The SPS-1200 Series adapted for up to 200mm wafer testing is a scaled-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 200mm x 200mm 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 200 TPI 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
- Up to 200mm standard, larger capacity available

### XY Stage
- Travel: 200mm x 200mm
- Resolution: 3µm standard, 2 µm optional

### Platen
- Travel: 12 mm or more
- Adjustment: Coarse and fine control, better than ±1.5µm repeatability
- Planarity: <±-12.7µm across 150 mm, <±/-5µm across 150 mm optional
- Rigidity: <5µm for 4.5 kg

### Chuck
- Vacuum: Three-zone vacuum
- Flatness: +/− 13 µm standard, down to +/− 3 µm optional
- Breakdown Voltage: At least 500 V, At Least 500V
- Isolation: At least 1GΩ
- Adjustment: 360° coarse, +/-6° fine
- Fie Z adjustment: 10mm with 1µm or better resolution

### Microscope
- Flatness: +/− 13 µm standard, down to +/− 3 µm optional
- Breakdown Voltage: At least 500 V, At Least 500V
- Isolation: At least 1GΩ
- Adjustment: 360° coarse, +/-6° fine
- Fie Z adjustment: 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

### Electrical
- Terminals: BNC, Triax, RF, or Banana plug

---

**SPS-1200**

[www.microxact.com](http://www.microxact.com)

Phone: 540-394-4040