MPI IMPACTTM Test Solutions | ITS150-RF

150 mm Manual Probe System for accurate and reliable RF measurements

Microscope Mount and Movement

- Stable bridge for high quality optics
- 90° tilt for easy reconfiguration
- 25x25mmairbearingor50x50mmlinearXYmovement

Adjustable Platen Height

- Micrometer control for precise adjustment
- 20 mm range for various applications

Probe Platen

- · Stable and rigid design
- Supports DC/CV and RF measurements
- Rectangular adjustments for RF positioners
- · Designed for maximum thermal stability

RF Calibration

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

Unique Platen Lift

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

Ultra Small Footprint

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



Available Options

 \$Z12U-ITS150
 SUPERZOOM 12X / UPGRADE ITS150

 50X50MU-ITS150
 50x50MM LINEAR MICROSCOPE MOVEMENT / UPGRADE ITS150

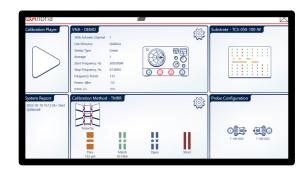
 4PORTU-ITS150
 4 RF PORT MP40 / UPGRADE ITS150

 40GHZ-ITS
 40GHZ UPGRADE IMPACT-RF26GHZ

 50GHZ-ITS
 50GHZ UPGRADE IMPACT-RF26GHZ

67GHZ-ITS 50GHZ UPGRADE IMPACT-RF26GHZ 67GHZ-ITS 67GHZ UPGRADE IMPACT-RF26GHZ FACILITY-ITS FACILITY UPGRADE IMPACT / 110 - 230V

TC-150EU-ITS-RF 150MM THERMAL CHUCK SYSTEM COAX / 150C / ITS150-RF UPGR.



QAlibria® - RF Calibration Software

- Multi-touch
- Multi-language
- Multiline TRL

Microscope and Optics Options

- Stereo MPI ST45
- Various optics options available
- Optional HDMI cameras, monitor user interface without computer

MicroPositioners

- Includes two MP40 RF positioners
- Supports up to 4 RF and 10 DC positioners
- Wide range of positioners available
- Dedicated probe arms for for coaxial, triaxial, Kelvin and RF measurements

Modular Chucks

- Dedicated RF non-thermal chuck
- Wide range of optional thermal chucks up to 300 °C
- Field upgradeable for reduced cost of ownership
- Easy switch between center and small wafer size control

Chuck XY-Theta Stage Movement

- Unique puck controlled air bearing stage for quick single-handed operation
- 180 x 230 mm XY total stage movement
- Including 25 x 25 mm fine micrometer control
- Resolution < 1.0 μm (0.04 mils) @ 500 μm/rev
- Extra wide Y-range for easy loading
- ±5° Theta fine adjustment

Front Mounted Vacuum Control

Easy access Clearly marked

The complete test package includes:

TS150 Manual Test System with puck controlled air-bearing stage

- 180 mm x 230 mm (7.1 x 9.1 in) XY total stage movement
- 25 x 25 mm micrometer fine stage movement
- +/- 5 degree fine chuck Theta rotation
- Platen lift with discrete contact, separation (300 μm) and loading (3 mm) positions for ease of use, safety lock function at loading position Dedicated 25 mm fine platen height adjustment
- Stable microscope bridge mount
- · Vibration absorbing base

150 mm RF coaxial chuck, non-thermal

- Nickel plated chuck top with vacuum holes
- Auxiliary chuck made in ceramic for placement of calibration substrate and accurate RF calibration
- Coax (female) chuck connection

Air-Bearing Microscope Movement / 25x25 mm

- Precision 25 mm x 25 mm X-Y microscope transport
- Very easy to operate, vacuum fixation with convenient On-Off switch
- 90 degree tilt for easy and safety probe replacement or reconfiguration
- 50mm focus block

ST45 Stereo Microscope with 6.7:1 zoom ratio

- Set of 25x eyepieces for optimal magnification
- · Working distance 100 mm, C-mount adapter
- 72 LED ring illumination, four-zone selectable, external remote control
- 100-240V AC, CE

2x MP40 DC & RF MicroPosionters for backlash-free probe positioning

- 13 mm travel range in XYZ, 500 µm screw resolution
- Strong magnet base

2x Probe Arm RF East & West / MP40 with universal probe mount

- Accurate RF probe planarity by using fine micrometer screw
- · Planarity adjustment is located in front for convenient operation, especially when RF cables are installed
- · Unique fast and tool-less vertical height adjustments with build-in mm-scale is ideal by working with different RF probe technologies
- RF cable guide, compatible with MP40 MicroPositioner

QAlibria® Software RF Tool Set Accessories, cleaning pad, wafer tweezers, L-key set







