

KW-4X

INDUSTRIAL AUTOMATED SPIN COATER

The KW-4X is a high-power industrial spin coating and developing platform supporting substrates from 5 mm to 200 mm. Powered by a 5.0 kW drive system, it integrates 4-channel automated fluid dispense and develop lines with suck-back functionality alongside an advanced 360-degree positioning mechanical arm.

AT A GLANCE

Applicable Substrate **5 - 200 mm**

Speed Range **10 – 12,000 rpm**

Fluid Dispense **4-Way Auto-Dispense**

Robotic Arm **0 - 360° Positioning**

Chamber Material **Solid PTFE**

Standard configuration includes a 4-channel fluid dispense and developing module with dedicated suck-back control to prevent nozzle dripping.

Robotic Arm Substrate Handling

Features a 360-degree programmable mechanical arm for precise dispense-head positioning across the substrate area.

Edge Bead Removal Upgradability

Can be optionally configured with a dual-nozzle Edge Bead Removal (EBR) mechanical arm for front and back side substrate cleaning.

Solid PTFE Processing Compartment

Features a premium solid PTFE chamber liner providing exceptional chemical compatibility with aggressive process reagents and solvents.



Multi-Channel Automated Dispense

SETCAS ELECTRONICS CO., LIMITED

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Technical Specifications

Process Capabilities	
Applicable Substrate	5 - 200 mm
Glue Coating / Developing Function	4-way automated dispense/develop with suck-back function
Speed Adjustment Range	10 – 12,000 rpm
Acceleration Range	10 – 10,000 rpm/s (Adjustable)
Motor Speed Stability / Uniformity	± 1 rpm / ± 1 %
Automation & Controls	
Robotic Arm	0 - 360 Degrees Arbitrary Positioning
Edge Bead Removal (EBR)	Optional (With 2 EBR Front and Back Side Edge Removal Mechanical Arm)
Wafer Holder / Human-Machine Interface	Special Anti-Glue Ingress Wafer Holder / 8-Inch Touchscreen
Data Protection	Default with Power Failure Protection Function
Power & Vacuum System	
Power Supply / Power (Coater)	AC 100–250 V, 1-Phase, 50/60 Hz / 5 kW
Vacuum Pump Type / Power	SC-550V Oil-Free Pump / 350 W
Power Supply (Vacuum Pump)	AC 220V (Standard) / AC 110V (Optional)
Pumping Speed / Max Vacuum	≥ 60 L/min / -85 kPa
Facilities & Mechanical Data	
Dimensions: Coater Unit (W×D×H)	550 mm × 550 mm × 350 mm
Chamber Material	Solid PTFE
System Weight	50 kg (Coater) / 9 kg (Pump)
Operating Environment	0 - 40 °C / < 85% RH (Non-condensing) / Acoustic Level: ≤ 55 dB
Warranty Period	1 Year

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