

The SPS-1200 Series adapted for up to 200mm wafer testing is a scale down version of MicroXact's SPS-2200 manual probe stations that still keeps all relevant specifications of the higher priced system. Small, ergonomic and convenient to use system is ideal for laboratory testing and characterization of semiconductor devices and circuits.

Features

Fully manual stage assembly with precision cross roller bearings with 200mmx200mm range of motion. A pre-load slide for easy loading and unloading of wafers or samples in included. Convenient manual control of platen with coarse and fine adjustments and range of 12mm or 25mm.

Smooth magnetic steel platen holds up to 10 magnetic or vacuum-based positioners.

High quality stereo zoom microscope with up to 200mm working distance and high-intensity LED lighting provide outstanding vision at magnifications ranging from 3.5X to 180X. Includes camera port.

Isolated feed-through terminals located on both sides of station for convenient connection to micropositioners can be customized for BNC, Triax or DC pin connections or standard RF connections.

Standard boom mount assembly for full-range XYZ positioning of microscope. XY range of 50mm x 50mm (higher range available) Available high resolution micropositioners with up to 200TPI screws for micron-level positioning of probes.

Vacuum chucks offered with 3-zone adjustable vacuum with large number of vacuum zones available upon request.

RF options available include customizable RF probes, RF biasable chuck, and shielding enclosures.



Specifications

Wafer Size

XY Stage

Travel Resolution

Platen

Travel Adjustment **Planarity** Rigidity

Chuck

Vacuum Flatness Breakdown Voltage Isolation Adjustment Fie Z adjustment

Microscope

Electrical

Terminals

Up to 200mm standard, larger capacity available

200mmx200mm

3μm standard, 2 μm optional

12 mm or more

Coarse and fine control, better than +/-1.5µm repeatability <+/-12.7µm across 150 mm, <+/-5µm across 150 mm optional <5µm for 4.5 kg

Three-zone vacuum

+/- 13 µm standard, down to +/- 3 µm optional At least 500 V At Least 500V At least 1GΩ

360° coarse, +/-6° fine

10mm with 1μm or better resolution

High quality stereo zoom with up to 200mm working distance and magnification ranging from 3.5X to 180X. Compound or digital microscope upgrades are available

BNC, Triax, RF, or Banana plug





SPS-1200

www.microxact.com Phone: 540-394-4040