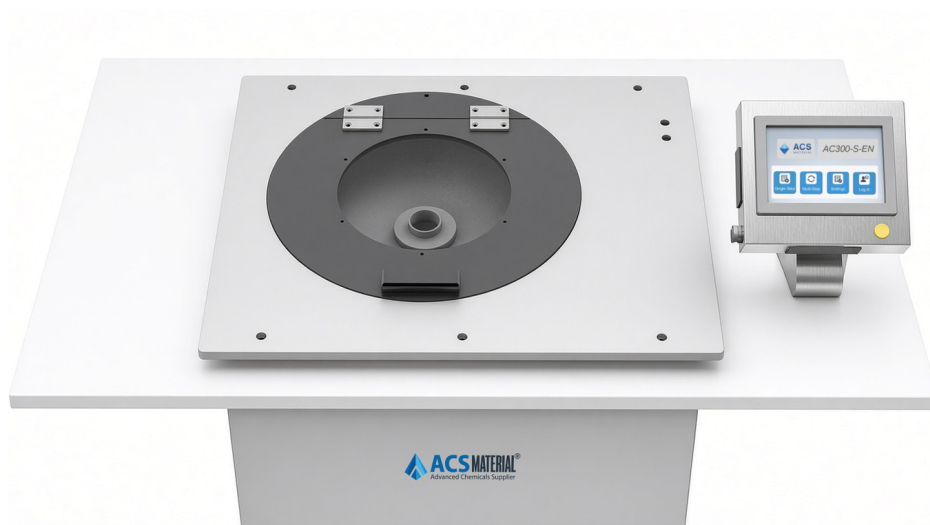


TECHNICAL DATA SHEET

Levon™ AC300-S-EN Servo Spin Coater

Servo motor drive · up to 12-inch (300 mm) wafers · 5,000 rpm (no load) · 1,000 rpm/s (no load) · digital vacuum display



Levon™ AC300-S-EN Servo Spin Coater — Representative Configuration

The Levon™ AC300-S-EN Servo Spin Coater is a servo-driven spin coater for oversized and heavy substrates up to 12-inch wafers. Image shown for reference; final configuration is confirmed in the quotation.

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Revision Date **10/20/2026**

SECTION I

Product Overview

Levon™ AC300-S-EN Servo Spin Coater is a servo-driven spin coater for oversized and heavy substrates up to 12-inch (300 mm) wafers, with PLC control, a 7-inch full-color touchscreen, a maximum speed of 5,000 rpm (no load) and a maximum acceleration of 1,000 rpm/s (no load).

The AC300-S-EN has a stainless steel alloyed Teflon inner cavity and a stainless steel housing, precision vacuum pressure regulation with a real-time digital vacuum display, and handles fragments smaller than 1 cm up to standard 12-inch wafers. BSR and EBR functions and splash-proof cover washing and developing functions can be added, and custom solutions are available for larger substrate sizes, heavy-duty substrates and chamber vacuum specifications. The published product drawing also lists table panel and groove depth dimensions of 767 × 656.5 × 375 mm.

SECTION II

Core Advantages

- **Servo motor drive** Servo motor drive.
- **Chamber and housing** Stainless steel alloyed Teflon inner cavity, stainless steel housing.
- **Vacuum regulation and display** Precision vacuum pressure regulation with a real-time digital vacuum display for instant readout of the current vacuum level.
- **Washing and developing add-on** Splash-proof cover washing and developing functions can be added to meet custom needs.
- **PLC control, 7-inch touchscreen** Industrial design with PLC control and 7-inch full-color touchscreen operation.
- **Up to 12-inch (300 mm) wafers** Capable of handling oversized/heavy substrates, from fragments smaller than 1 cm up to standard 12-inch (300 mm) wafers.
- **BSR and EBR** BSR and EBR functions can be added for industrial use.
- **Custom solutions** Custom solutions are available for larger substrate sizes, heavy-duty substrates and chamber vacuum specifications.

SECTION III

Specifications

Technical data — AC300-S-EN

Specifications	
Parameter	Specification
Brand	Levon™ by ACS Material
Product Name	Levon™ AC300-S-EN Servo Spin Coater
Model	AC300-S-EN
SKU #	LVAC3SEN
Product type	Servo spin coater
Maximum speed	5,000 rpm (no load)
Speed resolution	±1 rpm
Maximum acceleration	1,000 rpm/s (no load)
Maximum rotation time	3,000 s
Rotation time resolution	0.1 s
Substrate size range	Fragments smaller than 1 cm to standard wafers up to 12 inches
Drive	Servo motor drive
Control and operation	PLC control, 7-inch full-color touchscreen
Chamber and housing	Stainless steel alloyed Teflon inner cavity, stainless steel housing
Vacuum	Precision vacuum pressure regulation; real-time digital vacuum display
Vacuum input requirement	0.06–0.09 MPa; minimum vacuum flow rate >15 L/min
Options	BSR and EBR functions; splash-proof cover washing and developing functions
Custom solutions	Larger substrate sizes, heavy-duty substrates, chamber vacuum specifications

Technical data — AC300-S-EN (continued)

Specifications	
Parameter	Specification
Dimensions [W × D × H]	707 × 596.5 × 273 mm
Table panel and groove depth dimensions [W × D × H]	767 × 656.5 × 375 mm
Packing	Wooden case
Warranty	1-year product warranty

Uniformity data — AC300-S-EN

Uniformity data				
Wafer size	Within-wafer	Wafer-to-wafer	Film thickness	Photoresist
4-inch	±0.65%	±0.22%	1470 nm	AZ1500 (20 CP)
6-inch	±0.76%	±0.91%	1320 nm	AZ1500 (20 CP)
8-inch	±0.62%	±1.39%	2260 nm	AZ1500 (20 CP)
12-inch	±1.16%	±0.70%	490 nm	AZ1500 (4.4 CP)
Note	Values apply only to the listed wafer sizes, film thicknesses and photoresists.			

Scope of delivery

- **Standard configuration:** one AC300-S-EN main unit.
- **Optional, not included** — BSR and EBR functions; splash-proof cover washing and developing functions; custom substrate and chamber vacuum specifications. Vacuum supply 0.06–0.09 MPa, >15 L/min is an external utility supplied by the user.

SECTION IV

Applications

For spin coating oversized or heavy substrates up to 12-inch (300 mm) wafers with servo drive, PLC/touchscreen recipe control and precision vacuum regulation. Application areas include thin-film research for perovskite solar cells and organic optoelectronic semiconductor devices.

Product value: 12-inch substrate capability, stainless steel housing with Teflon inner cavity, digital vacuum display and BSR/EBR and developing add-ons.

Revision Date: 10/20/2026

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