

## KW-4C-I

### ADVANCED SPIN COATER

The KW-4C-I expands upon the standard architecture with an elevated maximum speed of 12,000 RPM and a critical Lid Interlock mechanism. Engineered for process versatility, it introduces adjustable vacuum adsorption force to securely handle delicate or flexible substrates without deformation. Complete with fluid intrusion alarms and real-time vacuum monitoring, it ensures high-yield performance in stringent laboratory environments.



#### AT A GLANCE

Max Substrate	Ø 150 mm (6")
Speed Range	50 – 12,000 rpm
Safety Feature	Lid Interlock
Vacuum Setting	Adjustable Adsorption
Interface	4.3" Touch Screen

#### Adjustable Vacuum Adsorption

Enables precise tuning of the vacuum force, securely holding standard wafers while preventing mechanical stress or deformation on flexible substrates.

#### Lid Interlock Safety

Integrates a cover-opening protection function that prevents motor operation while the lid is open, ensuring strict operator safety.

#### High-Speed Motor Drive

Capable of reaching speeds up to 12,000 RPM with bidirectional rotation, supported by a real-time vacuum loss auto-stop mechanism.

#### Robust Hardware Safeguards

Actively monitors and issues alarms for substrate detachment and fluid intrusion, preserving the integrity of internal electronics.

## Technical Specifications

Process Capabilities	
Substrate Compatibility	5 mm up to Ø 150 mm (6 inches)
Speed Range	50 – 12,000 rpm
Acceleration Profile	10 – 10,000 rpm/s (Adjustable)
Rotation Direction	Bidirectional (Forward / Reverse)
Adjustable Vacuum Force	YES
Speed Stability	± 1 rpm
Spin Coating Uniformity	± 1 %
Control System & Interface	
Human-Machine Interface (HMI)	4.3-inch Touch Screen
Stylus	BAMBOO Resistance Pen (Standard)
Communication Interface	USB (Compatible with wireless mouse/keyboard; suitable for glovebox integration)
Data Storage	Unlimited recipes (Standard: 10 speed steps per recipe)
Step Time	0 – 10,000 seconds per step
Data Protection	Power-down memory protection function (Default)
Power & Vacuum System	
Power Supply (Spin Coater)	AC 100–250 V, 1-Phase, 50/60 Hz
Power Consumption (Coater)	200 W
Power Supply (Vacuum Pump)	AC 220V Standard / AC 110V Optional
Vacuum Pump Model	SC-550V (350 W)
Pumping Speed / Max Vacuum	≥ 60 L/min / -85 kPa
Facilities & Mechanical Data	
Dimensions: Coater Unit (W×D×H)	210 mm × 220 mm × 160 mm
System Weight	10 kg (Coater) / 9 kg (Pump)
Acoustic Level	≤ 55 dB
Operating Environment	0 - 40 °C / < 85% RH
Warranty	1 Year

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