

# ASYMTEK Select Coat Applicator Series

SC-300 Multi-Mode and SC-350 Select Spray

## Features and Benefits

The Select Coat® Applicator Series:

- Supports a wide range of conformal coating fluids and is ideal for solvent or solvent-less formulations.
- Features fast system on/off times to optimize start and stop movement.
- Four-Position Tilt and Dual-Simultaneous Programmable Pitch capabilities deliver improved throughput and reduced process time.
- The versatile SC-300 Multi-Mode offers bead, monofilament, and swirl modes – all in a single applicator.
- The SC-350 Select Spray is specifically optimized to atomize coating materials – delivering exceptional edge definition and thin, uniform coating thicknesses at increased speeds.

The Select Coat Applicator Series includes the SC-300 Multi-Mode and SC-350 Select Spray, both compatible with the Select Coat® SL-940 and SL-1040 conformal coating systems and EasyCoat® software.

**The SC-300 Multi-Mode applicator** offers three operational modes: Bead, Monofilament, and Swirl.

**Bead Mode:** This mode allows for precise spot coating on individual components or a stream of fluid in areas where components are closely situated next to non-coating areas.

**Monofilament Mode:** In this mode, the fluid pressure and flow are carefully controlled at the nozzle. Auxiliary air flows through an air passage, striking the fluid at a precise angle. This action causes the fluid to spin on its axis, creating a conical, looping pattern. Monofilament Mode is ideal for generating broad pattern widths with good edge definition.



Select Coat SC-300 Multi-Mode

Select Coat SC-350 Select Spray

**Swirl Mode:** Angled jets strike the pressurized fluid as it exits the nozzle, creating a conical, swirling pattern. The swirling motion helps maintain the pattern's shape, ensuring excellent width control. This mode is ideal for applications that require moderate selective coating and thin-film builds.

**The SC-350 Select Spray** atomizes high-viscosity coating materials, achieving improved edge definition and allowing for selectivity and control near keep-out zones. This applicator minimizes “cobwebbing” of solvent-based fluids and enables the application of thinner coatings at faster speeds across a wide range of fluid viscosities.

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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 Four-Position Tilt capability** boosts throughput by enabling the applicator to quickly shift between a vertical position and four 30-degree tilt angles—right, left, forward, and backward. This enhanced flexibility allows access to hard-to-reach areas on densely populated boards. Through EasyCoat software, programmers can also set and fine-tune tilt and rotation parameters for each coating feature, improving precision and control.

### Specifications: SC-300 Multi-Mode Applicator

Applicator Parameter	Bead Mode	Monofilament Mode	Swirl Mode
Typical Fluid Dispense Pressure	7.0-413 kPa (1.0-60 psi)	7.0-413 kPa (1.0-60 psi)	60-172 kPa (10-25 psi)
Air Pressure	No air	Low	High
Pattern Width	2.5 to 6.4 mm (0.10 to 0.25 in.)	6.4 to 13 mm (0.25 to 0.50 in.)	6.4 to 19 mm (0.25 to 0.75 in.)
Fluid Viscosity	30 to 3500+ mPa·s (30-3500+ cPs)	30 to 3500+ mPa·s (30-3500+ cPs)	30 to 3500+ mPa·s (30-3500+ cPs)
Application Thickness	125 to 500 $\mu$ m (5 to 20 mils)	100 to 300 $\mu$ m (4 to 12 mils)	13 to 75 $\mu$ m (0.50 to 3 mils)
Edge Tolerance	$\pm$ 0.75 mm (0.030 in.)	$\pm$ 1.0 mm (0.040 in.)	$\pm$ 2.0 mm (0.080 in.)
Transfer Efficiency	100%	Up to 100%	95 – 99%
Coating Velocity	254 to 508 mm/sec (10 to 20 in./sec)	127 to 254 mm/sec (5 to 10 in./sec)	127 to 381 mm/sec (5 to 15 in./sec)

**Note:** This chart is for comparison purposes. Film thickness, edge tolerance, and coating velocity are dependent on the type of fluid. Application requirements and fluid properties affect results.

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## Specifications: SC-350 Select Spray Applicator

Applicator Parameter	Specification
Mode	Select Spray
Typical Pattern Width	4 to 11 mm (0.16 to 0.45 in.)
Fluid Viscosity	30 to 3500+ mPa·s (30-3500+ cPs)
Typical Application Thickness	13 to 75 µm (0.50 to 3 mils)
Edge Tolerance	± 1.0 mm (0.040 in.)
Transfer Efficiency	95-99%
Coating Velocity	127 to 381 mm/sec (5 to 15 in./sec)

**Note:** This chart is for comparison purposes. Film thickness, edge tolerance, and coating velocity are dependent on the type of fluid. Application requirements and fluid properties affect results.

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[www.nordson.com/electronics](http://www.nordson.com/electronics)  
[info-electronics@nordson.com](mailto:info-electronics@nordson.com)

**North America Headquarters**  
2762 Loker Avenue West  
Carlsbad, CA 92010-6603, USA

+1.760.431.1919

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