reduces systematic measurement error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

Compatibility

- CM300, PA300 MicroAlign

131467—SIGMA for Agilent E5288A ASU

Features



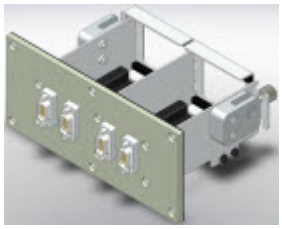
- SIGMA Integration of Agilent E5288A ATTO Sense and Switch Units (ASU) to MicroAlign Advanced systems, including:
- On-wafer integration of one or two ASUs close to the DUT to optimize measurement performance
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
-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

Compatibility

- CM300, PA300 MicroAlign

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

Features



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

Compatibility

- CM300, PA300 MicroAlign

145265—SIGMA for IV/CV

Features

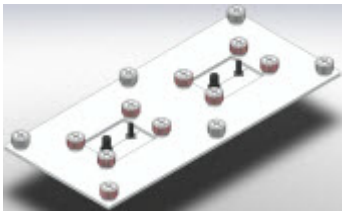
- SIGMA Integration of Parameter Test Instruments for I-V and C-V measurements into the MicroAlign Advanced systems, includes:
- 2 panels with 4 triax-triax-dual connectors (Force & Sense), and 4 coax-triax connectors (type E1)
- Kelvin connectors (Force & Sense) fit to Agilent 4155/4156/4157, and any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

Compatibility

- CM300, PA300 MicroAlign

Test Equipment Interfaces

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



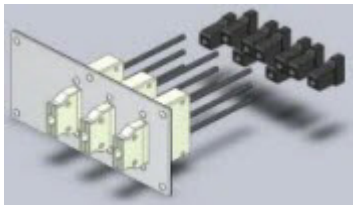
Features

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

Compatibility

- CM300, PA300 MicroAlign

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



Features

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

Compatibility

- CM300, PA300 MicroAlign

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 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: 0.8m

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 quick lock fitting
- Two side-gated ball valves for pressure relief and bypass valve

Specifications

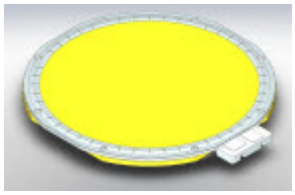
- Maximum overpressure 1.2 bar gauge pressure

Compatibility

- Cryogenic systems only

PMC200 Wafer Carriers

128027 — Wafer Carrier, 200 mm, PMC200



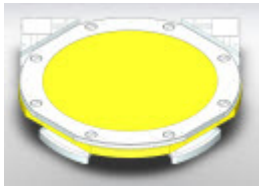
Features

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

Compatibility

- PMC200

130476 — Wafer Carrier, 100 mm, PMC200



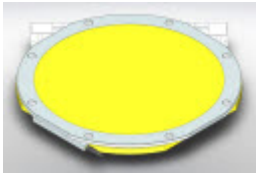
Features

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

Compatibility

- PMC200

130474 — Wafer Carrier, 150 mm, PMC200



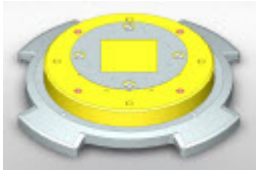
Features

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

Compatibility

- PMC200

133758 — Substrate Holder, 4K, PMC200



Features

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

Compatibility

- PMC200

136397 — Universal Carrier, PMC200

Features

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

Specifications

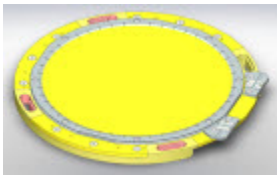
- Maximum substrate dimensions:
  - 76.2 mm /3-inch (full wafer)
  - 150 mm (quartered wafer)
  - 76.2 mm x 76.2 mm (3 x 3-inch) or 50 mm x 110 mm

Compatibility

- PMC200

PMV200 Wafer Carriers

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



Features

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

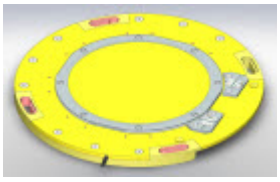
Specifications

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

Compatibility

- PMV200

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



Features

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

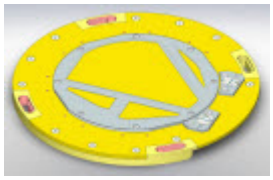
Specifications

- Temperature range: -60°C to +200°C

Compatibility

- PMV200

144072 — Universal Carrier, PMV200



Features

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

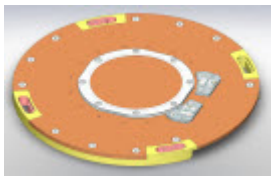
Specifications

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

Compatibility

- PMV200

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



Features

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

Specifications

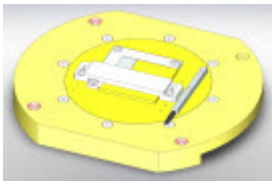
- Temperature range: -60°C to +200°C

Compatibility

- PMV200

PLV50 Wafer Carriers

140971 — Universal Carrier, PLV50



Features

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

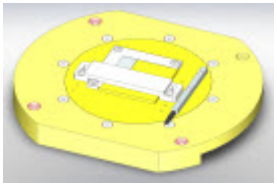
Specifications

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

Compatibility

- PLV50

155-905 — Universal Carrier, PLV50, 300°



Features

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

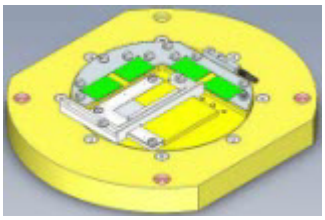
Specifications

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

Compatibility

- PLV50

141246 — Universal Carrier, HF-Ready, PLV50



Features

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

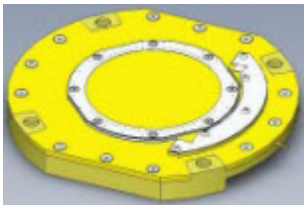
Specifications

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

Compatibility

- PLV50

147917 — Wafer Carrier, 100 mm, PLV50



Features

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

Specifications

- Temperature range: -60°C to +200°C

Compatibility

- PLV50

Test Interface Feedthroughs

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

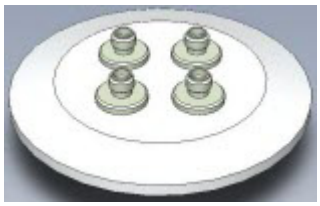
Features

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

Compatibility

- PMC200, PMV200, PLV50

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

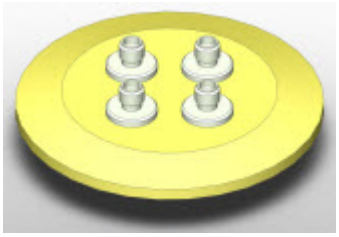
Features

- 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



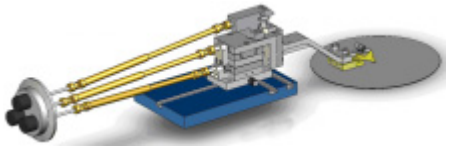
Features

- 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

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

DCP Replacement Tips

Features

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

Specifications

- Tip material: Tungsten
- Tip diameters shown below

Kit Contents

- 10 tips per set

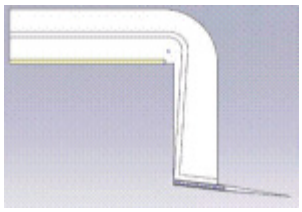
Compatibility

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

Ordering Information

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

DCP-HTR Replacement Tips



Features

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

Specifications

- 19 µm diameter
- 10 µm diameter

Kit Contents

- Box of 10

Compatibility

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

Ordering Information

Part Number	Tip Radius
154-001	19 µm
154-003	10 µm

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

Features

- Tungsten carbide tip

Specifications

- 1.2 µ
- Straight

Kit Contents

- 25 tips per set

Compatibility

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

PTS 24-25 — Specialty Probe Tip, Osmium

Features

- Osmium tip

Specifications

- 2.4 µ

Kit Contents

- 25 tips per set
- Straight

Compatibility

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

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

Features

- Osmium tip

Specifications

- 2.4 µ
- 45 degree bend

Kit Contents

- 25 tips per set

Compatibility

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

PTT Probe Tips

Features

- Low cost
- Easily replaceable
- Durable

Specifications

- Tip material: Tungsten
- Tip diameters shown below

Kit Contents

- 25 tips per set

Compatibility

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

Ordering Information

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

DC/CV Triax/BNC Cables

100652 — Adapter DC RPP305-S

Features

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

Compatibility

- RPP305-S

100697 — Probe Arm Extension, 70mm

Features

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

Compatibility

- DPP2xx-S, DPP3xx-S

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

Features

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

Compatibility

- DPP105-x-AI, 157-451

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

Features

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

Compatibility

- DPP105-x-AI, 157-451

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

Features

- Low noise cable kit for current or capacitance parametric test

Specifications

- Cable length: 2 m (6.5-feet)

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Compatibility

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

104-334 — Triax Extension Cable, 53 cm

Features

- Extends existing triax cables.

Specifications

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

Compatibility

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

104-365 — Coaxial Cable with BNC Connector

Features

- Connects BNC connectors.

Specifications

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

Compatibility

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

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

Features

- Connects BNC and SMB connectors.

Specifications

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

Compatibility

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

105-148— Interlock Cable for Agilent 4155-4156

Features

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

Specifications

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

Compatibility

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

105-540 — BNC to SSMC Cable, 1 m

Features

- Connects the BNC and SSMC connectors.

Specifications

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

Compatibility

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

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

Features

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

Specifications

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

Compatibility

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

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

Features

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

Specifications

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

Compatibility

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

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

Features

- Connects 40GHz probes with VNA

Specifications

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

Compatibility

- Most configurations. Ensure close position of VNA.

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

Features

- Connects 50GHz probes with VNA

Specifications:

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

Compatibility

- Most configurations. Ensure close position of VNA.

124-562 — BNC to SSMC Cable, 2 m

Features

- Connects BNC and SSMC connectors.

Specifications

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

Compatibility

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

127-911— 42941 Holder and Cable

Features

- Holds the 42941 capacitance meter impedance positioner.

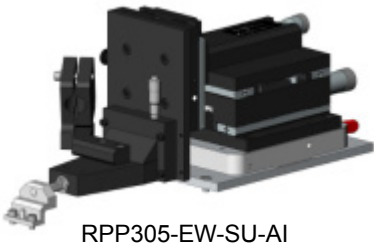
Specifications

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

Compatibility

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

127-911



RPP305-EW-SU-AI

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

Features

- Connects large and small triax connectors.

Specifications

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

Compatibility

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

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

Features

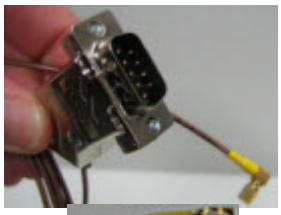
- Connects the SSMC and DCP-HTR probe.

Specifications

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

Compatibility

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



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

Features

- Connects the SMA and BNC connector.

Specifications

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

Compatibility

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

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

Features

- Connects 65GHz probes with VNA

Specifications

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

Compatibility

- Most configurations. Ensure close position of VNA.

DC/CV Adapters

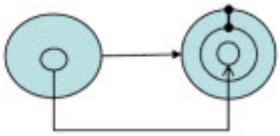
104-341— Triax to BNC Adapter, Guard Shorted

Features

- Adapts triax to BNC connection

Specifications

- Guard shorted (male to female)



Compatibility

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

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

Features

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

Specifications

- Triax to triax (female to female)

Compatibility

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

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

Features

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

Specifications

- BNC (female) to BNC (female)

Compatibility

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

104-372— Ground Unit Adapter Kit

Features

- For use with the SMU ground unit.

Kit Contents

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

Compatibility

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

104-740— Triax Shorting Plug

Features

- Used to terminate the triax chuck.

Specifications

- Triax connector (male) with shorted end

Compatibility

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

104-743— Triax EMI Cap

Features

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

Compatibility

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

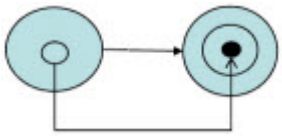
104-803— Triax to BNC Adapter, Guard Floated

Features

- Adapts triax to BNC connection.

Specifications

- Guard floated (male to female)



Compatibility

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

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

Features

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

Specifications

- Triax (male) to dual triax (female)

Compatibility

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

104-810— DCP Mounting Block Kit

Features

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

Kit Contents

- Four DCP mounting blocks

Compatibility

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

105-931— EMI Cover for Triax Adapter Block

Features

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

Compatibility

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

106-510 — BNC Shorting Plug

Features

- Used to terminate the coax chuck.

Specifications

- Coax connector (male) with shorted end

Compatibility

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

106-560— Triax Adapter, Female to Female

Features

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

Specifications

- Triax to triax (female to female)

Compatibility

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

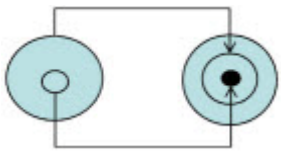
106-837— Triax to BNC Adapter, Guard Thru, No Shield

Features

- Adapts triax to BNC connector.

Specifications

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



Compatibility

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

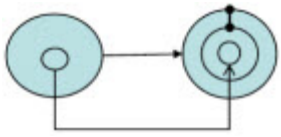
108-714—Adapter BNC Female to Triax Female, Guard Short

Features

Adapts triax to BNC connector.

Specifications

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



Compatibility

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

108-715— Adapter, BNC to BNC Coupler

Features

- Adapts BNC to BNC connectors.

Specifications

- BNC to BNC (female to female)

Compatibility

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

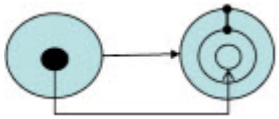
108-716— Adapter, BNC Male to Triax Female, Guard Short

Features

- Adapts triax to BNC connector.

Specifications

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



Compatibility

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

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

Features

- Adapts BNC to BNC connectors.

Specifications

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

Compatibility

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

123-625— DCP to DCP Guard Connection Strap

Features

- DCP to DCP connection wire for LCR meter.

Specifications

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

Compatibility

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

126-985 — Kit, DCP to DCP Connection Strap

Features

- DCP to DCP connection wire kit for LCR meter.

Kit Contents

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

Compatibility

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

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

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

Features

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

Specifications

Compatibility

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

Ordering Information

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

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

Station Accessories

Connection Panels

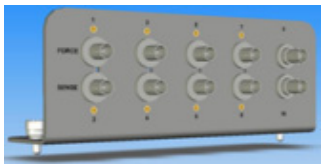
141-790 —Connection Panel

Features

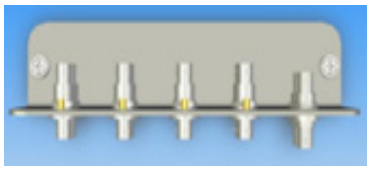
- Complete kit of cable connection panels and accessories.
- Optimized for CM300 and Elite 300 universal accessory mounting rail system.
- All accessories can be mounted on the platen simultaneously, in any location (left, right and back sides of the probe station platen).

Kit Contents

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

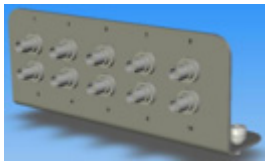


Triaxial connection panel (front view)

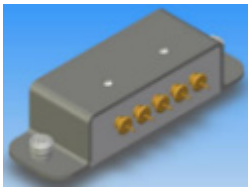


Triaxial connection panel (top view)

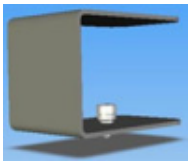
- 1 coaxial connection panel – each panel features 10 BNC coax (2-lug) connectors (f).
- 2 vacuum manifolds – each manifold features 5 vacuum inlets with integrated on/off pull switches.
- 2 positioner mounts – used for holding DPP2xx/DPP3xx positioners above the platen while changing probe tips.



Coaxial connection panel



Vacuum manifold



Positioner mount

Compatibility

- Elite 300

Monitors

144-350 — Dual LCD Monitor

Features

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

Specifications

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

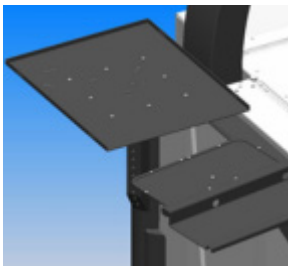
Compatibility

- Elite 300

Accessory Shelves

144-340 — Side Accessory Shelf Kit

Features



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

Specifications

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

Kit Contents

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

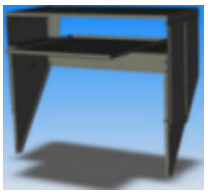
Compatibility

- Elite 300

143-420 — Rear Instrument Shelf System

Features

- Shelf system easily attaches to the Elite 300 system frame
- Instruments and accessories can be conveniently placed at the rear of the Elite 300

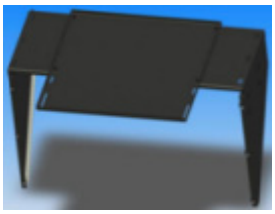


Complete rear instrument shelf system

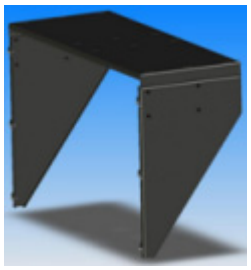
- Seismic restraint straps and attachment points on shelving
- Height adjustable upper shelf
- Adjustable instrument tray can be positioned forward over the Elite 300 platen surface, allowing test instruments to be located close to probes for short cable interconnects

Specifications

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



Bottom shelf and adjustable instrument tray (forward position)



Bottom shelf

Kit Contents

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

Compatibility

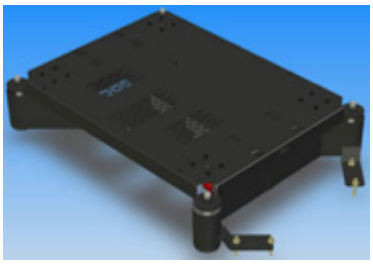
- Elite 300

Seismic Restraints

143-418 — Seismic Restraints

Features

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



Kit Contents

- 4 restraint brackets
- Installation guide and bolt mounting recommendations

Compatibility

- Elite 300

Floor restraint bracket

Mounting Kits and Plates

143-428 — Agilent 42941 Mounting Kit

Features

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

Kit Contents

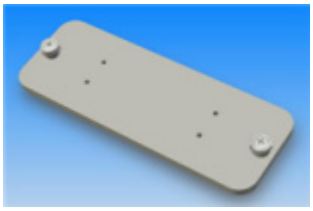
- 2 cables:
  - SMA (m) to SMA (m)
  - 120 mm (4.7-inch)
- Mounting bracket for RPP305-EL positioner

Compatibility

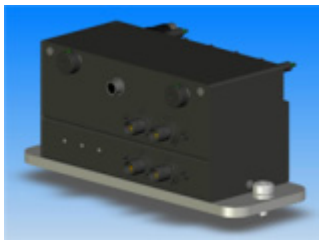
- CM300, Elite 300

Mounting bracket shown on RPP305 positioner with Agilent high impedance probe

143-429 — Mounting Plate for B1500A SCUU



Mounted plate



Agilent SCUU mounted to plate

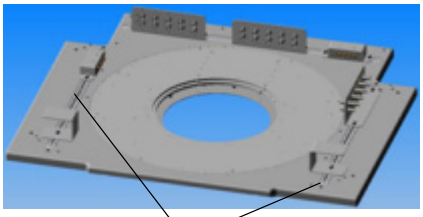
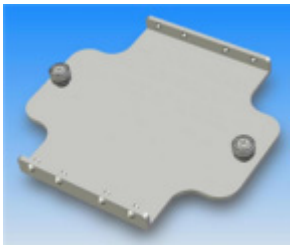


Plate mounts on universal accessory mounting rails

Compatibility

- CM300, Elite 300

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



Mounted plate

Agilent ASU mounted to plate

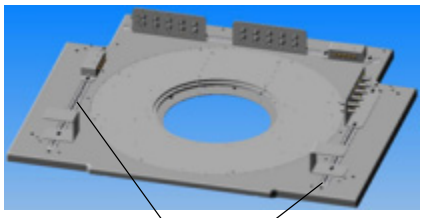


Plate mounts on universal accessory mounting rails

Compatibility

- CM300, Elite 300

Lab Accessories and Miscellaneous

Tables

49210 — Vibration Isolation Platform VIP600

Features

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

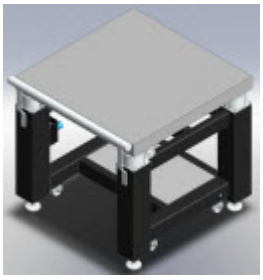
Specifications

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

Compatibility

- PM5, EP6

115405 — Vibration Isolation Table, VIT801



Features

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

Specifications

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

Compatibility

- PA200, PM8, PM5, EP6

117931 — SE1200 EMC Adapter for VIT951/PA300

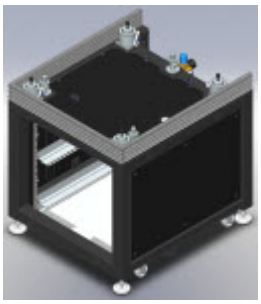
Features

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

Compatibility

- PA300

135100 — Vibration Isolation Table, VIT701



Features

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

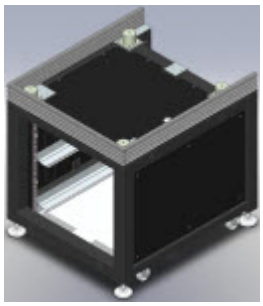
Specifications

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

138815 — Probe Station Table 700



Features

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

Specifications

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

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

Features

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

Specifications

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

Compatibility

- Summit, M150, BTS

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

Features

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

Specifications

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

Compatibility

- Summit

143-567 — Side Instrument Shelf for Table

Features

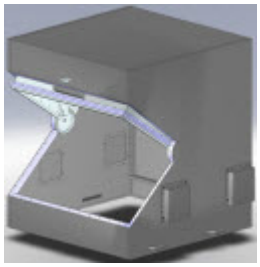
- Universal design can mount on left or right side of table.
- Heavy duty design can hold multiple instruments.
- Easy mounting enables quick reconfiguration.

Specifications

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

Shield Enclosures/Dark Boxes

111650 — ShieldEnclosure, SE1200 EMC



Features

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

Specifications

Required floor space:

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

Compatibility

- PA300, PM300

130359 — ShieldEnclosure SE750/EMC

Features

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

Specifications

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

Compatibility

- PM5, EP6

138121 — ShieldEnclosure, SE1000 EMC with Interlock and Illumination

Features

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

Specifications

Required floor space:

- Width = 1.3m
- Depth (with front lid opened) = 2m
- Height (with table and front lid opened): 2.5m
- Requires adaptation SE1000EMC to VIT801 (PN 119585)
- Requires vibration isolation table VIT801 (PN 115405)

Options:

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

Compatibility

- PA200, PM8, PM5, EP6

100689 — EMC Light-Tight Feedthrough

Features

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

Compatibility

- Shield Enclosures

112391 — EMC Test Equipment Interface, Kelvin

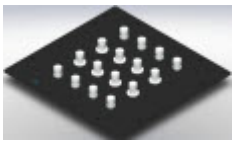
Features

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

Compatibility

- Shield Enclosures

112392 — EMC Test Equipment Interface, Standard



Features

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

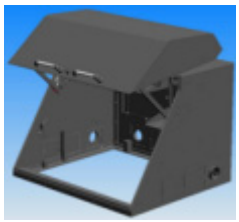
Compatibility

- Shield Enclosures

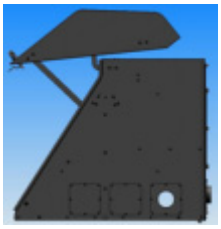
141-588 — Dark Box, Elite 300

Features

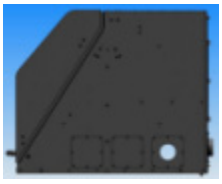
- Provides dark, EMI shielded environment probing
- Vertical lift front door, with multiple height open detents
- Large open access to Elite 300 station platen/test area with vertical door open
- Locking front door handle with keyed lock for security
- Accommodates laser/video camera microscopes
- Internal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



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



Side view with front door in open position



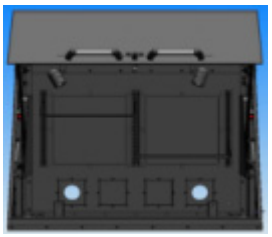
Side view with front door in closed position

Specifications

- Dark box dimensions: width 126 cm (49.5-inch) x depth 110 cm (43.5-inch) x height with door closed 91 cm (36-inch)/ height with door open 118 cm (46.5-inch)
- Rear shelves: width 50 cm (20-inch) x depth 25 cm (10-inch), adjustment height: 43 cm (17-inch)
- Large rear access cover: 18 x 18-inch
- Access ports for cable connections: 7 x 7-inch
- Door lift force: Opening door 5.5 kgs (12 lbs), Closing door 6. 8 kgs (15 lbs)
- Door open: 3 detent positions, in addition to full up and down
- Automatic light On/Off switching with door open/close, and manual override
- 12VDC low power high intensity LED lights
- AC/DC powers supply (100-220V, 50/60Hz) CE mark

Kit Contents

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



Front view showing lights and rear shelves

Rear view showing removable panels

Compatibility

- Elite 300

Mounting Accessories

138846 — Control Console

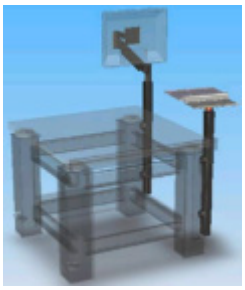
Features

- 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, PA300PS-MA, VIT801

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



Features

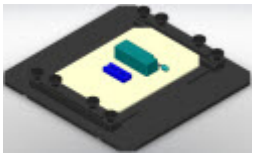
- Ergonomic platform for computer keyboard, mouse, joystick
- LCD monitor support (VESA) with articulated arm for free floating placement
- Universal design can mount on left or right side of table
- Easy mounting allows for quick reconfiguration

Specifications

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

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

100605 — Inker, DPP2xx/DPP3xx

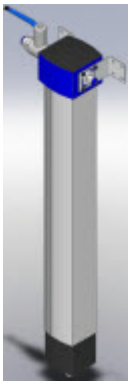
Features

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

Compatibility

- DPP2xx-S, DPP3xx-S

140348 — Air Drying Unit



Features

- Air dryer and nano filter
- No electric power required

Specifications

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

Compatibility

- All MicroAlign stations

145530 — Inker Cartridge, Markem 6990

Features

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

Specifications

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

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

Features

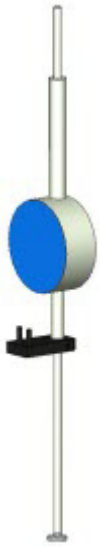
- Displays positioner platen z-height
- For use with MPS150/EPS150 universal platen
- Enables exact overtravel adjustment

Specification

- 10 µm division marks
- 1 turn = 1mm
- Adjustable 0 position

Compatibility

- MPS150 / EPS150 (universal platen)



161-421 — Analogue Separation Drive Display for MPS150 MMWPlaten

Features

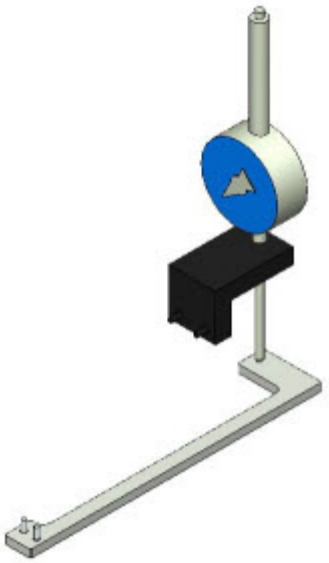
- Displays positioner platen z-height
- For use with MPS150 MMW platen
- Enables exact overtravel adjustment

Specification

- 10 µm division marks
- 1 turn = 1mm
- Adjustable 0 position

Compatibility

- MPS150 (MMW platen)



M150-ACC-13 — Vacuum Manifold, Magnetic Base

Features

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

Specifications

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

Compatibility

- Elite 300, Summit, Tesla, M150, Alessi

M150-ACC-16 — Magnetic Cable Clamp Kit

Features

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

Kit Contents

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

Compatibility

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

Package Compatibility

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

M150-ACC-18 — Pin to Banana Interface Kit

Features

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

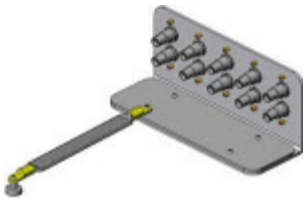
Kit Contents

- One 6 port interface

Compatibility

- Elite 300, Summit, Tesla, M150, Alessi

M150-ACC-19 — Triax Panel, Magnetic Base



Features

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

Kit Contents

- Magnet base connection panel
- Ground strap

Compatibility

- Elite 300, Summit, Tesla, 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

- Elite 300, Summit, Tesla, M150, Alessi

Manual Stations

PM8

100507 — Supply Kit for Vacuum Adapter

Features

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

Compatibility

- PM8

69101 — ATT Auxiliary Chuck 150/200 mm

Features

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

Compatibility:

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

PM300

133270 — Additional Chuck for Two Substrates

Features

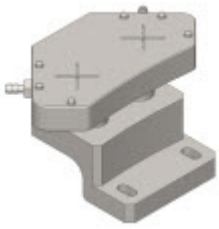
- Additional chuck for 2 calibration substrates and/or burnishing pads.

Compatibility

- PM300

69102 ATT Auxiliary Chuck 300 mm

Features



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

Compatibility:

- PA300, PM300 with 300mm ATT thermal chuck

EP6

142298 — Triaxial Option for EP6 DC

Features

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

Compatibility

- EP6 DC

Pressure Probe Modules and Probes

131731-QT — Pressure Probe Module (PPM) Probe

Features

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

133390 — Pressure Probe Module

Features

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

Specifications

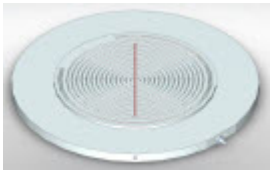
- Repeatability: ± 5mbar (for p ≤ 500mbar), < ±1% (for p >500mbar)
- Media: nitrogen or pressurized air, clean, oil/water free
- Supply pressure: 8-10 bar

Kit Contents

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

Pressure Probe Module Differential Kits

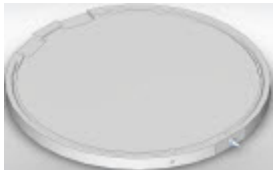
125471 — PPM Differential Kit, 100 mm



Features

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

126501 — PPM Differential Kit, 150 mm



Features

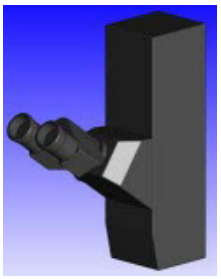
- Needed for probing 150 mm wafers with differential pressure sensors
- Provides atmospheric pressure on the wafer backside
- Wafer fixing by vacuum trench on wafer edge

Microscopes

Elite 300 Microscopes

(With Motorized Scope Transport, No Focus Block)

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



Features

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

Specifications

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

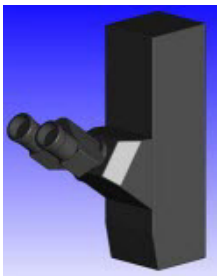
Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

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



Features

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

Specifications

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

Kit Contents

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

Compatibility

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

143-416 — Seiwa Microscope with Accessory Kit

Features

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

Specifications

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

Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

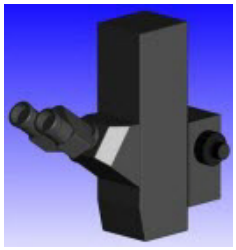
- Multi-CCD microscope/imager
- 20X standard zoom range (3 cameras)
- Sub-micron programmable remote focus stage
- Integrated LED Illumination system
- USB remote control box
- Elite 300 microscope mount
- Intelligent objective lens mount (1)
- Digital video PC interface card
- Video processing software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

Compatibility

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

Standard Microscopes with Focus Blocks

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



Features

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

Specifications

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

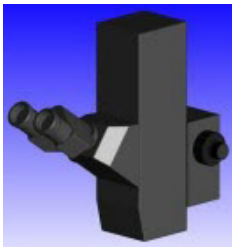
Kit Contents

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

Compatibility

- Elite 300/S, Summit, S300, Alessi

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



Features

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

Specifications

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

Kit Contents

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

Compatibility

- Elite 300/S, Summit, S300, Alessi

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

- Leica S6 E StereoZoom microscope
- 30X eyepieces (pair)
- Mounting arm
- Long working distance solid state LED ring illuminator
- Illumination control box and cables
- Universal power supply (100-240VAC, 50/60Hz)

Compatibility

- Summit, M150, Alessi

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

Features

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

Specifications

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

- Pricing includes on-site installation

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

- MTS

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

- Seiwa (Super Scope) microscope with accessory kit

Features

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

Specifications

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

Kit Contents

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

Compatibility

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

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

Features

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

Specifications

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

Kit Contents

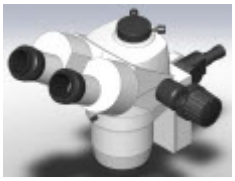
- Microscope body with 1X-2X zoom
- 4 objective manual turret
- Eyepieces: 10X wide field
- Objectives: 2.5X, 10X, 20X long working distance
- IR/1064nm - Green/532nm compatible (M Plan APO)
- 2-inch heavy duty programmable focus block
- Fiber optic illuminator (90-250 VAC/47-63Hz CE)
- Spare lamp bulb,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

Compatibility

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

Microscopes and Microscope Adapters

66529 — Motic Stereozoom Microscope, SMZ-168



Features

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

Specifications

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

Compatibility

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

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

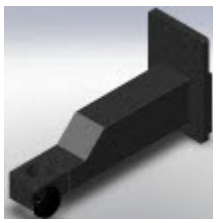
Features

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

Compatibility

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

120103 — Microscope Adapter, Optem/229



Features

- For microscope movement ranges larger than XY 50x50 mm

Compatibility

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

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120586 — Microscope Adapter, Mitutoyo FS70x-S/229

Features

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

Compatibility

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

132712 — Microscope Adapter, Optem

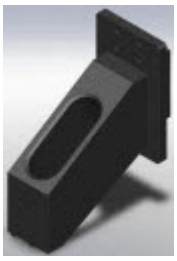
Features

- Required when using an OPTEM Zoom 70 video microscope

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

133915 — Microscope Adapter, Olympus SZ2-STP/229



Features

- For adapter Olympus SZ2-STP

Compatibility

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

141763 — Motic PSM-1000 Microscope

Features

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

Compatibility

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

142730 — Microscope Adapter, Motic SMZ-168/229

Features

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

Compatibility

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

142811 — Stereo Zoom Microscope, SMZ168

Features

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

Specifications

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

Compatibility

- PA200(A) BlueRay

Ordering Information

- Part Number for TV port option: 66531

157-459—SlimVue Microscope

Features

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

Specifications

- Zoom ratio: 3.3x
- Zooming type: Manual rotation with detent
- 10x eyepiece magnification
- 100x-330x magnification with 10x objective lens
- Interpupillary Distance: 55mm~75mm
- Working Distance: Depends on used objective lens
- Image Formation: Erect Image
- Illumination: Built-in White LED
- Illumination type: Coaxial
- Compatible with Mitutoyo MPlan or similar objective lenses
- Trinocular photo tube with standard camera c-mount (switchable) for up to ½-inch CCD cameras
- Optical path change-over: Manual Type 100?0/0?100
- Focus unit range: ±25mm (4mm/100µm per turn of coarse/fine focus knob)
- Power adapter 100V-240V AC 1.6A with IEC 60320-1-C14 connector
- Approx 5.5kg

Kit Contents

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

Compatibility

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

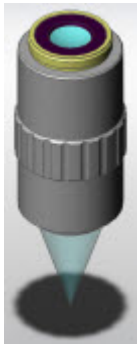
Microscope Objectives/Eye Pieces

Key to Terms

Mag = magnification	BF = bright field
WD = working distance	LWD = long working distance
N.A. = numerical aperture	SLWD = super-long working distance
f = focal length	Laser = laser cutting
R = resolving power	HR = high resolution
DOF = depth of field	NUV = near-ultraviolet
FOV = field of view	[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
132-509	High-Res 20x	BF, LWD	20	0.6	13	10	0.56	0.75	no spec	290	436-656 nm

Seiwa Objectives

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

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

Leica Objectives

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

Features

- Wide-field eyepieces compatible with eyeglasses

Specifications

- 25X magnification

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

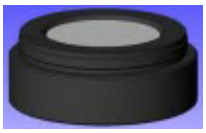
Features

- Wide field eye-pieces

Specifications

- 30X magnification

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



Features

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

Specifications

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

Microscope Accessories

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

Features

- Replacement bulb for halogen illuminators

Specifications

- 120V
- 150W
- EKE bulb

102-363 — Mitutoyo Video Adapter, 1.0X Magnification

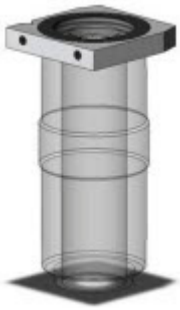
Features

- Connect video camera to microscope for remote viewing

Specifications

- 1X magnification

106-763 — A-Zoom Mitutoyo Objective Mount



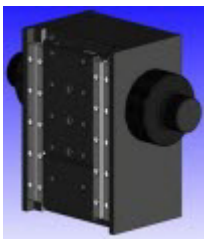
Features

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

Specifications

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

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



Features

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

Specifications

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

Cameras and Video Packages

67120 — Moticam 2300 CMOS Camera

Features

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

Specifications

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

EPS-ACC-HDTV — Digital TV package

Features

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

Specifications

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

Compatibility

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

EPS-ACC-TV — Analogue TV package

Features

- Analogue TV kit for C-mount microscopes

Specifications

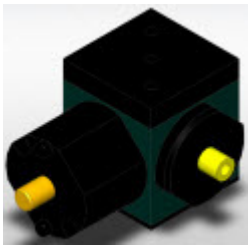
- Camera:
  - 1/2-inch color CCD analogue camera (NTSC, 480 TV lines, 4:3) with C-mount
  - 15-foot combination cable (YC Svideo + Power)
  - Power supply (100-220VAC 50/ 60HZ CE, UL)
- 19-inch TFT monitor:
  - TFT active matrix, 19-inch diagonal viewing area with 4:3 ratio
  - Max/native resolution: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

Compatibility

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

Integrating Sphere and Mounts

53541 — Integrating Sphere, Zenith



Features

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

Compatibility

- Required for 134826, 139086

134826 — Integrating Sphere Mount, Mitutoyo FS70

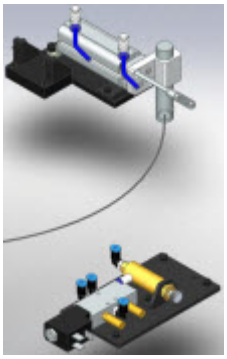
Features

- Mounting of 1-inch 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 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 stroke, for moving sphere out of microscope field of view
- Mounting for Integrating Sphere 1-inch, OptoWhite/Zenith

Compatibility

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

PA200 BlueRay

Chucks and Thermal Chuck Adapters

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

Features

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

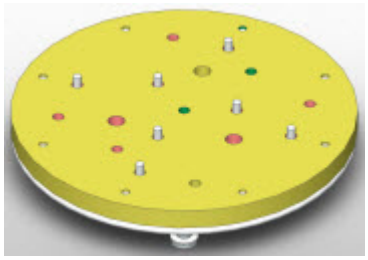
Specifications

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

Compatibility

- PA200 BlueRay

138722 — Thermal Chuck Adapter



Features

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

Compatibility

- PA200 BlueRay

138723 — Thermal Chuck Adapter for Chuck with Lift Pins

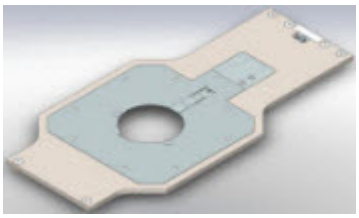
Features

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

Compatibility

- PA200 BlueRay

139873 — Double Side Chuck Plate



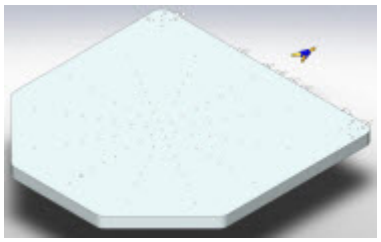
Features

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

Compatibility

- PA200 DS BlueRay

143820 — Chuck, 200 mm, HF, PA200A



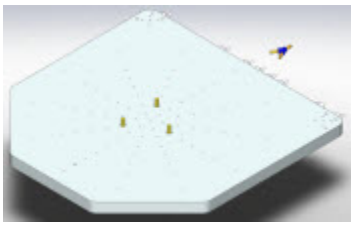
Features

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

Compatibility

- PA200A BlueRay

143821 — Chuck, 200 mm, HF, AP200



Features

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

Compatibility

- AP200 BlueRay

Miscellaneous Accessories

133371 — Operation Lamp 3 Colors

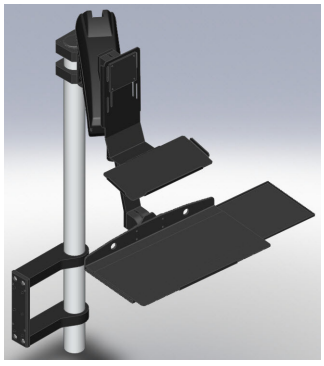
Features

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

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



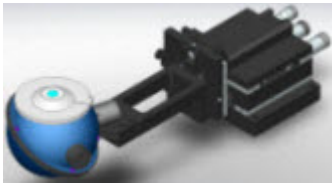
Features

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

135080 — Adaptation Integrating Sphere 4-inch Manual



Features

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

Specifications

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

Compatibility

- PA200 BlueRay

136687 — Measuring Instrument Shelf for BlueRay

Features

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

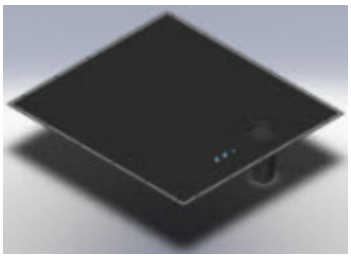
Specifications

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

138390 — SE1000 to VIT700/701 Adapter



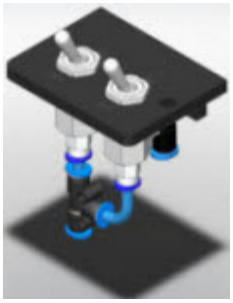
Features

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

Compatibility

- PA200 BlueRay, PA200 DS BlueRay

138651 — Pneumatic Switch Terminal



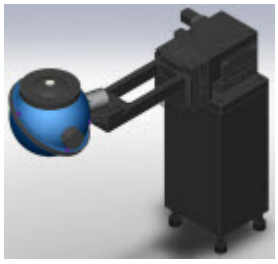
Features

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

Compatibility

- PA200 BlueRay (not compatible with the BlueRay DS)

139985 — Adaptation Integrating Sphere 4-inch Motorized



Features

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

Specifications

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

Compatibility

- PA200 BlueRay

PA300PS-MA

Sigma Kits

127312—Sigma for Agilent 42941A, HF

Features

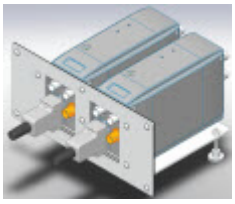
- SIGMA Integration of the impedance probe Agilent 42941A into MicroAlign Advanced systems for capacitance measurements by IV method, including:
- On-wafer integration of Agilent 42941A close to the DUT to optimize measurement performance
- Optimized cable length reduces systematic measurement error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

Compatibility

- CM300, PA300 MicroAlign

131467—Sigma for Agilent E5288A ASU

Features



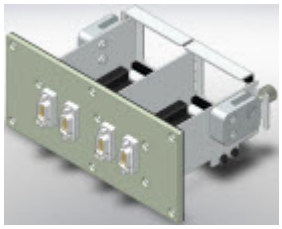
- SIGMA Integration of Agilent E5288A ATTO Sense and Switch Units (ASU) to MicroAlign Advanced systems, including:
- On-wafer integration of one or two ASUs close to the DUT to optimize measurement performance
- For use with any standard triax or triax/Kelvin probe arm and probe arm for DCP probes
-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

Compatibility

- CM300, PA300 MicroAlign

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

Features



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

Compatibility

- CM300, PA300 MicroAlign

145265—Sigma for IV/CV

Features

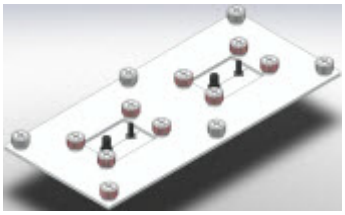
- SIGMA Integration of Parameter Test Instruments for I-V and C-V measurements into the MicroAlign Advanced systems, includes:
- 2 panels with 4 triax-triax-dual connectors (Force & Sense), and 4 coax-triax connectors (type E1)
- Kelvin connectors (Force & Sense) fit to Agilent 4155/4156/4157, and any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

Compatibility

- CM300, PA300 MicroAlign

Test Equipment Interfaces

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



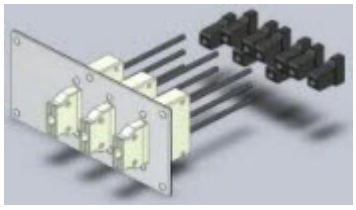
Features

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

Compatibility

- CM300, PA300 MicroAlign

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



Features

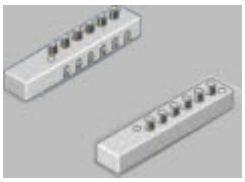
- Feedthrough plate for control lines of up to 3 PH510 for use in a MicroAlign system with Top Chambers
- Not used control lines are covered by a blank plate

Compatibility

- CM300, PA300 MicroAlign

Miscellaneous Accessories

143123 — Vacuum Manifolds



Features

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

Compatibility

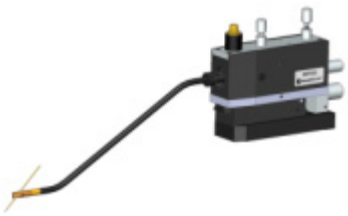
- PA300 MicroAlign

Positioners and Positioner Accessories

DC Positioners

Entry Level

DPP105-M/V-AI-S



Features

- Low cost probing
- Extremely small footprint
- Probe-tip pressure adjustment
- Single arm with gold-plated clamping included
- Suitable for probing pads down to 100 x 100 µm

Specifications

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

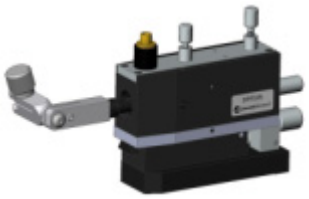
Compatibility

Open Platform Bundles
PM5
PM8
PM300
PA200
PA300

Ordering Information

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

DPP105-M/V-PTH



Features

- Low cost probing
- Extremely small footprint
- Probe-tip pressure adjustment
- Compatible with PTT needle holders
- Suitable for probing pads down to 100 x 100 µm

Specifications

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

Compatibility

Open Platform + PTH Arms
Summit

Ordering Information

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

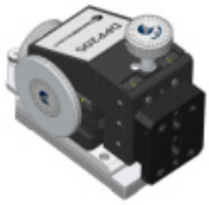
STANDARD

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

Features

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

DPP205-V-R



DPP205-M-L-S

Specifications

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

Compatibility

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

Ordering Information

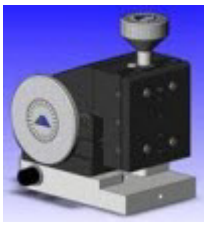
- DPP205-M-L
- DPP205-M-R
- DPP205-V-L
- DPP205-V-R
- DPP205-M-L-S
- DPP205-M-R-S
- DPP205-V-L-S
- DPP205-V-R-S

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

Features

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

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



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

Specifications

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

Compatibility

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

Ordering Information

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

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

Features

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

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

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

Specifications

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

Compatibility

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

Ordering Information

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

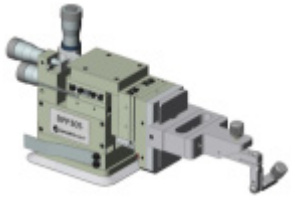
High-End Failure Analysis (FA) Positioners

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

Features

- With precision ball bearings

DPP305 compatible with DC arms, and dedicated arms



DPP305 compatible with PTH arms

Specifications

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

Compatibility

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

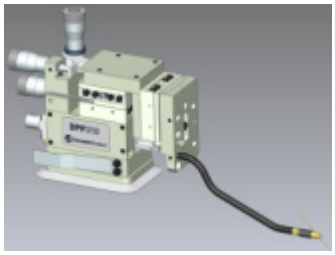
Ordering Information

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

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

Features

- With precision ball bearings



Specifications

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

Compatibility

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

Ordering Information

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

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

Features

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

Specifications

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

Compatibility

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

Ordering Information

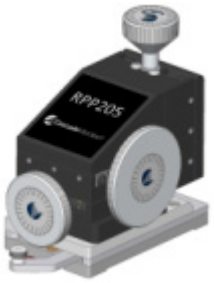
- DPP450-M-S
- DPP450-V-S
- DPP450-M-PTH
- DPP450-V-PTH

RF Positioners

STANDARD

RPP210-M/V-L/R-S

Features



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

Specifications

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

Compatibility

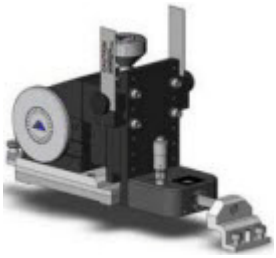
Platforms + RF Arms
PM5
PM8
PM300
PA200
PA200 BlueRay
PA300
PA300-MA

Ordering Information

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

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

Features



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

Specifications

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

Configurations

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

Compatibility

- Summit

Ordering Information

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

RPP210-B-SP-AI

Features

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

Specifications

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

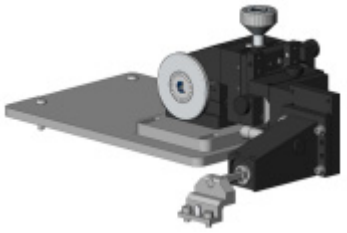
Configurations

- Use on platen in South position only

Compatibility

- Summit

RPP210-B-NP-AI



Features

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

Specifications

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

Configurations

- Use on platen in North position only

Compatibility

- Summit

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

Features

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

Magnetic fixation on HF platen or alternative with vacuum

Specifications

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

Compatibility

- CM300 with top chambers

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

Features

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

Specifications

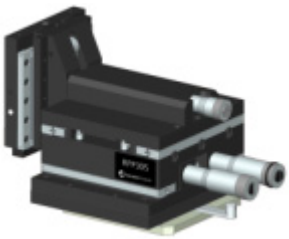
- Movement range: 12.5mm in X, Y and Z (z-axis control: cw=down, ccw=up)
- Fine screws: 0.25 mm pitch (100TPI)
- Positions the probe at the right side of DUT
- Horizontal probe mounting plate can be leveled
- North-South orientation
- For use with HF platen and MicroAlign

Compatibility

- CM300 with top chambers

ADVANCED

RPP305-M/V/B-S



Features

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

Specifications

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

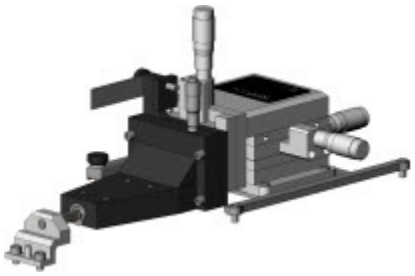
Compatibility

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

Ordering Information

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

RPP304-EW/NS-SU-AI



Features

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

Specifications

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

Configurations

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

Compatibility

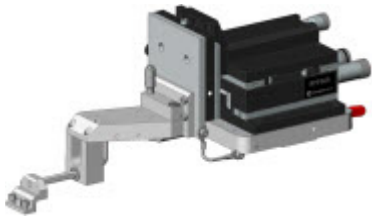
- Summit
- Tesla200

Ordering Information

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

RPP305-EW/NS-EL/SU-AI

Features



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

Specifications

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

Configurations

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

Compatibility

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

Ordering Information

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

RPP305-EW/NS-CM-AI

Features

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

Specifications

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

Compatibility

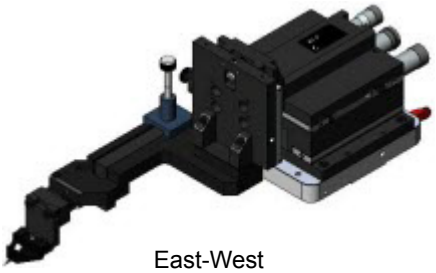
- CM300 with Top Hat, Elite 300

Ordering Information:

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

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

Features



East-West

North-South

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

Specifications

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

Configurations

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

Compatibility

- CM300 with top chambers

Ordering Information

CM300

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

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

Features

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

Specifications

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

Configurations

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

Compatibility

- CM300 with top chambers

Ordering Information

CM300

- RPP305-EWM-CMC-AI

mmW and Motorized Positioners

Open Platform RF and Microwave Positioners

129227 — PH350HF (2)

Features

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

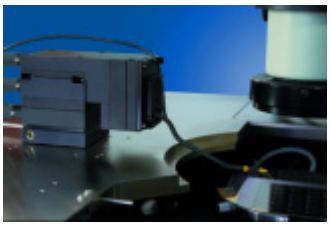
Specifications

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

Compatibility

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

138230 — PH510 Motorized Positioner



Features

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

Specifications

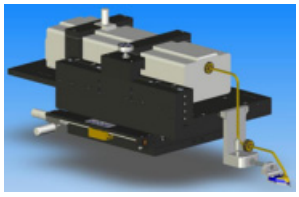
- Feature resolution: 3 µm
- Travel range: (X / Y / Z) 25 mm / 25 mm / 25 mm
- Encoder resolution: (X / Y / Z) 0.02 µm / 0.02 µm / 0.02 µm
- Mounting: vacuum, magnetic, bolt down
- Footprint: 64 mm x 122 mm

Compatibility

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

CM300 & Elite 300 RF and Microwave Positioners

141-779 — mmW Large Area Positioner (W)



Features

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

Specifications

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

Configurations

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

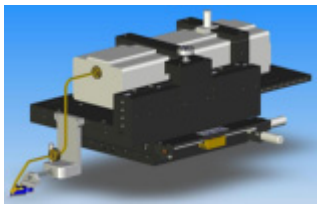
Compatibility

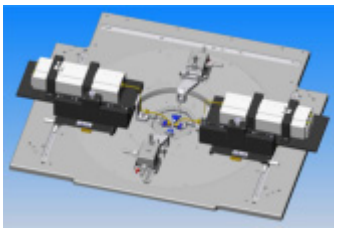
- CM300, Elite 300

141-778 — mmW Large Area Positioner (E)

Features

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





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

Specifications

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

Configurations

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

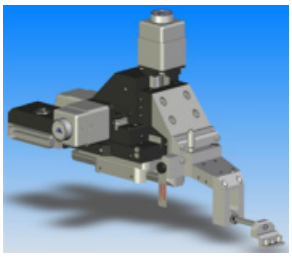
Compatibility

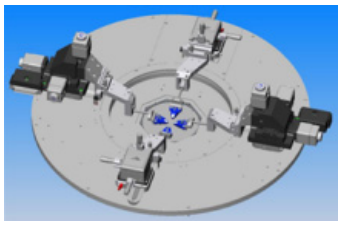
- CM300, Elite 300

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

Features

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





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

Specifications

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

Configurations

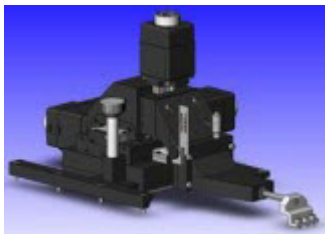
- Use on platen right location as EAST positioner
- Use on platen left location as WEST positioner

Compatibility

- Elite 300

Summit RF and Microwave Positioners

MS1-8E — East Positioner, Programmable



Features

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

Specifications

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

Configurations

- Use on platen right location as EAST positioner

Compatibility

- Summit 12K, S300

MS1-8W — West Positioner, Programmable

Features

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

Specifications

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

Configurations

- Use on platen left location as WEST positioner

Compatibility

- Summit 12K, S300

133-525 — mmW Positioner, Manual, West Positioner

Features

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

Specifications

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

Configurations

- Use on platen right location as West positioner

Compatibility

- Summit, S300

133-528 — mmW Positioner, Manual, East 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

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

Configurations

- Use on platen left location as EAST positioner

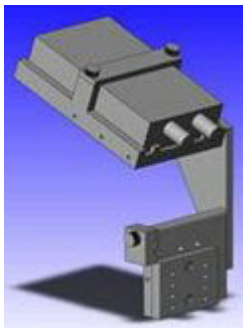
Compatibility

- Summit, S300

Positioner Accessories

DCM Positioner Accessories

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



Features

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

Kit Contents

- Mounting bracket
- Mounting hardware

Compatibility

- Elite 300, Summit, S300, M150, Alessi

RF Positioner Accessories

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

Features

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

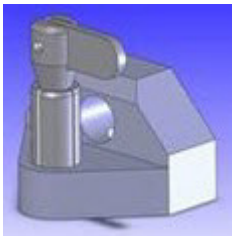
Kit Contents

- Mounting plate
- Plate mounting hardware

Compatibility

- Elite 300, Summit, S300, M150, Alessi

141-858 — FPC Mount for RF Positioners



Features

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

Specifications

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

157-451 — DC Tip Holder

Features

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

Specifications

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

Positioner Accessories for Open Platforms

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

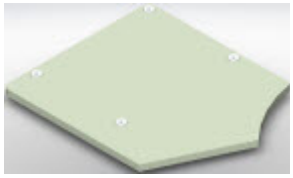
Features

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

Compatibility

- DPP105

115604 — Quarter Ring on HF Platen for DC Probes



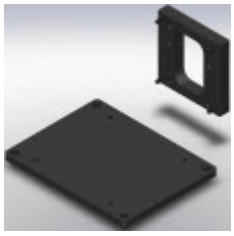
Features

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

Compatibility

- PA300, PM300, PA200, PM8 + HF platen

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



Features

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

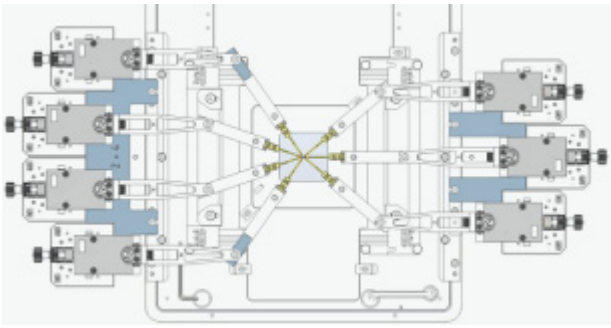
Compatibility

- PH510

145034 — Easy Positioning System for DPP3xx-M-S

Features

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

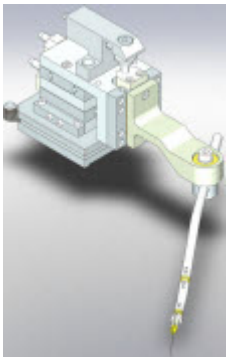


Compatibility

- PA300MA Basis

Cryogenic & Vacuum Positioners

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



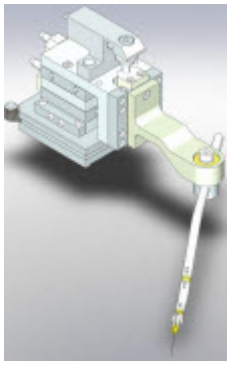
Features

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

Compatibility

- PAC200, PMC200

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



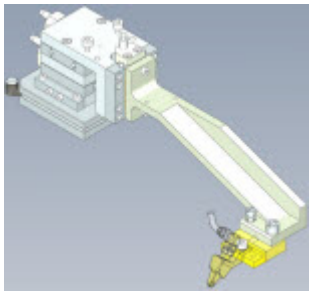
Features

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

Compatibility

- PAC200, PMC200

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



Features

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

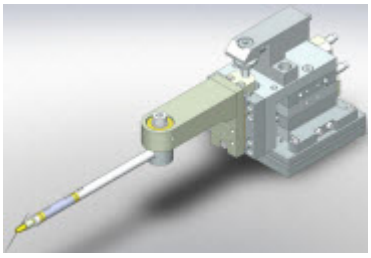
Specifications

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

Compatibility

- PAC200, PMC200

140967— VCP110, High Vacuum, DC Triax, PLV50



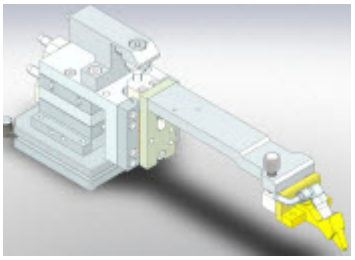
Features

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

Compatibility

- PLV50

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



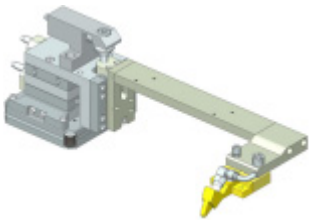
Features

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

Compatibility

- PLV50

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



Features

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

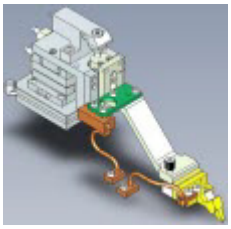
Specifications

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

Compatibility

- PLV50

147061 — VCP110, HF North-South, Cryo, PMC200/ PAC200



Features

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

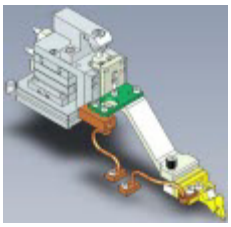
Specifications

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

Compatibility

- PAC200, PMC200

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



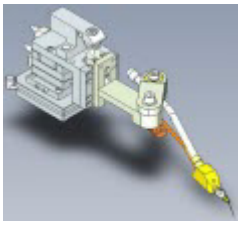
Features

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

Compatibility

- PAC200, PMC200

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



Features

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

Compatibility

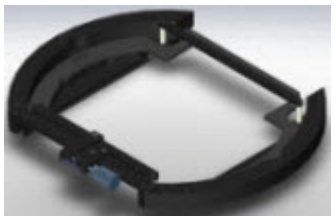
- PAC200, PMC200

Probe Card Holders

Probe Card Holders and Accessories

PA, PM, DSP

100529 — Probe Card Holder, 6x7-Inch



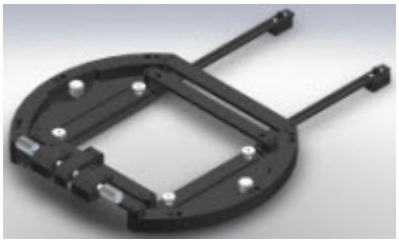
Features

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

Compatibility

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

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



Features

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

Specifications

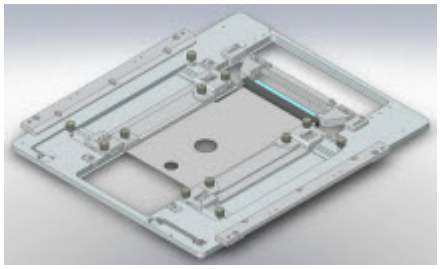
- For standard formats:
  - Width: 4.5-inch
  - Length: 7- to 11-inch
- Theta adjustment range: 5°
- Minimum tip drop: 2 mm (0.08-inch)

Compatibility

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

PA300-MA

140436 — Probe Card Holder, MicroAlign, 4.5-inch



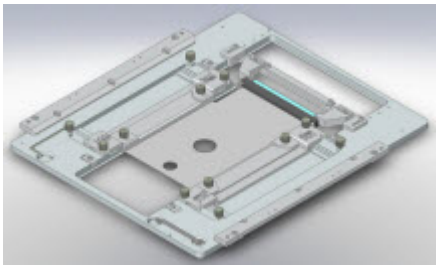
Features

- For use by probe cards with 4.5-inch width inside the EMI/RFI shielded and light-tight environment of the PA300PS-MA Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)

Compatibility

- PA300 MicroAlign

140869 — Probe Card Holder, ProbeShield, 6-inch



Features

- For use by probe cards with 6-inch width inside the EMI/RFI shielded and light-tight environment of the PA300PS-MA Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)

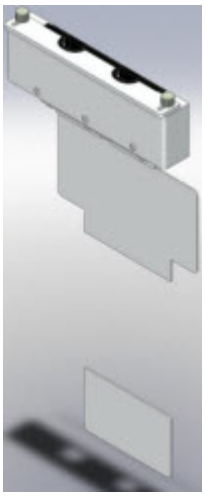
Compatibility

- PA300 MicroAlign

141449 — Celadon Adapter, MicroAlign

Features

- Extension of the 4.5-inch probe card holders for MicroAlign for use by 40 mm and 72 mm tiles from Celadon only
- Two cable feed throughs from rear side on top of the platen
- Suitable for maximum two low-noise triaxial cable harness with 25 signals (51127)
- Includes covers of the front and rear platen opening

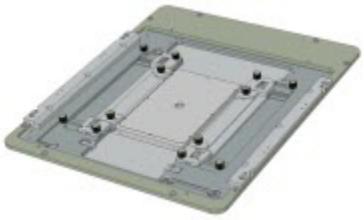


Compatibility

- PA300 MicroAlign

149400 — Probe Card Holder, MicroAlign, 4.5-inch/4x 90°

Features



- For use by probe cards with 4.5-inch width inside the EMI/ RFI shielded and light-tight environment of the PA300PS-MA Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Mechanical and thermal stiff design for lowest drift
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator
- Easy compensation of different tip drop
- Probe card mountable in 90° steps
- Includes covers of the front and rear platen opening for probe cards by STaR and Celadon (card length 152 mm, center 76 mm from front)
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)

Compatibility

- PA300 MicroAlign

Probe Card Holder Accessories

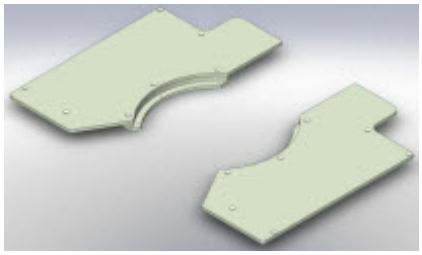
51127 — Celadon Cable Harness

Features

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

100651 — Insert for Probe Card Holder

Features



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

Compatibility

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

Probe Card Holders and Accessories

CM300

161-674 — Probe Card Holder 4.5" for shielded CM300 with Cover and Celadon Probe Cards

Features

- For use by probe cards with 4.5-inch width inside the EMI/RFI shielded and light-tight environment of the CM300 Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator

- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)

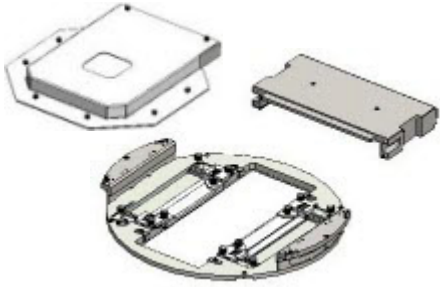
Compatibility

- CM300

161-675 — Probe Card Holder 4.5" for shielded CM300 with Cover

Features

- For use by probe cards with 4.5-inch width inside the EMI/RFI shielded and light-tight environment of the CM300 Advanced and Probe Card
- Integrated ProtecPlate for optimal low-level accuracy
- Frost-free probing
- Simultaneous usage with positioners
- Simple and fast installation of the probe card holder by the operator



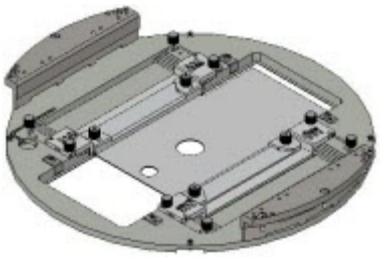
- Easy compensation of different tip drop
- Check probe card for mechanic compatibility (electric connectors, tip drop, wire harness, etc.)

Compatibility

- CM300

163-265 — Probe Card Holder 4.5" for shielded CM300 with Top Chambers

Features



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

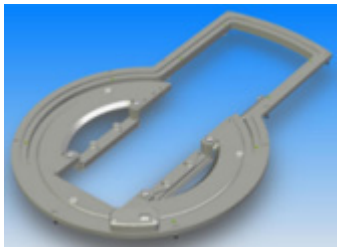
Compatibility

- CM300

ELITE 300

141-861 — Probe Card Holder

Features



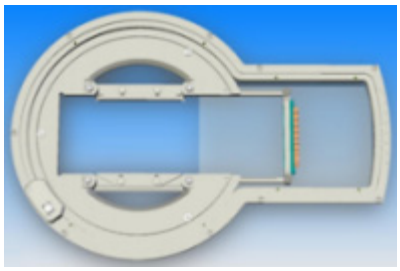
- Universal probe card holder for 4.5-inch rectangular probe cards
- PCH can be oriented E/W/S/N for short cables run to test equipment
- Low profile design allows simultaneous probe card and internal node needle probes
- Quick changeover from positioners to probe card
- Supports multiple probe card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

Specifications

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

Kit Contents

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



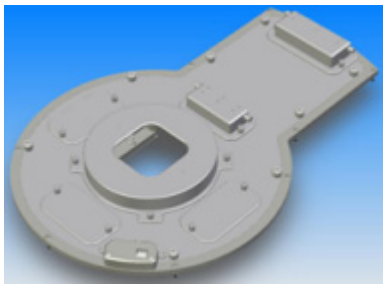
Probe Card Holder (top view) with edge connector and cable heat shield installed

Compatibility

- Elite 300/AP, Elite 300/M

142-338 — MicroChamber Probe Card Holder

Features



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

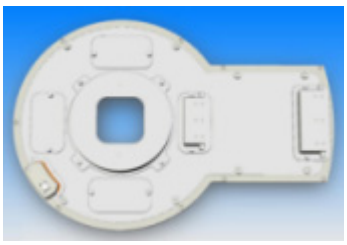
Specifications

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

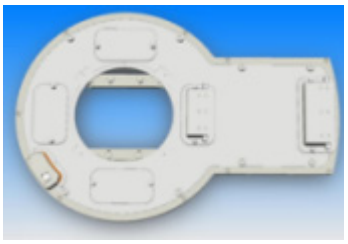
Kit Contents

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

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



Shown with all quick access covers in place



Shown with TopHat cover removed

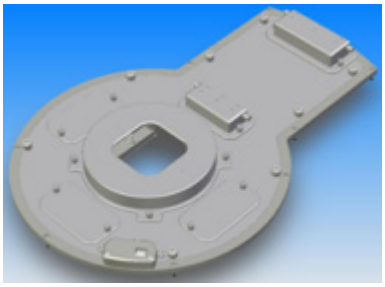
Compatibility

- Elite 300/AP, Elite 300/M

Ordering Information

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

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



Features

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

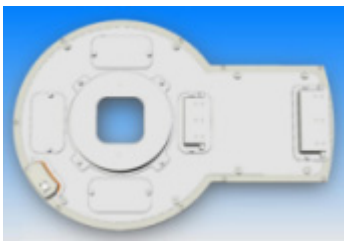
Specifications

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

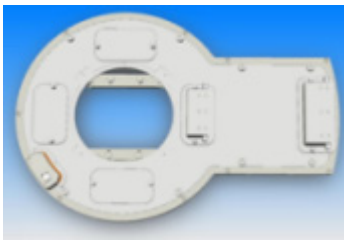
Kit Contents

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

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



Shown with all quick access covers in place



Shown with TopHat cover removed

Compatibility

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

SUMMIT/S300

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

Features

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

Specifications

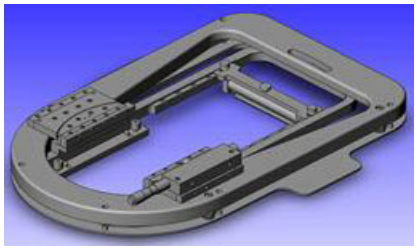
- 6-inch round probe card holder (for Pyramid probe cards)
- Theta adjustment
- No Z (height) adjustment (probe station Z is required)

Compatibility

- Summit 12K, S300

114-338 — High Force Probe Card Holder

Features



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

Specifications

- Maximum probe needle force: 20 kg (2,000 needles)
- Temperature range:
  - System with MicroChamber -55º to 300º C
  - System without MicroChamber Ambient to 300º C
- Theta range: ±3º
- Maximum planarization height compensation: 1.27 mm (0.050-inch)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5-inch ±.012-inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

Compatibility

- Summit 12K, S300

115-418 — High Force Probe Card Holder for MicroChamber

Features

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

Specifications

- Maximum probe needle force: 20 kg (2,000 needles)
- Temperature range:
  - System with MicroChamber -55º to 300º C
  - System without MicroChamber Ambient to 300º C
- Theta range: ±3º
- Maximum planarization height compensation: 1.27 mm (0.050-inch)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5-inch ±.012-inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

Compatibility

- Summit

122-437 — Edge Connector Kit Probe Card Holders

Features

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

Kit Contents

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

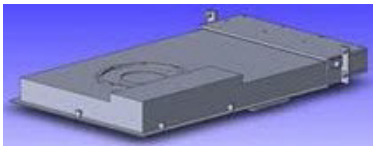
Compatibility

- Summit, S300

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

Features

With cover



Cover removed

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

Specifications

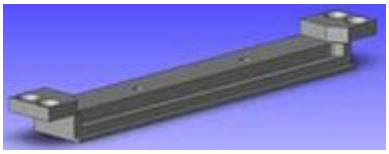
- Maximum probe needle force: 1 kg (100 needles)
- Temperature range:
  - System with MicroChamber -55 to 200 °C
  - System without MicroChamber ambient to 200°C
- Theta range ±3°
- Maximum planarization height compensation: 0.762 mm (0.030-inch)
- Probe card maximums:
  - W = 11.4 cm ±3 mm (4.5-inch ±.012-inch)
  - L = 15.25 cm 28.9 cm (6-inch 11.375-inch)
  - Thickness = 0.15 cm 0.32 cm (0.060-inch 0.125-inch)

Compatibility

- Summit

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

Features



- Option to allow use of shallow draft probe cards
- For use on Low Profile Probe Card Holder 120-935 and 124-118 Low-Profile Probe Card Holder for Summit Stations with MicroChamber.

Specifications

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

Compatibility

- Summit

Probe Mounts/Holders and Probes

Probe Arms and Probes (S-Positioner Compatible)

DC Probe Arms, DPP2xx/DPP3xx

100524 — Probe Arm, DPP2xx/DPP3xx, Edge Sensor

Features

- Includes edge sensor tip
- With connector matching to all semiautomatic standard probe stations (check compatibility to all other probe stations)

Compatibility

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

100525 — Probe Arm, DPP2xx/DPP3xx, Triax

Features

- 1.5 meter 50 Ohm low noise triax cable and triax plug BNC
- Highly isolated and gold plated needle clamping

Specifications

- Max. operation temperature: 300°C
- Resistance*:

R_F-G @10V	T Ω	<100
R_G-S @10V	T Ω	<50
R_F-S @10V	T Ω	<300

- Leakage*:

F-G @10V@1min	fA	<500
G-S @10V@1min	fA	<2000
F-S @10V@1min	fA	<500

- Capacitance*:

C_F-G @300pA	pF	<300
C_G-S @300pA	pF	<500
C_F-S @300pA	pF	<200

* Spec test conditions for all cases: 25% humidity, shielded chamber, ambient.

Compatibility

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

100560 — Probe Arm, DPP3xx, Coax, BNC

Features

- Short 50 Ohm coaxial cable and female BNC connector mounted in DPP3xx positioner base
- Requires additional coaxial cable (BNC male connector)
- Isolated and gold plated needle clamping

Compatibility

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

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

Features

- 2 meter 50 Ohm coaxial cable with BNC connector
- Gold plated needle clamp

Specifications

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

Compatibility

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

100696 — Probe Arm, DPP2xx/DPP3xx, Kelvin, 1 Tip

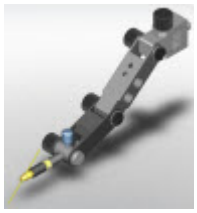
Features

- 2 coaxial cables 2 meters, 50 Ohm and BNC connector
- Double arm design for improved stiffness, with single tip clamping (gold plated)
- Shield connection can be changed
- Connected for LCR measurements as standard

Compatibility

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

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



Features

- 2 meter 50 Ohm coaxial cable and BNC plug
- Four hinges for individual arm profiling
- Gold plated needle clamping

Specifications

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

Compatibility

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

131844 — Probe Arm, DPP2xx/DPP3xx, Coax, High Temperature

Features

- For long term tests at temperatures higher than 100°C and always with temperature chucks up to 300°C

Specifications

- 1.5 meter 50 Ohm cable with coaxial plug BNC

Compatibility

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

144139 — Probe Arm, DPP2xx/DPP3xx, Flex, DCP Probes

Features

- High rigidity
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx/DPP450
- DCP probes, cables and connectors not included base

Compatibility

- All PA/PM open systems (except MicroAlign) + DPP2xx-S, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

Note: DPP3xx-S and DPP450-S (and former PH150, PH400) require 138697 in order to mount this arm.

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

- All PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)

146042 — Probe Arm, RPP210-S, East-West, for Vacuum/Magnetic Plate

Features

- For use with HF probes (e.g. |Z| Probe)
- Positions the probe at the left or right side of DUT
- Horizontal probe mounting platen can be leveled
- For use with vacuum and magnetic platen

Compatibility

- All PA/PM stations (except MicroAlign) + RPP210-S (and former PH110)

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

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

100647 — Probe Arm, RPP305, East

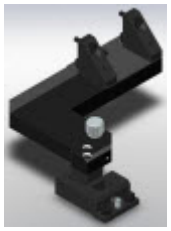
Features

- 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

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

100649 — Probe Arm, RPP305, North-South

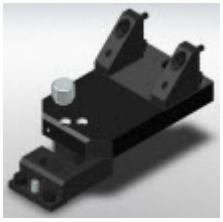
Features

- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe at the front or rear of DUT
- Probe mounting platen can be leveled (for 4-port configuration)

Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

118160 — Probe Arm, RPP305, West



Features

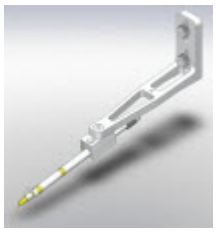
- For use with HF probes (e.g. |Z| Probe)
- For positioning the probe on the left side of DUT
- Probe mounting platen can be leveled (not compatible with 4-port configuration)

Compatibility

- All PA/PM stations (except MicroAlign) + RPP305-S (and former PH250)

DC Probe Arms, MicroAlign

138687 — Probe Arm, DPP2xx/DPP3xx, Triax



Features

- For use with MicroAlign systems
- Highly isolated needle clamp for standard single tips like PTT needles
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

Specifications

- 0.75 meter 50 Ohm low noise triax cable and 3 lug triax plug
- DC leakage <10 fA at ambient temperature
- For use with temperature chucks up to 300°C

Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

138690 — Probe Arm, DPP2xx/DPP3xx, Triax, Kelvin 1Tip

Features

- For use with MicroAlign systems
- For triaxial I/V-, Kelvin- and C/V (with CX-TRX adapter) tests
- Stainless steel design for high rigidity and minimum thermal drift
- Highly isolated needle clamp for single tips like PTT needles. (Signal from force and sense already connected inside chassis)
- Connector sockets for CommonRing cables (C/V-Test, 1 cable included), guard potentials from force and sense are connected to these sockets
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

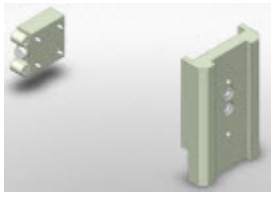
Specifications

- 2 x 0.75 meter 50 Ohm low-noise triax cable and 3 lug triax plug
- For use with temperature chucks up to 300°C

Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

138697 — Adapter for Probe Arms DPP2xx/DPP3xx to Positioner DPP3xx



Features

- Converts DPP3xx-S/DPP450-S front plate for use with DPP2xx/DPP3xx probe arms for DC and RF applications on MicroAlign systems

Compatibility

- CM300 stations, PM/PA stations + DPP3xx-S, DPP450-S (and former PH150)

138700 — Probe Arm, DPP2xx/DPP3xx, Pico Probe

Features

- For MicroAlign systems
- Holding fixture for Active Pico probes from GGB Pico probe 10…34 (Pico probe not included)
- Stainless steel design for high rigidity and minimum thermal drift
- Requires Test Equipment Interface 144987 for use at MicroAlign Advanced systems
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

144866 — Probe Arm, DPP2xx/DPP3xx for DCP Probe

Features

- For MicroAlign systems
- For triaxial I/V-, Kelvin-, C/V (with CX-TRX adapter) and 1/f applications
- Holding fixture for advanced DC coaxial probes like AP&T Probes, DCP and DCP-HTR probes
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S
- Includes two cables 0.7m long 3-lug Triax-SSMC for IV and Kelvin measurements

Specifications

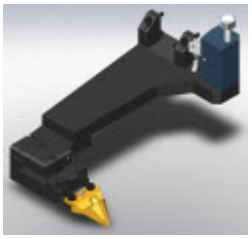
- DC leakage <10 fA at ambient temperature

Compatibility

- PA300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

RF Probe Arms, MicroAlign

133302 — Probe Arm, RPP305, North-South



Features

- For MicroAlign systems
- 4 probe setup
- For adaptation of HF probes or probe wedges
- For positioning the probe at front or rear side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at positioner end of the arm for easier operation
- Requires HF add-on platen or RPP305-M
- For use with RPP305 positioners

Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

133303 — Probe Arm, RPP305, East-West

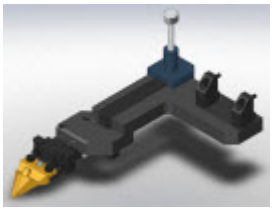
Features

- For MicroAlign systems
- 4 probe setup
- For adaptation of HF probes or probe wedges
- For positioning the probe at left or right side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at positioner end of the arm for easier operation
- Requires HF add-on platen or RPP305-M
- For use with RPP305 positioners

Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

134006 — Probe Arm, RPP305, East-West



Features

- For MicroAlign systems
- To accompany 133303 to place two RPP305 (left and right) together in front of the operator
- For adaptation of HF probes or probe wedges
- For positioning the probe at left or right side of DUT
- Probe mounting plate can be levelled, adjustment drive screw located at end of the arm for easier operation
- Requires HF add-on platen on probe platen or RPP305-M
- For use with RPP305 positioners

Compatibility

- PA300 MicroAlign + RPP305 (and former PH250)

144777 — Probe Arm, RPP210-S, East-West

Features

- For use with HF probes or wedges
- Positions the probe at the left or right side of DUT
- Horizontal probe mounting plate can be levelled
- For use with HF platen and MicroAlign
- For use with RPP210-S (and former PH110) positioners

Compatibility

- All PM/PA stations with RF platen, CM300 and PA300 MicroAlign, RPP210-S (and former PH110)

144778 — Probe Arm, RPP210-S, North-South, MicroAlign

Features

- For MicroAlign systems
- For use with HF probes or wedges
- Positions the probe at the front or rear side of DUT
- Horizontal probe mounting plate can be levelled
- For use with HF platen and MicroAlign
- For use with RPP210-S positioners

Compatibility

- All PM/PA stations with RF platen, CM300 and PA300 MicroAlign, RPP210-S (and former PH110)

RF Probe Arms, PA200 BlueRay

142139 — Probe Arm, RPP305-S East, Right, 2 Positioners, BlueRay

Features

- For positioning the probe on the right side of DUT
- With integrated probe planarization

Compatibility

- RPP305-B-S, RPP305-M-S

142140 — Probe Arm, RPP305-S West, Left, 2 Positioners, BlueRay

Features

- For positioning the probe on the left side of DUT
- With integrated probe planarization

Compatibility

- RPP305-B-S, RPP305-M-S

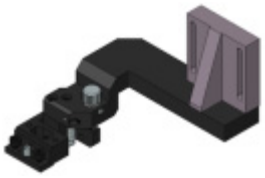
142143 — Probe Arm, RPP305-S East-West, 4 Positioners, BlueRay

Features

- For positioning the probe on the left or right side of DUT
- With integrated probe planarization

Compatibility

- RPP305-B-S, RPP305-M-S



142148— Probe Arm, RPP305-S North-South, 4 Positioners, BlueRay

Features

- For positioning the probe at the front or rear of DUT
- With integrated probe planarization

Compatibility

- RPP305-B-S, RPP305-M-S

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

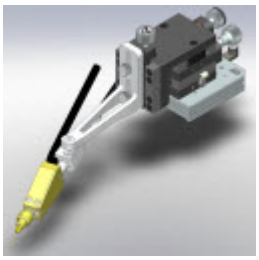
- Ferrule diameter 250 µm for 125 µm fiber cores and jacket
- Fiber angle vertical adjustable 80°-90°

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

STOP 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
- Requires arm holder for RPP210

Specifications

- 1.2m coax cable with 10 kV plug
- Operating voltage up to 10 kV

Compatibility

- PM5 Power

145297 — Probe HV Triax / 3 kV

STOP 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
- Stainless steel design for high rigidity and minimum thermal drift
- Requires arm holder for RPP210

Specifications

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

Compatibility

- PM5 Power

145298 — Probe HV Coax / 3 kV

STOP 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
- Requires arm holder for RPP210

Specifications

- 0.75m coax cable with SHV plug
- Operating voltage up to 3 kV

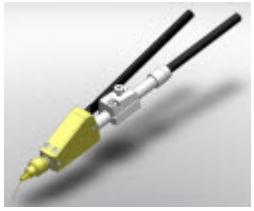
Compatibility

- PM5 Power

145300 — Probe HV Triax / Kelvin / 3 kV

STOP 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
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 meter 50 Ohm triaxial cable with HV Triax plug
- Operating voltage up to 3 kV

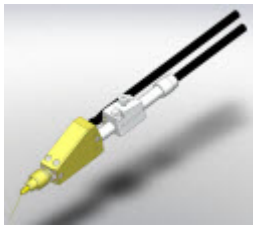
Compatibility

- PM5 Power

145301 — Probe HV Coax / Kelvin / 3 kV

STOP 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
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 meter 50 Ohm coaxial cable with SHV connector (male)
- Operating voltage up to 3 kV

Compatibility

- PM5 Power

145302 — Probe Coax / Kelvin

Features

- For coaxial I/V-, Kelvin- and C/V tests
- Highly isolated needle clamp for single tips (inner conductor of both cables already connected inside chassis)
- Stainless steel design for high rigidity and minimum thermal drift
- For use with temperature chucks up to 300°C
- Connector sockets for CommonRing cables
- Requires arm holder for RPP210

Specifications

- 2 x 1.2 meter 50 Ohm coaxial cable with BNC connector

Compatibility

- PM5 Power

146083 — Sigma for B1505A/SE

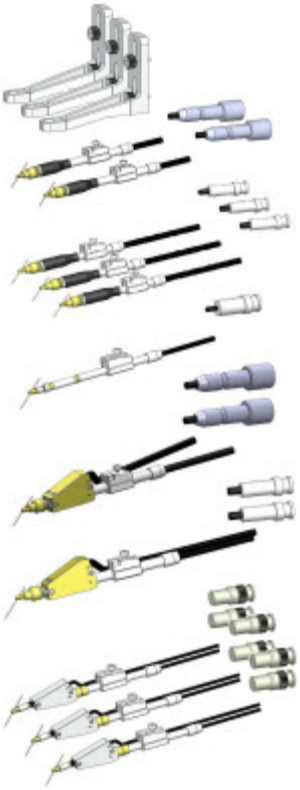
DANGER

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 Agilent B1505A Parameter System into the ShieldEnclosure/POWER, including:

- On-wafer integration of Agilent 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 Agilent protection adapters and HV-bias-T according to the Application Overview for B1505A by Agilent.
- Agilent-verified configuration and probe accessories.
- Also requires:
  - Three (3) DPP2xx-M positioners with MAG base
  - Standard probe needles suitable for desired voltage/ current range



Compatibility

- PM5 Power System

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 Agilent 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.

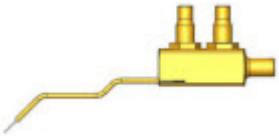
Compatibility

- PM5 Power System

Probe Tips (Compatible with Positioner Probe Arms)

AP&T Probe Tips

67045 — Probe Tip, AP&T, Kelvin, 5 µm



Features

- Single tungsten probe tip (replaceable) 5 µm radius
- Quasi-Kelvin-Point in probe housing
- Optimized shape for MicroAlign systems

Compatibility

- All probe arms for advanced coax and DCP probes

67055 — Replacement Tip, AP&T Probe, 5 µm

Features

- Replacement tip for AP&T probes Kelvin-1 Tip
- 5 µm radius, tungsten
- Optimized shape for MicroAlign systems
- Package of 5 pieces

Compatibility

- For Probe Tip AP&T, Kelvin

70197 — Replacement Tip, AP&T Probe, 1.5 µm

Features

- Replacement tip for AP&T probes Kelvin-1 Tip
- 1.5 µm radius, tungsten
- Optimized shape for MicroAlign systems
- Package of 5 pieces

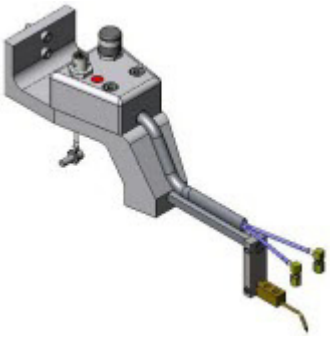
Compatibility

- For Probe Tip AP&T, Kelvin

CM300 DC Probe Mounts and Holders

TopHat Configuration

163-593 — DCP Probe Mount, 43mm, Dual Triax, DPP2xx DPP2xx



Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

Specifications

- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- Precision industry standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

Kit Contents

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

Compatibility

- CM300 with TopHat, Elite 300

163-595 — DCP Probe Mount, 43 mm, HTS, DPP2xx

Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

Kit Contents

- Probe to positioner mount
- EMI grounding strap

Compatibility

- CM300 with TopHat, Elite 300

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

Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners and MicroChamber TopHat
- Constructed with high stability thermal materials

Kit Contents

- Probe to positioner mount
- EMI grounding strap

Compatibility

- CM300 with TopHat, Elite 300

Top Chamber Configuration

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

Features

- For CM300 MicroAlign systems
- For triaxial I/V-, Kelvin-, C/V (with CX-TRX adapter) and 1/f applications
- Holding fixture for advanced DC coaxial probes like AP&T Probes, DCP and DCP-HTR probes
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S
- Includes two cables 0.7m long 3-lug Triax-SSMC for IV and Kelvin measurements

Specifications

- DC leakage <10 fA at ambient temperature

Compatibility

- CM300 MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

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

Features

- For use with CM300 MicroAlign systems
- Highly isolated needle clamp for standard single tips like PTT needles
- Stainless steel design for high rigidity and minimum thermal drift
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

Specifications

- 0.75 meter 50 Ohm low noise triax cable and 3 lug triax plug
- DC leakage <10 fA at ambient temperature
- For use with temperature chucks up to 300°C

Compatibility

- CM300 MicroAlign with top chambers + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

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

Features

- For use with CM300 MicroAlign systems
- For triaxial I/V-, Kelvin- and C/V (with CX-TRX adapter) tests
- Stainless steel design for high rigidity and minimum thermal drift
- Highly isolated needle clamp for single tips like PTT needles. (Signal from force and sense already connected inside chassis)
- Connector sockets for CommonRing cables (C/V-Test, 1 cable included), guard potentials from force and sense are connected to these sockets
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

Specifications

- 2 x 0.75 meter 50 Ohm low-noise triax cable and 3 lug triax plug
- For use with temperature chucks up to 300°C

Compatibility

- CM300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

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

Features

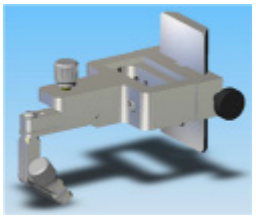
- For CM300 MicroAlign systems
- Holding fixture for Active Pico probes from GGB Pico probe 10…34 (Pico probe not included)
- Stainless steel design for high rigidity and minimum thermal drift
- Requires Test Equipment Interface 144987 for use at MicroAlign Advanced systems
- Requires adaptation unit 138697 for use with DPP3xx-S/DPP450-S

Compatibility

- CM300 MicroAlign + DPP2xx, DPP3xx-S, DPP450-S (and former PH110, PH150, PH400)

Elite 300 and Summit DC Probe Mounts and Holders

144-388 — Universal Probe Holder with Dovetail Adapter Kit

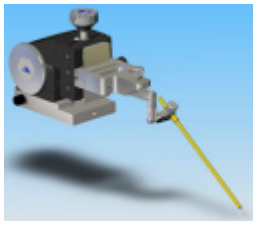


Features

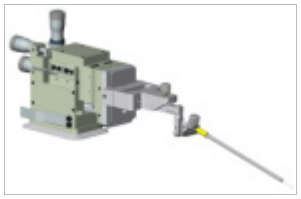
- Universal probe holder for DPP series positioners (not TopHat compatible)
- Locking universal swivel-inch joint for quick probe setup
- Gross Z height adjustment for easy probe tip replacement
- Standard probe interface supports multiple probes (coax, triax, unshielded, picoprobe)

Kit Contents

- Universal probe holder
- Cable clamp
- Mounting screws



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



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

Compatibility

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

144-389 — Universal Probe Holder with MS1 Adapter

Features

- Universal probe holder for MS1-44 programmable positioners (not compatible with TopHat)
- Locking universal swivel-inch joint for quick probe setup
- Gross Z height adjustment for easy probe tip replacement
- Standard probe interface supports multiple probes (coax, triax, unshielded, pico probe)
- Side cable clamp for minimizing cable vibration to the probe

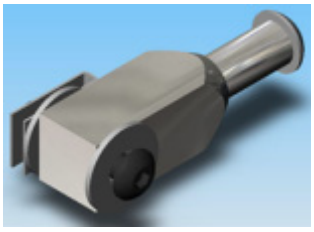
Kit Contents

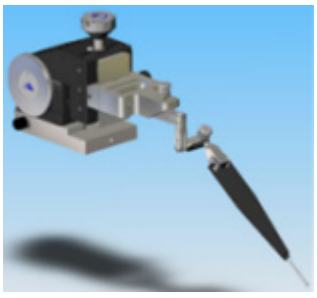
- Universal probe holder
- Cable clamp
- Mounting screws

Compatibility

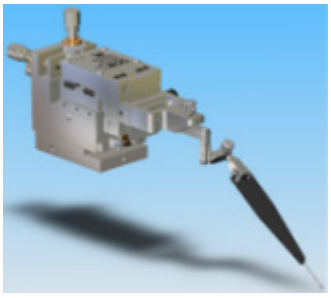
- Elite 300, Summit

144-887 — Mount, Pico Probe, Stud Grip





Picoprobe high impedance probe on DPP2xx-PTH positioner



Picoprobe high impedance probe on DPP3xx-PTH or DPP450-PTH positioner

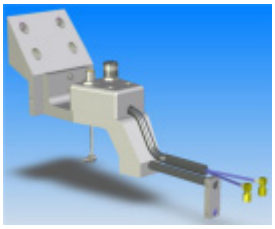
Features

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

Compatibility

- Elite 300, Summit

151-286 — DCP Probe Mount, 40 mm, HTS, Triax, MS1 Series



Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Compatible with MS1 programmable positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials

Specifications

- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation),
- Precision Industry Standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

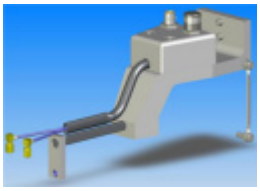
Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

151-287 — DCP Probe Mount, 40 mm, HTS, Triax, DPP2xx



Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials

Specifications

- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation),
- Precision Industry Standard SSMC connectors
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max Current = 1Amp

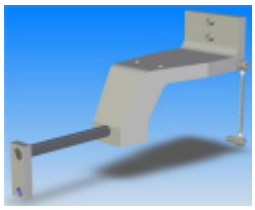
Kit Contents

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

Compatibility

- Elite 300/AP, Elite 300/M

151-288 — DCP Probe Mount, 40 mm, HTS, DPP2xx



Features

- Probe mount for DCP probes (DCP-1xx, DCP-HTR)
- For use on Elite 300
- Direct probe/cable connection (SSMC)
- Compatible with DPP2xx positioners
- Compatible with MicroChamber TopHat
- Constructed with high-stability thermal materials

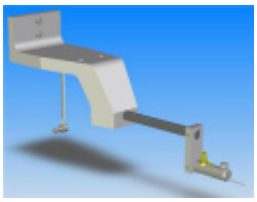
Kit Contents

- Probe to positioner mount
- EMI grounding strap

Compatibility

- Elite 300/AP, Elite 300/M

151-289 — Needle Probe Mount and Enhanced Jack Lock Holder for DPP2xx Positioners



Features

- Enhanced probe mount for PTT needle probes (45°)
- Easy probe needle replacement without tools
- Constructed with high-stability thermal materials
- For use on Elite 300
- Compatible with MicroChamber TopHat
- Compatible with DPP2xx positioners
- Compatible with all 45° PTT series probe needles

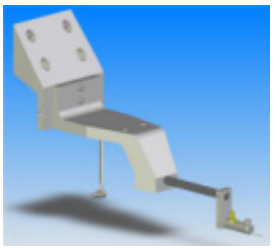
Kit Contents

- Probe to positioner mount
- Jack lock holder with SSMC (f) and pin jack (f) connectors
- 1m coax (m) to SSMC (m)
- 18-inch cable with pin jack (m) to (m)
- EMI grounding strap

Compatibility

- Elite 300/AP, Elite 300/M

151-290 — PTT Needle Probe Mount, 40 mm, HTS, Enhanced Jack Lock Holder, MS1 Series



Features

- Enhanced probe mount for PTT needle probes (45°)
- For use on Elite 300
- Compatible with MicroChamber TopHat
- Easy probe needle replacement without tools
- Compatible with all 45º PTT series probe needles
- Compatible with MS1 programmable positioners

Kit Contents

- Probe to positioner mount
- Jack lock holder with SSMC (f) and pin jack (f) connectors
- 1m coax (m) to SSMC (m)
- 18-inch cable with pin jack (m) to (m)
- EMI grounding strap

Compatibility

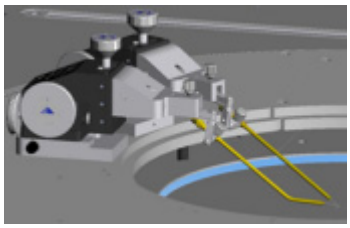
- Elite 300/AP, Elite 300/M

Elite 300 and Summit DC Probes

139-331 — Coaxial Probe (Straight)

Features

- Shielded DC measurements with coaxial probe
- Straight configuration for multiple probing applications when using straight or 45° needles for steep access
- Easy probe needle replacement without tools
- Compatible with all PTT series probe needles
- Replaceable SMA cable
- Easy connection to Elite 300 coax connection panel on platen



Two (2) DPP2xx positioners and universal probe mounts, one using the straight coax probe with straight needle, and the other using a bent coax probe with 45° bent PTT needle

Kit Contents

- Straight shielded probe
- Integrated SMA (f) connector
- Shielded coaxial cable, 30-inch with SMA (m) to BNC (m)

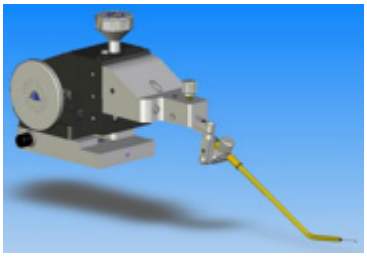
Compatibility

- Elite 300, Summit

139-870 — Coaxial Probe (Bent)

Features

- Shielded DC measurements with coaxial probe
- Bent configuration for increased microscope objective clearance with high magnification/low working distance objective lenses
- Easy probe needle replacement without tools
- Compatible with all bent PTT series probe needles
- Replaceable SMA cable
- Easy connection to Elite 300 coax connection panel on platen



Coaxial probe (bent) with 45° PTT needle, shown attached to universal probe holder and DPP2xx positioner.

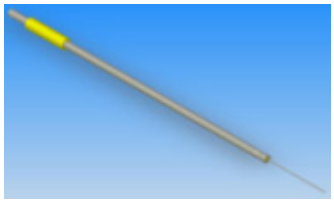
Kit Contents

- Bent 35° shielded probe
- Integrated SMA (f) connector
- Shielded coaxial cable, 30-inch with SMA (m) to BNC (m)

Compatibility

- Elite 300, Summit

144-390 — Triaxial Probe (Straight)



Features

- Guarded DC measurements with triaxial probe
- Integrated triaxial cable for low-noise measurements
- Easy connection to Elite 300 triaxial connection panel on platen
- Straight configuration for multiple probing applications when using straight or 45° needles for steep access
- Easy probe needle replacement without tools
- Compatible with all PTT series probe needles

Kit Contents

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

Compatibility

- Elite 300, Summit

144-391 — Triaxial Probe (Bent)

Features

- Guarded DC measurements with triaxial probe
- Integrated triaxial cable for low-noise measurements
- Easy connection to Elite 300 triaxial connection panel on platen
- Bent configuration for increased microscope objective clearance with high magnification/low working distance objective lenses
- Easy probe needle replacement without tools
- Compatible with all 45° PTT series probe needles

Kit Contents

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

Compatibility

- Elite 300, Summit

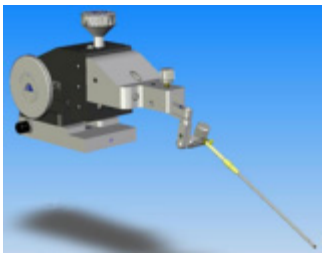
144-392 — Unshielded Probe Kit

Features

- Interchangeable probe arms (unshielded)
- Easy probe needle replacement without tools
- Pin jack for DC electrical connection
- Compatible with all PTT series probe needles

Kit Contents

- Collet adapter with pin lock connector (f)
- Straight unshielded probe arm with jack lock
- 35° bent unshielded probe arm with jack lock
- 18-inch cable with pin jack (m) to (m)



Unshielded probe (straight) and collet shown attached to universal probe holder and DPP2xx positioner

Compatibility

- Elite 300, Summit

PHQ — Quick Lock Probe Holder

Features

- Replacement probe tip holder for MMP probes
- Quick lock needle holding mechanism (spring-loaded Collette style)
- Constructed of nickel plated brass that can be user-formed as needed

Specifications

- 4.5-inch in length
- Nickel plated brass
- Quick lock mechanism

Kit Contents

- Probe tip holder
- MAE-44/18 cable 18-inch

Compatibility

- Summit

PHW — Wrench Lock Probe Holder

Features

- Replacement probe tip holder for MMP probes
- Wrench lock needle holding mechanism (set screw hold)
- Constructed of nickel plated brass that can be user-formed as needed

Specifications

- 4.5-inch in length
- Nickel plated brass
- Wrench lock mechanism

Kit Contents

- Probe tip holder
- MAE-44/18 cable 18-inch
- Allen wrench

Compatibility

- Summit

Summit DC Probe Arms and Mounts

104-030K — DCP Probe Mount, Dual Triax Adapter (Kelvin) for RPP305-EW-SU positioner

Features

- Enables Kelvin connection to DCP style probes on East/West RPP305 positioners
- Supports Summit 11/12K and S300 systems

Specifications

- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

104-856K — DCP Probe Mount, Dual Triax Adapter (Kelvin) for RPP305-NS-SU Positioner

Features

- Enables Kelvin connection to DCP style probes on North/South RF positioners
- Supports Summit 11/12K and S300 systems

Specifications

- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

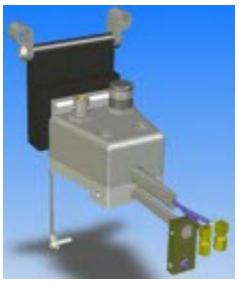
Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

114-818 — DCP Probe Mount, Dual Triax Adapter (Kelvin) for DPP2xx



Features

- Enables Kelvin connection to DCP style probes on DPP2xx positioners
- Supports Summit 11/12K and S300 systems

Specifications

- Instrument connections are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

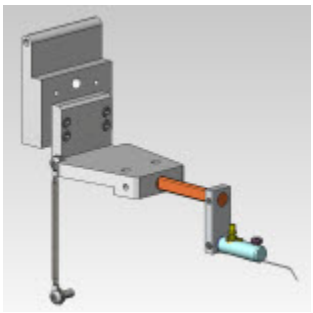
Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

114-842 — Needle Probe Mount and Jack Lock Holder for DPP2xx



Product Features

- Enhanced probe mount for PTT needle probes (45°)
- Easy probe needle replacement without any tools
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style or SSMC cable connection

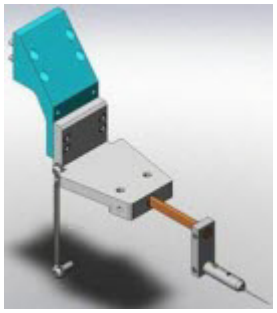
Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45°) style needles (not included)

Station Compatibility

- Summit, S300, Alessi

114-843 — Needle Probe Mount and Jack Lock Holder for MS1 Series Positioners



Features

- Needle probe holder (PTT style needles) for MS1 series programmable positioners
- Jack lock style holding mechanism
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style cable connection

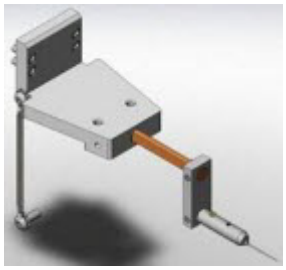
Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45degree) style needles (not included)

Compatibility

- Summit, S300, Alessi

114-847 — Needle Probe Mount and Jack Lock Holder for MH2 Positioners



Features

- Needle probe holder (PTT style needles) for MH2 series positioners
- Jack lock style holding mechanism
- Top hat compatible
- Will work on positioners equipped for DCP probes
- Uses mini pin jack style cable connection

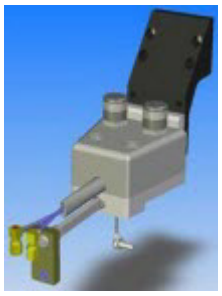
Kit Contents

- Includes arm and mounting hardware
- Recommended for use with PTT-XX/4-25 (45degree) style needles (not included)

Compatibility

- Summit, S300, Alessi

115-596 — DCP Probe Mount, Dual Triax Adapter (Kelvin) for MS1 Series Positioners



Features

- Enables Kelvin connection to DCP style probes on MS1 series programmable positioners

Specifications

- Instrument connection are female mini-triax connectors
- Probe connections are cables with SSMC male for use with DCP style probes
- Usable from -60°C to 300°C (above 250°C: 8 hours max. operation)
- 50 Ohm characteristic impedance
- Breakdown voltage: >500Volts
- Max current = 1Amp

Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

116-031 — DCP Probe Mount for DPP2xx, Direct Probe/ Cable Conn (SSMC)

Features

- Mounting bracket for DCP probes, for use on DPP2xx positioners
- To be used with direct cable from instrument to DCP probe (e.g., 105-540 or 124-562 BNC to SSMC cables
- Top Hat compatible

Kit Contents

- Mounting hardware

Compatibility

- Summit, S300, Alessi

129-116 — PTT Probe Mount (MMP-01/J) and Adapter Kit for DPP2xx

Features

- For use with DPP2xx positioners
- Brass needle holder can be user-formed as needed
- Uses pin jack style connection (e.g., MAE cables), one included
- Has gross Z adjustment via thumb screw on holder arm
- Holder also pivots
- Not recommended for Top Hat use

Kit Contents

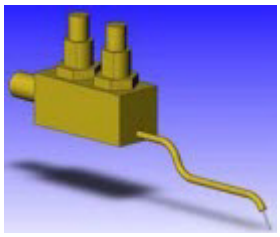
- Mounting hardware
- Mounting bracket
- Probe holder arm
- MAE-44/18 cable 18-inch

Compatibility

- Summit, S300 (non TopHat), Alessi

DC Probes, Coax and Triax, DCP and PE5 Style Probe Holders

DCP-105R — DC Coaxial Probe, Single Line, 0.5 µm Radius, Replaceable Tip



Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

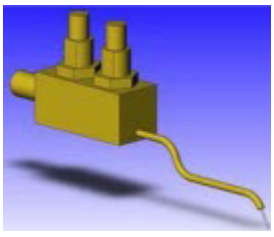
Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 0.5 µm radius probe tip

Compatibility

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

DCP-115R — DC Coaxial Probe, Single Line, 1.5 µm Radius, Replaceable Tip



Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Fully guarded measurement to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

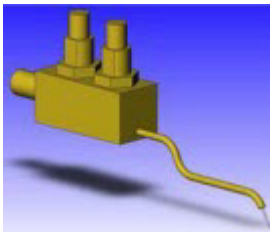
Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 1.5 µm radius probe tip

Compatibility

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

DCP-150R — DC Coaxial Probe, Single Line, 5.0 µm, Replaceable Tip



Features

- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage
- Replaceable coax probe tips (Not included)

Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm radius probe tip

Compatibility

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

DCP-150GPR-50 — DC Coaxial Probe with Ground Needle, 50 µm Pitch

Features

- High-quality construction with low-noise electrical performance
- High Frequency performance due to Signal/ground configuration
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Precision SSMC 50 ohm connection
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage

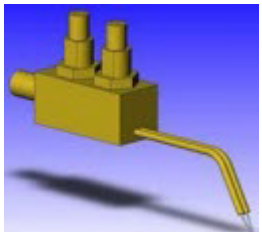
Specifications

- Breakdown voltage: >500 V
- Signal Ground pitch, 50 µm
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 500 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm radius probe tip

Compatibility

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

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



Features

- True Kelvin Probe, two 5 µm radius tips separated by 25 µm
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Dual Precision SSMC 50 ohm connections, one for each tip
- Individual connectors for each tip
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage

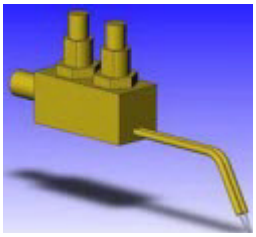
Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Probe Tip separation: 25 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm radius probe tip

Compatibility

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

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



Features

- True Kelvin Probe, two 5 µm radius tips separated by 50 µm
- High-quality construction with low-noise electrical performance
- Ultra-low, fA and fF measurements from -65ºC to 150ºC
- Fully guarded measurements to fA and fF levels
- Great for Modeling and Characterization work
- Dual Precision SSMC 50 ohm connections, one for each tip
- Individual connectors for each tip
- Integrally designed as part of Cascade Microtech's complete measurement solution
- Configurable for triax usage

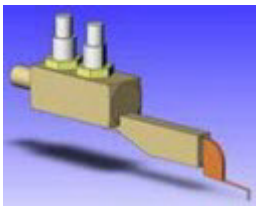
Specifications

- Breakdown voltage: >500 V
- Isolation resistance: > 1 x 1013 ohms
- Frequency response (3 dB): 150 MHz
- Temperature range: -65°C to 150°C
- Characteristic impedance: 50 ohms
- Probe Tip separation: 50 Microns
- Tip material: Tungsten
- Body material: Gold plated
- Connector type: SSMC
- 5 µm radius probe tip

Compatibility

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

DCP-HTR — High Performance DC Probe Holder



Features

- High-quality construction with low-noise electrical performance
- Fully guarded measurements to fA and fF levels
- Great for modeling and characterization work
- Configurable for triax usage
- Full temperature range coverage
- Dual Precision SSMC 50 connection allow for Kelvin configuration to the probe body
- Individual connectors for force sense connections
- Replaceable microstrip probe tips (Not included)

Specifications

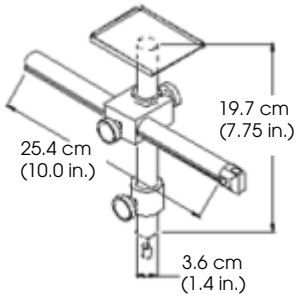
- Frequency range: dc - 100 MHz
- 500 V breakdown voltage, isolation resistance 1E13 ohms
- Temperature range -65 to +300°C
- Leakage noise:
- ± 10fA, -65 to +200°C± 20fA, 200 to 300°C
- Does not include replaceable tip

Compatibility

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

Optical Bridge Mounts and Transports

115-416 — Low Power Optics Boom Stand



Features

- Microscope boom stand for low power microscopes/optic
- Includes illuminator mounting tray
- Provides for a wide range of movement
- Enables movement of the microscope fully out of the probing area
- Fits Summit 11/12K systems
- Uses standard bonder arm mounts
- Not compatible with eVue, Mitutoyo, Seiwa, or A-Zoom microscopes

Compatibility

- Summit

131-923 — 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 chuck*

Kit Contents

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

Compatibility

- Summit 12K

131-924 — Motorized Theta Upgrade Kit for Summit 12K Stations (with 68 Pin Interconnect)

Features

- Kit supports automatic wafer alignment and productivity tools in probe station control software packages.
- Installation must be ordered with kit (p/n SRV-STATION-UP)

Specifications

- Travel ± 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 chuck

Kit Contents

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

Compatibility

- Summit 12K

158-073 — Large Area Optics Bridge Mount

Features

- Larger area 6-inch x 8-inch XY movement range
- Linear Z lift
- Manual lead screw driven XY movement
- Compatible with most common microscopes used on probing systems
- A microscope mounting plate matching the selected microscope and microscope transport is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.

Specifications

- 6-inch X axis movement range (± 3-inch from center of travel)
- 8-inch Y axis movement range (± 4-inch from center of travel)
- 3-inch linear manual Z lift

Compatibility

- Summit

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

Features

- High stability 2-inch x 2-inch XY microscope transport
- Easy coaxial manual XY drive controls
- Pneumatic vertical z-lift (4-inches of travel)
- Supports laser and very small structure work
- A microscope mounting plate matching the selected microscope and microscope transport is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.

Specifications

- 2-inch X axis movement range (± 1-inch from center of travel)
- 2-inch Y axis movement range (± 1-inch from center of travel)

Compatibility

- Summit

162-165— High Stability Optics Bridge Mount (Motorized 2x2)

Features

- Programmable high stability 2-inch x 2-inch XY microscope transport
- Pneumatic vertical z-lift (4-inches of travel)
- Motorized XY control with rotary encoders for precision positioning
- Knobs for manual control provided
- Supports laser and very small structure work
- ECA-53 drive card included
- An ECX-56 equipped system is required.
- Fine Z range/focus control is managed using the microscope focus mechanism. Select microscope models offer optional programmability for this feature.

Specifications

- 2-inch X axis movement range (± 1-inch from center of travel)
- 2-inch Y axis movement range (± 1-inch from center of travel)
- Encoder driven positioning provides resolution of 0.1 µm

Compatibility

- Summit 12K

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

105-626 — Triax Connection Panel, Side Mount

Features

- Optional triaxial connection panel for convenient cable management
- Designed to mount to the side of the Summit series platen
- 8 triaxial (3-lug) feed through connectors (female)
- Panel connections support single triax cables and Agilent dual triax SMU cable assemblies. For Agilent Quadrax SMU connections, please contact the factory.

Kit Contents

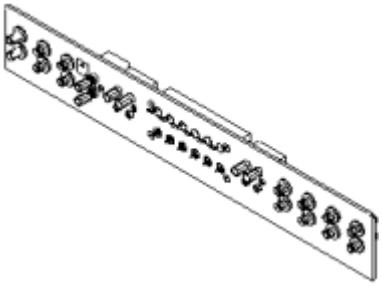
- Panel with triax feed-throughs mounted
- Mounting hardware
- Cables are not included.

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 Agilent dual triax SMU cable assemblies. Contact the factory for Agilent quadrax SMU connections.

Specifications

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

Compatibility

- Summit

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

Features

- Set of triaxial connection panels for convenient cable management
- Designed to mount to the high stability optical bridge mount
- Panel connections support single triax cables and Agilent dual triax SMU cable assemblies. Contact the factory for Agilent quadrax SMU connections.

Specifications

- 16 total triaxial (3-lug) feed through connectors (female), 8 on each side
- Ground straps for each panel

Compatibility

- S300

134-710 — Triax Connection Panel, High Stability Bridge Config, Summit

Features

- Set of triaxial connection panels for convenient cable management
- Designed to mount to the high stability optical bridge mount
- Panel connections support single triax cables and Agilent dual triax SMU cable assemblies. For Agilent quadrax SMU connections, please contact the factory.

Specifications

- 10 triaxial (3-lug) feed through connectors (female)
- 4 BNC connectors
- 2 banana connectors
- Ground strap on each side

Compatibility

- Summit

162-200— Vacuum Manifold Kit, High Stability Optics Bridge

Features

- One set of 5 port vacuum manifolds (10 total output ports) mounted on each side of the high stability microscope bridge
- Easy push on hose connection
- Easy push/pull, on and off flow toggle

Specifications

- 5 ports per manifold
- 2 manifolds
- Outputs supports 1/8-inch vacuum hose

Compatibility

- Summit, S300

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

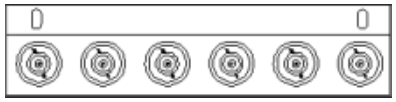
Features

- 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 1/2-inch OD quick connect style
- Scale resolution is 0.5 SCFM

Compatibility

- Summit

106-889 — Dust Cover for Summit Systems

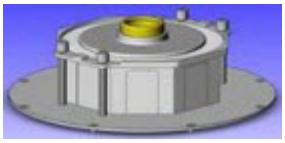
Features

- Semi-transparent vinyl dust cover for Summit 11/12K system
- Provides protection for periods when the system is not in use

Compatibility

- Summit

116-441 — Enhanced RF Shielded MicroChamber TopHat Kit



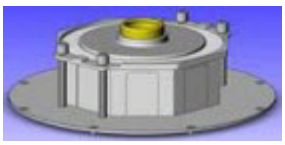
Features

- Provides for an additional 20db of RF shielding
- Upgrades older Summit systems to the current style and size of TopHat
- Enables compatibility with newer accessories and system options
- Provides for compatibility with Current Wave Guide and Unity-MW probes

Compatibility

- Summit, S300

116-511 — MicroChamber Large TopHat Upgrade Kit



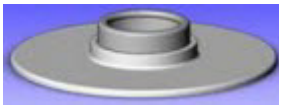
Features

- 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 Agilent E5288A Atto Sense Unit

Features

- Mounts Agilent 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 Agilent dual triax SMU cable assemblies. For Agilent Quadrax SMU connections, please contact the factory.

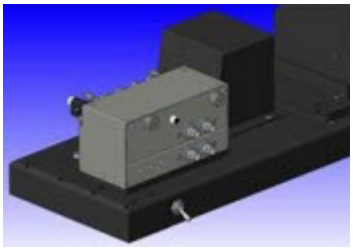
Specifications

- Mount for two Agilent B1500 Atto Sense units
- 4 triaxial (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 Agilent B1500 SCUU (SMU-CMU unify unit) in a thermally isolated position close to the probing environment
- Keeps cables lengths short for optimal performance
- For use on Summit 11/12k and S300 systems with high stability optics bridge

Kit Contents

- Mounting bracket
- Mounting hardware

Compatibility

- Summit, S300

165-210 — Xandex Inker, 12V, with Ink Cartridges and DPP2XX Positioner Mount

Features

- Inker kit for DPP2XX positioner
- Enables marking/binning of selected dies
- Controlled by Cascade Microtech's probe station control software or external software
- Solenoid controlled inker

Specifications

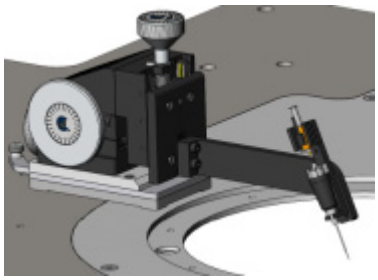
- 12 volt Xandex inker system

Kit Contents

- Cartridge, Xandex die mark ink, 1.25-inch needle
- Cartridge, Xandex die mark ink, S-bend needle

Compatibility

- Summit, S300



Microscope Mounting Plates

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

Features

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

Compatibility

- Summit, S300, Alessi, MTS

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

Agilent Configuration

Note: Male and Female connector ends as discussed in this section.

SHV (f) connector

SHV (m) connector

Agilent Accessories

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

Features

- Provides connection between Agilent B1505A module selector and HVP-3C probes.
- Adapts SHV to BNC connection
- Magnetic base mounts on platen

Specifications

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

Compatibility

- Tesla

148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)

Features

- Provides the connection between Agilent 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 (m), 2 BNC (f)

Compatibility

- Tesla

148-658 — Agilent HV Triax Cable, (m - m)

Features

- Provides triax HV connection between Agilent B1505A and Tesla probe station.

Specifications

- Maximum voltage (triax connection): 3000V DC
- Connector type: Agilent HV triax connectors (m -m)
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla

148-659 — BNC Cable, 61 cm (m - m)

Features

- Provides the connection between Agilent 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 connectors (m - m)
- Cable length: 61 cm (24-inch)

Compatibility

- Tesla

148-665 — HC BNC Cable, 61 cm (m - m)

Features

- Provides the high current, low-resistance connection between Agilent 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 connectors (m - m)
- Cable length: 61 cm (24-inch)

Compatibility

- Tesla

148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm

Features

- Provides the connection between Agilent B1505A HCSMU adapter and DCP-HTR probes.

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 1A
- Connector type: Mini triax (m), BNC (m)
- Cable length: 60 cm (23.5-inch)

Compatibility

- Tesla

148-669 — Agilent HV Triax (m) – SHV (m), 60 cm

Features

- Provides the HV triax to coaxial adaptation between Agilent B1505A and Tesla probe station.

Specifications

- Maximum voltage: 3000V DC
- Connector type: Agilent HV triax (m), SHV (m)
- Cable length: 60 cm (23.5-inch)
- Guard of Agilent HV triax connects to cable shield

Compatibility

- Tesla

148-670 — HC BNC Cable,1.5 m (m - m)

Features

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

Specifications

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

Compatibility

- Tesla

148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)

Features

- Provides the interconnections between the Agilent B1505A HCSMU adapter, GNDU protection adapter and HVP-3C probes.

Specifications

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

Compatibility

- Tesla

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

Features

- 100KΩ Agilent resistor box
- Provides connection between Agilent B1505A HVSMU and HVP-3C probes.

Specifications

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

Compatibility

- Tesla

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

Features

- 1KΩ Agilent resistor box.
- Provides connection between Agilent B1505A HPSMU protection adapter and DCP-HTR probes.

Specifications

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

Compatibility

- Tesla

149-398 — Resistor Box, HV, 1 KΩ – HV Triax (f), SHV (f)

Features

- 1KΩ Agilent resistor box.
- Provides connection between Agilent B1505A HPSMU protection adapter box and HVP-3C probes.

Specifications

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

Compatibility

- Tesla

149-445 — Test Head Plate Assembly

Features

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

Specifications

- Dimensions: width 21.59 cm (8.5-inch) x depth 21.28 cm (8.38-inch) x 2.54 cm (1.0-inch)

Compatibility

- Tesla

149-947 — SHV (m) to BNC (m) Cable, 60 cm

Features

- Provides SHV to BNC connection

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW≤1ms, Duty ratio ≤1%)
- Connector type: BNC (m), SHV (m)
- Cable length: 60 cm (23.5-inch)

Compatibility

- Tesla

149-958 — Agilent HV Triax (m) to Std Triax Cable (m),1.5 m

Features

- Provides the HV triax to standard triax connection for Agilent B1505A.

Specifications

- Maximum voltage: 500V DC
- Connector type: Agilent HV triax (m), Standard (m)
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla

149-976 — High Voltage Chuck Floating Plug

Product Features

- Provides the floating chuck connection for the Tesla high-power chuck
- Safety interlock connection

Specifications

- Dual triax connection
- Maximum voltage: 10,000V

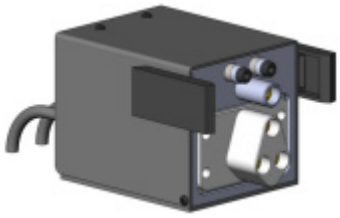
Station Compatibility

- Tesla

Ordering Information

- Chuck Guard terminal connects to Chuck Shield terminal.

149-977 — High Voltage Chuck Shorting Plug



Product Features

- Provides the shorting chuck connection for the Tesla high-power chuck
- Safety interlock connection

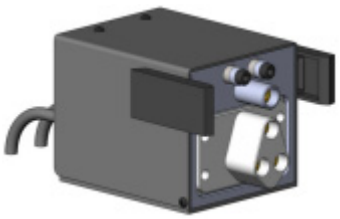
Specifications

- Dual triax connection
- Maximum current (DC): 10A
- Maximum current (Pulse): 100A, (PW<=1ms, Duty ratio <=1%)

Station Compatibility

- Tesla

149-978 — Chuck Cable, High Voltage Chuck to Agilent High Voltage Connector (m), 1.5 m



Product Features

- Provides dual triax connection between the high voltage Tesla chuck and Agilent B1505A HVSMU
- Low-leakage
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech high voltage chuck connector, Agilent high voltage connector (m)
- Cable length: 1.5 m (4.92-feet)

Station Compatibility

- Tesla

149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech high voltage chuck connector, SHV connector (f)
- Cable length: 1.5 m (4.92-feet)

Station Compatibility

- Tesla

151-196 — SHV (f) to SHV (f) Adapter

Features

- Adapts SHV to SHV connection

Specifications

- Maximum voltage: 5000V
- Connector type: SHV (f) to SHV (f)

Compatibility

- Tesla

151-207 — SHV (m) to SHV (m) Cable, 60 cm

Features

- Provides the high voltage SHV to SHV coaxial connection for Agilent B1505A and Tesla probe station.

Specifications

- Maximum voltage: 5000V DC
- Connector type: SHV (m)
- Cable length: 60 cm (23.5-inch)

Compatibility

- Tesla

151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech high voltage chuck connector, BNC connector (m)
- Cable length: 1.5 m (4.92-feet)

Station Compatibility

- Tesla

151-280 — HV Bulkhead Interconnect Panel

Features

- Two Agilent HV triax connectors
- Two BNC connectors
- Two SHV connectors
- Two standard triax connectors
- Includes grounding strap

Specifications

- Max Voltage:
  - Agilent HV triax: 3000V
  - BNC: 500V
  - SHV: 5000V
  - Standard triax: 500V
- Connector type:
  - Agilent HV triax (f)
  - BNC (f)
  - SHV (f)
  - Standard triax (f)

Compatibility

- Tesla

151-466 — Tesla Bridge Mounting Kit for Agilent B1505A

Features

- Tesla high-power bridge mounting kit for use with Agilent 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

151-465 — Tesla Probes and Interconnect Accessory Kit for Agilent B1505A

Features

- Tesla high-power probing kit for use with Agilent 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-3C-E — HV, Coaxial Probe with SHV Connection	3
HVP-3T — HV, Triax Probe with Agilent HV Triax Connection	2
HCP-BNC-3-350 — HC Probe Holder with BNC Connection, 3-Finger, 350 µm Tip	2
DPP210-M positioner	5
RPP305 positioners	2
Interlock cable	1
Test head mounting brackets, small	4
Test head mounting brackets, large	1
Test head mounting plates	2
Agilent HV triax bulkhead assembly	2
Triax to BNC adapter	1
148-651 — HV Adapter Box, 2 SHV (f) to 2 BNC (f)	1
148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)	4
148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)	2
148-658 — Agilent HV Triax Cable, (m - m)	3
148-659 — BNC Cable, 61 cm (m - m)	2
148-665 — HC BNC Cable, 61 cm (m - m)	2
148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm	2
148-669 — Agilent HV Triax (m) – SHV (m), 60 cm	1
148-670 — HC BNC Cable,1.5 m (m - m)	2
149-947 — SHV (m) to BNC (m) Cable, 60 cm	2
149-958 — Agilent HV Triax (m) to Std Triax Cable (m),1.5 m	2
151-207 — SHV (m) to SHV (m) Cable, 60 cm	2
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m	1
151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m	1

Compatibility

- Tesla

Ordering Information

- When ordering as standalone, a 149-401 cable kit is required.

151-467 — Tesla Interconnect Kit for Agilent B1505A (Excluding Probes and Positioners)

Features

- Tesla high-power probeless kit for use with Agilent 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
Agilent HV triax bulkhead assembly	2
Triax to BNC adapter	1
148-651 — HV Adapter Box, 2 SHV (f) to 2 BNC (f)	1
148-657 — BNC Tee, 1 BNC (m) to 2 BNC (f)	4
148-724 — SHV to 4-BNC Adapter Box 1 SHV (f), 1 BNC (m), 3 BNC (f)	2
148-658 — Agilent HV Triax Cable, (m - m)	3
148-659 — BNC Cable, 61 cm (m - m)	2
148-665 — HC BNC Cable, 61 cm (m - m)	2
148-668 — Mini Triax (m) to BNC (m) Cable, 60 cm	2
148-669 — Agilent HV Triax (m) – SHV (m), 60 cm	1
148-670 — HC BNC Cable,1.5 m (m - m)	2
149-947 — SHV (m) to BNC (m) Cable, 60 cm	2
149-958 — Agilent HV Triax (m) to Std Triax Cable (m),1.5 m	2
151-207 — SHV (m) to SHV (m) Cable, 60 cm	2
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m	1
151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m	1

Compatibility

- Tesla

Ordering Information

- When ordering as standalone, a 149-401 cable kit is required.

153-180 Chuck Cable, HV Chuck to Agilent HV Connector (m) for 40A High Current Test, 1.5m

Features

- Provides dual triax connection between the HV Tesla chuck and Agilent 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: Cascade Microtech HV chuck connector, Agilent HV connector (m)
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla

153-190 BNC to Agilent HV Triax Adapter

Features

- Provides connection between Agilent 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: Agilent HV triax (m), BNC (f)

Compatibility

- Tesla

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 (Agilent, Keithley)
  - Standard triax connectors

Specifications

- Maximum voltage: 1100V (triax)
- Maximum current (DC): 5A
- Cable length: 1m (3.3-feet)
- Cable characteristics:
  - Withstand voltage: 1,100V (F-G), (G-S)
  - Isolation resistance: 1TΩ @ 1,100V (F-G), 100GΩ @ 1,100V (G-S)
- Terminating connector types:
  - Amphenol triax threaded, 11/16-24 (m)
  - Standard triax (HV version) (m)

Compatibility

- Tesla

151-469 — Tesla Interconnect Kit for Keithley Instruments (Excluding Probes and Positioners)

Features

- Tesla high-power probeless kit for use with Keithley instruments.
- The kit includes brackets, cables and adapters to connect Keithley instruments for typical measurement setup.

Kit Contents

151-472 — Safety interlock Cable, 3 m	1
162-085 — HV Triax Connector Cable, Interface Panel to HV Coax	1
144-527 — HV Triax Connector Cable, Interface Panel to Keithley 237/238	3
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
High Power Chuck Connection Cables	1
149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m	1
151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m	1

151-468 — Tesla Probes and Interconnect Kit for Keithley instruments

Features

- Tesla high-power probing kit for use with Keithley instruments.
- The kit includes the HVP and HCP probes, positioners, necessary brackets, cables and adapters to connect the Keithley instruments for typical measurement setup.

Kit Contents

RPP305 Positioners	2
DPP210-M Positioners	3
HCP-1-B — HC Probe Holder with Banana Jack Connections (no HCP tip)	2
HCP-TIP-3-350 — HC Replaceable Probe Tips, 5-pack	1
HVP-13 — HV Triax Probe with CMI HV Triax Connection	3
PTT Needle,12u	1 box
151-472 — Safety interlock Cable, 3 m	1
162-085 — HV Triax Connector Cable, Interface Panel to HV Coax	1
144-527 — HV Triax Connector Cable, Interface Panel to Keithley 237/238	3
149-976 — High Voltage Chuck Floating Plug	1
149-977 — High Voltage Chuck Shorting Plug	1
High Power Chuck Connection Cables	1
149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m	1
151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m	1

Compatibility

- Tesla

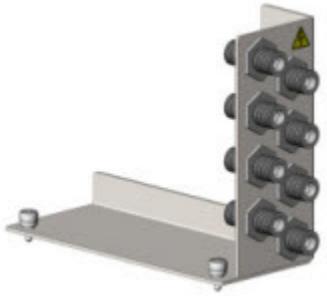
Compatibility

- Tesla

151-470 — HV Triax Interface Panel

Features

- Eight HV triax connections:
  - Four force
  - Four sense
- Includes grounding strap



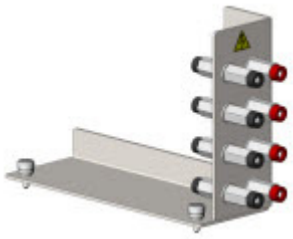
Specifications

- Max Voltage: 3000V (coax)/ 1500V (triax)
- Connector type: Amphenol triax threaded 11/16-24 (f)

Compatibility

- Tesla

151-471 — HC Banana & STD Triax Interface Panel



Features

- Four pairs standard red and black banana jacks
  - Four force
  - Four ground
- Includes grounding strap

Specifications

- Maximum current (Pulse): 100A, (PW≤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-feet)

Compatibility

- Tesla

162-085 — HV Triax Connector Cable, Interface Panel to HV Coax

Features

- Provides connection between HV triax interface panel and coaxial instruments

Specifications

- Maximum voltage: 3,000V (coax guard-shield connected), 1500V (triax)
- Maximum current (DC): 5A
- Cable length: 3m (9.8-feet)
- Cable characteristics
  - Impedance F-S: 40Ω
  - Withstand voltage F-S: 3,000V
  - Insulation resistance F-S: > 1T ohm @3000V
- Terminating connector types
  - Amphenol triax threaded, 11/16-24 (m)
  - SHV coaxial (m)
- Guard of HV triax connects cable shield

Compatibility

- Tesla

Common Probes

149-976 — High Voltage Chuck Floating Plug

Product Features

- Provides the floating chuck connection for the Tesla high-power chuck
- Safety interlock connection

Specifications

- Dual triax connection
- Maximum voltage: 10,000V

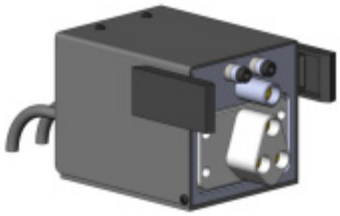
Station Compatibility

- Tesla

Ordering Information

- Chuck Guard terminal connects to Chuck Shield terminal.

149-977 — High Voltage Chuck Shorting Plug



Product Features

- Provides the shorting chuck connection for the Tesla high-power chuck
- Safety interlock connection

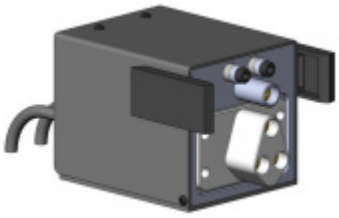
Specifications

- Dual triax connection
- Maximum current (DC): 10A
- Maximum current (Pulse): 100A, (PW<=1ms, Duty ratio <=1%)

Station Compatibility

- Tesla

149-978 — Chuck Cable, High Voltage Chuck to Agilent High Voltage Connector (m), 1.5 m



Product Features

- Provides dual triax connection between the high voltage Tesla chuck and Agilent B1505A HVSMU
- Low-leakage
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 3000V DC
- Connector type: Cascade Microtech high voltage chuck connector, Agilent high voltage connector (m)
- Cable length: 1.5 m (4.92-feet)

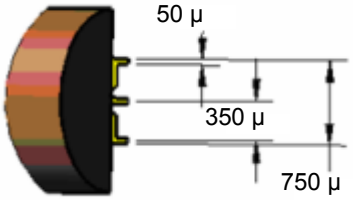
Station Compatibility

- Tesla

HCP-TIP-3-350 — HC Replaceable Probe Tips, 5-pack

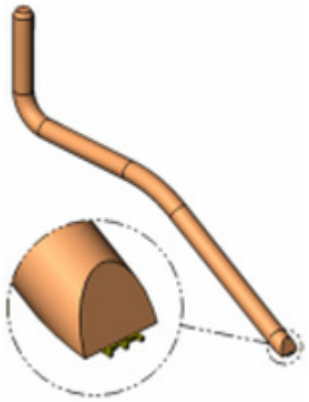
Features

- Includes five tips for use with the HCP-1-B, high current parametric coax
- Patented tip design provides low contact resistance and superior current dissipation



Specifications

- Maximum voltage: 500V DC
- Maximum current: 100A (PW≤1ms, Duty ratio ≤1%)
- Tip material: Tungsten
- Number of tips: 3
- Tip pitch: 350 µm
- Total footprint: 750 µm
- Typical contact resistance on Al: 20mΩ
- Recommended range of overtravel: 150 µm to 200 µm
- Contact force: 20 gms per tip (60 grams total) @ 100 µm overtravel
- Scrub: 60 µm to 80 µm

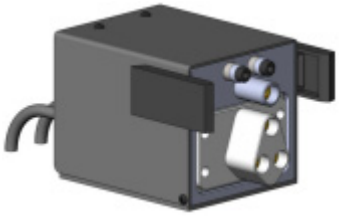


Compatibility

- Tesla

High Power Chuck Connection Cables

149-979 — HV Tesla Chuck Cable, HV Chuck Connector-Std Triax (m) Connector, 1.5m



Features

- Provides connection between the HV Tesla chuck and test instruments
- Low resistance, HV, HC cable

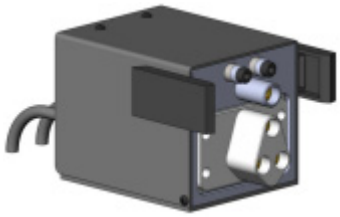
Specifications

- Maximum voltage: 500V DC
- Maximum current: 5A (pulse)
- Connector type: Cascade Microtech HV chuck connector, standard triax (m)
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla

149-980 — Tesla Chuck Cable, HV Chuck to Banana Plug Connector, 1.5 m



Features

- Provides connection between the HV Tesla chuck and test instruments
- Low resistance, HV, HC cable

Specifications

- Maximum voltage: 10000V DC
- Maximum current: 100A (pulse)
- Connector type: Cascade Microtech HV chuck connector, banana jack
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla

149-981 — Chuck Cable, High Voltage Chuck to SHV Connector (f), 1.5 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

Specifications

- Maximum voltage: 5000V DC
- Connector type: Cascade Microtech high voltage chuck connector, SHV connector (f)
- Cable length: 1.5 m (4.92-feet)

Station Compatibility

- Tesla

151-256 — Chuck Cable, High Voltage Chuck Connector to BNC Connector (m), 1.5 m

Product Features

- Provides force and sense connection between the high voltage Tesla chuck and Agilent B1505A
- Low resistance, high voltage, high-curent cable

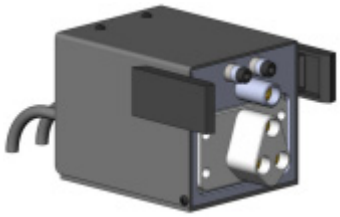
Specifications

- Maximum voltage: 500V DC
- Maximum current (DC): 5A
- Maximum current (Pulse): 40A, (PW<=1ms, Duty ratio <=1%)
- Connector type: Cascade Microtech high voltage chuck connector, BNC connector (m)
- Cable length: 1.5 m (4.92-feet)

Station Compatibility

- Tesla

151-257 — HV Tesla Chuck Cable, HV Chuck Connector-CMI HV (m) Connector End, 1.5m



Features

- Provides connection between the HV Tesla chuck and CMI HV Amphenol feed-thru panel
- Low leakage, low-resistance, HV, HC cable

Specifications

- Maximum voltage: 3000V (coax), 1500V (triax)
- Connector type: Cascade Microtech HV chuck connector, CMI HV Amphenol (m)
- Cable length: 1.5 m (5-feet)

Compatibility

- Tesla