

KW-4E-III

MULTI-CHANNEL AUTOMATED SPIN COATER

The KW-4E-III represents the flagship thermal spin coater within the E-series, featuring a comprehensive 4-channel automated fluid dispense system. It incorporates an advanced adjustable vacuum adsorption module complete with real-time pressure monitoring and a vacuum leakage recovery system, providing uncompromising substrate safety and precise multi-chemical processing capabilities.

AT A GLANCE

Fluid Dispense	4-Channel Automated
Vacuum Control	Adjustable + Leak Recovery
Thermal Range	RT – 200°C
Max Substrate	Ø 200 mm (Opt. 600 mm)
Remote Control	Bluetooth PC Integration



4-Channel Automated Dispense

Equipped with a 4-way fluid dispensing and developing system, accommodating complex multi-stage chemical recipes and integrated thermal curing sequences.

Intelligent Vacuum Recovery

Features adjustable vacuum adsorption with real-time pressure display. The proprietary leakage recovery function actively compensates for vacuum drops, ensuring absolute substrate security.

Integrated Thermal Processing

Achieves 100°C in 1 second and 200°C in 2 seconds, streamlining the transition between dispensing, high-speed spin coating, and thermal baking.

Solid PTFE Processing Chamber

The processing chamber is fully machined from solid Polytetrafluoroethylene (PTFE), ensuring complete resistance to corrosive chemicals and dispensing solvents.

Technical Specifications

Process Capabilities	
Automated Fluid Dispensing	4-Channel Automated Dispense/Develop System (Standard)
Vacuum Adsorption System	Adjustable Force + Real-Time Display + Leakage Recovery
Substrate Compatibility	5 - 200 mm (Standard) / Up to 600 mm (Optional)
Speed Range	10 – 12,000 rpm (Standard) / 10 – 20,000 rpm (Optional)
Acceleration Profile	10 – 30,000 rpm/s (Adjustable)
Rotation Direction	Bidirectional (Forward / Reverse)
Thermal Processing Module	
Temperature Range	Room Temperature to 200°C
Heating Rate	To 100°C in 1s ; To 200°C in 2s
Cooling Rate	To Room Temperature in 2s
Control System & Interface	
Human-Machine Interface (HMI)	8-inch Touch Screen
Wireless Capability	Bluetooth Communication + Free PC Remote Control Software
Data Storage	Unlimited recipes (10 speed steps per recipe standard)
Step Time	0 – 10,000 seconds per step
Facilities & Mechanical Data	
Power Supply (Spin Coater)	AC 100–250 V, 1-Phase, 50/60 Hz (650 W)
Vacuum Pump Model	SC-550V (350 W) / AC 220V Std, 110V Opt
Pumping Speed / Max Vacuum	≥ 60 L/min / -85 kPa
Dimensions: Coater Unit (W×D×H)	340 mm × 500 mm × 250 mm
Chamber Material	Solid PTFE
System Weight	18 kg (Coater) / 9 kg (Pump)
Operating Environment	0 - 40 °C / < 85% RH / Acoustic Level: ≤ 55 dB