

KW-4E-I

WIRELESS THERMAL SPIN COATER

Building upon the KW-4E thermal architecture, the KW-4E-I integrates Bluetooth wireless connectivity and dedicated PC communication software. This allows for seamless remote parameter configuration and real-time process monitoring, significantly minimizing operator exposure during high-temperature baking or toxic chemical deposition processes.

AT A GLANCE

Max Substrate	Ø 200 mm (Opt. 600 mm)
Speed Range	10 – 12,000 rpm (Opt. 20k)
Thermal Range	RT – 200°C
Remote Control	Bluetooth & PC Software
Interface	8" Touch Screen



Wireless PC Remote Control

Equipped with an integrated Bluetooth module and complimentary PC software, enabling operators to remotely control the spin coater and monitor thermal profiles in real-time.

Integrated Thermal Processing

Achieves 100°C in 1 second and 200°C in 2 seconds, with a 2-second rapid cooling rate, enabling integrated spin coating and thermal curing.

German-Sourced Drive Motor

Utilizes a high-precision imported German motor supporting bidirectional rotation (CW/CCW) and extreme acceleration up to 30,000 RPM/s.

Solid PTFE Processing Chamber

The entire processing chamber is machined from solid Polytetrafluoroethylene (PTFE), ensuring complete resistance to corrosive chemicals.

Technical Specifications

Process Capabilities	
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)
Speed Stability / Uniformity	± 1 rpm / ± 1 %
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 (Standard) / RS485 (Standard) / Bluetooth (Standard on KW-4E-I)
Data Storage	Unlimited recipes (15 speed steps per recipe standard, or unlimited optional)
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