

TECHNICAL DATA SHEET

Levon™ EZ6-S Benchtop Spin Coater

BLDC motor with MCU control · 100–12,000 rpm · 100–30,000 rpm/s · 10 programs × 10 steps · 7-inch touchscreen



Levon™ EZ6-S Benchtop Spin Coater — Representative Configuration

The Levon™ EZ6-S Benchtop Spin Coater is a touchscreen-operated benchtop spin coater with a powder-coated metal enclosure and a vacuum and lid safety interlock. Image shown for reference; final configuration is confirmed in the quotation.

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SECTION I

Product Overview

Levon™ EZ6-S Benchtop Spin Coater is a benchtop spin coater with an industrial BLDC motor system under MCU control, a 7-inch full-color touchscreen HMI, a rotation speed range of 100–12,000 rpm and an adjustable acceleration range of 100–30,000 rpm/s.

The EZ6-S stores 10 spin programs with 10 steps for each program (10 programs × 10 steps), with a maximum spin time of 3,000 s at 0.1 s resolution. It has a powder-coated metal enclosure, specialized anti-resin-infiltration and anti-resin-clogging features, and a vacuum and lid safety interlock system. Three kinds of chuck (10 mm, 25 mm and 2-inch) are supplied, the unit can be configured for AC 110 V or AC 220 V, and it can be upgraded with a single-channel precision metering dispensing system.

SECTION II

Core Advantages

- **Industrial BLDC motor with MCU control** Industrial BLDC motor system with MCU control; rotation speed range 100–12,000 rpm with 1 rpm resolution.
- **7-inch touchscreen HMI** 7-inch full-color touchscreen HMI operation; 10 programs × 10 steps.
- **Powder-coated metal enclosure** Powder-coated metal enclosure; dimensions: 295 × 386 × 250 mm (W × D × H).
- **Anti-resin-infiltration design** Specialized anti-resin-infiltration and anti-resin-clogging features.
- **Vacuum and lid safety interlock** Vacuum and lid safety interlock system.
- **Dispensing upgrade** Upgradeable single-channel precision metering dispensing system.

SECTION III

Specifications

Technical data — EZ6-S

Specifications	
Parameter	Specification
Brand	Levon™ by ACS Material
Product Name	Levon™ EZ6-S Benchtop Spin Coater
Model	EZ6-S
SKU #	LVEZ6S00
Product type	Spin coater
Rotation speed range	100–12,000 rpm
Spin speed resolution	1 rpm
Adjustable acceleration range	100–30,000 rpm/s
Max spin time	3,000 s
Time resolution	0.1 s
Programs	10 spin programs with 10 steps for each program
Motor and control	Industrial BLDC motor system with MCU control
Operation	7-inch full-color touchscreen HMI
Enclosure	Powder-coated metal enclosure
Safety	Vacuum and lid safety interlock system
Chucks	Three kinds of chuck: 10 mm, 25 mm, 2-inch
Power supply	AC 110 V or AC 220 V (choose one)
Option	Upgradeable single-channel precision metering dispensing system
Dimensions [W × D × H]	295 × 386 × 250 mm
Weight	12 kg
Packing	Carton packaging
Warranty	1-year product warranty

Uniformity data — EZ6-S

Uniformity data				
Wafer size	Within-wafer	Wafer-to-wafer	Film thickness	Photoresist
4-inch	±0.53%	±1.09%	1350 nm	AZ1500 (20 CP)
6-inch	±1.20%	±1.89%	4400 nm	SPR220-4.5 (123 CP)
Note Values apply only to the listed wafer sizes, film thicknesses and photoresists.				

Accessories — Chucks

Accessories	
Accessory	Description
Chucks (10 mm, 25 mm, 2-inch)	Three kinds of chuck supplied in the standard configuration: 10 mm, 25 mm and 2-inch.

Scope of delivery

- **Standard configuration:** one EZ6-S main unit (AC 110 V or AC 220 V, as ordered) with three kinds of chuck: 10 mm, 25 mm and 2-inch.
- **Optional, not included** — single-channel precision metering dispensing system (upgrade).

SECTION IV

Applications

For programmable spin coating on a benchtop with touchscreen recipe control, acceleration up to 30,000 rpm/s and a vacuum and lid safety interlock. Application areas include thin-film research for perovskite solar cells and organic optoelectronic semiconductor devices.

Product value: 100–12,000 rpm, 10 programs × 10 steps on a 7-inch touchscreen, anti-resin-infiltration features and a single-channel dispensing upgrade path.

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