

SPS- 2200 Series Analytical Probe Stations

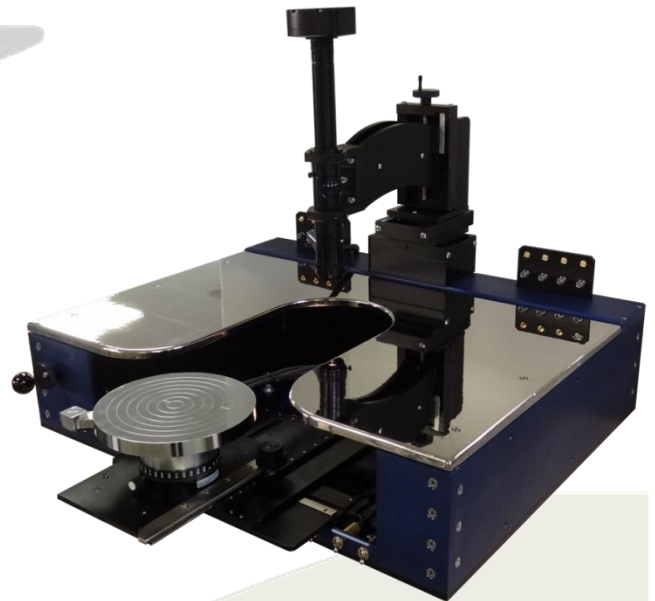
[Data Sheet](#)

microXact, inc.

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
Resolution

Up to 225mmx225mm
5 μ m

Platen

Travel
Adjustment
Planarity
Rigidity

12.7 mm or more
Dual coarse and fine control, better than 1.5 μ m repeatability
<12.7 μ m across 150 mm
<5 μ m for 4.5 kg

Chuck

Vacuum
Flatness
Breakdown Voltage
Isolation
Adjustment

Multi-zone vacuum
+/- 13 μ m
At least 500 V At Least 500V
At least 1G Ω
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
Dimensions
Weight

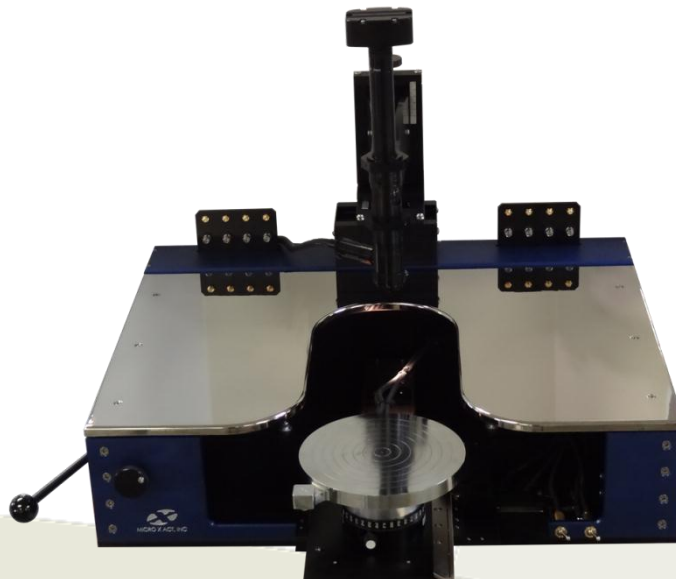
BNC, Triax, RF, or Banana plug
78cm wide x80cm deep x 58cm high
~150 lbs.

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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