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

Microscope and Optics Options

- Stable microscope bridge mount with 50 x 50 x 140 mm programmable movement
- Various optics options available such as MPI AMZ12 w. up to 12x optical zoom or MPI iMAG® - the digital microscope

MicroPositioners

- Supports up to 4 RF and 8 DC 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

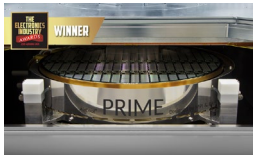
- Stable and rigid design
- Rectangular adjustments for RF positioners
- Integrated air-cooling for maximum thermal stability

ShielDEnvironment™

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

MPI WaferWallet™ Option

- Designed with five wafer loading trays
- Supporting 150, 200, or 300 mm wafer sizes
- Hot and cold wafer swapping at any temperature
- Four color, LED steady/flashing signal light tower
- Options: automated pre-aligner and wafer ID-reader



ERS and MPI’s joint product AirCool® PRIME Chuck won “Electronics Industry Awards 2018” in the category, “Test, Measurement and Inspection Product of the year”.

Available Options

- Optional instrument shelf reduces the length of RF cables providing the highest measurement dynamic range and improve system directivity.

Software Suite SENTIO®

- Revolutionary multi-touch, single window GUI for easy and intuitive system operation
- Scroll, zoom, move commands mimic modern smart mobile devices making everyone the operation expert just in minutes
- Switching between applications is just a matter of a finger swipe
- Integrated workflow with MPI RF calibration software QAlibria® provides unparalleled user experience
- GPIB, TCP/IP interface for remote control

RF Calibration

- Integrated two auxiliary chucks for RF calibration substrates
- Built-in ceramic for accurate calibration up to THz frequencies
- 1 µm flatness for consistent contact across the wafer

Integrated Hardware Control Panel

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

Integrated Vibration Isolation Table

- Incorporates a high performance vibration isolation platform
- Optimal working height for ergonomic daily operation

AirCool® PRIME Thermal Chuck

- Designed by MPI and ERS for faster transitions and reduced soaking time
- Wide temperature range -60°C to 300°C with unique configuration capabilities
- Convenient location of the control panel for fast and easy interaction with the system
- Reduced footprint by smart integration of the chiller space
- Significant savings via recycling of chuck air for purge application