

MPI TS150-THZ | 150 mm Manual Probe System

Industry's first explicitly designed probe system for accurate mmW and THz measurements

Microscope Mount and Movement

- Stable bridge for high quality optics
- 90° tilt for easy reconfiguration
- 50 x 50 mm linear XY movement

4-Port Bridge

- Two: in North and South
- Rectangular adjustments for RF positioners
- Designed as standard feature for DC biasing or 4-port RF
- For single DC or RF MicroPositioners

MicroPositioners

- Unique over-travel control option
- MP80-DX option for accurate multi-line TRL calibration
- Supports max. 2 bold down large area MP80 MicroPositioners

Probe Platen

- Single large probe platen in rigid design
- 4 probe platen supports for max. stability
- Designed especially to accommodate large positioners for mmW and THz applications

Unique Platen Lift

- Three discrete positions for contact, separation (300 μ m) and safety loading 3 mm
- Safety lock function at loading position
- "Auto Contact" position with ± 1 μ m repeatability for consistent contact quality

Small Footprint

- Designed for bench top use
- Comes with vibration absorber base
- Low profile design for maximum usability
- Ideal for mmW, THz and load pull applications

Front Mounted Vacuum Control

- Easy access
- Clearly marked

Microscope and Optics Options

- Various optics options available
- Single tube MPI SZ10, MZ12 with up to 12x zoom and 95 mm working distance
- HDMI cameras, monitor user interface without computer

Modular Chucks

- Non-thermal or hot only chucks
- Dedicated RF or mmW designs
- Field upgradable for reduced cost of ownership
- Easy switch between center and small wafer size control

RF Calibration

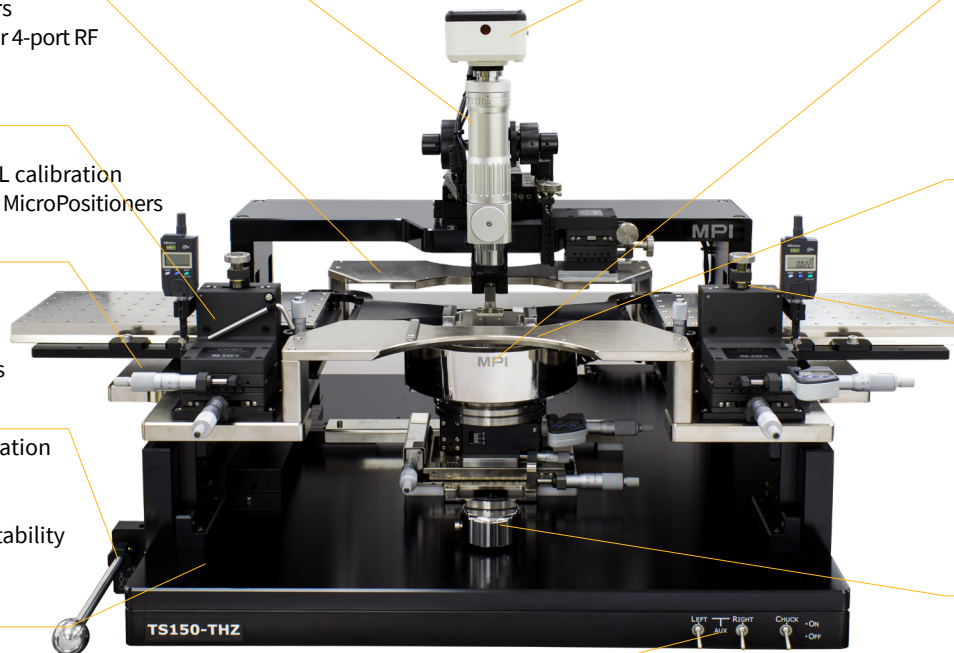
- 2 auxiliary chucks for calibration substrates
- Built-in ceramic for accurate calibration
- 1 μ m flatness for consistent contact quality

MP80 Integration Modules

- 2 options for waveguide or coax application
- Universal large area platforms for integrating various frequency extenders up to 1.1 THz
- Micrometer screws for fine waveguide probe leveling on the platforms
- Dove-tail interface for dedicated adaptations for easy setup and switching between different frequency bands

Chuck XYZ Stage Movement

- Unique puck controlled air bearing stage for quick single-handed operation
- Large vacuum base for max. stability
- 180 x 300 mm XY total stage movement
- Resolution < 1.0 μ m (0.04 mils) @ 500 μ m/rev
- 25 x 25 mm micrometer fine XY adjustment
- 10 mm fine Z, resolution < 1.0 μ m (0.04 mils) @ 500 μ m/rev, with digital indicator
- $\pm 5^\circ$ Theta fine adjustment
- Extra wide Y-range for easy loading



Available Options

- Various adaptations for different frequency extenders
- Vibration isolation table
- Table with integrated rack for thermal controller, computer and keyboard push tray
 - Dual monitor stand option
 - Instrument shelf option