

SCS Precisioncoat V

Dispensing

The type of material you are using, how it needs to be handled, where it needs to be applied, and how quickly it cures are application-specific questions that must be resolved by SCS customers. In many cases, material dispensing is a highly manual process, costing manufacturers both time and money. The SCS Precisioncoat V meets all of your dispensing requirements in one easy-to-program, customizable solution.



SCS Precisioncoat V

Industries and Applications


The SCS Precisioncoat applies a wide range of materials via the process your application requires, while delivering accuracy, repeatability and greater throughput. From standard SMT boards to custom semiconductor assemblies and MEMS, a wide range of industries have found value in automated dispensing technologies, including:

- Industrial electronics
- Consumer electronics
- Military
- Aerospace
- Automotive
- Medical electronics

Compatible Materials

The SCS Precisioncoat offers completely customizable dispensing solutions for a full range of materials, such as:

- Conformal coatings
- Latex
- Epoxies
- RTV
- Adhesives
- Thermal pastes and greases
- Sealants
- Solder mask
- And more...

A close-up photograph of a dispensing nozzle from the SCS Precisioncoat V. The nozzle is a small, clear plastic component with a fine tip, mounted on a larger metal assembly. It is positioned over a printed circuit board (PCB) component, ready to dispense material. The background is a blurred blue, suggesting a factory or laboratory setting.

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But one system can.

The Precisioncoat Advantage

In the world of material dispensing, one size does not fit all. But one system can. The SCS Precisioncoat offers a wide range of configurations to cover a full range of material dispensing requirements. Its configurable dispense valves move smoothly along the direct-drive, three-axis system. Optional fourth and fifth axes can be added for tilt and rotation capabilities.

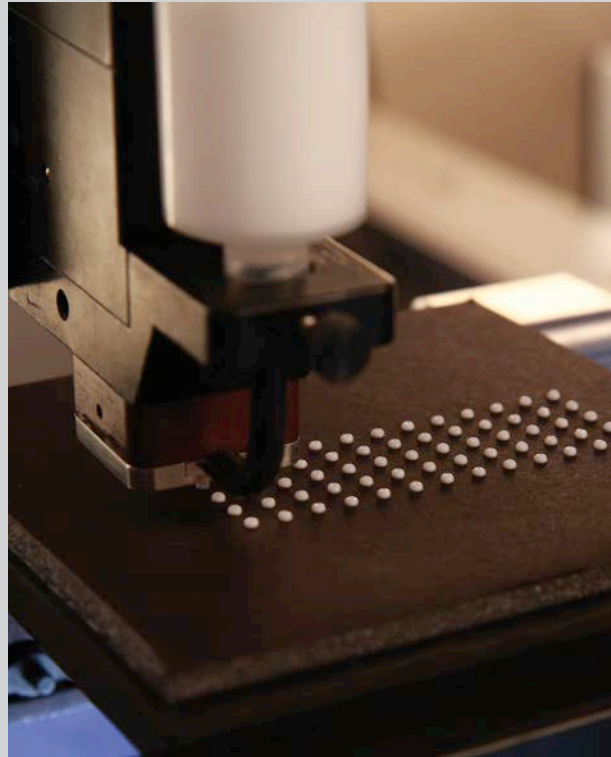
Multi-functional, multi-valve technologies allow for the application of dots, lines, fills, glob tops and spray coat areas, all within one system. The following dispense valves are available and often interchangeable on SCS Precisioncoat systems:

- Two part mixing dispense
- Dot dispense
- Jetting technology
- Radial material application
- One and two part metering
- Flow coating
- Low to medium speed solder paste dispensing

But what sets the Precisioncoat apart is its proprietary Windows®-based software, which makes the application process completely programmable and customizable. With the Precisioncoat, you have a configurable system that offers the exact dispensing capabilities you need regardless of viscosity, material life or cure time. Accuracy and repeatability are assured without the downtime associated with multiple systems or manual labor.

Key features and benefits

- Ease of programming
- High accuracy and repeatability
- High throughput
- Multi-functional platform
- Multiple valve technologies
- Ability to customize applications
- Profile sharing between multiple coating systems



Optional features

- 5 axes programmable tilt and rotate
- Vision system
- Coating flow meter
- Needle calibration system
- Programmable coating pot pressure
- 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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