

KW-4Q

LARGE-AREA WAFER SPIN COATER

The KW-4Q is a heavy-duty spin coating system engineered specifically for large-area substrates up to 300 mm (12 inches). Driven by a high-torque 2 kW motor, it supports forward and reverse rotation with adjustable acceleration profiles up to 1,000 RPM/s, controlled via an integrated 8-inch high-resolution touch interface.



AT A GLANCE

Max Substrate	Ø 300 mm (12")
Speed Range	10 – 6,000 rpm
Acceleration	10 – 1,000 rpm/s
Motor Power	2.0 kW
Interface	8" Touch Screen

Large-Area Wafer Processing

Designed to accommodate heavy, large-diameter silicon substrates and square plates up to 300 mm (12 inches) with high rotational stability.

High-Torque Drive Motor

Features an industrial-grade 2.0 kW motor providing robust torque output to handle high rotational inertia profiles reliably.

Bidirectional Rotation

Supports programmable clockwise (CW) and counterclockwise (CCW) rotation sequences to enhance coating uniformity on complex surfaces.

Extended Communication Interfaces

Equipped with standard USB and RS485 communication protocols, supporting external peripherals and remote parameter controls.

Technical Specifications

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

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