

ASYMTEK SC-400 PreciseCoat Jet

Highly Selective, Precision Conformal Coating

Features and Benefits

- Achieve fine, smooth lines using the shooting-on-the-fly technology in EasyCoat® software.
- This applicator can reach locations that others cannot.
- Dot sizes as small as 1.2 mm (0.05 in.).
- Thin film builds down to 15 µm with solvent-based materials.
- High-speed coating, up to 500 mm/sec (20 in./sec).
- Easy disassembly and maintenance.
- A Needle Sensor Module verifies the needle tip location for closed-loop positioning.
- Four-Position Tilt supports the standard vertical position and tilts the applicator at 30 degrees in four positions: right, left, forward, and backward.
- Reduce process time by 50% with Dual-Simultaneous capabilities.

The SC-400 PreciseCoat® Jet is compatible with the Select Coat® SL-940 and SL-1040 conformal coating systems, as well as EasyCoat software. This applicator is designed specifically for applying coating materials to highly selective areas.

It is ideal for coating small substrates, high-density component layouts, and applications requiring tight tolerances between coated and uncoated areas. The needle design features jetting action with fast pulse-width modulation, enabling the SC-400 to access locations that other applicators cannot reach.

With its ability to precisely control small volumes, the SC-400 can achieve line widths as narrow as 1.2 mm (0.05 in). The advanced flow control eliminates the need for masking. EasyCoat software enhances the process by providing routines and validation steps to determine optimal start and stop points



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during production, enabling coating material to be applied to the exact programmed locations.

The SC-400 can deliver multiple dot sizes from the same applicator, allowing for good volume control with small output volumes. Additionally, it provides clearance above tall components on the board, and its performance remains consistent even on warped substrates.

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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

Applicator Parameter	Specifications
Operation	Electrically controlled, air open, spring close
Valve Pressure	413 kPa (60 psi) minimum
Weight	500 g (1.1 lbs.)
Dispense Pressure	21 to 345 kPa (3 to 50 psi)
Max/Min Needle Length	13 mm (0.5 in.)/6 mm (0.25 in.) – contact the factory for other needle lengths
Coating Velocity	Up to 500 mm/sec (up to 20 in./sec)
Pulse Width Controller	Integrated with the conformal coating system
Pulse Control	EasyCoat software
Tested Chemistries	Acrylics, silicones, urethanes, UV-cure, water-based
Tested Materials Viscosity Range	0 to 850 cPs – contact the factory higher viscosities
Maximum Deposition Speed	500 mm/sec
Dot Size	Down to 1.2 mm ± 0.06 mm

Note: For use on ASYMTEK conformal coating systems.

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North America
Asia Pacific
EMEA

www.nordson.com/electronics
info-electronics@nordson.com

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

+1.760.431.1919

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