



Fully Automatic Roll-to-Roll Screen Printing Machine Series



CAPAMA (SHANGHAI) MACHINERY CO., LTD.

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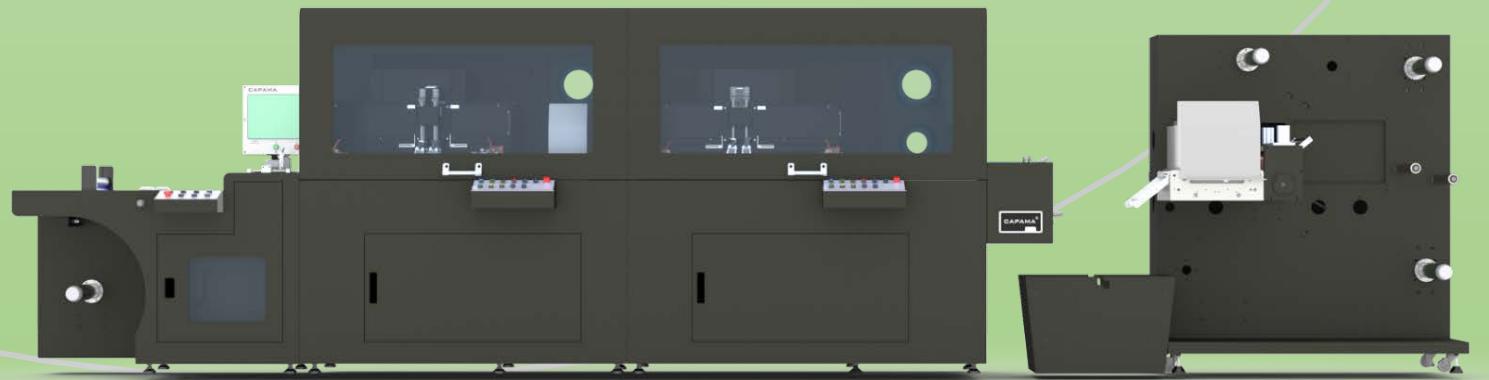
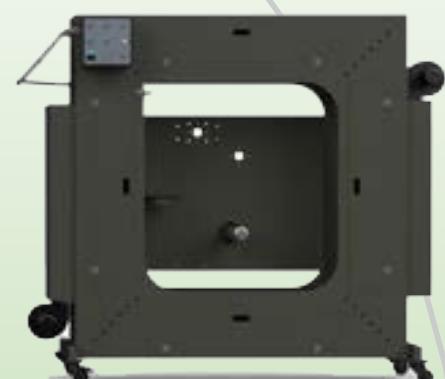
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Specifications & Configuration

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.

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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 |

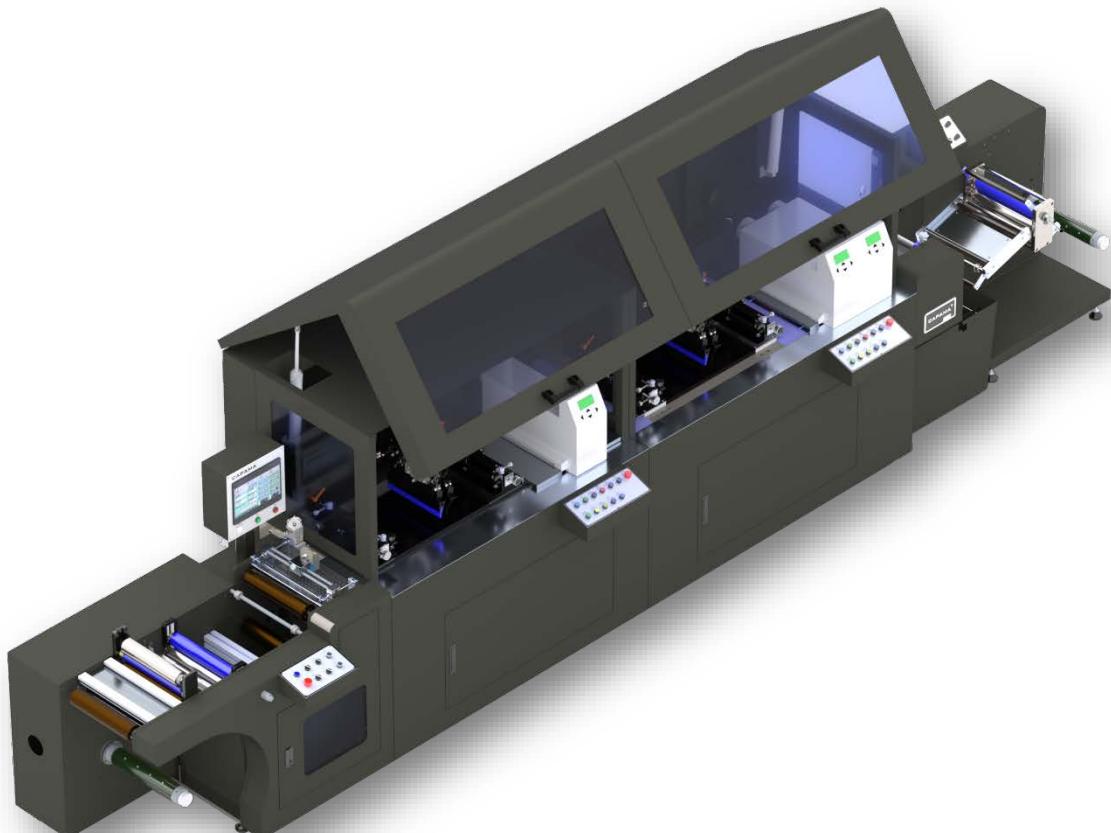
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Equipment Features

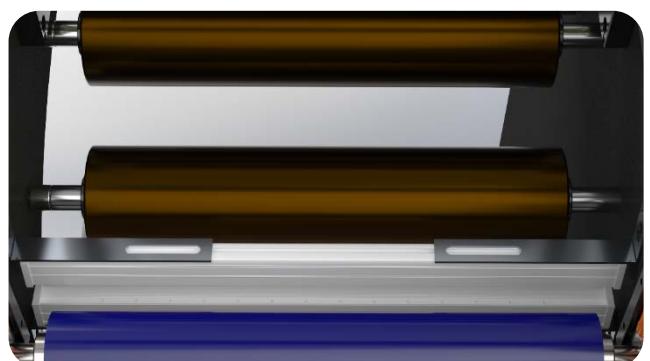
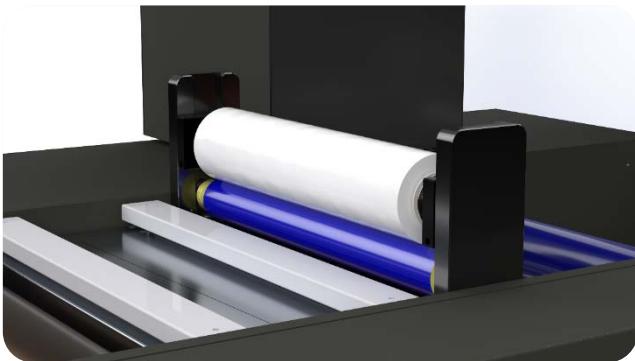
Core Advantages & Innovative Features



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

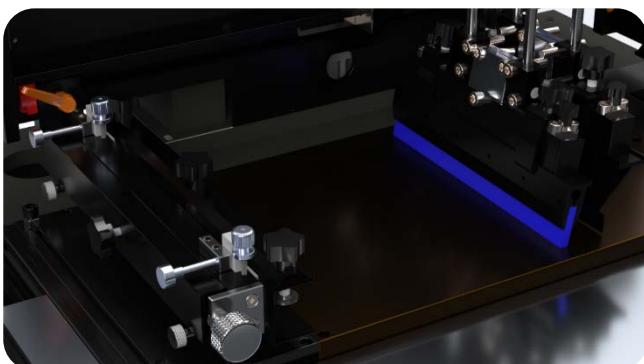


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Online single/double-sided dust removal optional, effectively improving product yield.

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

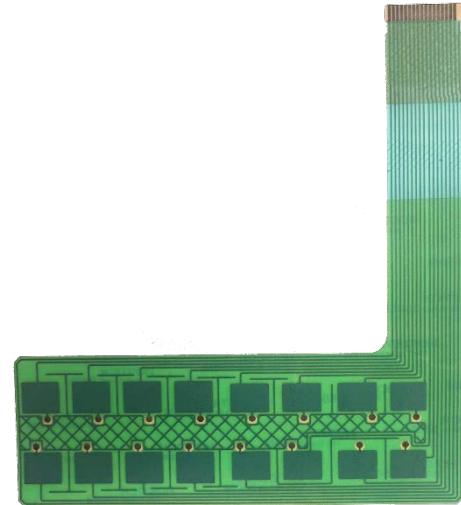
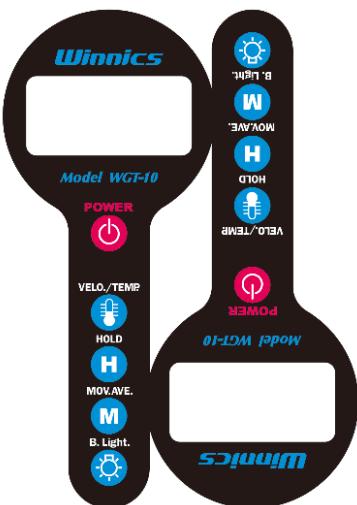
Glitter effect widely used in clothing, footwear, daily chemical self-adhesive processes.



Glow-in-the-dark Effect

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

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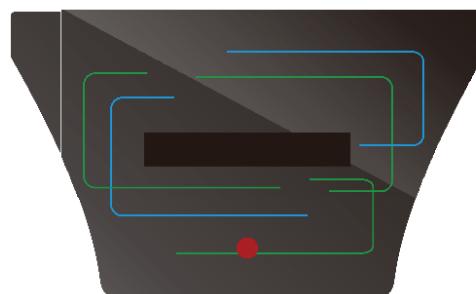


Electronics & Electrical Appliances

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.

Technical Support

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

Response Time

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

Contact Us

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