

PRODUCT INFORMATION: SC-300 SWIRL COAT APPLICATOR

SC-300 SWIRL COAT™ APPLICATOR VERSATILE COATING IN THREE MODES

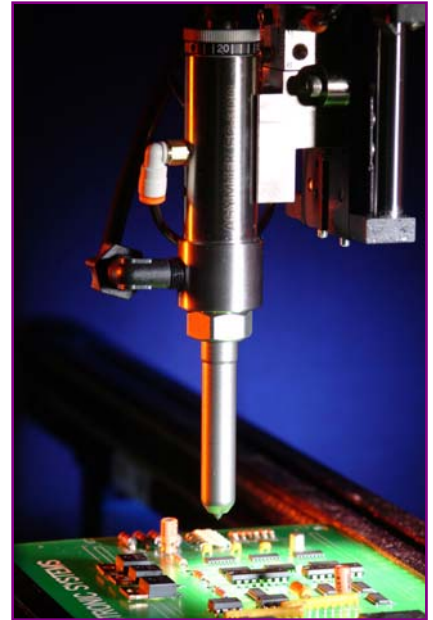
The SC-300 Swirl Coat applicator offers three modes of operation – bead, monofilament and swirl. Ideal for conformal coating applications, the SC-300 handles a wide range of materials, varying in viscosity from 30 to 3500 mPa-sec (30 to 3500 centipoise). The SC-300 is designed for use with solvent-less coatings, supporting environmentally responsible practices.

The SC-300 applicator is easy to maintain and offers several key features to make ownership simple. The zero-cavity nozzle tip prevents material build-up during operation; it also allows for cleaning without disassembly. There are minimum wetted parts to replace or clean. The use of advanced materials, smooth internal surfaces and exposed splines makes them easier to clean. In addition, the SC-300 requires no special adjustment during re-assembly -- coating performance and fluid sealing are not adjustment dependent. Short pot-life materials are easier to handle with this applicator.

For a broader selection of spray patterns, one of three airflow extensions can be fitted onto the main assembly. The airflow extensions along with the three spray modes provide coating patterns to fit your application.

The high flow rate produces film builds quickly, while allowing for fine control. The fluid passage provides uniform fluid flow distribution. The air and fluid chamber are co-located so that there is rapid response to changes in operation – there are no long air-lines to delay response or to fail.

An optional four-position Tilt Accessory is available to allow coating access to vertical sides of components.



FEATURES

- Three modes of operation – bead, monofilament, and swirl – for flexibility and control
- High flow rate -- fast, and fine control of film thickness
- Easy access design tip for cleaning; no disassembly required
- Simple maintenance; minimum wetted parts are easy to disassemble and remove
- Easier handling of short pot-life materials; true zero-cavity design holds no fluid at the tip after coating
- Four-position Tilt Accessory available as an option
- Ideal for solvent-less coatings

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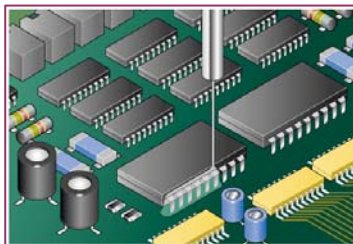
SC-300 SWIRL COAT APPLICATOR SPECIFICATIONS:

	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
Film Pattern Width	2.54 to 6.35 mm (0.10 to 0.25 in.)	6.35 to 19.05 mm (0.25 to 0.75in.)	6.35 to 12.7 mm (0.25 to 0.50 in.)
Material Viscosity	30 to 3500+ mP.s (30-3500+ cps)	30 to 3500+ mP.s (30-3500+ cps)	30 to 3500+ mP.s (30-3500+ cps)
Application thickness	125 to 500 μ m (5 to 20 mils)	100 to 300 μ m (4 to 12 mils)	13 to 75 μ 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 very much fluid dependent. Application requirements and material properties affect results.

Mode Descriptions

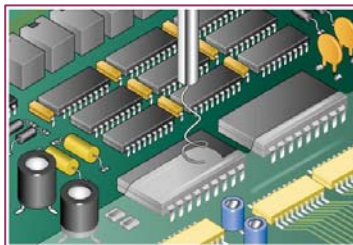
Bead: A stream of material is applied to the circuit board in areas where components are very close to non-coating or keep-out areas, or extra material is required for protection of high-impedance areas. The bead may also be used as a spot command for single coating of a single test point or component.



Please contact Asymtek for the name of your local representative.

Email: info@asymtek.com
 URL: www.asymtek.com

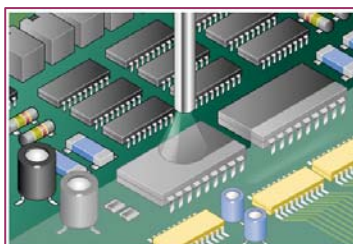
Monofilament: This pattern is created by controlling the fluid pressure and material flow passing through the nozzle. Auxiliary air circulating through the air passage strikes the material at a precise angle, causing it to spin on its axis and form a conical, looping pattern. The monofilament pattern is ideal for dispensing broad pattern widths, while maintaining good edge definition, resulting in faster cycle times.



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Swirl: The swirl pattern is achieved by increasing air pressure and lowering flow settings. Angled jets impinge air upon the pressurized material exiting the nozzle creating a conical, swirling pattern. The swirling action helps maintain pattern shape resulting in excellent width control. Because the air jets cause slight atomization of the material, extremely thin film builds are possible. The mode is ideal for applications where moderate selective coating and thin film builds are required.



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Contact Asymtek for your specific application requirements.

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 Intel's 2002-2005 PQS award winner**