

# MPI IMPACT™ 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
- 25x25 mm air bearing or 50x50 mm linear XY movement

### 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\*\*\*

SZ12U-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	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 MicroPositioners 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**

