

## KW-4Q-I

### AUTOMATED LARGE-AREA SPIN COATER

The KW-4Q-I is an advanced automated spin coating and developing system engineered for large-area substrates up to 300 mm (12 inches). It incorporates two automated swing arms for four-way liquid dispensing alongside dual-channel Edge Bead Removal (EBR) capabilities to ensure uniform and complete chemical processing.



#### AT A GLANCE

Max Substrate **Ø 300 mm (12")**

Fluid Dispense **Automated Dual Arm**

Edge Bead Removal **2-Way EBR (Front/Back)**

Communication **Bluetooth, RS485 & USB**

Interface **8" Touch Screen**

#### Automated Dual-Arm Dispensing

Equipped with two independent automatic swing arms supporting programmable, multi-channel dispensing and developing procedures.

#### Edge Bead Removal (EBR)

Integrates a 2-way solvent-based Edge Bead Removal system to clean up the front and back outer margins of processed substrates.

#### High-Inertia Torque Motor

Powered by a 2.0 kW motor assembly providing sufficient rotational torque to drive heavy substrates smoothly up to 6,000 RPM.

#### Wireless Remote Control

Includes an integrated Bluetooth module and PC terminal communication software for automated recipe execution and monitoring.

## Technical Specifications

<b>Process Capabilities</b>	
<b>Substrate Compatibility</b>	200 mm to 300 mm (8 inches to 12 inches)
<b>Speed Range</b>	10 – 6,000 rpm
<b>Acceleration Profile</b>	10 – 1,000 rpm/s (Adjustable)
<b>De-edging Function (EBR)</b>	2-way EBR (Front and back edge removal)
<b>Speed Stability / Uniformity</b>	± 1 rpm / ± 1 %
<b>Automatic glue dispensing</b>	YES (Two automatic swing arms, supporting 4-way coating/developing)
<b>Control System &amp; Interface</b>	
<b>Human-Machine Interface (HMI)</b>	8-inch Touch Screen
<b>Stylus</b>	Stylus BAMBOO resistance pen (standard)
<b>Communication Interface</b>	USB (standard) / RS485 (optional) / Bluetooth (standard)
<b>Data Storage</b>	Unlimited recipes (15 steps per recipe standard, or unlimited optional)
<b>Step Time / Data Protection</b>	0 – 10,000 seconds per step / Default with power-down protection
<b>Power &amp; Vacuum System</b>	
<b>Power Supply / Consumption</b>	AC 100–250 V, 1-Phase, 50/60 Hz / 2 kW
<b>Vacuum Pump Model / Power</b>	SC-550V / 350 W
<b>Pumping Speed / Max Vacuum</b>	≥ 60 L/min / -85 kPa
<b>Facilities &amp; Mechanical Data</b>	
<b>Dimensions: Coater Unit (W×D×H)</b>	550 mm × 550 mm × 350 mm
<b>System Weight</b>	50 kg (Coater) / 9 kg (Pump)
<b>Operating Environment</b>	0 - 40 °C / < 85% RH / Acoustic Level: ≤ 55 dB
<b>Warranty</b>	1 Year

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