

# ASYMTEK Select Coat SC-280 Film Coater

Precise Non-Atomized Circulating and Non-Circulating Conformal Coating

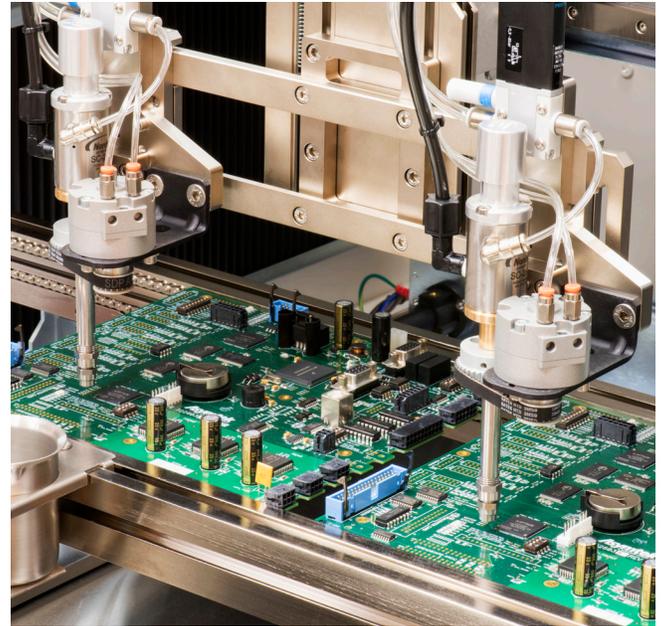
## Features and Benefits

- 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.
- Wet coating thicknesses range from 125 to 750  $\mu\text{m}$  (0.5 to 3 mils) for solvent-based materials and 0.1 to 0.2 mm (4 to 8 mils) for 100% solid materials.
- 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 coating reduces process time by 50%.

The Select Coat® SC-280N (non-circulating)/SC-280C (circulating) Film Coater enhances throughput and increases yield by providing high velocity, superior edge definition, faster response times, improved on/off rates, and the ability to accommodate various coating widths. The SC-280C ensures stable viscosity through closed-loop temperature control.

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

EasyCoat software establishes a seamless connection between the applicator and platform design by utilizing routines and validation steps to identify the optimal start and stop points during production. The film coater enables automated, selective application of conformal coating materials with viscosities of less than 100 centipoise.



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**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 Programmable Pitch capability** allows two identical applicators to coat two parts in parallel, cutting process time by 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

<b>Film Pattern Width</b>	6 to 19 mm (0.24 to 0.75 in.)
<b>Masking</b>	Not required.
<b>Material Viscosity</b>	< 100 cPs
<b>Application Thickness</b>	Solvent-based materials: 10 to 76 $\mu$ m (0.0004 to 0.003 in.)
<b>Edge Tolerance</b>	$\pm 0.75$ mm ( $\pm 0.03$ in.)
<b>Transfer Efficiency</b>	> 99%
<b>Coating Velocity</b>	up to 750 mm/sec (up to 30 in./sec)
<b>Fluid Dispense Pressure</b>	100 to 410 kPa (15 to 59 psi)
<b>Body Material</b>	Stainless steel, 300 series
<b>Model N</b>	Non-circulating
<b>Model C</b>	Circulating, used with heated viscosity control system

**Note:** Select Coat SC-280N and SC-280C: U.S. Patent 9,346,074

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