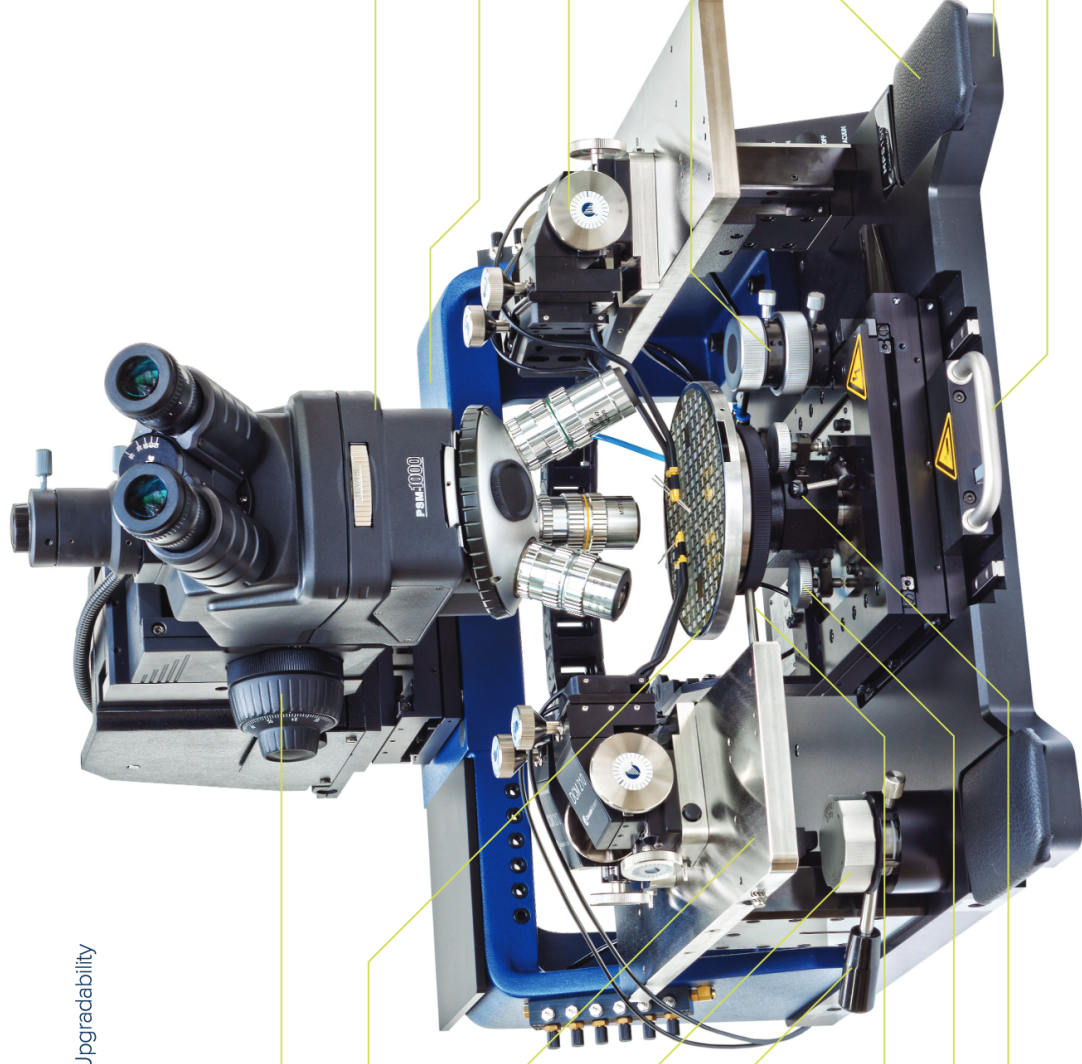


Cascade

MPS150

A Modular 150 mm Manual Probe System Designed for Upgradability

Flexible Cascade MPS150
Modular 150 mm Probe Station



Wide selection of microscope movements

- Manual up to 150 mm x100 mm
- High-resolution manual 50 mm x 50 mm
- Motorized 50 mm x 50 mm

Application-specific 150 mm chucks

- Coaxial, triaxial and RF/mmW with AUX sites
- Non-thermal or thermal up to 300°C
- Support single chip down to 3 mm x 5 mm
- $\leq \pm 3 \mu\text{m}$ chuck planarity

Dedicated probe platens

- Rigid and stable design
- mmW platen for RF, mmW, sub-THz, load-pull and RF noise applications
- Cooled platen for chucks up to 300°C

Platen movement

- 40 mm travel range for maximum flexibility
- Quick and easy reconfiguration from wafer to package board application

Unique 200 μm platen contact/separation stroke

- $\leq 4 \mu\text{m}$ accuracy for repeatable contact quality
- Convenient and easy to use

Chuck theta rotation

- 360° for easy alignment
- Fine adjustment for accurate probe-to-pad alignment on small pads

Precision chuck Z movement

- 10 mm range for precise wafer height adjustment

Load stroke up to 3 mm

- Chuck stroke for convenient and safe wafer loading

Variety of optics options

- eVue® unique digital microscopes for high-magnification with large FOV
- Stereo and high resolution, camera ready
- Laser capability

Microscope mounting solutions

- Solid bridge for maximum microscope stability and low drift
- Alternate boom stand for stereo microscope

Positioners and probe cards

- Supports all Cascade Microtech positioners with positioning capability down to submicron levels
- Simultaneous use of probe card and positioners
- Dedicated probe arms for accurate HV, pulsed HV, CV, RF, mmW, HV and HC measurements

Chuck X/Y movement

- Precise X/Y positioning with $< 5 \mu\text{m}$ resolution
- Coax knobs for convenient single-handed operation
- Independent axis locks for easy linear navigation
- Individual axis friction adjustment for precision control

Compact base with arm rest

- Small 490 mm x 490 mm footprint
- Convenient operation

Vibration-isolation solution

- Ensured contact and minimized pad damage

Chuck stage with 90 mm roll out

- Quick, risk-free and convenient wafer loading

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