LAB ASSISTANT



DATA SHEET

LA-150 DC

The LA-150 DC is an economical, small footprint 150 mm (6") probe system for R & D centers and Universities with the stability and flexibility you need for your work. It is configured as a complete system and is installed by the customer and operational within an hour out of the crate.

The SemiProbe Lab Assistant family of probe systems is specifically designed to address the requirements of research personnel - simplicity and ease of operation, portability, affordability and modularity. The Lab Assistant provides features and options that are typically only available in much more expensive systems – multiple stages, chucks, optics and manipulators. Numerous accessories can be added at a later date to enhance the system functionality.



FEATURES AND BENEFITS

- Small footprint fits on a desk, small bench, in a glove box or dark box
- Sold as a completely configured system
- Interchangeable components can be used as a single or multiple application system
- Modular numerous accessories can be added for additional capability
- DC, HF/Microwave & Kelvin versions available

CONFIGURATION INCLUDES:

- · Rigid aluminum base with rubber vibration isolation feet
- · Coarse and fine wafer stage adjustment with interchangeable stage options packaged part or thermal
- Fine stage movement using precision micrometer control X (25 mm), Y (25 mm) & Z (>20 mm)
- Coarse (360 degrees) and fine (10 degrees) theta adjustment
- 150 mm (6") chuck with isolation adapter and vacuum control system
- Aluminum with stainless steel plated platen with removable front wedge
- Precision micrometer driven platen Z lift (13 mm)
- Two (2) DC MA-8005 manipulators with magnetic bases, face plates and coaxial probe arms (standard)
- Microscope post with coaxial and linear microscope X, Y movement of 50 mm x 75 mm
- 6.7:1 zoom (100x magnification) trinocular stereo zoom microscope with 100 mm working distance

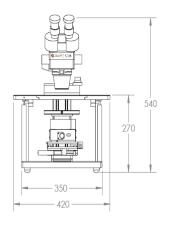


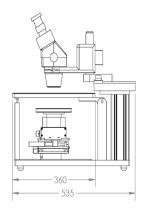
SPECIFICATIONS

420 mm X 540 mm X 535 mm (16.5" X 21.3" X 21.1") (W,H,L) – with Optics
32 kg (70 lbs.)
Solid Aluminum rigid base on rubber vibration isolation feet
Adjustable magnetic slide for coarse adjustment (> 150 mm)
Fine micrometer adjustment – 25 mm (X, Y)
Entire stage easily removed via magnetic base
Z travel: 20 mm (0.78") with micrometer driven contact/separation
Travel: 360 degrees (coarse) and 10 degrees (fine) with theta locking knob
Vacuum or mechanical clamping, round or square, HF, ambient, thermal and custom
Handle die, waffle packs, sawn wafers on frame, broken wafers and wafers up to 150 mm
Nickel plated steel with concentric vacuum rings (standard), other materials available
Aluminum with stainless steel top and removable front wedge for easy wafer handling
Manipulator fixation – magnetic (standard), vacuum (with optional vacuum manifolds)
Micrometer driven platen Z adjustment
Rigid aluminum post (standard) or boom available
Manual coaxial and linear fine microscope movement - 50 mm (X) and 75 mm (Y) (2"x3")
Trinocular stereo zoom microscope (standard), compound or zoom tube (optional)
Power: AC 110/220V AC 50-60 Hz 20A
Vacuum: 23 Hg or -0.8 bar
CCTV Systems (camera, monitor and adapter) and stand (shown in picture page 1)
Manipulators, Probe Arms, Probes, Cables – Coaxial, Triaxial, Kelvin, HF, Optical
Probe Card and Package Part Holders
Vibration Isolation Tables, Dark Box
Stages – wafer, packaged part, thermal

Note: Data and specifications vary depending on probe system configurations and accessories

PHYSICAL DIMENSIONS







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