

SPIN COATER BROCHURE

SETCAS LLC

Address: 12546 CABEZON PLACE, SAN DIEGO 92129 CA, USA

Tel: +1 858-537-7743 Email: paw@live.com

MISSION

Create high-end equipment Provide satisfied services

CLTURE

Respect Create Contibute Share

Company profile:

SETCAS LLC is a new high-tech enterprise, mainly engaged in the research and development of semiconductor devices and electronic products.

The company specializes in mechanical design, software development, automatic control , and industrial design technologies.

KW-4A spin coater



Product Feature

- Prevent the cleaners and solvents travelling down the motor;
- Set speed and time with the keypad, convenient and accurate.
- Take button and start button interlock, prevent the substrate flying out ;
- Add the Take/Absorb button to control the start and stop of the pump, reduce the pump noise pollution and extend the pump life.

Performance Parameters

- Spin-coater power: 100w, spin-coating uniformity: $\pm 2\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- The motor is closed-loop control, there are two speed sections: high-speed range: 1000-8500rpm, low-speed range: 500-8500rpm;
- Set time of each speed section separately, time range of high-speed: 0-999s, time range of low-speed: 0-999s;
- Motor speed stability: $\pm 1\%$, timing accuracy: $\pm 20\text{ppm}$;
- Speed indicator range: 0-9990rpm, precision: $\pm 10\text{rpm}$; Time indicator range 0-999s, precision: $\pm 20\text{ppm}$;
- Voltage: 100-240 VAC, single phase;
- Dimensions: 215mm (W) \times 240mm (D) \times 220mm (H) ;
- Product weight: spin coater, 9 kg; pump, 8.5kg;
- Substrate sizes: 5mm to 100mm round, 141mm \times 141mm square.

KW-4B spin coater



Product Feature

- Ultra wide speed range: 50-9990RPM;
- Acceleration: 10000RPM/S;
- Single button control motor start,pause,reset,automatic control vacuum on or off;
- The whole body is made of SUS304 stainless steel, which is resistant to acid, alkali and salt spray.

Performance Parameters

- Spin-coater power: 100w, spin-coating uniformity: $\pm 1\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- The motor is closed-loop control, there are two speed sections: high-speed range: 1000-9990rpm, low-speed range: 50-9990rpm;
- Set time of each speed section separately, time range of high-speed: 0-999s, time range of high-speed: 0-999s;
- Motor speed stability: $\pm 0.5\%$, timing accuracy: $\pm 20\text{ppm}$;
- Speed indicator range: 0-9990rpm, precision: $\pm 10\text{rpm}$; Time indicator range 0-999s, precision: $\pm 1\text{s}$;
- Voltage: AC100-240V, single phase;
- Dimensions: 215mm (W) \times 240mm (D) \times 220mm (H) ;
- Product weight: spin coater, 9 kg; pump, 8.5kg;
- Substrate sizes: 5mm to 100mm round, 72mm \times 72mm square.

KW-4BC spin coater



Product Feature

- full-color, 4.3-inch touch screen interface and display;
- Unlimited programs can be set and stored, every program can set up to 10 steps.
- The acceleration of the spindle can be adjusted.
- The structure preventing the chemical going to the spin motor;
- Alarm of insufficient adsorption, prevent the substrate flying out.
- Vacuum supply inspection and substrate lifting prompt;
- Save the recipe parameters on the screen in real-time.

Performance Parameters

- Spin-coater power: 200w, spin-coating uniformity: $\pm 1\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- Spin coater voltage: 100-250 VAC, single phase;
- Speed range: 1-10000rpm, resolution: 1rpm, stability: $\pm 0.1\%$;
- Speed adjustable range: 1-10000rpm/s;
- Unlimited recipes can be set and stored, every recipe can set up to 10 steps.
- Dimensions: 210mm (W) \times 240mm (D) \times 230mm (H);
- Weight: spin coater, 6.5kg; pump, 9kg;
- Substrate sizes: 5mm to 120mm round, 106mm \times 106mm square.

KW-4C spin coater



Product Feature

- full-color, 4.3-inch touch screen interface and display;
- USB port for wireless mouse and keyboard, remote operation can be implemented;
- Unlimited programs can be set and stored, every program can set up to 10 steps.
- The acceleration of the spindle can be adjusted.
- The structure preventing the chemical going to the spin motor;
- Alarm of insufficient adsorption, prevent the substrate flying out.
- Vacuum supply inspection and substrate lifting prompt;
- Save the recipe parameters on the screen in real-time.

Performance Parameters

- Spin-coater power: 200w, spin-coating uniformity: $\pm 1\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- Speed range: 1-10000rpm, resolution: 1rpm, stability: $\pm 0.1\%$;
- Speed adjustable range: 1-10000rpm/s;
- Unlimited recipes can be set and stored, every recipe can set up to 10 steps.
- Spin coater voltage: 100-250 VAC, single phase;
- Dimensions: 210mm (W) \times 240mm (D) \times 230mm (H);
- Weight: spin coater, 6.5kg; pump, 9kg;
- Substrate sizes: 5mm to 150mm round, 106mm \times 106mm square.

KW-4L spin coater



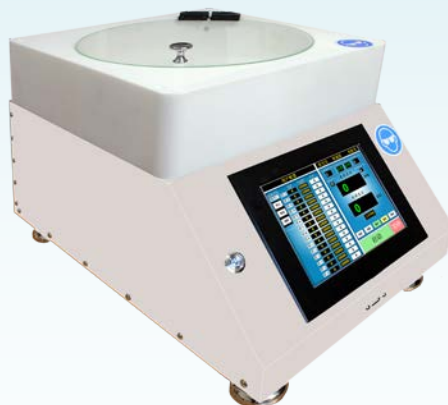
Product Feature

- The PTFE spin bowl, resistant to acid, alkali and corrosion. arc spin bowl bottom, easy for the drain of solvents;
- Emission function of the spin bowl waste gas;
- Free switching of motor forward and reversal;
- Prevent the cleaners and solvents travelling down the motor;
- Warning of insufficient adsorption; take button and start button interlock, prevents the substrate flying out;

Performance Parameters

- Full-color, 8-inch touch screen, bamboo stylus;
- Spin-coater power: 650w, spin-coating uniformity: $\pm 1\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- Speed range: 1-12000rpm, resolution: 1rpm, stability: $\pm 0.1\%$;
- Speed adjustable range: 1-10000rpm/s;
- Unlimited recipes can be set and stored, every recipe can set up to 15 steps.
- Voltage: 100-250 VAC, single phase;
- Dimensions : 340mm (W) \times 500mm (D) \times 250mm (H);
- Weight: spin coater, 23.5 kg; pump, 8.5kg;
- Substrate sizes: 5mm to 200mm round, 72mm \times 72mm square.

KW-4E spin coater



Product Feature

- The PTFE spin bowl, resistant to acid, alkali and corrosion. arc spin bowl bottom, easy for the drain of solvents;
- Emission function of the spin bowl waste gas;
- The spin bowl gas heating/cooling. heating/cooling temperature range: 0-200 °C , heating/cooling rate: 100°C/S;
- Free switching of motor forward and reversal;
- Prevent the cleaners and solvents travelling down the motor;
- Warning of insufficient adsorption; take button and start button interlock, prevents the substrate flying out;

Performance Parameters

- Full-color, 8-inch touch screen, bamboo stylus;
- Spin-coater power: 650w, spin-coating uniformity: $\pm 1\%$, pump power: 350w, pumping speed: $\geq 60\text{L}/\text{MIN}$;
- Speed range: 1-12000rpm, resolution: 1rpm, stability: $\pm 0.1\%$;
- Acceleration range: 1-10000rpm/s; Voltage: 100-250 VAC, single phase;
- Unlimited recipes can be set and stored, every recipe can set up to 15 steps.
- Dimensions: 340mm (W) \times 500mm (D) \times 250mm (H);
- Weight: spin coater, 23.5kg; pump, 8.5kg;
- Substrate sizes: 5mm to 200mm round, 72mm \times 72mm square.

• **KW series spin coater parameters comparison**

	KW-4A	KW-4B	KW-4BC	KW-4C	KW-4L	KW-4E
Prevent Glue						
Adjustable Acceleration						
Stainless Steel Body						
LCD Interface						
Programmable						
Communication Interface						
Mouse & Keyboard						
Adjustable Direction of Rotation						
Temperature Control						

Date	Version	Updates
15-8-2018	V2.0	Update error, etc.