MPI TS600–PCB | Manual Probe System for PCB Testing

For accurate and reliable RF and mmW measurements on PCB boards

Microscope Mount and Movements
- Stable bridge for high quality optics
- 600 x 550 mm fast movement range, to be combined with 50 x 50 mm XY manual movements
- 150 mm Z adjustment in 7x 25mm steps combined with 32 mm manual focus drive (coarse/fine)

Optics
- SZ12 with large 95 mm WD and optical resolving power of 2.5 µm
- Combined with CAM-4000P for detailed observation
- Ideal for testing on small RF pads

Probe Gantries
- Stable and rigid design
- Supports DC/CV and RF measurements
- 3 gantries in E/W/N position
- Designed for 550 x 500 mm XY probing area
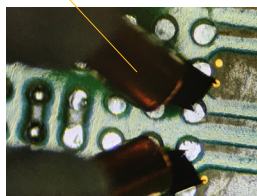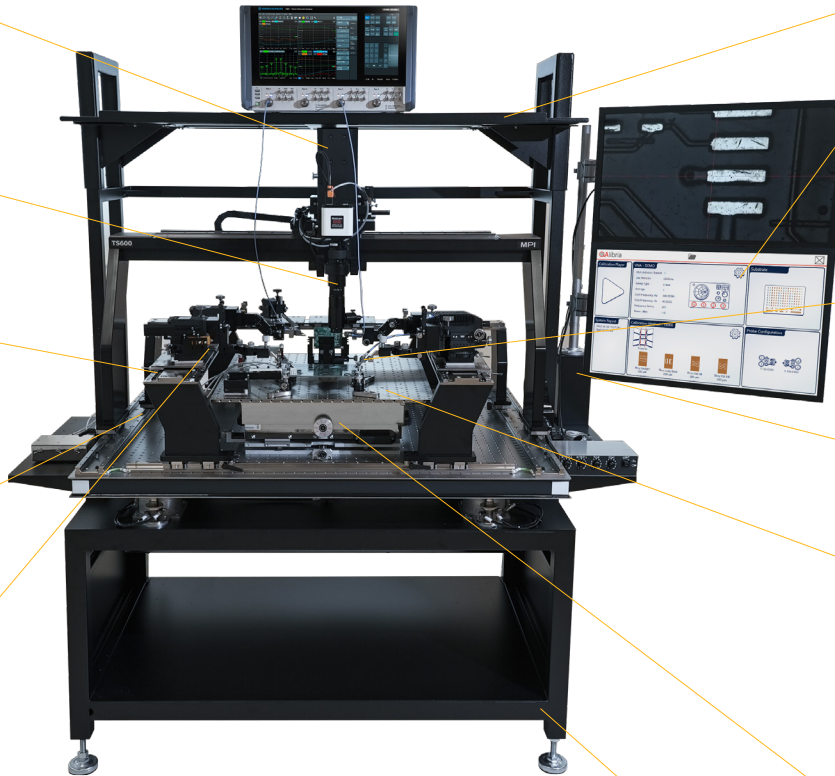
Probe Platen Slider Set
- Rail-guided MicroPositioner mounting
- Instrumentation extenders mounted closest to the RF probe

Highly flexible RF MicroPositioner
- Dedicated PCB version of MP60 for unrivalled stability and flexibility
- Integrated yaw base
- Probe arm with two horizontal +/- 90° pivots and large vertical dovetail mount

TITAN™ Probes
- Robust Ni-alloy tip material for probing on hard and rough pads
- Short forward skate for probing on small solder bumps and HDI traces
- Unique probe tip visibility for consistent contact and repeatable calibration and measurements
- Flexible tips for probing on uneven surfaces
- Deep and extra-deep access for test on populated boards
- Varoius configurations, incl. dual probes w. adjustable channel-to-channel pitch

Instrument Shelf
- Test instrument(s) located above the station
- Shortest connection to RF probes, ≥ 800 mm

QAlibria®
- Metrology-grade multiline TRL calibration by integration with NIST StatistiCal
- TMR/TMRR calibration methods with on-board standards
- Simple, intuitive, multitouch operator interface
- Open data base for probes and custom calibration standards

RF Calibration
- QAlibria® as unique calibartion software
- Optional 3 auxiliary chucks for calibration substrates
- Built-in ceramic for accurate calibration
- 1 µm flatness for consistent contact quality

Optional Mounts
- For 1x or 2x monitors, standard or large size
- Keyboard tray
- Laptop tray

PCB-Holders
- Various holders for horizontal and vertical PCB mounting
- Free mounting on large breadbord top plate on stage
  - For horizontal PCB's up to 550 x 500 mm
  - For vertical PCB's from 10 x 10 mm up to 100 mm
- Optional holder for 3 AUX sites, to mount on breadboard or on MAG base for horizontal and vertical mount
  - 45° mirrors for easy probe positioning on vertical PCB

XYZ Stage Movement
- Universal breadboard top plate for highest flexibility
- 100 x 100 mm XY total stage movement
- 50 mm Z movement
- Can be easily removed to adopt for testing large vertical boards

Vibration Isolation Table
- Standard or TMC type on request
- Active vibration dampening and auto-levelling function

Available Options
- Vibration isolation table
- Various MicroPositioners