



SPECIALTY COATING SYSTEMS™



SCS Precisioncoat RTV

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Room temperature vulcanization (RTV) materials offer outstanding protection and flexibility to assemblies that may be exposed to vibration, temperature extremes, moisture, salts, electricity, and many other harmful elements. RTVs can also be used as form-in-place gaskets, to seal and protect housings, and to cushion or seal delicate components. In industries such as aerospace, automotive, military, medical and electronics, RTV can be used in many assemblies, some of which include:

- Instrumentation
- Power modules
- Sensors and LEDs
- Actuators
- PCBs
- Solar cells

The new SCS Precisioncoat RTV dispense system is a fully programmable, multipurpose system that offers unparalleled programming for efficiency in RTV application. As part of an assembly line, the optional barcode reader enables the equipment to switch programs to properly handle the current product.

The SCS Precisioncoat RTV is repeatable, precise and accurate to 0.001 inches, and the reliable bead control results in reduced material use. The system offers faster, more efficient application of RTV materials and reduces the need for manual labor in the production process. The standard configuration applies coatings with a three-axes system, and fourth and fifth axes can be added for tilt angles up to 60° or 360° rotation functionality.

The SCS Precisioncoat RTV is controlled by proprietary SCS software on a Windows® XP operating system and comes equipped with a high-pressure pumping system that pumps directly from a one- or five-gallon container. Optional features, such as offline programming and barcode reader capability, meet any production requirement. The system can also be tied to an integrated manufacturing system by means of SMEMA transfer standards.



The SCS Precisioncoat RTV applies a fine line around delicate components.



The SCS Precisioncoat RTV offers continuous, motor-driven tilt and rotate application.

Standard Features

- 3-axes system
- 0.001 in / 0.025 mm accuracy
- External pumping system for 1- or 5-gallon RTV supply
- Time/pressure volume control
- Rotary action, low-profile pneumatic board stop

Optional Features

- Tilt and rotate (motor-driven, coordinated motion)
- Pin chain conveyor, with manual or automatic width adjustment
- Interior lighting
- Barcode reader
- UV and thermal cure interface
- Head-cleaning system

SCS Precisioncoat RTV 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	4 in / 10.2 cm above and below pass line
Electrical	110 VAC, 10A (alternate electrical configurations available)
Exhaust (if required)	120 CFM exhaust with 6 in / 15.2 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)	41.5 x 51.9 x 68.8 in / 105.4 x 131.8 x 174.8 cm
Weight, skidded	700 lb / 317.5 kg

Innovative solutions for advanced technologies.

Specialty Coating Systems leads the industry in providing Parylene solutions for our global customers' advanced technologies. SCS is the direct descendant of the companies that originally developed Parylene, and we have more than 35 years of experience and expertise that we leverage on every project for our customers – from the initial planning phases, to advanced engineering, to the development of application processes.

Our worldwide resources include highly experienced sales engineers, some of the world's foremost Parylene specialists, and expert manufacturing personnel working in nine state-of-the-art coating facilities around the globe. In addition to Parylene coating services, we design and manufacture industry-leading Parylene deposition systems; liquid spray, dip and spin coating systems; ionic contamination test systems; and UV and thermal cure units. Our equipment is used in environments that range from university and research labs to high-volume production applications.

Our extensive and proactive approach to production and quality requirements – testing, validating, documenting and processing – provides our customers peace of mind and minimizes their resources needed to meet the most challenging industry specifications and quality requirements.



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