



SCS Precisioncoat

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The SCS Precisioncoat spray and dispense system precisely applies 100% solids, solvent-based and water-based coatings, such as photo-resists, acrylics, adhesives, solder mask and anti-microbial coatings, to virtually any surface or substrate, with maximum accuracy. Common coating applications include:

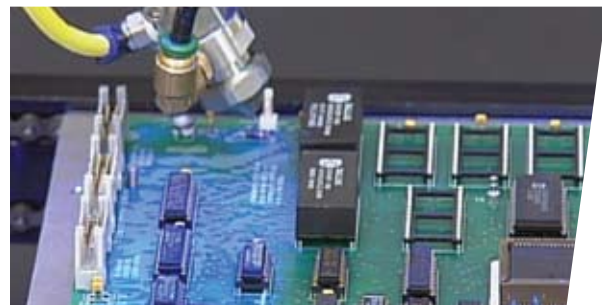
- Circuit board assemblies
- Semiconductors
- Fuel cells
- Gasketing
- MEMS
- Wafers
- Photovoltaic arrays

The Precisioncoat's standard configuration applies coatings with a three-axes system with an accuracy of 0.001 inches. Fourth and fifth axes can be added for tilt and rotate functionality. The Precisioncoat is controlled by proprietary software on a Windows® operating system and features convenient offline programming and file backup.

Optional features, including programmable tilt and rotate, fiducial recognition, needle calibration and barcode reader capability, are available to maximize efficiency and meet any production requirement. The system can also be tied to an integrated manufacturing system by means of SMEMA transfer standards. The SCS Precisioncoat has spray booth door and exhaust interlocks for safety.



The SCS Precisioncoat is mechanically accurate to 0.001 inches.



The optional fourth and fifth axes offer tilt and rotation for spray and dispense application.

System Features

- 3-axes system
- On-board PC (Windows®-based)
- Flat screen monitor
- 0.001 in / 0.025 mm positioning accuracy
- Offline programming
- Brushless AC motors
- Time/pressure volume control
- Spray booth door interlock
- Exhaust interlock
- Low-profile pneumatic board stop
- Dual board stop
- Left to right conveyor travel



Optional Features

- Tilt and rotate (pneumatic four position or programmable)
- Vision system (fiducial or pattern recognition)
- Needle calibration
- Barcode reader
- Pin chain conveyor (manual or automatic width adjustment)
- Right to left conveyor travel
- Variety of spray and dispense heads, including ultrasonic
- Pressure pots: 1 quart; 2, 5 and 10 gal / 950 ml; 7.6, 18.9 and 37.9 L
- Pot weighing station
- Low level alarms
- Metering pump
- Multiple spray heads
- Multiple dispense heads
- UV and thermal cure interface
- Head-cleaning system
- Solvent and air purge capability
- Shot pin fixture immobilization

SCS Precisioncoat 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 requirements	120 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)	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



SPECIALTY COATING SYSTEMS™

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