The SPS-2200 Series is MicroXact’s premier manual probe station for testing up to 200mm wafers, designed to be flexible and easy to use. Our systems provide a level of high performance and affordability that puts these stations in a class of their own. With a variety of options available, the flexibility of this system is nearly limitless.

**Features**

- Fully manual stage assembly with precision cross roller bearings with 225mm x 225mm range of motion. Pre-load slide for easy loading and unloading of wafers or samples is included into the base model.
- Fully manual control of platen with coarse and fine adjustments and range of 12.5mm (more range available upon request).
- Smooth powder-coated 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 100TPI screws for micron-level positioning of probes.
- Vacuum chucks offered in sizes 150mm, and 200mm in either polished or gold-plated brass as well as anodized aluminum. Vacuum ports adjustable for samples as small as 2.5mm.
- RF options available include customizable RF probes, RF bias-able chuck, and shielding enclosures.
# Specifications

**Wafer Size**

- Up to 200mm

**XY Stage**

- **Travel**
- Up to 225mm x 225mm
- **Resolution**
- 5 µm

**Platen**

- **Travel**
- 12.7 mm or more
- **Adjustment**
- Dual coarse and fine control, better than 1.5µm repeatability
- **Planarity**
- <12.7µm across 150 mm
- **Rigidity**
- <5µm for 4.5 kg

**Chuck**

- **Vacuum**
- Multi-zone vacuum
- **Flatness**
- +/- 13 µm
- **Breakdown Voltage**
- At least 500 V
- **Isolation**
- At least 1GΩ
- **Adjustment**
- 360° coarse, +/-6° fine

**Microscope**

- High quality stereo zoom with up to 200mm working distance and magnification ranging from 3.5X to 180X

**System**

- **Terminals**
- BNC, Triax, RF, or Banana plug
- **Dimensions**
- 78cm wide x 80cm deep x 58cm high
- **Weight**
- ~150 lbs.

**Facility Requirements**

- Vacuum: <600 torr.
- CDA: 60psi (Note: Only for pneumatic XY stage upgrade)

**Shipping Requirements**

- **Crate size**
- 3’ wide x 4’ deep x 3’ high
- **Shipping weight**
- up to 100kg depending on selected options

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