

ASYMTEK Select Coat® SL-1040 Series

A new system for conformal coating in high-volume production, with high levels of control and low cost-of-ownership

Features and Benefits

- New generation conformal coating system designed for high-volume production, expanding from the industry-leading SL-940 system.
- Highly accurate coating system that can increase throughput with up to 3 applicators.
- Reduced operator intervention for maintenance, creating improved uptime and reduced cost-of-ownership.
- Choose from standard configurations that optimize productivity, selectivity, process flexibility, and precision.
- Process control and tracing capabilities with tight control for smaller keep-out zones.
- Compatible with most types of conformal coating materials, including acrylics.
- Ideal for silicones and urethane coating materials, when paired with the new SC-450 applicator.

The reliability of printed circuit boards depends upon the quality of conformal coating during electronics manufacturing. The new ASYMTEK Select Coat® SL-1040 Series conformal coating system is especially designed for high-volume conformal coating production that requires high levels of control, low cost of ownership, and reduced operator intervention. When paired with the new SC-450 applicator, it is ideal for silicone and urethane coating applications.

The platform is based upon the industry-leading SL-940 system and utilizes ASYMTEK's unmatched industry expertise in fluid dispensing and conformal coating process control. The result is a coating solution that simplifies the complexities of conformal coating while elevating the art of coating complex surfaces.

Your operations are simplified and enhanced by the flexible feature set that provides process control and traceability, improving setup consistency,



supporting faster changeover, reducing operator interaction, and increasing throughput.

EasyCoat® system software supports on- and offline programming and allows you to set process parameters, measure, record, and trace process outcomes.

The road to reliability should not be complicated. As a trusted coating partner for more than 35 years, we understand your time is valuable and that the equipment you select determines your products' quality, cost, and reliability.

To streamline the equipment selection process, the SL-1040 is available in several standard configurations. With these pre-selected sets of features, you'll get the equipment and application support you need with minimal lead time.

ASYMTEK Select Coat SL-1040 Series Specifications and Facility Requirements

Motion System	Type	Closed-loop servo motors configurations: standard products
	X-Travel	517.5 mm
	Y-Travel	537.5 mm
	Z-Travel	100 mm maximum
	X-Y Velocity	1.0 m/s (39.4 in./s) (max)
	X-Y Acceleration	1 g peak (10 m/s ²) (max)
	Z-Axis Velocity	0.5 m/s (max)
	X-Y Repeatability	45 µm @ 3 sigma at standard payload (4.5 kg)
	Z-Axis Repeatability	±100 µm, minimum Cmk of 1.67 at standard payload (4.5 kg)
	X-Y Resolution	2.5 µm
	Z-Axis Resolution	2.5 µm
	Positional Accuracy	±100 µm, minimum Cmk of 1.67 at standard payload (4.5 kg)
	Dispense Area	Dependent upon system configuration
Conveyor	In-Line	Single-lane standard chain conveyor
	Motor-Driven Width Adjustment	35 to 485 mm (1.4 to 19.1 in.)
	Maximum Clearance	100 mm (4 in.) above and below PCB
	Maximum Pallet/PCB Weight	5 kg (11 lbs.)
Computer	Industrial PC with monitor, keyboard, and trackball	
Software	EasyCoat® 6	Windows® 10 operating system
Fluid Delivery Methods	Precise Non-Atomized Conformal Coating	Select Coat® SC-280 Film Coater (circulating and non-circulating)
	Versatile, Atomized Spray Coating	Select Coat® SC-300 Multi-Mode applicator Select Coat® SC-350 Select Spray applicator
	Highly Selective, Precision Jet Coating	SC-400 PreciseCoat® conformal coating jet SC-450 PreciseCoat® conformal coating jet
	Versatile Valves	DV-01, DV-05, DV-09 valves
	System Footprint	1000 mm width x 1330 mm depth (39.3 x 52.4 in.) Computer keyboard/monitor occupy additional 605 (23.8 in.) in the front Lower front door requires 855 mm (33.7 in.) clearance to open. 1000 mm clearance in the rear recommended

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	Air Supply	620 kPa (90 psi, 6.2 Bar), up to 0.34 m ³ /min (12 SCFM); ¼-in. male NPT connection type
	Ventilation Rate, minimum	0.094 m ³ /s (200 SCFM @ 1.0 in. water column) Duct: 152.4 mm (6.0 in.)
	Optional Nitrogen Source	410 kPa (60 psi, 4.1 Bar) @ 0.014 m ³ /min (0.84 m ³ /hr 0.5 SCFM); for moisture sensitive materials
	Main Power	100-240 VAC, 10 A (max), 50/60 Hz Note: System can run on 120 VAC without heater option installed.
	Noise	Peak ≤ 74.0 dBA; Average ≤ 73 dBA (with two applicators)
	System Weight	500 kg (1102 lb) max
	Standards Compliance	SMEMA, CE, NFPA 79, SEMI, EN ISO 13849-1 Category 3

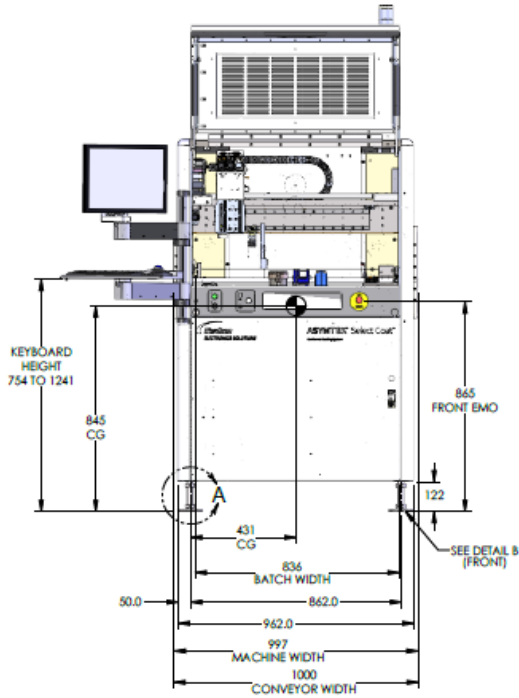
Standard Features for SL-1040

- Applicator fluid and air pressures are software-controlled
- Vision System with High Resolution Fiducial Find Camera
- Standard purge/service station includes:
 - Ultrasonic Nozzle/Needle Cleaner
 - Nozzle/Needle Calibration Sensor
 - Automatic Refill for Solvent Cups
- Automated routines for needle position calibration
- Interlock controls for door and adjacent equipment
- Front access hatch with glass
- Downdraft ventilation with redundant safety vent switch
- Stainless steel interior
- UV lights in coating area
- Compatible with lower frame pass through conveyor
- ESD-compliant cable carrier (Z-head & conveyor)
- ESD-painted frame
- Prepared for Industry 4.0 with NE Connect™ software

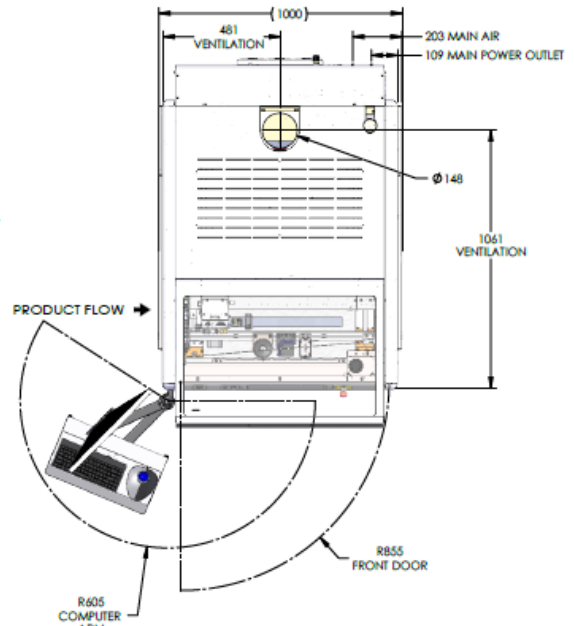
ASYMTEK Select Coat SL-1040 Series Dimensions

Dimensions are in millimeters.

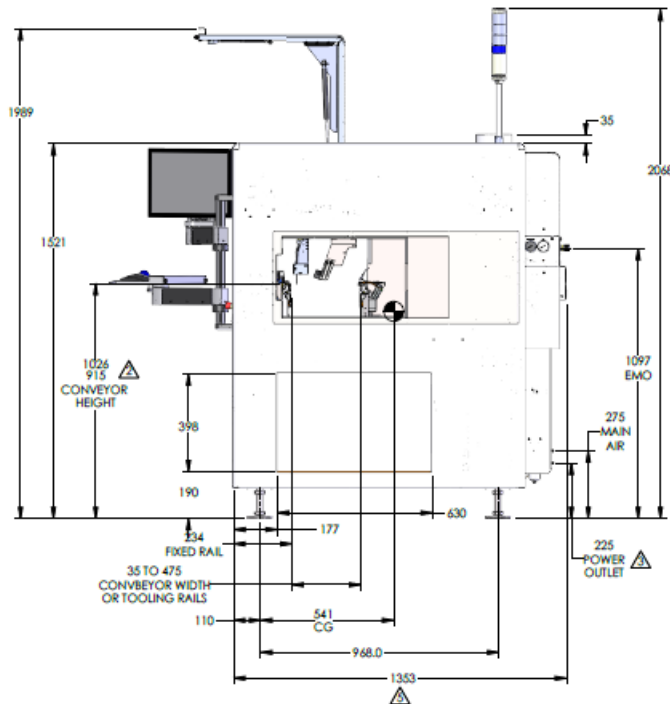
Specifications and dimensions subject to change. Contact Nordson Electronics Solutions for more detailed drawings if required.



Front View



Top View



Side View

For more information, visit our website to find your local regional office or representative. We have several global locations to serve you.

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