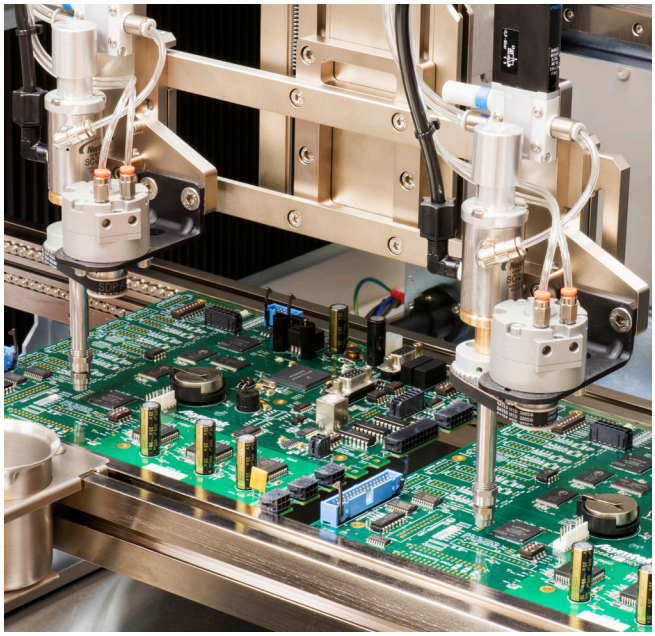
ASYMTEK Select Coat SC-280 Film Coater

Precision Non-Atomized Film Coating with Optional Closed-Loop Viscosity Control

Features and Benefits

- High-velocity coating up to 750 mm/sec.
- With a transfer efficiency of virtually 100%, the applicator improves utilization by 30-50%.
- The non-atomized design minimizes overspray, masking, and rework.
- Supports wet coating thicknesses of 12.5 to 100 µm (0.5 to 4 mils) for solvent-based materials and 100 to 250 µm (4 to 10 mils) for 100% solids formulations.
- Stainless steel fluid path.
- Easy maintenance and setup routines.
- Simple conversion between non-circulating and heated circulating configurations.
- Fourth axis provides a 0° to 90° rotation of the fan pattern.
- Dual-Simultaneous operation reduces process time by up to 50%.



The SC-280 Film Coater configured for dual-simultaneous operation.

The Select Coat® SC-280 Film Coater delivers higher throughput and improved yield with high-velocity coating, precise edge definition, rapid response times, and superior on/off performance across a range of coating widths. For enhanced process stability, the SC-280 circulating configuration provides precise viscosity control through closed-loop temperature management.

Compatibility. The SC-280 is compatible with the ASYMTEK Select Coat® SL-940 and SL-1040 conformal coating systems and ASYMTEK EasyCoat® software that features simple drag-and-drop programming on or offline.

EasyCoat software optimizes the interaction between the applicator and conformal coating system, automatically validating and refining coating start and stop points to improve process accuracy and consistency. The film coater provides automated, selective application of low-viscosity conformal coatings below 125 cP.

Consistency. The programmable applicator modes—spots, lines, and area coverage—yield impressive coating results. The SC-280 guarantees a consistent fan pattern, even when idle, due to its unique design that circulates heated fluid through the applicator extension, ensuring the nozzle temperature remains stable at all times.

Process Control. Programmers set the process temperature and corresponding limits in EasyCoat software. If the fluid temperature goes beyond the defined limits during production, the system activates an alarm, allowing operators to intervene and prevent potential errors.

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The Dual Simultaneous capability allows two identical applicators to coat two parts in parallel, cutting process time by up to 50% and greatly boosting throughput. EasyCoat software lets users disable the second applicator when not needed.

The Dual Simultaneous Programmable Pitch feature adds electronic pitch control for fast, precise, and repeatable adjustments without operator intervention—ideal for high volume or high mix production. Pitch settings can be programmed per product, with built in sensors and an encoder ensuring accuracy and performance.

The Fifth-Axis Tilt capability enables the film coater nozzle to be rotated and tilted, providing access to hard-to-reach areas that may not be reachable with the standard downward approach (0 degrees). Programmers can effortlessly set and modify the applicator's rotation and tilt parameters in EasyCoat software.

This feature is ideal for coating vertical surfaces and areas underneath components. Tilt the nozzle up to 30 degrees and rotate to four positions in 90-degree increments (0, 90, 180, and 270 degrees). Direct the fan pattern to the left, right, front, or back to coat all four sides of a component.

Install the nozzle horizontally for a narrow coating pass when tilted or vertically for enhanced coverage of vertical areas.

Specifications

Film Pattern Width	6 to 19 mm (0.24 to 0.75 in.)
Masking	Not required.
Material Viscosity	< 100 cPs
Application Thickness	Solvent-based materials: 10 to 76 µm (0.0004 to 0.003 in.)
Edge Tolerance	±0.75 mm (± 0.03 in.)
Transfer Efficiency	> 99%
Coating Velocity	up to 750 mm/sec (up to 30 in./sec)
Fluid Dispense Pressure	100 to 410 kPa (15 to 59 psi)
Body Material	Stainless steel, 300 series
Configurations	Non-circulating configuration
	Circulating configuration with closed-loop temperature management for viscosity stability

Note: Select Coat SC-280 | U.S. Patent 9,346,074

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