

# Select Coat® SC-204/205 Film Coater

## Precise Non-Atomized Conformal Coating Application

### Features and Benefits

- High coating velocity up to 750 mm/sec
- With a transfer efficiency of virtually 100 percent, the Film Coater applicator improves conformal coating utilization by 30 to 50 percent
- The non-atomized design minimizes common problems such as over-spray, masking, and rework
- Wet coating thicknesses range from 125 to 750  $\mu\text{m}$  (0.5 to 3 mils) for solvent-based materials and 0.1 to 0.2 mm (4 to 8 mils) for 100-percent solid materials
- The standard Fourth Axis provides a 0 – 90 degree rotation of the fan pattern
- Optional Fifth-Axis Tilt accessory increases accessibility to tight or difficult-to-access areas that may not be achievable with the standard downward approach (0 degrees)
- Also available in Dual-Simultaneous configurations – coating process time is reduced by 50%

The Core and Prime SC-204/205 Film Coater Fluid Systems optimize throughput and increase yield by delivering high velocity and excellent edge definition. When combined with the Prime Process Controls, the unique design provides the ability to program and use a variety of coating widths.

The non-atomized film coater provides automated, selective application of conformal coating materials with viscosities less than 100 centipoise. Programmable applicator modes – spots, lines, and area coverage – provide powerful coating results that fit your specific process needs.

Easy Coat® software creates process synergy between the applicator and platform design through routines and validation steps that can be used to define the optimal start and stop points during production.



SC-204 Non-Circulating  
Film Coater

The Core SC-204/205 includes one nozzle, one 1-gallon fluid reservoir, one applicator, and one manual pressure regulator with gauge. To optimize the Prime SC-204/205 Film Coater Fluid System for your production, you have a choice of two nozzles and two fluid reservoirs of either 1- or 5-gallon capacity. Fluid pressure is controlled electronically through Easy Coat software.

The SC-204/205 Film Coater Fluid Systems are also available in Dual-Simultaneous configurations.

The SC-204/205 Film Coater Applicators are intended for use with the Select Coat® SL-940 conformal coating system.

## Select Coat® SC-204/205 Film Coater Specifications

Film pattern width: 6.35 to 19.05 mm (0.25 to 0.75 in.)

Masking required: no

Material viscosity: under 100 cPs

Application thickness:

Solvent-based materials: 0.50 to 3 mils

100-percent solids materials: 4 to 8 mils

Edge tolerance:  $\pm .762$  mm ( $\pm 0.03$  in.)

Transfer efficiency: over 99%

Coating velocity: 130 to 510 mm/sec (5 to 20 in./sec)

Typical fluid dispense pressure: 103 to 413 kPa (15 to 60 psi)

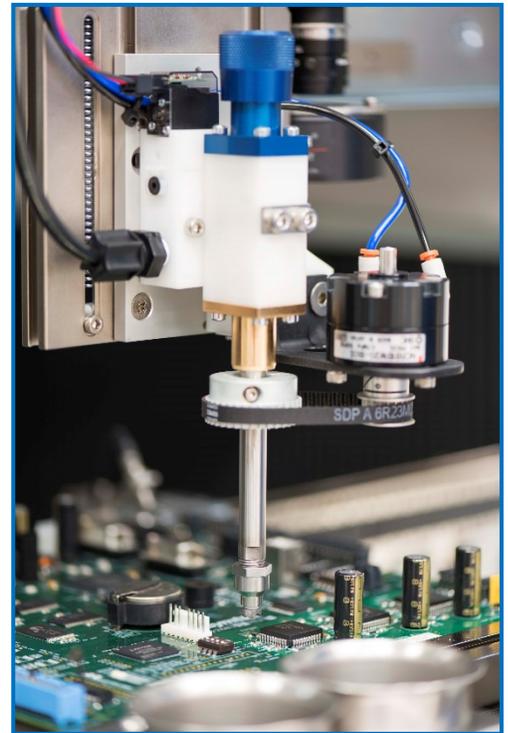
Pattern width: 6.35 to 19.05 mm (0.25 to 0.75 in.)

### Featured Options

Fifth-Axis Tilt

Laser Fan Width Control

Dual-Simultaneous Programmable Pitch



SC-205 Non-Circulating  
Film Coater with optional  
Fifth-Axis Tilt

### Fifth-Axis Tilt – Additional Benefits

Fifth-axis tilt allows the film coater nozzle to be rotated and tilted to access hard-to-reach areas of the product. Programmers can easily set and modify the rotate and tilt parameters for an applicator within Easy Coat® software.

- Ideal for coating vertical surfaces and underneath components
- The nozzle can tilt at 30 degrees, and the mechanism can be rotated in 4 positions – in 90-degree increments (0, 90, 180, and 270) to direct the fan pattern to the left, right, front or back to coat all four sides of a component
- The nozzle is fully integrated into the applicator assembly and can be installed horizontally for a narrow coating pass when it is tilted or vertically to achieve vertical area coverage
- Tilting of the nozzle as opposed to tilting the entire applicator eliminates the need for a direct line of sight and provides optimal agility during the conformal coating process

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### Dual Simultaneous – Additional Benefits

With the dual-simultaneous configuration, the SL-940 system can coat two parts (multiple-up) at the same time. Processing two parts in parallel significantly improves the throughput, while maintaining high yield. The actual conformal coating process time is reduced by 50%, so that throughput performance can be significantly increased – especially when conducting a high takt time conformal coating process with few overhead movements.

Two of the same applicators are installed and operate simultaneously. When there is no need for simultaneous conformal coating, Easy Coat® software allows the programmer to disable the second applicator as part of the programming.

- Coat two parts at once – reducing overall cycle time
- Enable the second applicator as needed
- Fully adjustable pitch



Dual-Simultaneous Programmable Pitch

**For more information,  
visit our website to  
locate your local  
representative or  
contact your regional  
office:**

[nordsonasymtek.com](http://nordsonasymtek.com)  
[info@nordsonasymtek.com](mailto:info@nordsonasymtek.com)

#### North America

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Chennai

**Nordson ASYMTEK**  
**+1.760.431.1919**  
**2747 Loker Avenue West**  
**Carlsbad, CA USA 92010-6603**

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