



## SEMIPROBE PS4L-M Probe Station Instruction Manual

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## **PROBE SYSTEM FOR LIFE – MANUAL PROBE STATION (PS4L-M)**

The Probe System for Life (PS4L) family of wafer probing systems is designed based on SemiProbe's patented adaptive architecture. Unlike traditional probe systems, all foundation modules – bases, stages, chucks, microscope mounts, microscope movements, optics, manipulators and more – are interchangeable, making the PS4L the consummate solution for many different applications and budgets.

- Configured to meet your application and budget
- All key components are interchangeable to adapt to application changes
- Designed to be perpetually field upgradeable
- The most modular & flexible system on the market

### **Microscope Mounts/Movements/Lifts:**

- Mounts: Boom, Post or Bridge
- Movements: Manual, Programmable or Gantry
- Lifts: Manual, Programmable or Pneumatic

### **Optics:**

- StereoZoom: Low Magnification (50x—100x)

- Large field of view (FOV)
- Large working distance (WD)
- Compound: High Magnification (>100x- 400x)
  - Smaller field of view (FOV)
  - Smaller working distance (WD)
- Specialty: Zoom-Tube, A-Zoom

#### **Platens:**

- Fixed—No movement
- Linear Lift with Contact/Separation Stroke

#### **Bases:**

- Breadboards—Bench top
  - M6 Holes, 25 mm on Center
- Tables—Vibration Isolation
  - Several sizes and shapes available

#### **Wafer Chucks:**

- Round, Square or Lift-Pin
- 50 mm to >450 mm
- Vacuum Rings or Vacuum Holes
- Coaxial, Triaxial, HF or Double-Sided
- Non-Thermal & Thermal

#### **Wafer Stages:**

- Manual & Programmable
- 50 mm to >450 mm
- Upgrade Path:
  - Manual to Manual—larger travel
  - Manual to Semiautomatic
  - Semiautomatic to Automatic

#### **Accessories:**

- CCTV Systems—Color Cameras & Monitors
- Manipulators—Manual & Programmable
- Probe Arms—coax, triax, HF & Kelvin
- Bases—Magnetic, Vacuum or Bolt down
- Probe Card Holders
- Probe Tips

- Localized Environmental Chamber (LEC)
- Laser Cutter
- Vacuum Pumps & Air Compressors



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## Documents / Resources



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## References

- [User Manual](#)

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