

Select Coat® SL-940E / SL-941E

Powerful process control for conformal coating

Features and Benefits

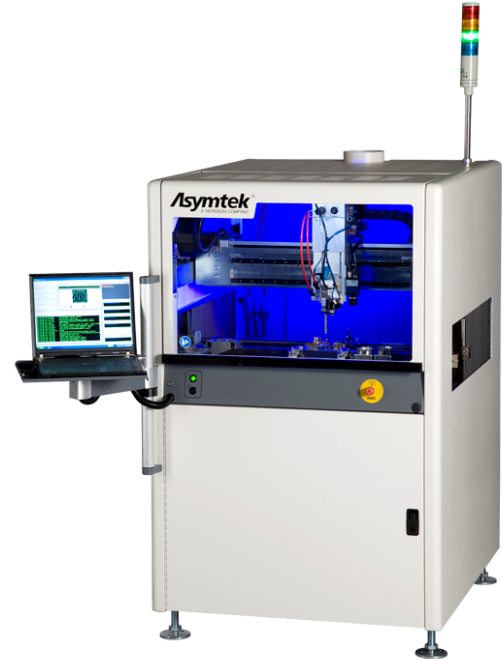
- **High-speed, high-accuracy coating system delivers higher productivity**
- **Powerful process controls ensure coating quality, such as Fan Width Control that automatically adjusts for viscosity variations during the coating process**
- **Advanced monitoring allows for traceability**
- **Programming is made easier with the optional camera**
- **Optional pattern recognition system permits confirmation of accurate coating pattern positioning**
- **Downdraft ventilation provides an efficient path for VOC removal**
- **Designed with stainless steel surfaces, the system is easy to clean and resistant to strong agents**

The Nordson ASYMTEK Select Coat® SL-940 Series conformal coating system is designed to provide the highest quality and productivity for automated coating processes. Model SL-940E is conveyORIZED for in-line production, while model SL-941E is non-conveyORIZED for batch and single-piece demand flow production environments.

The SL-940E and SL-941E are high-speed, high-accuracy coating systems with integrated, closed-loop process control that ensures superior coating quality. Process parameters are recorded and traceable through Easy Coat® (ECXP) software running on Windows XP® operating system.

Fluid and air pressure are set and monitored through software-controlled electronic regulators. A complete process history can be maintained in ECXP log files for these critical parameters.

A wide range of process parameters can be monitored for statistical process control, including Nordson ASYMTEK's Laser Fan Width Control, Viscosity Control System, Bar Code System, and



Flow Monitoring. The processes are automatically maintained within limits and process status is logged for traceability. This information can be exchanged with customer-specific Factory Information Systems (FIS).

ECXP software, together with an optional vision system, makes teaching your coating program much easier. Pattern recognition software is also available.

Productivity is maximized with ECXP software and machine design. The SL-940E and SL-941E systems operate at 1g peak accelerations, are capable of velocities of 1 meter per second, and can accommodate product sizes up to 500 mm.

The SL-940E/SL-941E has been independently tested and certified for compliance with relevant safety standards including CE, NFPA, and SEMI.

Specifications: Select Coat® SL-940E / SL-941E

Motion System

Type: Closed loop servo motors
X-Y velocity: 1000 mm/s (39.4 in./s) maximum
X-Y acceleration: 1g peak with S-curves
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

In-line: 500 x 440 mm (19.7 x 17.3 in.)
With solvent-purge station and/or LFWC:
500 x 440 mm (19.7 x 17.3 in.)
With solvent-purge station, LFWC and camera:
421 x 440 mm (16.6 x 17.3 in.)

Note: Dual-toggle applicators reduce the total dispense area per individual head. Contact factory for specifics.

Conveyor for SL-940E Model

In-line: Standard chain conveyor with queue stop and pinning set.
Manual width adjustment from 35 to 475 mm (1.4 to 18.7 in.)
Maximum clearance 100 mm (4 in.) above and below PCB
Maximum pallet/PCB weight: 5 kg (11 lbs.)
[Optional: 7 kg (15 lbs.)]

Adjustable Tooling Rails for SL-941E

Aluminum extrusion. The rail spacing is adjusted by moving the back rail.
Width adjustment from 35 to 475 mm (1.4 to 18.7 in.)
Maximum clearance 100 mm (4 in.) above and below PCB
Maximum pallet/PCB weight: 7 kg (15 lbs.)
Tooling plate is also available for SL-941E. Aluminum;
5 mm (0.2 in.) thickness; 508 x 508 mm (20 x 20 in.).

Computer

Computer: Laptop computer, Pentium® processor
User interface: Monitor and keyboard

Software

User environment: Easy Coat® for Windows® XP
Operating system: Windows® XP

Fluid Delivery Methods

SC-104 or SC-105 Viscosity Control System (non atomizing, heat circulating system)
SC-204 or SC-205 Film Coater (non-atomizing system)
Swirl Coat® SC-300 Applicator: Three-mode swirl system
PreciseCoat® SC-400 Jet Applicator: High selectivity application

Facilities Requirements

System footprint:

1000 mm width x 1329 mm depth (39.3 x 52.3 in.)
Computer keyboard and monitor occupy additional 527 mm (20.7 in.) in the front
Lower door requires 855 mm (33.7 in.) opening space in the front
1000 mm clearance in the rear is recommended
Dimensional diagrams on next page.

Air supply: 620 kPa (90 psi, 6.2 Bar), up to 0.34 m³/min (12 SCFM) max. depending on configuration

Ventilation, air: 17 m³/min @ 25.4 mm water column (600 SCFM @ 1.0 in. water column)

Ventilation, nitrogen source: 410 kPa (60 psi, 4.1 Bar) @ 0.014 m³/min (0.5 SCFM); required for moisture-sensitive materials

Mains power: 200/240 VAC, 10 A (max), 50/60 Hz

Noise: Peak: ≤ 76.0 dBA ; average ≤ 70.7 dBA

System weight: 426 Kg (940 lb) max.

Standards compliance: SMEMA, CE, NFPA, and SEMI

Standard Features

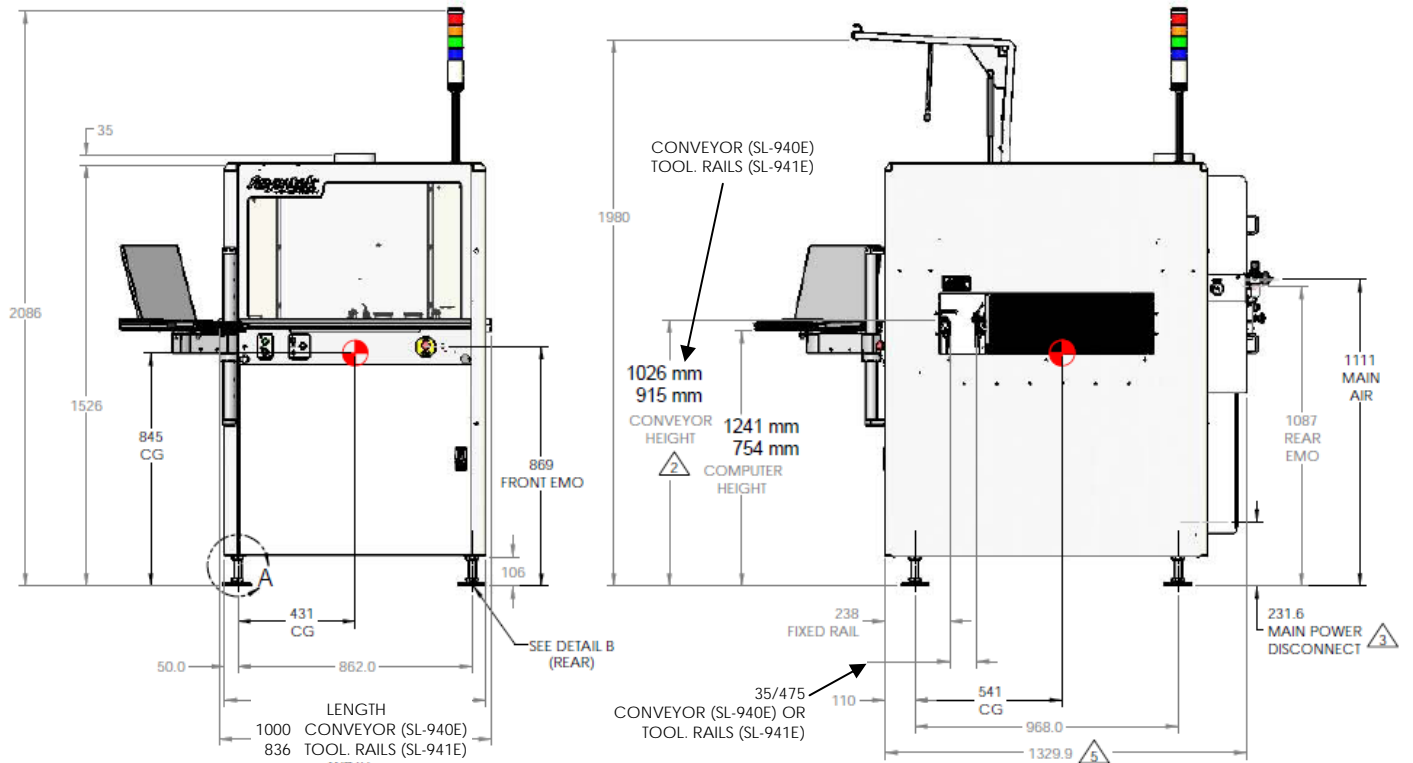
Applicator fluid and air pressures are software-controlled
Solvent-purge station with cups
Door interlock controls
Light beacon
Downdraft ventilation with redundant safety vent switch
Stainless steel interior
Front access hatch with glass
Computer arm adjustable in height and right/left orientation

Options

Bar code recognition system, 1D or 2D
Black light
Board presence sensor
Dual simultaneous applicator capability
Dual toggle applicator capability
Flow meter
Laser Fan Width Control (for SC-104/5-204/5)
Laser pointer programming tool
Fiducial find camera
Solvent cup with fluid level sensor
Low fluid sensor
Low fluid scale
Material change over (manual)
Pre-queue board station
Programming camera
Four-position tilt (for SC-300),
Tilt and rotate for SC-104/204
Factory Information System (FIS):
contact your sales representative.

Dimensions: Select Coat® SL-940E / SL-941E

Dimensional drawings for Models SL-940E and SL-941E: all dimensions in millimeters



Inside view of SL-941E



**For more information,
speak with your local
representative or
contact your regional
office.**

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