

# MPI IMPACT™ Test Solutions | ITS150-TRIAX

## 150 mm Manual Probe System for accurate and reliable DC/CV measurements

### Microscope Mount and Movement

- Stable bridge for high quality optics
- 90° tilt for easy reconfiguration
- 25 x 25 mm air bearing or optional 50 x 50 mm linear XY movement

### Adjustable Platen Height

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

### Probe Platen

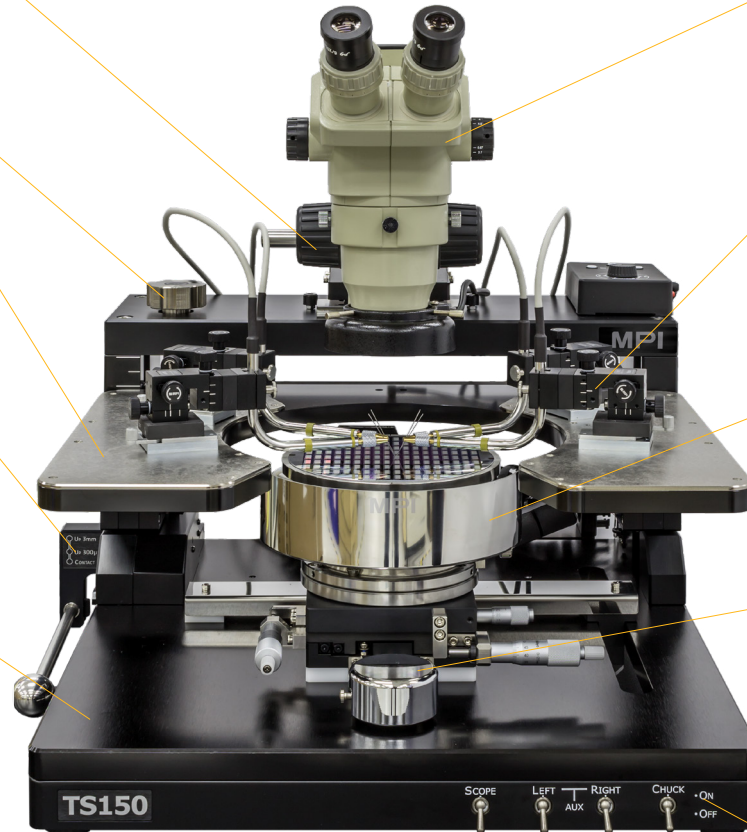
- Stable and rigid design
- Supports DC/CV and RF measurements
- Rectangular adjustments for RF positioners
- Designed for maximum thermal stability

### 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



### Microscope and Optics Options

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

### MicroPositioners

- Includes four MP25 DC positioners with triaxial probe arms and 2 m triaxial cables
- Supports up to 4 RF and 10 DC positioners
- Wide range of positioners available
- Optional probe arms for coaxial, Kelvin and RF measurements

### Modular Chuck

- 150 mm non-thermal triaxial 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

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

SZ10U-ITS150	SUPERZOOM 10X / UPGRADE ITS150
50X50MU-ITS150	50x50MM LINEAR MICROSCOPE MOVEMENT / UPGRADE ITS150
MP40U-ITS	MP40 UPGRADE IMPACT - COAX / TRIAX
FACILITY-ITS	FACILITY UPGRADE IMPACT / 110 - 230V
TC-150EU-ITS	150MM THERMAL CHUCK SYSTEM COAX / 150C / UPGR

The complete test package includes:

**TS150 Manual Test System with puck controlled air-bearing stage**

- 180 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 20 mm fine platen height adjustment
- Stable microscope bridge mount
- Vibration absorbing base

**150 mm Triaxial Chuck, non-thermal**

- Stainless steel chuck top with vacuum rills
- Triax (female) chuck connection
- 2 m triaxial cable (male-male)

**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
- 50 mm 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

**4x MP25 DC MicroPositioners for backlash-free probe positioning**

- 10 mm travel range in XYZ, 500 µm screw resolution
- Universal adapter for DC arms
- Easy, convenient, and tool-less arm exchange or height adjustment
- Strong magnet base

**4x Triax Probe Arms, with 2 m triaxial cables**

- Ultra, low-noise triaxial cable
- High-end triaxial connector with cable strain relief

**Tungsten Probe Tips, 7 micron tip radius, one set of 25 tips  
Accessories, wafer tweezers, L-key set**

