



SPECIALTY COATING SYSTEMS™



## SCS 6800 Spin Coater Series

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The SCS 6800 Spin Coater Series enables R&D and university laboratories to efficiently and accurately develop and refine coating applications. Its proprietary circuitry and user-friendly operation allow for the uniform application of photoresists, polyimides, metal-organics, dopants, silica films and most organic and aqueous solutions to planar substrates.

#### SCS 6800 Spin Coater Series Features

- Precise control of spin speed and acceleration/ deceleration rates
- Easy-to-use three-button keypad and LCD display on the front panel
- Clear cover features a dispensing slot and safety interlock to prevent operation when the lid is removed
- Non-programmable model (8-inch) can store and execute a single recipe with up to four steps
- Programmable models (8- and 12-inch) can store and execute up to three recipes with eight steps each

Optional features, such as a foot pedal, external software and an automated dispense system, are available on programmable models.

### SCS Multi-Dispense

The SCS Multi-Dispense integrates with an SCS Spin Coater to dispense liquid materials from up to four different material tanks (three with the use of N<sub>2</sub>) to provide accurate and controlled coating cycles. Materials can include coatings, solvents and cleaning solutions, in addition to N<sub>2</sub> for inerting or drying.

#### SCS 6800 Series Performance

Characteristic	Range	Tolerance
Rotational Speed	0 to 9,999 RPM in 1 RPM increments	± 1 to 3 RPM full scale
Acceleration/Deceleration Time <sup>1</sup>	0.1 to 30 seconds in 0.1 second increments	± 0.05 seconds
Dwell Time	0 to 999 seconds in 1 second increments	± 0.05 seconds
Dispense Time (programmable model only)	10 to 30 seconds in 0.1 second increments	± 0.05 seconds
Acceleration/Deceleration Linearity		± 0.1 percent

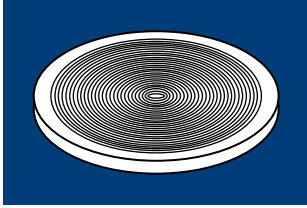
<sup>1</sup>Size and weight of substrate will affect acceleration values.

## Vacuum Chucks

Accessory chucks are available in several materials, including stainless steel, hard anodized aluminum, Delrin® and Teflon®, for a variety of substrate types and dimensions. Chuck components are machined to close tolerances for flatness and rigidity and feature a cross pattern to distribute the vacuum across mounting surfaces. A chuck size of 0.25 to 1 inch less than the substrate diameter is recommended. Fragile substrates should be supported across the entire surface.

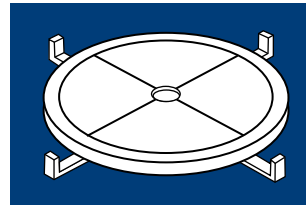
### Type CS: Flat Surface Cross and Scroll

Used to hold a thin, planar substrate such as silicon, glass or germanium on a spinning shaft for maximum rotational speed. Has cross and scroll design.



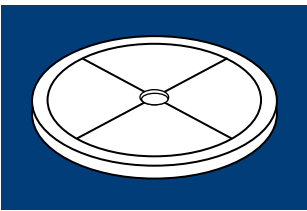
### Type L: O-ring Vacuum-Holding with Locating Fingers

Designed for heavy, large or unsymmetrical substrates. Guide fingers assist in positioning and holding substrates. Also includes an O-ring vacuum seal.



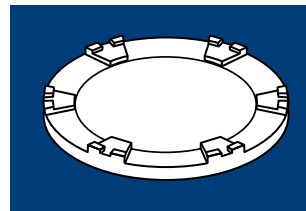
### Type H: O-ring Vacuum-Holding

Used to hold relatively heavy substrates, such as glass, quartz, ceramic and metal. Features O-ring vacuum seal.



### Type Pedestal: Non-Vacuum

Custom manufactured to precise user-specified dimensions. Designed for double coating applications (substrates do not touch bottom of chuck).



## SCS 6800 Spin Coater Series Specifications

<b>Program Storage</b> Nonprogrammable Programmable	1 recipe with 4 steps (includes ramp up and down) Up to 3 recipes, 8 steps each
<b>Bowl Size</b> Nonprogrammable Programmable	8 in / 20.3 cm 8 in and 12 in / 20.3 and 30.5 cm
<b>Power Input</b>	120 / 240 VAC, 50 / 60 Hz, 1Ø
<b>Vacuum Input Minimum</b>	17 in Hg / 430 mm Hg; O.D. fitting: 0.25 in / 0.635 mm
<b>Purge Input</b>	0.55 CFM at 5 psi / 14.15 CLM at 0.35 kg / cm <sup>2</sup> Dry air or nitrogen
<b>Dimensions (W x D x H)</b>	13.25 x 18 x 10.8 in / 33.7 x 45.7 x 27.4 cm
<b>Optional Features</b> Nonprogrammable Programmable	External vacuum pump External vacuum pump Software for external programming and unlimited recipe storage on the user's PC Foot pedal to start the spin coater Automated dispense system (SCS Multi-Dispense)



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