

●Features:

1. This UV Coating Machine is equipped with UV curing and IR drying device.
2. Digital frequency converter speed control. And independent conveyor driven.
3. Larger diameter coating rollers makes the coating effect smoother & brighter.
4. Full coverage splash guards to protect from splashing.
5. Used vacuum airbed for maximum hold down the paper sheets on conveying.
6. UV magnetic leakage transformer with parallel capacitor design can better endure the voltage fluctuating impact.
7. Two level UV lamp power setting.
8. Easy access UV lamp chamber and replacement.
9. High velocity blower fan for cooling and exhaust.
10. Safety locker on all machine doors and covers.
11. Full coverage protection against UV radiation around the UV lamp chamber.
12. Lower temperature control on the UV lamp chamber surface.
13. Emergency stop switches at arms length throughout the machine .
14. Interlocks design prevents against misoperation.

● Applications:

VSGB-660M Small UV Coater (UV Coating Machine) is a new model developed and designed by our company and the American company Gala Coating. The machine features easy operation and outstanding performance. It is applicable to small format printed paper sheets coating and curing with UV or Water-base varnish.

●Benefits:

1. Coating rollers adopts synchronous belt with frequency conversion speed adjustment, stable and non vibrant.
2. Adopt reverse roll coating technology to make varnishing film more thin, more even and more smooth. Adopt extrusion roll coating technology to make the varnishing film more thick and more glossy.
3. Doctor blade plus liner can scrape steel rollers cleaner and protect the rollers from being damaged.
4. The surface temperature of the UV lamp chamber is under 38 °C, avoiding high-temperature scald.
5. UV shield is well designed, effectively avoid the UV ray leakage.
6. Use coating rollers of larger diameter to make coating effect smoother & brighter.
7. Stainless steel arc varnish groove at both ends of rollers can effectively prevent varnish oil from splashing and contaminate the machine rack.
8. The heatsink cover of the UV lamp uses the temperature switch control, so the super high-temperature fire accidents can be effectively under controlled.
9. Machine and electrics safety adopts electric circuit interlocks technique, avoiding security risks when misoperation.
10. Vacuum suction airbed under the lamp chamber of high temperature for paper sheet safe conveying and avoid fire risks.
11. The overall machine outer design and operation control design conforms with aesthetics and ergonomics.
12. The machine is equipped with magnetic leakage transformer, which is devised and modified from the imported equipment, with power-saving, high power utilization, low heat wasting, low noise, and to ensure that the high-pressure mercury lights work properly.
13. UV magnetic leakage transformer with parallel capacitor design can better endure the voltage fluctuating impact.

14. With variable control adopted for metering roll, oiling volumes for papers with different thickness can be controlled through different linear velocity, to make the paper smooth and glossy.

• **Technical Specification:**

Model	VSGB-660M
Max. Sheet Size	630×915 mm
Min. Sheet Size	150×210 mm
Sheet Weight	150~500 g/m ²
Speed	0~40 m/min
Power	12.0Kw
UV Lamp	1pcs×6.5Kw
IR Lamp	3pcs×1.2Kw
Weight	850 kg
Dimension	3250×1180×1230 mm
Application Rubber Roller Dia.	120mm
Metering Roller Dia.	80mm
Impression Roller Dia.	120mm

• **Options:**

Options	Model	Application
Touch Screen Control Panel	VSGB-660-TP	PLC control with touch screen
EM Air Knife (non-constant blow)	VSGB-660-EAK	Suitable for Min. 100 g/m ² sheets
UV Warming System	VSGB-660-WS	Reduce UV varnish viscosity
Sheets Counter	VSGB-660-SC	Preset qty & buzzer reminding

1. Touch Screen Control Panel: PLC control with touch screen, easy operation and more directly. When fault happens, it will alarm automatically and find out the fault cause quickly. On the touch screen, working status of the machine can be checked at any time. The standard machine use some buttons and switches to operate.

2. EM Air Knife: The option is composed of PLC Control, Encoders, Solenoid Valves, 2 PCS Air Pumps, an exhaust nozzle, 2 PCS Photo-electricity Sensors and Vacuum Suction Chamber which can achieve continuous and jog-style inflation. When feeding the paper to the first Photo-electricity Sensor, after the PLC getting this signal, the Air Knife System will start to blow air, this can make the paper difficult to be stucked on the rubber roller and can do about 100 g/m² sheets paper. Please kindly check the attached pictures for the Air Knife.

3. Sheets Counter: This system is used to preset the amount of paper, it is more general configuration in the fully automatic machine, when the user set the quantity what they need, the alarm will beep to remind the operator when reach the quantity, so it can save a lot of time to sort products.

4. UV Warming System: This system is used to reduce the viscosity of the UV oil and increase liquidity of the UV coating on the paper surface, thereby enhancing the beauty of the surface of the paper, usually for a relatively low temperature region.

• **Coating Technology:**

1. Metering Roller A adjustable on horizontal ---- Pre-tuning the varnish film thickness.
2. Metering Roller A adjustable on rotating speed ---- Fine-tuning the varnish film thickness.
3. Rubber Roller B adjustable on vertical ---- Fine-tuning the paper pressure.

4. Scraper D adjustable on front and rear ---- Fine-tuning the scraper tight and loose.
5. Scraper E adjustable on front and rear ---- Fine-tuning the scraper tight and loose.

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