

TECHNICAL DATA SHEET

Levon[™] SD300 Slot-Die Coater (300 × 300 mm substrate)

300 × 300 mm substrate area · 360 × 360 mm coating platform · 0.001 mm positioning accuracy · 0–10 mL injection-pump capacity control · contact detection



Levon[™] SD300 Slot-Die Coater (300 × 300 mm substrate) — Representative Configuration

The Levon[™] SD300 Slot-Die Coater (300 × 300 mm substrate) is a slot-die coater with integrated injection-pump control, contact detection and a vacuum adsorption platform. Image shown for reference; final configuration is confirmed in the quotation.

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Revision Date **10/21/2026**

SECTION I

Product Overview

Levon™ SD300 Slot-Die Coater (300 × 300 mm substrate) is a slot-die coater with a compatible substrate area of 300 × 300 mm, a 360 × 360 mm coating platform and integrated injection-pump control with a capacity-control range of 0–10 mL.

The SD300 has auto tool alignment, a granite platform and dual vertical-axis servo motors for automatic adjustment. Z-axis speed control is 0.001–20 mm/s with a stroke of 0–50 mm and a synchronous repeatability of ±0.002 mm; Y-axis speed control is 0.002–50 mm/s with a stroke of 0–450 mm; the positioning accuracy of both axes is 0.001 mm. The SD300 provides integrated control for an injection (syringe) pump, with capacity control of 0–10 mL and output speed control of 0–1000 µL/s. Contact detection has a resolution of ±1 µm and an accuracy of 1 µm. The platform has a vacuum adsorption function with a standard hole size of 2 mm (minimum 1 mm, customizable), and the compatible substrate thickness is 0.05–10 mm. The SD300 has an equipment power of 800 W and a power input of AC 200–240 V, single-phase (for the 220 V model); the gas interface is a rear-panel outlet with a 6 mm outer diameter. The unit measures 1000 × 700 × 680 mm (W × D × H), requires installation dimensions of 1100 × 800 × 780 mm (W × D × H), weighs 150 kg and is shipped in carton packaging.

SECTION II

Core Advantages

- **Auto tool alignment** Auto tool alignment of the coating tool head.
- **Dual vertical-axis servo motors** Dual vertical-axis servo motors for automatic adjustment; Z-axis positioning accuracy of 0.001 mm.
- **Contact detection** Contact detection resolution of ±1 µm and contact detection accuracy of 1 µm.
- **Granite platform** Granite platform with a coating platform area of 360 × 360 mm.
- **Integrated injection-pump control** Integrated injection-pump control: 0–10 mL capacity control and 0–1000 µL/s output speed control.
- **Vacuum adsorption** Vacuum adsorption function; standard hole size 2 mm (minimum 1 mm, customizable).

SECTION III

Specifications

Technical data — SD300

Specifications	
Parameter	Specification
Brand	Levon™ by ACS Material
Product Name	Levon™ SD300 Slot-Die Coater (300 × 300 mm substrate)
Model	SD300
SKU #	LVSD3000
Product type	Slot-die coater
Compatible substrate area	300 × 300 mm
Compatible substrate thickness	0.05–10 mm
Coating platform area	360 × 360 mm
Platform	Granite platform with vacuum adsorption function
Vacuum adsorption holes	Standard hole size 2 mm (minimum 1 mm, customizable)
Tool alignment	Auto tool alignment
Vertical-axis drive	Dual vertical-axis servo motors, automatic adjustment
Equipment power	800 W
Power input	AC 200–240 V, single-phase (for the 220 V model)
Gas interface	Rear-panel outlet, 6 mm outer diameter
Dimensions [W × D × H]	1000 × 700 × 680 mm
Installation dimensions	1100 × 800 × 780 mm (W × D × H)
Weight	150 kg
Packing	Carton packaging
Warranty	1-year product warranty

Motion, dispensing and contact detection — SD300

Motion, dispensing and contact detection	
Parameter	Specification
Z-axis speed control	0.001–20 mm/s
Z-axis positioning accuracy	0.001 mm
Z-axis stroke control	0–50 mm
Z-axis synchronous repeatability	±0.002 mm
Y-axis speed control	0.002–50 mm/s
Y-axis positioning accuracy	0.001 mm
Y-axis stroke control	0–450 mm
Injection pump capacity control	0–10 mL
Injection pump output speed control	0–1000 µL/s
Contact detection resolution	±1 µm
Contact detection accuracy	1 µm

Scope of delivery

- **Standard configuration:** one SD300 main unit, carton packaging.
- **Utilities and scope** — power input (AC 200–240 V, single-phase, for the 220 V model) and the gas interface are listed in the specifications; the coating head and injection-pump configurations and the scope of supply are confirmed in the quotation.

SECTION IV**Applications**

For laboratory slot-die coating on substrates with a compatible substrate area of 300 × 300 mm and a thickness of 0.05–10 mm, on a 360 × 360 mm coating platform. For a compatible substrate area of 200 × 200 mm in a smaller unit (820 × 600 × 680 mm), see the SD200.

Product value: slot-die coating on substrates with a compatible substrate area of 300 × 300 mm and a thickness of 0.05–10 mm, with integrated injection-pump control and contact detection.

Revision Date: 10/21/2026

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