



SPECIALTY COATING SYSTEMS™

SCS Precisioncoat V

Potting

Potting and encapsulation have always been labor-intensive processes. High accuracy and repeatability come at the expense of time and, ultimately, your bottom line. The SCS Precisioncoat V revolutionizes the process of potting and encapsulation. With systems designed to meet customer requirements, the Precisioncoat potting platform automates the dispensing of materials, greatly reducing the amount of time and cost associated with high-volume applications.



SCS Precisioncoat V

Industries and Applications

Wherever protection from shock, vibration, moisture or corrosion is crucial, the SCS Precisioncoat offers a potting and encapsulation solution that is as efficient as it is accurate. The Precisioncoat can apply materials onto or within a variety of substrates, including electronic assemblies, lighting assemblies and fixtures, automotive assemblies and wire harnesses. These applications, and more, are protected throughout a variety of industries, including:

- Industrial electronics
- Consumer electronics
- LED lighting
- Solar
- Renewable energy
- Power management devices
- Military
- Aerospace
- Automotive
- Medical electronics

Compatible Materials

The highly viscous nature of potting materials presents a unique challenge in the application process. The SCS Precisioncoat offers precise dispensing options for a wide range of potting materials (e.g., epoxies, silicones, urethanes, etc.) and mix ratios.

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The Precisioncoat Advantage

In a high-tech, high-speed, high-volume world, applying materials by hand is not a viable option. The Precisioncoat's potting platform gives customers a dispensing system that is tailored to meet their specific dispensing needs. The system offers a wide range of dispensing heads, which move smoothly along the direct-drive three-axis system, to apply a full range of potting materials and encapsulants. Optional fourth and fifth axes can be added for tilt and rotation functionality.

The Precisioncoat's valve technology allows for the application of dots, lines, fills and glob tops. Additional capabilities of the potting platform include:

- Two part mixing dispense
- Dot dispense
- One and two part metering
- Automatic reservoir refilling
- Material weigh stations
- Large volume pumping systems
- Small-volume precision metering systems
- Multiple valve configurations

Proprietary Windows®-based software truly sets the Precisioncoat apart, making the application process completely programmable and customizable. The Precisioncoat gives users a configurable system that applies materials exactly where you need them. Accuracy and repeatability are assured with high throughput and without the time and risk of manual labor.

Key features and benefits

- Ease of programming
- Accuracy and repeatability of dispense volumes
- High throughput
- Multiple dispensing and mixing solutions
- Variety of pumping systems available
- Ability to customize applications
- Profile sharing between multiple coating systems



Optional features

- 5 axes programmable tilt and rotate
- Vision system
- Coating flow meter
- Material temperature control system
- Laser height mapping
- Valve on/off during continuous motion

For a full list of available features and options, contact SCS.

The SCS Difference

Specialty Coatings Systems is a leader in the industry with not only the equipment needed for the best in processing and control, but a knowledgeable technical staff, ready to support customers with application support, custom designs, system demonstrations and world class technical support. We work closely with customers to create a custom solution for their specific application, drawing on a variety of features and options to meet any requirement.

SCS Precisioncoat V Specifications

Minimum substrate size	2 x 2 in / 5.08 x 5.08 cm
Maximum substrate size	20 x 20 in / 50.8 x 50.8 cm
Maximum substrate height	5 in / 12.7 cm above and below pass line
Electrical	120 VAC, 6A; 230 VAC, 3.5A
Exhaust requirements	150 CFM exhaust with 6 in / 15 cm duct
Air supply	10 CFM @ 80 psi dry air (some moisture-sensitive materials may require use of nitrogen instead of clean, dry air)
System dimensions (W x D x H)	39.0 x 49.5 x 67 in / 99.1 x 125.7 x 170.2 cm
Weight, skidded	820 lb / 372 kg



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