

# MPI TS3500-SE | 300 mm Automated Probe System with ShieldEnvironment™

The Dedicated Solution for ultra-low noise IV, CV, pulsed-IV, 1/f and RF and with WaferWallet® Option – Ready for Fully-Automated Measurements

## Optional Instrument Shelves for up to 4 x 8U Instruments

- One instrument shelf direct behind the systems reduces the length of RF cables providing the highest measurement dynamic range and improve system directivity
- Second floor on top of it
- Dual instrument shelf on top of the WaferWallet® for DC parameter analyzer, switch matrix or oscilloscopes

## Microscope Bridge and Optics

- Stable microscope bridge mount for easy access of instruments
- 50 x 50 x 140 mm programmable movement
- MPI IMAG® series - the digital microscopes w/ fast autofocus

## MicroPositioners and Probe Cards

- Supports up to 4 RF and 8 DC manual or programable MicroPositioners
- Wide range of MicroPositioners available, including programmable and large area for mmW applications
- Dedicated Coax, Triax and Kelvin probe arms
- 4.5" probe card holder: standard or dedicated for long term measurements

## Probe Platen

- Stable and rigid design
- Rectangular adjustments for RF positioners
- Integrated air-cooling for maximum thermal stability

## ShieldEnvironment™

- Advanced EMI / RFI / Light-tight shielding for the best in class 1/f noise test results
- fA low-leakage capabilities

## MPI WaferWallet® Options

- Supporting 150, 200, or 300 mm wafer sizes
- Hot and cold wafer swapping at any temperature
- Integrated instrument shelf for one instrument
- Options: automated pre-aligner and wafer ID-reader
- Field upgradable

## \*\*\*Available Options\*\*\*

- VCE™ - Vertical Control Environment™ provides side view camera for automated contact detection by SENTIO®
- WaferWallet® family supports FOUP/FOSB cassettes, load port for FOUP cassettes and loading via OHT systems
- Ice Free Cap for measurements at negative temperatures



## Software Suite SENTIO® (Windows 11)

- Revolutionary multi-touch, single window GUI for easy and intuitive system operation
- Integrated workflow w/ MPI RF calibration software QAlibria® provides unparalleled user experience
- Hundreds of remote commands

## RF Calibration with QAlibria®

- Two ceramic auxiliary chucks for RF calibration substrates
- 2 or 4-port RF measurements with positioner arrangements in N/S/E/W or N/S or E/W setups

## Integrated Hardware Control Panel w/ Joystick

- Faster, safer & more convenient system operation & control
- Keyboard and the mouse are at the system control panel for a single-point operation with the system and controlling test instrumentation

## AirCool® PRIME Thermal Chuck

- QuickConnect - sharing a chiller between multiple systems
- Designed by MPI and ERS for faster transitions and reduced soaking time
- Various chuck types with temperature range -60°C to 300°C available - field upgradeable
- Convenient location of the control panel for fast and easy interaction with the system
- Significant savings via recycling of chuck air for purge application

## Integrated Vibration Isolation Table

- Reduced footprint by smart integration of the chiller space

## mDrive™ Option

- Provides a truly intuitive, manual operation of all existing programmable stages, such as chuck, scope or MicroPositioners
- X- and Y-axis fine control for the selected stage
- Z safety function requires additional enabling