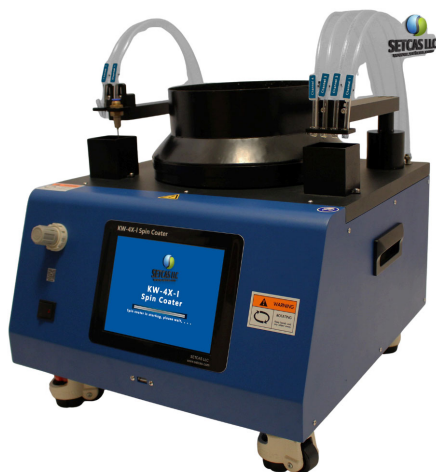


## KW-4X-I

### AUTOMATED INDUSTRIAL SPIN COATER

The KW-4X-I is a heavy-duty, large-format industrial spin coating system built for substrate handling from 5 mm to 200 mm. Driven by a 5.0 kW motor assembly, it integrates 4-way programmable dispensing, a 360-degree positioning mechanical arm, and dual-nozzle Edge Bead Removal (EBR) to provide repeatable, high-throughput coating.



#### 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**

#### Multi-Channel Automated Dispense

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.

#### Double-Sided Edge Bead Removal

Equipped with a dual-nozzle Edge Bead Removal (EBR) mechanical arm for simultaneous front and back side edge cleaning.

#### Solid PTFE Processing Compartment

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

## Technical Specifications

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

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