

KW-4B-I

KEYPAD SPIN COATER WITH ADJUSTABLE VACUUM

The KW-4B-I is a manual spin coating system engineered with a durable tactile keypad interface. Incorporating a secure fluid isolation design, it features adjustable vacuum adsorption force with real-time suction display, providing precise substrate handling for delicate or flexible materials up to 120 mm.



AT A GLANCE

Max Substrate **Ø 120 mm (5")**

Speed Range **50 – 10,000 rpm**

Interface **Tactile Keypad**

Vacuum Setting **Adjustable Adsorption**

Program Steps **2-Step Configurable**

Fluid Isolation Architecture

Mechanical seals prevent aggressive process chemicals and solvents from entering the drive motor compartment, safeguarding internal electronics.

Adjustable Vacuum Adsorption

Provides adjustable suction pressure with an active real-time force display to prevent structural deformation of flexible or thin substrates.

Multi-Stage Speed Profiles

Supports two independent, user-defined program steps per recipe for controlled thin-film deposition sequences.

Tactile Keypad Interface

Features robust, chemical-resistant mechanical buttons alongside independent dual LED digital displays for rotational speed and timing.

SETCAS ELECTRONICS CO., LIMITED

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Technical Specifications

Process Capabilities	
Substrate Compatibility	5 mm up to Ø 120 mm (5 inches)
Chucks type	Specially designed anti-intrusion vacuum chucks
Speed Range	50 – 10,000 rpm
Speed Stability / Uniformity	± 1 rpm / ± 1 %
Vacuum Adsorption Force	Adjustable adsorption force, real-time display of suction force
Control System & Interface	
Control Method	Set speed and time with the keypad
Display Technology	Dual LED (Rotational Speed & Countdown display)
Data Storage	Supports 2 user-defined program steps for each recipe
Step Time	0 – 999 seconds per step
Power & Vacuum System	
Power Supply (Spin Coater)	AC 100–250 V, 1-Phase, 50/60 Hz
Power Consumption (Coater / Pump)	200 W / 180 W
Power Supply (Vacuum Pump)	AC 220V Standard / AC 110V Optional
Pumping Speed / Max Vacuum	≥ 60 L/min / -85 kPa
Facilities & Mechanical Data	
Dimensions: Coater Unit (W×D×H)	210 mm × 220 mm × 160 mm
Dimensions: Pump Unit (L×W×H)	185 mm × 100 mm × 210 mm
System Weight	10 kg (Coater) / 4.5 kg (Pump)
Operating Environment	0 - 40 °C / < 85% RH / Acoustic Level: ≤ 55 dB
Warranty	1 Year

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