



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.

6800 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, including a foot pedal and external software, are available on programmable models.



6800 Spin Coater

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*	0.1 to 25.5 seconds in 0.1 second increments	± 0.05 seconds
Dwell Time	0 to 999 seconds in 1 second increments	± 0.05 seconds
Acceleration/ Deceleration Linearity		± 0.1 percent

*Size and weight of substrate will affect acceleration values.

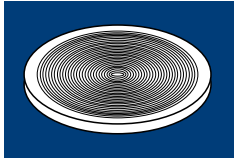
6800 SERIES SPECIFICATIONS

Program Storage Nonprogrammable Programmable	1 recipe with 4 steps (includes ramp up and down) Up to 3 recipes, 8 steps each
Bowl Size Nonprogrammable Programmable	8 in / 20.3 cm 8 in and 12 in / 20.3 and 30.5 cm
Power Input	120/240 VAC, 50/60 Hz, 1Ø
Vacuum Input Minimum	17 in Hg / 430 mm Hg; O.D. fitting: 0.25 in / 0.635 cm
Purge Input	0.55 CFM at 5 psi / 14.15 CLM at 0.35 kg/cm ² Dry air or nitrogen
Dimensions (W x D x H)	13.25 x 18.19 x 11.61 in / 33.7 x 46.2 x 29.48 cm
Optional Features	<ul style="list-style-type: none"> • External vacuum pump • Software for external programming and unlimited recipe storage on the user's PC* • Foot pedal to start the spin coater* <p>*Programmable model option</p>

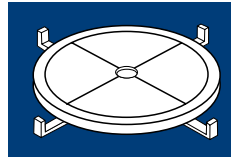


VACUUM CHUCKS

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.

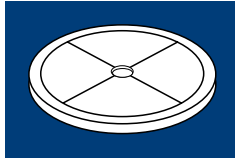


Type CS: Flat Surface Cross and Scroll
Used to hold a thin, planar substrate such as silicon, glass or germanium on a spinning shaft for maximum rotational speed.

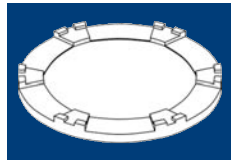


Type L: O-Ring Vacuum-Holding with Mechanical Locating Fingers

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 relative 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).

INNOVATIVE SOLUTIONS FOR ADVANCED TECHNOLOGIES.

With over 45 years of experience and locations around the world, Specialty Coating Systems is the global leader in Parylene conformal coatings and technologies. This extensive coating and application experience is leveraged on each and every customer project, including the industry-leading systems that SCS designs and manufactures. From conformal coating, dispensing and cure systems to ionic contamination test systems, SCS equipment is used in environments that range from university and research labs to high-volume production facilities. SCS' proactive approach to production and quality requirements—testing, validating, documenting and processing—enables customers and their advanced technologies to meet the most challenging industry specifications and quality requirements.



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