

Cascade PM8

200 mm Manual Probe System

Microscope movement

- 150 mm x 100 mm manual movement for large area evaluation
- 50 mm x 50 mm high-resolution movement for precise work with > 20x objectives
- 50 mm x 50 mm motorized movement for easy navigation and heavy-duty microscope integration
- 200 mm x 200 mm movable bridge with coarse and fine movement for large area inspection

Microscope bridge

- Cast bridge for maximum microscope stability and low drift
- Low-profile design for ergonomic microscope operation

Probe platen

- Compatible with probe card adapters
- Probe cards and positioners can be used simultaneously
- Large space to fit several positioners on each side
- mm-Wave platen for 110 GHz load pull and other RF noise applications
- Cooled platen for chucks up to 300 °C

Platen movement

- 45 mm travel range for maximum flexibility
- System height can adapt easily from wafer to package board application
- Motorized movement option for quick operation

Platen separation

- 500 µm separation drive with 1 µm precision repeatable movement to contact position

Chuck theta movement

- Fine theta movement +/- 6° for exact RF probe tip alignment

Chuck Z movement

- 8 mm load stroke for safe and easy wafer exchange

Chuck

- Dedicated 200 mm chucks for general purpose, RF, triaxial measurements and high temperatures up to 300 °C available
- Excellent planarity

Microscope and camera

- High-resolution microscopes (eVue™, FS70, PSM1000) for work on small features, even with laser cutter option
- Stereo microscopes for easy work with RF probe tips
- C-mount camera option for simple navigation and documentation

Positioner

- Compatible with all Cascade Microtech positioners down to submicron positioning capability
- Various probe arms for accurate I-V, C-V and RF measurements available
- Positioners interchangeable with other Cascade probe stations: MPS150, EPS150, PM300, PA200, PA300

Chuck X-Y-movement

- Rapid independent x-y stage coarse movement
- Precise movement allows chuck positioning with <1 µm resolution
- Separate axis fixation for easy navigation along lines
- Highly rigid stage design

Base platen

- Small footprint
- Easy operation of chuck and platen drives

Fine movement and stage indicator

- Easy view of actual x-y fine position

Vacuum switch

