

KW-4S

THERMAL SPIN COATER

The KW-4S is a specialized thermal spin coating system designed with a built-in heating element beneath the chuck, providing adjustable baking temperatures up to 200°C. Configured with a solid PTFE processing chamber and a 4.3-inch resistive touch interface, it provides robust chemical compatibility and integrated process monitoring for substrates up to 50 mm.



AT A GLANCE

Max Substrate	Ø 50 mm (2")
Speed Range	50 – 10,000 rpm
Heating Range	RT – 200°C
Chamber Material	Solid PTFE
Interface	4.3" Touch Screen

Integrated Hotplate Module

Features a built-in substrate heating element within the chuck assembly, supporting real-time bake-out processing up to 200°C.

Substrate Detachment Alarms

Equipped with active hardware-level safety features that automatically detect substrate suction drop, triggering alarms and stopping rotation.

Solid PTFE Chamber

The entire inner cavity is constructed from Polytetrafluoroethylene (PTFE) to resist aggressive chemicals, resist thinners, and processing solvents.

Flexible Communication

Supports external keyboard/mouse connectivity and USB-based recipe transfers, allowing straightforward integration into glovebox environments.

SETCAS ELECTRONICS CO., LIMITED

Address: FLAT 1215, 12/F, HARBOUR INDUSTRIAL CENTRE, 10 LEE HING STREET, AP LEI CHAU, HKSAR
WhatsApp: +1 (858) 733-4202 | Website: www.setcaslab.com | Sales: sales02@setcas.hk / Support: support@setcas.com

Technical Specifications

Process Capabilities	
Substrate Compatibility	5 mm up to Ø 50 mm (2 inches)
Speed Range	50 – 10,000 rpm
Acceleration Profile	10 – 10,000 rpm/s (Adjustable)
Motor Speed Stability / Uniformity	± 1 rpm / ± 1 %
Heating / Temperature Range	Room Temperature to 200°C
Rotation Direction	Bidirectional (Forward / Reverse)
Control System & Interface	
Human-Machine Interface (HMI)	4.3-inch Touch Screen
Stylus	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)
Data Protection	Default with power-down protection
Power & Vacuum System	
Power Supply (Spin Coater)	AC 100–250 V, 1-Phase, 50/60 Hz
Power Consumption (Coater / Pump)	200 W / 350 W
Vacuum Pump Model	SC-550V (350 W) - 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
Chamber Material	Solid PTFE inner cavity
System Weight	10 kg (Coater) / 9 kg (Pump)
Operating Environment	0 - 40 °C / < 85% RH / Acoustic Level: ≤ 55 dB
Warranty	1 Year

SETCAS ELECTRONICS CO., LIMITED

Address: FLAT 1215, 12/F, HARBOUR INDUSTRIAL CENTRE, 10 LEE HING STREET, AP LEI CHAU, HKSAR
WhatsApp: +1 (858) 733-4202 | Website: www.setcaslab.com | Sales: sales02@setcas.hk / Support: support@setcas.com