



## Fully Automatic Roll-to-Roll Screen Printing Machine Series



## CAPAMA (SHANGHAI) MACHINERY CO., LTD.

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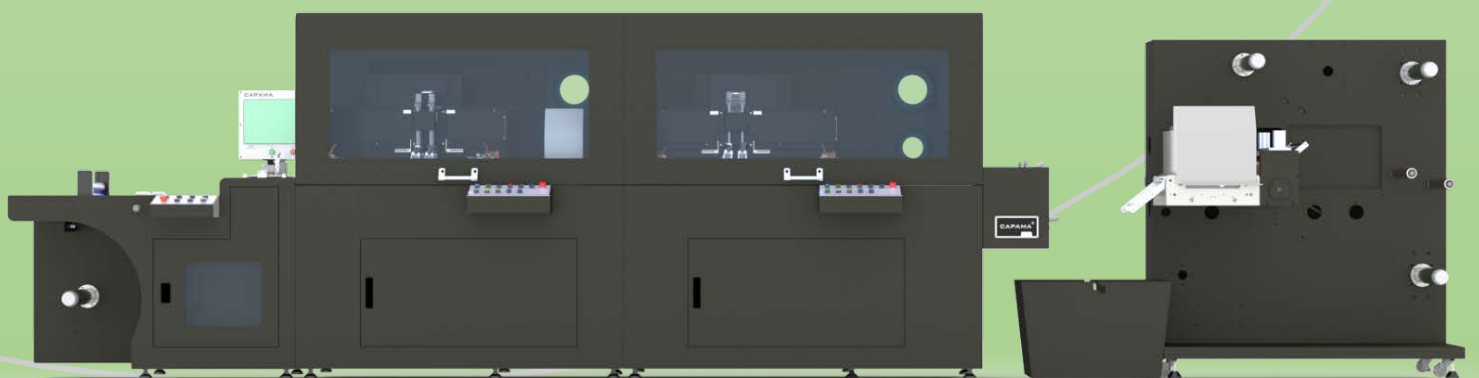
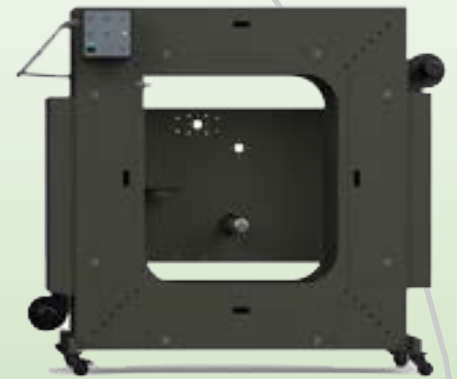
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Specifications & Configuration

Product Specifications

Specifications	RR-320	RR-520
最大纸宽 Max. web width	320 mm	520mm
最大印刷面积 (mm) Max. Printing Area	300(L) x 400(W)	500(L) x 650(W)
最大速度 Max. speed	0 ~ 6500RPH , imp / hr	0 ~ 6500RPH , imp / hr
最大排废直径 Max. Waste Removal Diameter	400(MM)	400(MM)
最大收放卷直径 Maximum Roll Diameter	650(MM)	650(MM)
最大覆膜直径 Max. Laminating Diameter	400(MM)	400(MM)
电力 power	3 相phase, 25a	3 相phase, 32a

Contact us to learn more about detailed parameters and configuration options. This series features a modular design, allowing flexible combination and expansion of printing units, and supports customized solutions tailored to your specific needs.

## Specifications & Configuration

- Modular design with multiple optional configurations that can be flexibly selected according to customer order structure.
- 1–N color units available for linking and networking, with non-standard customization supported.

Item	Remarks
Feeding Tension System	Continuous unwinding system, reduces defect rate of transparent materials
Feeding Dust Removal Device	Online dust removal
Material Storage Device	
Vacuum Suction Printing Base Plate	
Servo-Driven Material Pulling Device	Yaskawa X-series absolute encoder
Pulling Wheel	
Squeegee	
Multi-Layer Printing Mode	
Screen Frame	
Secondary Registration Sensor Device	SICK high-sensitivity color mark sensor
Human-Machine Interface (HMI)	10-inch large screen
Pneumatic Receiving Platform	
Special Photoelectric Sensor for Transparent Materials	Can sense even without pattern, ensuring smooth unwinding and rewinding
Servo-Driven Printing Unit	Yaskawa X-series absolute encoder
Semi-Automatic Mode Switching Function	Sheet printing mode
UV Curing Equipment	Optional single lamp, double lamp
Horizontal Rewinding Machine	Optional laminating unit
Protective Film Peeling Device	
Static Elimination Device	
Oven Cooling Air Device	Cooling after oven for rewinding
Protective Film Peeling Device	Tension control
Fully Enclosed Dust Cover for Printing Unit	Centralized exhaust reduces pollution
Horizontal Rewinding Machine with Laminating Device	Equipped with tension control
Dust Removal Device	
Corona Treatment Device	

Specifications & Configuration

Item	Remarks
Tunnel-Type Hot Air Drying Oven	Optional 20m, 30m, 50m, 80m drying tunnel
CCD Registration Platform	Micron-level visual registration high-precision printing platform
Anti-Scratch Platform	Dual pulling head high-speed machine
Film Printing Platform	0.02 and above film printing platform without line break
Oven Laminating Device	
Oven Slitting and Laminating Device	
Oven Laminating and Peeling Device	
Dual Rewinding Machine	For reverse winding, more accurate multi-color registration

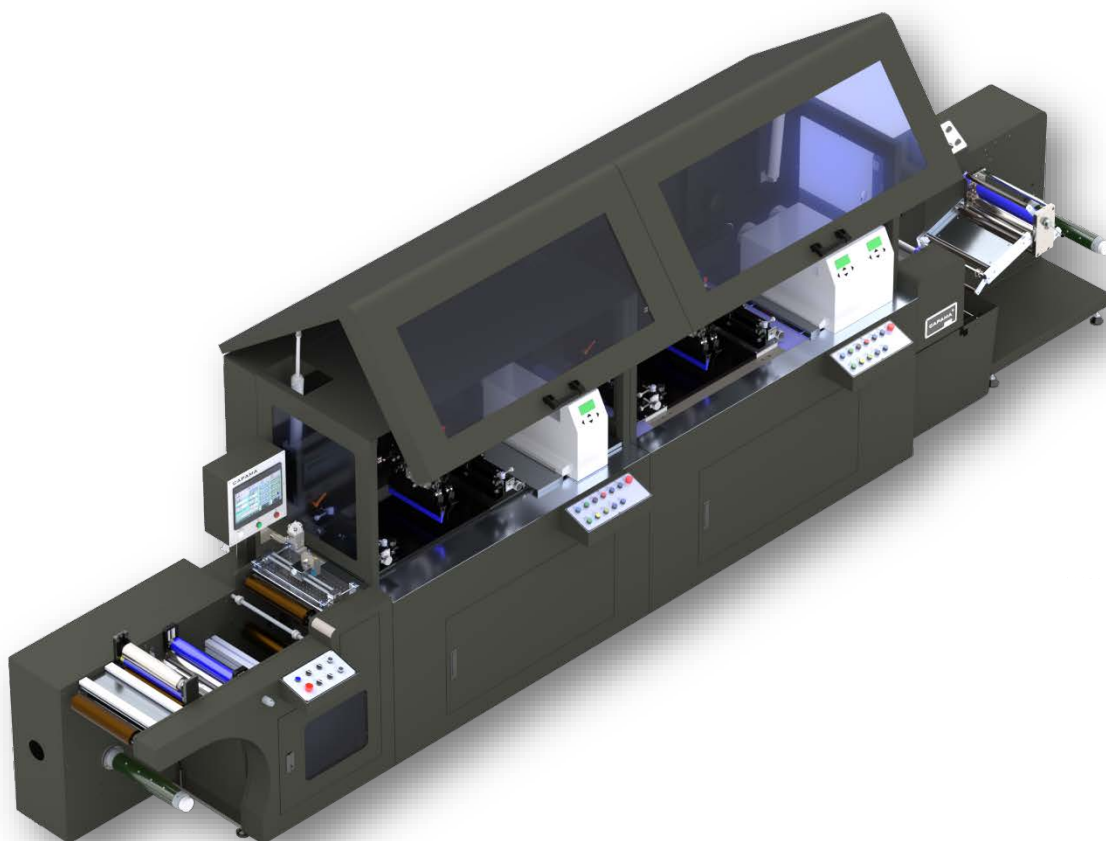
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## Equipment Features

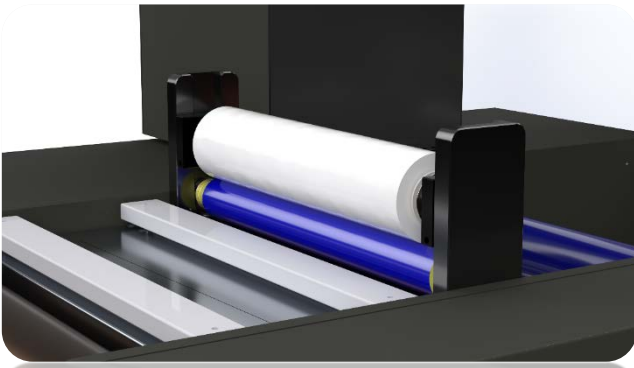
### Core Advantages & Innovative Features



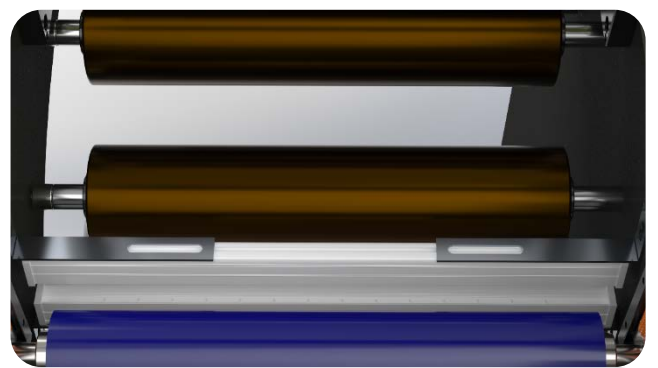
Full servo printing unit control system, printing speed and ink return speed freely adjustable  
Swing-arm type squeegee angle adjustment device for quicker adjustment  
Dovetail groove type screen frame movable for easy clamping of different size screens  
Squeegee head independently vertically liftable for easy replacement of squeegee and ink return blade  
Printing unit fully liftable for easy screen change and wiping, preventing ink leakage  
Squeegee and ink return blade pressure independently adjustable for long uninterrupted printing  
Japanese THK rails ensure high-speed operation and long-term stability of printing unit  
Secondary printing sensor frame adjustable for different printing size requirements  
Pneumatic punching device adjustable for more accurate secondary registration  
Pneumatic material receiving device prevents material slipping during changeover  
Automatic material depletion detection and shutdown system  
Fully enclosed design with centralized exhaust system; humidification system optional  
Optional roll/sheet mode for material thickness 0.02–15MM



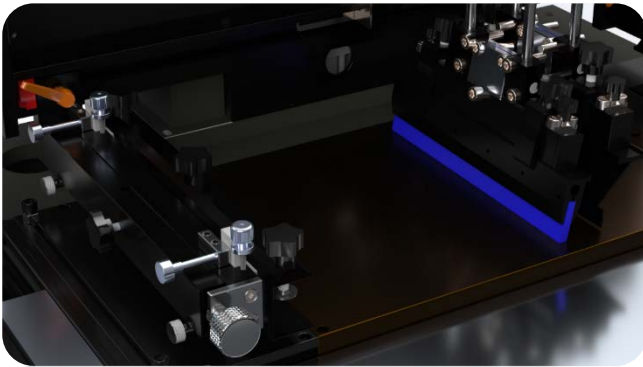
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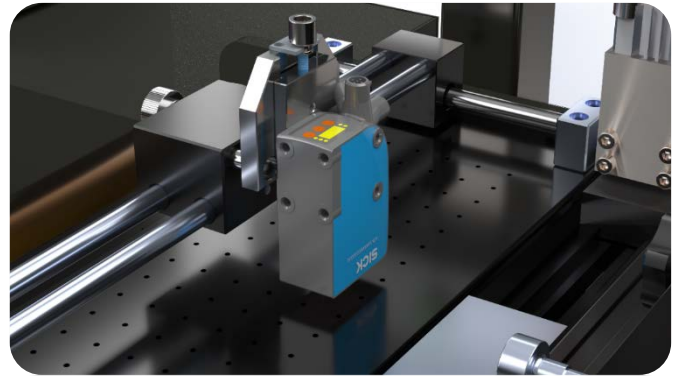
Online single/double-sided dust removal optional, effectively improving product yield.



Online double-sided static elimination optional, effectively solving static issues with film materials.



Excellent screen frame clamping design reduces setup and registration time.



High-sensitivity sensors from top brand SICK ensure precision.



Optional CCD visual alignment system meets high-precision micron-level color registration requirements.



Optional rewinding and laminating system for film application, release paper cutting and laminating.



## System Features

### Advanced Control System and Functions

#### Control Core

Independently developed with multiple software copyrights. Uses 10-inch large screen combined with motion control chip.

#### Adjustment Mode

【Linked/Separate Adjustment】 Unique linked mode switching meets different working condition DIY setting needs, maximizing productivity.



#### Production Control

Preset production quantity with auto-stop upon completion, and free switching between primary/secondary printing modes. The independently developed multi-layer printing mode ensures enhanced ink thickness and a more three-dimensional print appearance.

#### Independent Development

Multi-layer printing mode ensures thicker ink layer and more three-dimensional printing image.



#### Multi-Function Application

Independently developed roll-to-roll / sheet-fed modes enable flexible switching according to product requirements, capable of processing roll materials and sheets up to 15 mm thick.

#### Multi-Function Application

On-the-fly adjustment of printing origin position  
On-the-fly plate alignment  
Control and adjustment of multiple operational parameters to meet varied production requirements



## | Industry Applications and Samples

### | Industry Application Cases and Sample Showcase



#### 3D Imitation Hot Stamping

3D imitation hot stamping effect applied in daily chemicals, bags, liquor, etc.



#### Screen Printing Hot Stamping

Screen printing hot stamping effect widely used in various label processes; finer and more three-dimensional than traditional hot stamping.



#### Glitter Effect

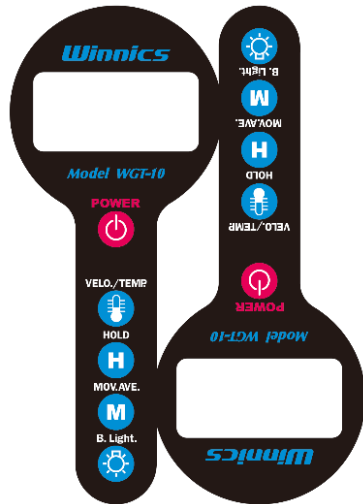
Glitter effect widely used in clothing, footwear, daily chemical self-adhesive processes.



#### Glow-in-the-dark Effect

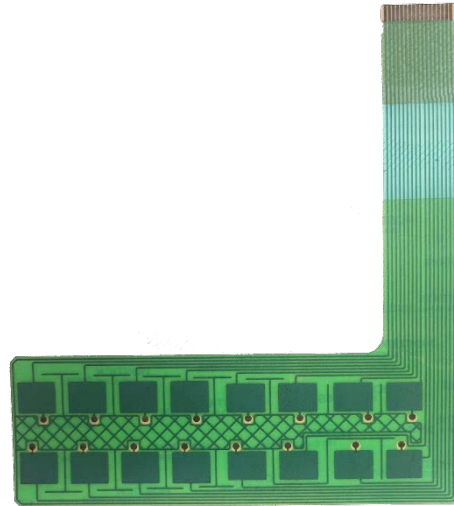
Glow-in-the-dark effect widely used in clothing, footwear, liquor packaging.

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## Electronics & Electrical Appliances

Labels, control panels – resistant to high temperature, oil, solvents, low temperature, UV, etc.



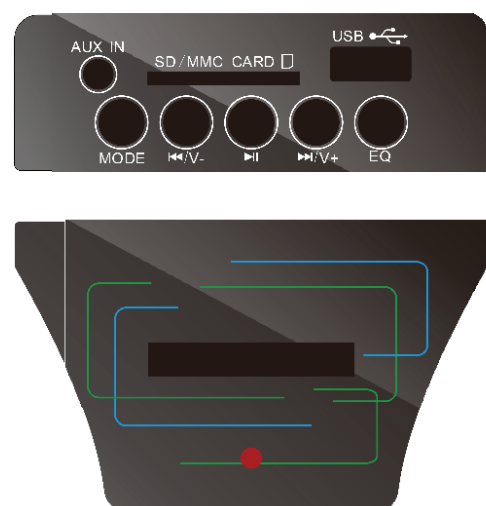
## FPCB Flexible Circuits

For computers, mobile phones, keyboards, various flexible cables and RFID.



## Battery Packaging

Meets high opacity, high whiteness, grid 3M adhesive, and lamination requirements.



## Appliance Nameplates

Widely used in various electrical equipment interfaces – oil-resistant, heat-resistant, high opacity, colorfast, non-peeling.

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## Foaming Effect

Faux suede, high-relief 3D effect widely used in clothing, bags, footwear, etc.



## Thermochromic Effect

Changes with temperature, applied in containers, decorations, etc.



Printing, water transfer printing, and heat transfer printing are widely used in clothing, footwear, and bags/luggage.

## After-sales Service

### Comprehensive After-sales Support & Service Guarantee



#### Warranty Policy

We provide an 18-month warranty and lifetime maintenance. You are not only purchasing equipment but also peace of mind and reliability.



#### Response Time

Respond to customer needs within 48 hours; provide on-site service based on distance.



#### Technical Support

Remote technical support and guidance; regular software updates and maintenance.



#### Contact Us

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Official Website: [www.capama.com](http://www.capama.com)