Fully Automatic Roll-to-Roll Screen Printing Machine Series

CAPAMA®

CAPAMA MACHINERY COMPANY LIMITED

CAPAMA MACHINERY COMPANY LIMITEDCAPAMA MACHINERY COMPANY LIMITED | No. 22, Lane 5050, Huyi Road, Jiading District, Shanghai, China
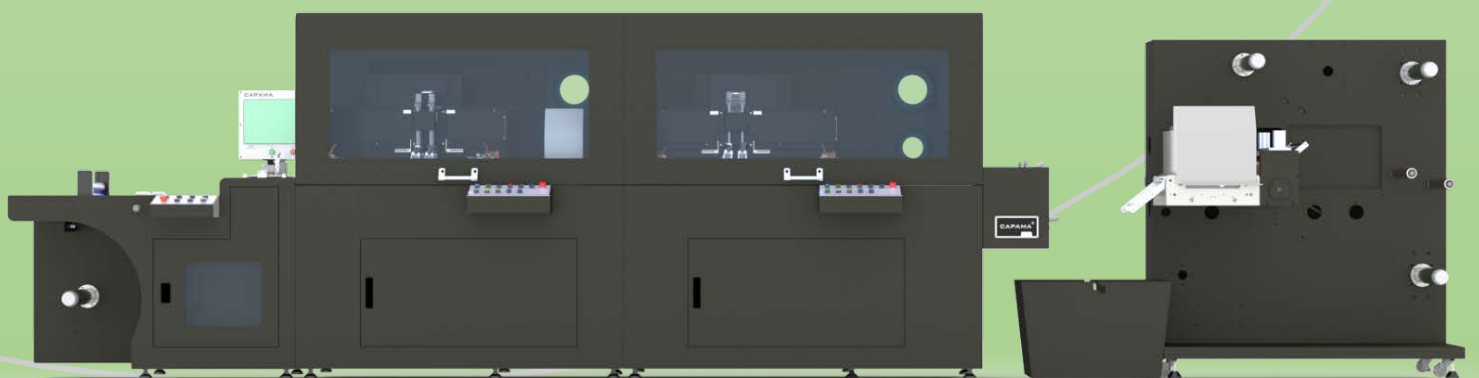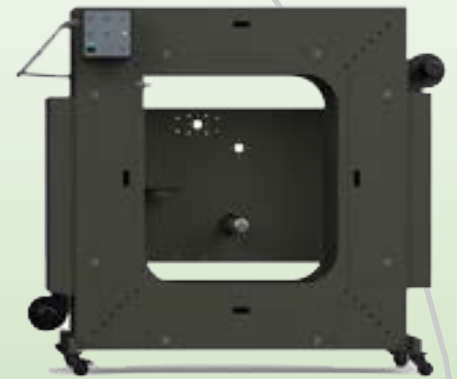E-MAIL： info@capama.com
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RR-320

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

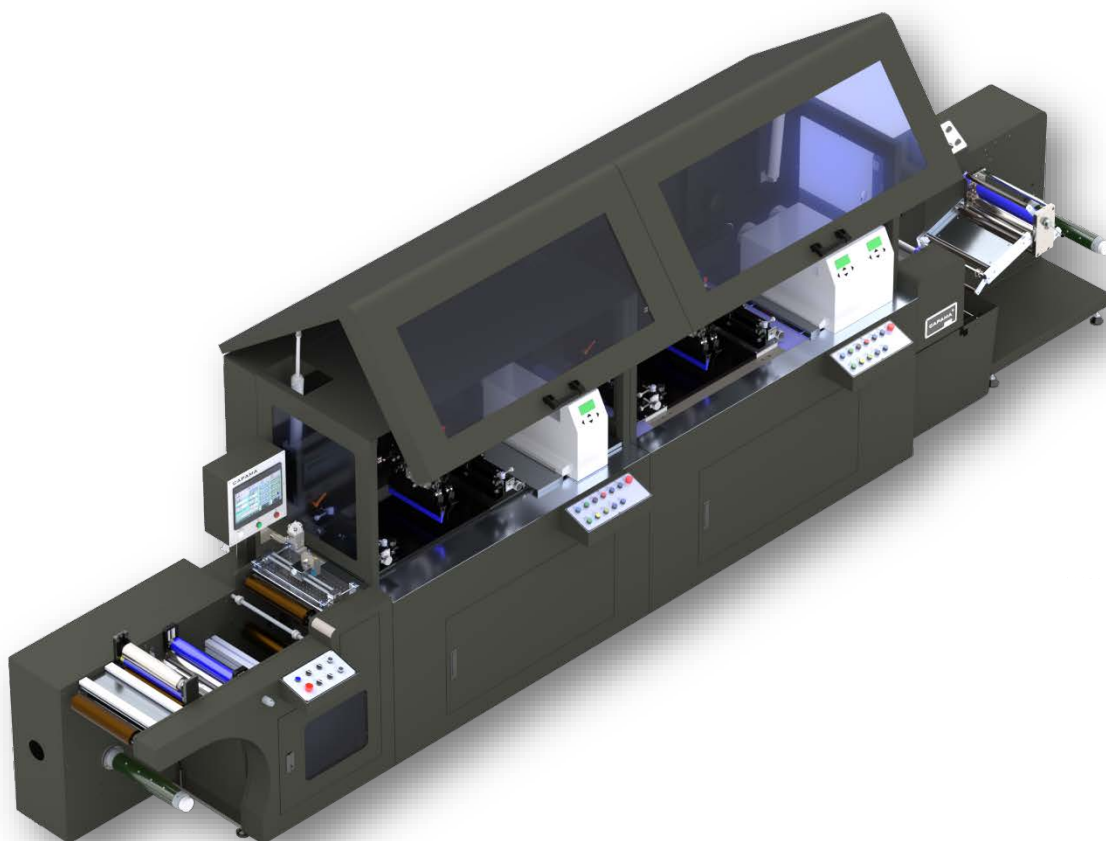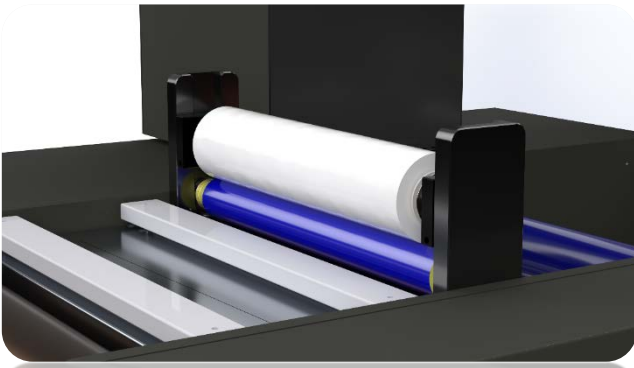| Item	Remarks
Tunnel-Type Hot Air Drying Oven	Optional 20m, 30m, 50m, 80m drying tunnel
CCD Registration Platform	Micron-level visual registration high-precision printing platform
Anti-Scratch Platform	Dual pulling head high-speed machine
Film Printing Platform	0.02 and above film printing platform 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

Equipment Features
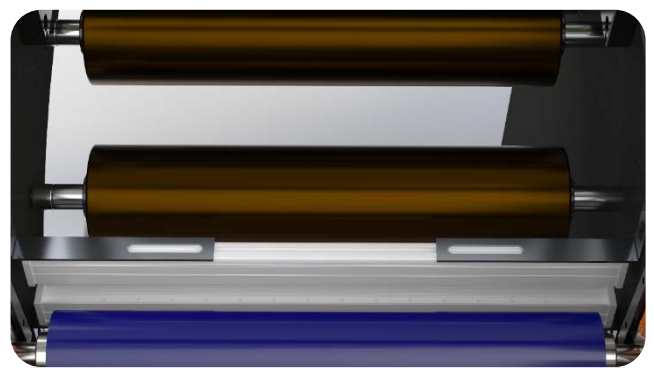
Core Advantages & Innovative Features

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

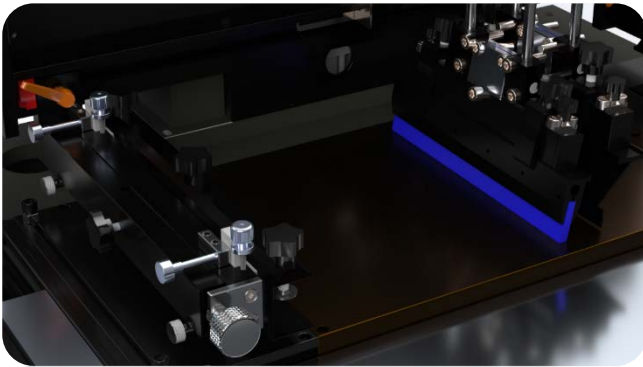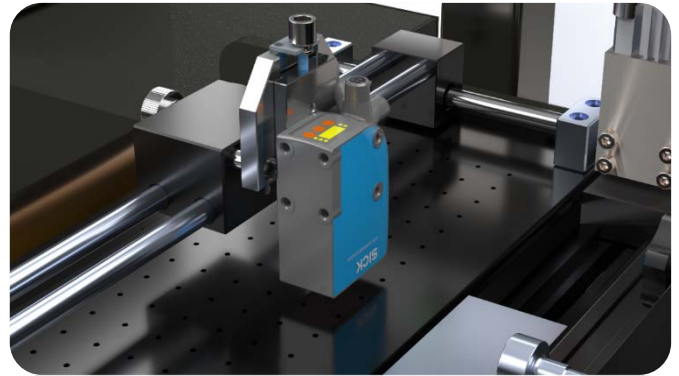Optional roll/sheet mode for material thickness 0.02–15MM

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

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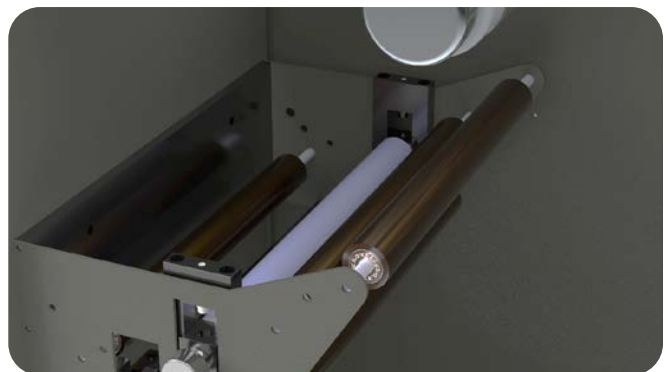

Excellent screen frame clamping design reduces setup and registration time.

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.
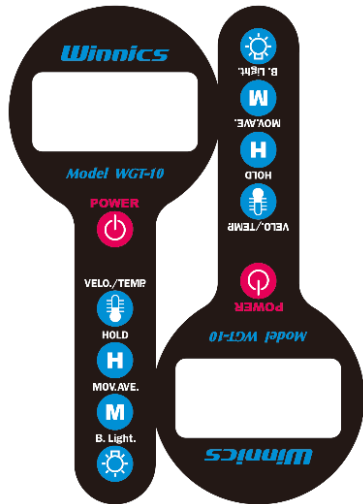

Glitter Effect
Glitter effect widely used in clothing, footwear, daily chemical self-adhesive processes.
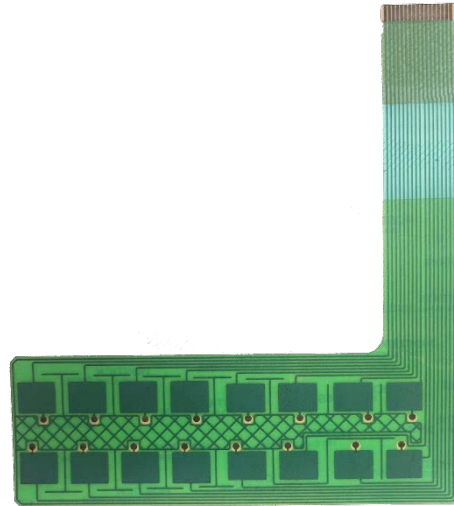

Glow-in-the-dark Effect
Glow-in-the-dark effect widely used in clothing, footwear, liquor packaging.

Electronics & Electrical Appliances
Labels, control panels – resistant to high temperature, oil, solvents, low temperature, UV, etc.
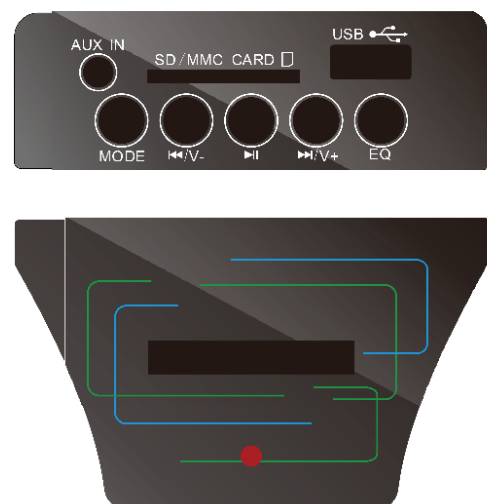

FPCB Flexible Circuits
For computers, mobile phones, keyboards, various flexible cables and RFID.

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.

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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