

SPS- 2800 Series Analytical Probe Stations

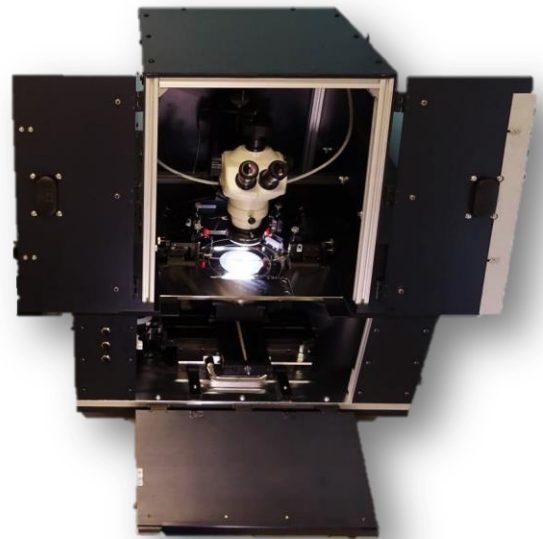
[Data Sheet](#)

microXact, inc.

The SPS-2800 Series is MicroXact's a probe station designed to support motorized or semi-automatic probing of up to 200mm wafers. These systems are built on a heavy-duty, versatile platform capable of being configured to handle a wide range of probing applications. Options include thermal chucks, stereo zoom, compound or digital microscopes, and full RF/light tight/environmental enclosures.

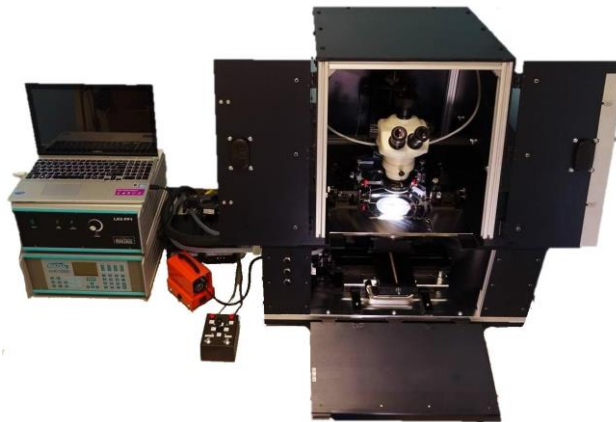
Features

- Available in range of motion of 200mm x 200mm. Also available with additional pre-load slide for easy loading and unloading of wafers or samples.
- Precision motor control of XYZ stage.
- Upgradable to include semi-automated control of wafer probing (SPS 2800 PLUS)
- Large 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. Upgrade to higher magnification microscope is available.
- Isolated feed-through terminals located on both sides of station for convenient connection to micropositioners can be customized for BNC, Triax, DC pin and other connections.
- Standard boom mount assembly for full-range XYZ positioning of microscope.
- Available high resolution micropositioners with 80TPI screws for micron-level positioning of probes.
- 150mm and 200mm vacuum chucks are offered. Vacuum ports adjustable for samples as small as 2.5mm.
- RF options available include customizable RF probes, RF biasable chuck, and shielding enclosures.



Specifications

Wafer Size	Up to 200mm
XY Stage Travel Resolution	200mm x 200mm 1.5 μ m
Z table Travel Resolution	12.5mm or 25mm 400nm or better
θ stage Resolution	Motorized or manual 0.01 $^{\circ}$ or better
Fixed Platen Planarity Rigidity	<12.7 μ m across 150 mm <50 μ m for 4.5 kg
Chuck Vacuum Flatness	Multi-zone vacuum +/- 13 μ m Grounded, isolated, coaxial or triaxial chucks are available
Microscope	Basic: High quality stereo zoom with up to 200mm working distance and magnification ranging from 3.5X to 180X A range of higher magnification microscopes is available.
System Dimensions Weight	78cm wide x80cm deep x 58cm high 85kg to 95kg depending on options selected
Facility Requirements	110VAC, 15A or 220VAC, 10A



SPS-2800

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