Select Coat SL-940 Series

Convenient Solutions. Exceptional Conformal Coating Results.

EasyCoat®6 | Nordson ASYMTEK

nordsonasymtek.com

Printed circuit board reliability greatly depends on the quality of the conformal coating. The Select Coat® SL-940 Series provides the high-quality coating results and productivity you need for your automated batch or in-line process.

A robust and flexible feature set simplifies and enhances your process by providing 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, we have combined our industry-leading Select Coat SL-940 Series features and options into standard Trim Packages that include Essential Option Bundles to accelerate your process. With Trim Packages, you'll get the equipment and application support you need with minimal lead time.

Features and Benefits

- **Choose from several standard conformal coating trim packages that optimize productivity, selectivity, and process flexibility.**

- **All Trim Packages support low viscosity solvent-based (25 – 125 cps) and medium viscosity solid (125 – 1200 cps) fluid applications.**

- **Trim Packages also feature Essential Option Bundles tailored for quick changeover, maintenance monitoring, moisture sensitivity, and Industry 4.0 connectivity.**

- **Support up to three applicators.**

- **Regular or heavy-duty single or dual-lane conveyors.**

- **Easy-to-clean stainless steel surfaces are resistant to the effects of strong agents.**

- **Downdraft air management system safely removes VOCs to meet Low Flammable Limits (LFL) standards.**

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ASYMTEK Select Coat® SL-940 Series

Specifications

Motion System	Type	Closed-loop servo motors with encoders
	X-Travel	500 mm
	Y-Travel	525 mm
	Z-Travel	100 mm maximum
	Encoder Resolution	0.005 mm. (0.0002 in.)
	X-Y Velocity	1.0 m/s (39.4 in./s)
	X-Y Acceleration	1 g peak with S-curve jerk control
	Z-Axis Velocity	250 mm/s (10 in/s)
	X-Y Repeatability	0.025 mm. (0.001 in.), 3 sigma
	Z-Axis Repeatability	0.025 mm. (0.001 in.), 3 sigma
	X-Y Resolution	0.010 mm. (0.0004 in.), 3 sigma
	Z-Axis Resolution	0.025 mm. (0.001 in.), 3 sigma
	Positional Accuracy	0.075 mm. (0.003 in.), 3 sigma
Dispense Area	Dependent upon system configuration.	Contact Nordson ASYMTEK for specifics.
Conveyor	In-Line	Standard chain conveyor
	Motor Driven Width Adjustment	35 to 475 mm (1.4 to 18.7 in.)
	Maximum Clearance	100 mm (4 in.) above and below PCB
	Maximum Pallet/PCB Weight	Standard: 5 kg (11 lbs.) [Optional: 16 kg (35 lbs.)]
Adjustable Tooling Rails	Width Adjustment	35 to 475 mm (1.4 to 18.7 in.)
	Maximum Clearance	100 mm (4 in.) above and below PCB
	Maximum Pallet/PCB Weight	Standard: 5 kg (11 lbs.) [Optional: 16 kg (35 lbs.)]
	Tooling Plate is Available	Aluminum; 5 mm (0.2 in.) thickness; 508 x 508 mm (20 x 20 in.)
	Aluminum Extrusion Profile	The rail spacing is adjusted by moving the back rail
Computer	Laptop, Mini-Tower, or IPC	
Software	EasyCoat® software	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
	Versatile Valves	DV-0X Series and EFD 781
Facilities Requirements	System Footprint	1000 mm width x 1329 mm depth (39.3 x 52.3 in.) Computer keyboard/monitor occupy additional 527 mm (20.7 in.) in the front Lower door requires 855 mm (33.7 in.) clearance to open in front and 1000 mm clearance in the rear
	Air Supply	620 kPa (90 psi. 6.2 Bar), up to 0.34 m3/min (20.4 m³/hr 12 SCFM) max depending on configuration
	Ventilation	340 m³/hr (200 SCFM) @ 25.4 mm (1.0 in.) water column
	Optional Nitrogen Source	410 kPa (60 psi, 4.1 Bar) @ 0.014 m³/min (0.84 m³/hr 0.5 SCFM); moisture sensitive material requirement
	Main Power	200/240 VAC, 10 A (max), 50/60 Hz Note: System can run on 120 VAC without heater option installed.
	Noise	Peak ≤ 76.0 dBA; Average ≤ 70.7 dBA
	System Weight	426 Kg (940 lbs.) max
	Standards Compliance	SMEMA, CE, NFPA, and SEMI

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Trim Packages

All trim packages support low viscosity solvent-based (25 – 125 cps) and medium viscosity solid (125 – 1200 cps) fluid applications. For more information, contact us at info@nordsonasymtek.com.

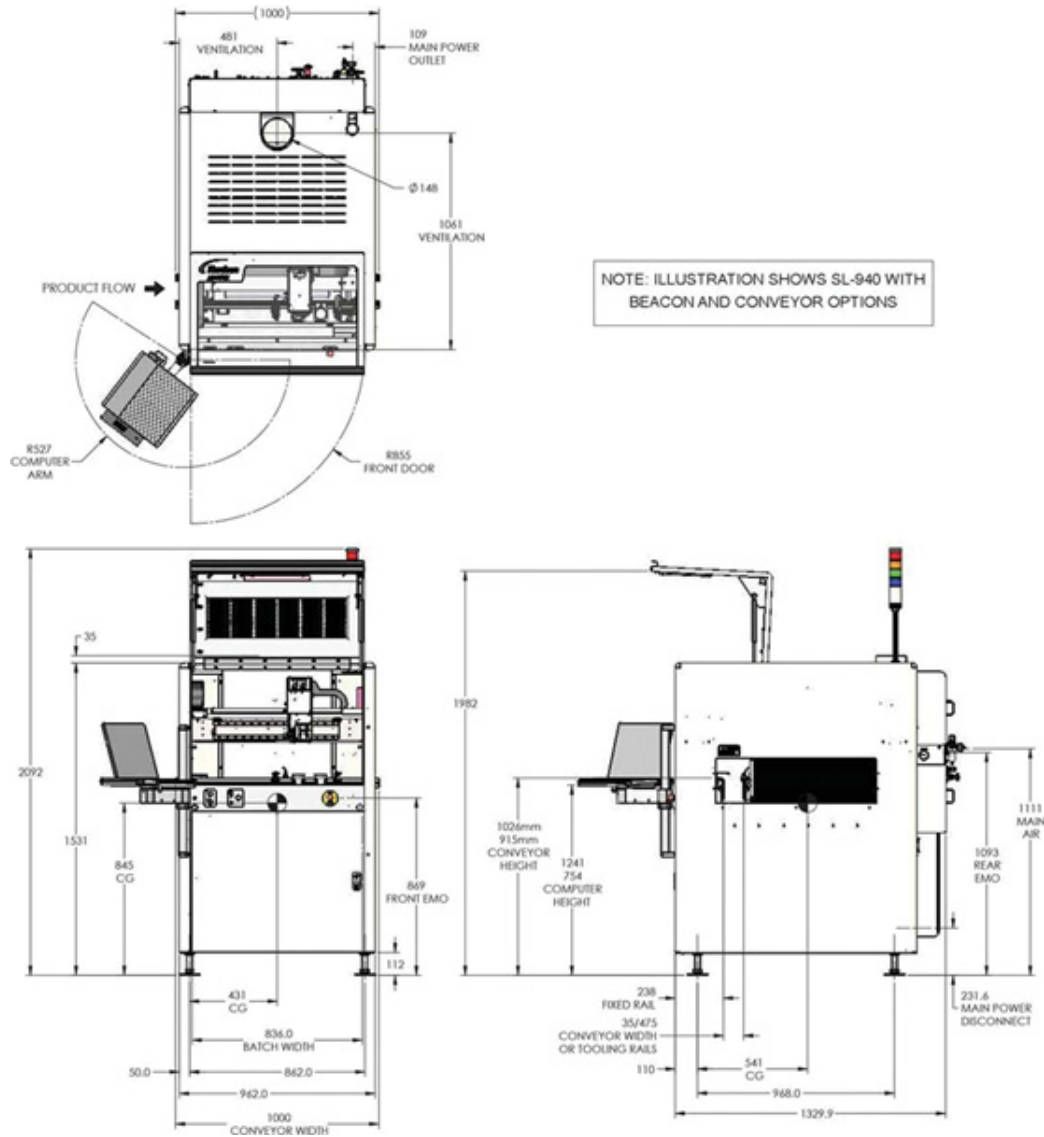| Essential	Standard Conformal Coating Capabilities with a Single Valve	The single-valve automated conformal coating solution ensures essential protection of circuit boards, components, and other electronic devices from harmful environmental conditions like moisture, thermal shock, static, vibration, and contamination.
Productivity	Accelerated Throughput with Dual-Valve Manual Simultaneous	Accelerate throughput with dual-valve manual simultaneous capabilities. Coat two parts (multiple-up) at the same time, reducing process time by 50% and virtually doubling throughput performance in high takt time coating processes.
Selectivity	Keep-Out Zone Avoidance with Dual-Valve Toggle, Dual Slide	Get maximum control and keep-out zone avoidance to reduce masking with a dual-valve toggle configuration. Achieve optimum selectivity performance with a combination of valve technologies.
Productivity Plus	Accelerated Throughput & Selectivity with Dual-Valve Manual Simultaneous + a Third Valve	Accelerate throughput and gain easy access to hard-to-reach areas. Get large area coverage and highly selective coating capabilities with dual-valve manual simultaneous plus a third valve.
Multi-Efficiency	Triple-Valve Solutions for Multi-Applications with Triple-Valve Toggle	A triple-valve solution allows you to efficiently accommodate any conformal coating application on the same board or a gel application to create a dam that prevents fluid from flowing into a keep-out zone.

Essential Option Bundles

Trim packages include Essential Option Bundles to optimize your process.

Quick Change Ready	Produce multiple products efficiently with the same coating equipment. This bundle allows you to switch between board sizes and programs efficiently.
Maintenance Monitoring Ready	Don't stop your process. This bundle tracks fluid levels so you can refill before running out.
Moisture Sensitive Ready	This bundle protects fluids from early cure and keeps wetted fluid lines, applicators, and nozzles clean.
Industry 4.0 Connectivity Ready	Integrate Nordson coating equipment with your FIS or MES using the ASYMTEK NE Connect API and Software Developer Kit (SDK) standard in EasyCoat® software.

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ASYMTEK Select Coat® SL-940 Series

System Dimensions

NOTE: ILLUSTRATION SHOWS SL-940 WITH BEACON AND CONVEYOR OPTIONS

For more information, visit our website to find your local regional office or representative.

We have several global locations to serve you.

North America
Asia Pacific
EMEA

nordsonasymtek.com/global-locations
info@nordsonasymtek.com

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

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