MPI TS200-THZ | 200 mm Manual Probe System

Industry's first explicitly designed probe system for accurate mmW, THz and Load-Pull measurements

Microscope and Optics
- Single tube MPI SZ12, MZ12
- Up to 12x zoom and 90 mm working distance
- Down to 1.68 µm resolution
- HDMI cameras, monitor user interface without computer

Microscope Mount and Movement
- Stable bridge for high quality optics
- 50 x 50 mm or 80 x 80 linear XY movement
- 90° tilt for easy reconfiguration

Probe Platen
- 4-Port Bridge for DC biasing or 4-port RF
- Designed especially to accommodate large positioners for mmW and THz applications
- Rectangular adjustments for RF positioners

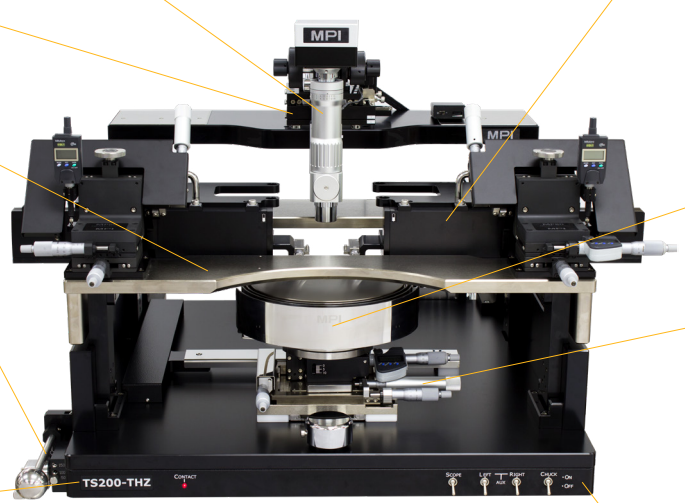
Unique Platen Lift
- Three discrete positions for contact, separation (300 µm) and safety loading 3 mm
- Safety lock function in the upper position
- "Auto Contact" position with 1 µm repeatability
- Additional stop at 50, 100 or 150 µm alignment height

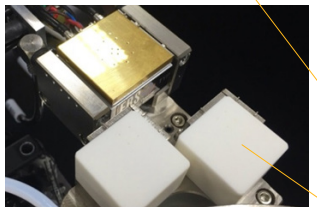
Small Footprint
- Designed for bench top use
- Vibration damping base included
- Low profile design for maximum usability
- Ideal for mmW, THz and load pull applications

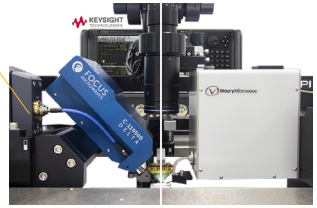
MicroPositioners
- Unique over-travel control option
- MP80-DX option for accurate multi-line TRL calibration
- Supports two bolt down large area MP80 MicroPositioners

Automated Impedance Tuner Integrations
- To achieve optimum tuning range & highest gamma

Further Options
- Vibration Insolation Table
- Monitor stands
- Instrument shelf







Frequency Extender Integration Modules
- Dovetail interface for for easy setup and switching between different frequency bands
- Integration close to the DUT for broadband applications with direct mount of the WG probes, no S-bend is required
- No chuck elevation required to provide maximum mmW measurement stability
- Options for waveguide and coax application
- Universal large area platforms for integrating various frequency extenders up to 1.1 THz
- Micrometer screws for fine leveling of the waveguide probe on the platforms

Modular Chucks
- Dedicated RF or mmW designs
- Field upgradable for reduced cost of ownership
- Easy switch between center and small wafer size control

Chuck XYZ Stage Movement
- Fine chuck Chuck XY stage with total travel range of 255 x 325 mm for easy loading
- Unique puck controlled air bearing stage movement with 25 x 25 mm of XY travel and < 1.0 µm resolution
- Chuck theta rotation of 360° with +/-5° fine micrometer travel
- Chuck Z movement of 10 mm with fine travel resolution of 1.0 µm including digital indicator for accurate overtravel setting
- Safe contact feature locking the XY Air-bearing stage while in contact
- Independent locking option of the X or Y axis
- Large vacuum base for maximum stability

Front Mounted Vacuum Control
- Easy access
- Clearly marked

RF Calibration
- 2 auxiliary chucks for calibration substrates
- Built-in ceramic for accurate calibration
- 1 µm flatness for consistent contact quality
- QAlibria® - MPI RF Calibration Software

ThermoShield™
- Full size 200 mm with ThermoShield™
- 25mm thermal chuck for testing single ICs