

KW-4E-II

AUTOMATED DISPENSE SPIN COATER

The KW-4E-II is a highly integrated spin coating and developing system equipped with a standard 2-channel automated fluid dispense module. Combining rapid thermal processing (up to 200°C), a solid PTFE chamber, and programmable dispense sequences, it ensures highly repeatable quantitative coating and developing cycles for pilot production environments.

AT A GLANCE

Max Substrate	Ø 200 mm (Opt. 600 mm)
Fluid Dispense	2-Channel Automated
Thermal Range	RT – 200°C
Remote Control	Bluetooth PC Integration
Chamber Material	Solid PTFE



Automated Dispense Module

Standard configuration includes a 2-way automatic fluid dispensing and developing system, supporting precision quantitative control for complex chemical applications.

Integrated Thermal Processing

Achieves 100°C in 1 second and 200°C in 2 seconds, streamlining the transition between fluid dispense, spin coating, and thermal curing.

Wireless PC Remote Control

Equipped with an integrated Bluetooth module and complimentary PC software, allowing operators to execute dispense recipes remotely.

German-Sourced Drive Motor

Utilizes a high-precision imported German motor supporting bidirectional rotation and acceleration profiles up to 30,000 RPM/s.

Technical Specifications

Process Capabilities	
Substrate Compatibility	5 - 200 mm (Standard) / Up to 600 mm (Optional)
Automated Fluid Dispensing	2-Channel Automated Dispense/Develop System (Standard)
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
Communication Interface	USB / RS485 / Bluetooth (Standard configuration)
Data Storage	Unlimited recipes (15 speed steps per recipe standard, or unlimited optional)
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