

SPS- 2600 and 2600-PLUS Series Analytical Probe Stations

[Data Sheet](#)

microXact, inc.

The SPS-2600 Series is MicroXact's premier line of probe stations 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, including heated/cooled wafer chucks, standard or digital microscopes, and programmable stage indexing, the flexibility of these probe stations is nearly limitless.

Features

Available in range of motion of 125mm x 125mm Also available with additional pre-load slide for easy loading and unloading of wafers or samples.

Precision motor control of XY stage and platen.

Upgradable to include fully automated control of wafer probing (SPS 2600 PLUS)

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, DC pin and other types of connections.

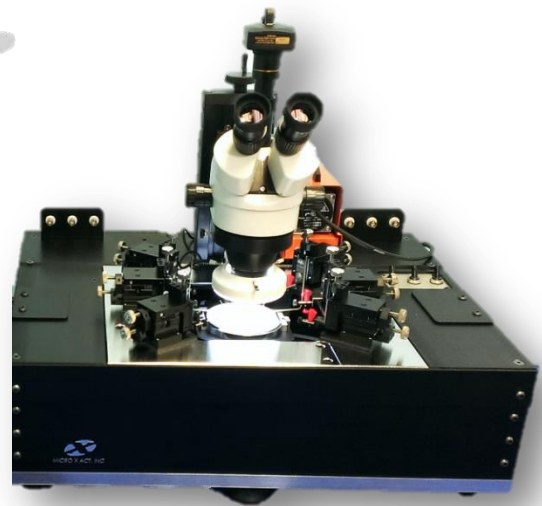
Standard boom mount assembly for full-range XYZ positioning of microscope.

Available high resolution micropositioners with 80TPI screws for micron-level positioning of probes.

100mm and 125mm vacuum chucks are offered with this system.

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 100mm standard (up to 125mm as an option)

XY Stage

Travel
Resolution

Up to 125mmx125mm
Motorized, 1.5 μ m repeatability

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
<50 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 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

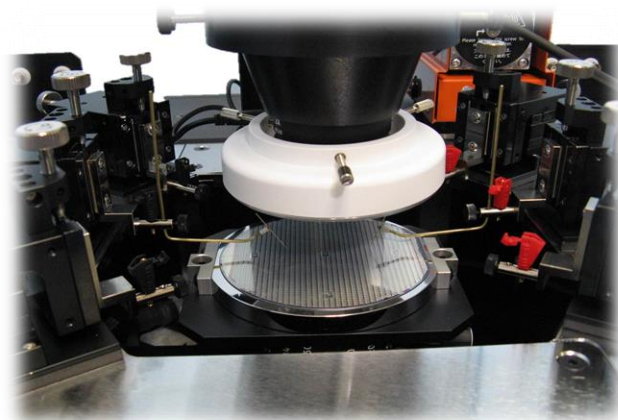
BNC, Triax, Banana plug and other
78cm wide x80cm deep x 58cm high
85kg to 95kg depending on options selected

Facility Requirements

110VAC, 15A or 220VAC, 10A

Shipping Information

Crate size 78cm wide x 80cm deep x 58cm high
Shipping weight up to 95kg depending on selected options



SPS-2600

www.microxact.com
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Accessories



Illuminator Shutter

Shutter system designed for the fiber optic ring light and halogen light source. System is integrated with the software for fully automated use. Makes automated testing of photosensitive devices easy while protecting halogen sources from the wear & tear of constant on/off switching.



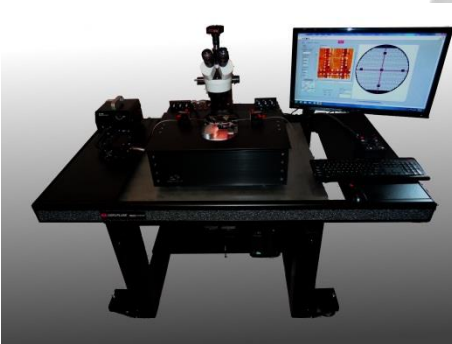
Digital Camera

Both the stereo zoom and Olympus BXFM microscopes include a third viewport for cameras. We offer compatible scope-mount digital cameras ranging from 1 megapixel to 10 megapixels. Included with the camera is software for image and video capture as well as dimension measurement capability.



Thermal Vacuum Chuck

The TC-SYS-150 system includes a thermal controller with USB interface and Windows-compatible control software as well as a liquid nitrogen cooling system with 6-stage pump and 10-liter dewar.



Vibration Isolation Table

For high precision testing of the smallest features, vibration isolation is a necessity. We offer a full line of vibration isolation tables which we will customize for each probe station and application.



Micropositioners

For features 5 microns or larger we offer very affordable 3-axis positioners with 0.025" resolution per turn. These positioners have 0.300" of available travel in X, Y, & Z. For features smaller than 5 microns we offer a premium positioner with 0.500" of available travel in X, Y, & Z. These positioners are available in three resolutions ranging from 0.025" per turn to 0.010" per turn. All have the option of being configured with either magnetic (left) or vacuum-lock bases (right).



Seiwa Precision Microscopes

Seiwa microscopes offer a broad range of capabilities, all of which are the result of Seiwa's unparalleled engineering and craftsmanship. Whether your system requires an application-specific microscope, such as a multi-wavelength laser compatible scope (above), or a standard stereo zoom microscope, we can integrate any of these microscopes with a MicroXact probe station.

SPS-2600

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