

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
- PVC cover features a dispensing slot and safety interlock to prevent operation when the cover is removed.
- Available with an 8- or 12-in PTFE-coated bowl
- Stores and executes up to three recipes with eight steps each

Optional features include a foot pedal and external vacuum pump.



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 0.1 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	Up to 3 recipes, 8 steps each
Bowl Diameter	8 in / 20.3 cm 12 in / 30.5 cm
Power Input	120/230 VAC, 50/60 Hz, 1Ø
Vacuum Input	Minimum 17 in Hg / 430 mm Hg (approx. -8.3 psig) Maximum 25 in Hg / 635 mm Hg (approx. -12.3 psig) O.D. fitting: 0.25 in / 0.635 cm
Purge Input	0.55 CFM at 2 psi / 14.2 CLM at 0.35 kg/cm ² Dry air or nitrogen
Dimensions (W x D x H)	13.3 x 18.4 x 11.7 in / 33.7 x 46.7 x 29.7 cm

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VACUUM CHUCKS

Stainless steel and hard anodized aluminum accessory chucks are available for various substrate types and dimensions. Customers can choose from three standard options or request custom chucks tailored to their specific needs. Chuck components are precisely machined to close tolerances for flatness, rigidity and longevity. The active surface of a vacuum chuck must be entirely encompassed by the substrate, and fragile substrates should be supported across their 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.

Note: Delrin® and PTFE chucks are available per special order. Delrin is a registered trademark of E.I. du Pont de Nemours and Company.

INNOVATIVE SOLUTIONS FOR ADVANCED TECHNOLOGIES

With over 50 years of experience and locations around the world, Specialty Coating Systems is the global leader in 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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P +44 (0) 1827 259250

W pi-kem.co.uk



7645 Woodland Drive, Indianapolis, IN 46278 United States

TF 800.356.8260 | **P** 317.244.1200 | **W** scsequip.com