

R5000Pro

Ultra-wide Industrial Roll-To-Roll UV Printer



The R5000Pro ultra-wide industrial printer can print multiple rolls simultaneously with the ultimate color output. With engenuity of craftsmanship, leading quality assurance, and ultra-high precision image output, it provides customers with more professional solutions with excellent performance, bringing a new printing experience and commercial value.

Product Features

Flexible production, ultimate color

The 5-meter printing width and simultaneous printing of 3 rolls of 1.6-meter materials ensure that customers can produce flexibly and without restrictions. It has outstanding color expression and productivity, and is the best choice to enhance competitiveness.

Perfect output, defining aesthetics

It can output image-level images and perfectly realize technical aesthetics. The independently developed ink temperature control system ensures smooth ink flow and equipment stability, and perfectly smooth operation.

Excellent quality extraordinary experience

It adopts advanced intelligent manufacturing technology, high-precision metal encoder scale and linear motor, which perfectly achieves the ideal state of fast speed and high precision, and provides ultra-clear images, allowing unlimited creativity.

Multiple solutions innovative applications

It provides a variety of application solutions, free switching between full-color, color-white-color printing, and excellent double-sided printing. It truly realizes one machine for multiple uses, meets the diverse needs of multiple batch tasks, and promotes maximum production capacity.

Superior performance operation

The flexible production mode can realize the synchronous printing of three rolls of 1.6m wide materials.

The customized feeding system and the national patented roller structure make the printing materials run more accurately and smoothly, not easy to deviate, and more suitable for high-speed printing in large quantities.

The ink temperature control system independently developed greatly improves the smoothness of ink and the printing stability.

The negative pressure platform managed by frequency conversion to ensure the stability of the negative pressure and effectively prevent the wrinkle of the feeding.

Ultra high output quality

5m wide format, three row eight color output system, all succeed in photo-realistic output.

0.5μ high-precision metal encoder strip and maglev system perfectly ensures high printing accuracy during high-speed printing.

A variety of applications, offering full-color or color-white-color printing optional, with the ability to switch between them freely.

By a highly efficient and fully automatic drying system and LED curing, the image can be printed and dried instantly and featured with waterproof, sunproof and scratch resistant, which is more energy-saving and environmental friendly, and has higher definition, brightness and color saturation.

Intelligent module

The R5000Pro is a highly intelligent industrial digital equipment with big potential for further system upgrading, effectively saving labor costs.

Double sided intelligent printing function, the printing position can be found more accurately by scanning through the camera.

Intelligent cutting function, which can synchronize to cut the picture vertically into 2-3 parts during the machine working.

Automatic boundary detective function, multi roll material can realize intelligent typesetting and synchronous printing to increase the production capacity of the machine.

Independently developed brand new printhead lifting and protection system, combined with automatic height measurement technology, which greatly reduces the deviation and error caused by manual operation, and the anti-collision induction system better protects the heads and UV lamp.

Independently developed stable high-precision electronic negative pressure system to ensure stable and smooth ink supply; also equipped with negative pressure protection and feedback, which can prevent ink from back flowing.

Radiation protection function: the front guardrail is covered with dark gray Plexiglas, which can 100% prevent UV radiation to the human body.

Meanwhile, it can clearly observe carriage motion, and realize the convenient operation of one key lifting.

Technical Specifications

Maximum printing width	5000mm					
Print head	KM1024i/KM1024a					
Head alignment	3 rows, 24/18 heads(8C*3 / 6C*3)			3 rows, 24/18 heads(8C*3 / 6C*3)		
Printing mode	High speed mode	360 x 1080dpi	230m ² /h	720 x 720dpi	320m ² /h	
	Production mode	720 x 720dpi	180m ² /h	720 x 10800dpi	230m ² /h	
	Fine mode	720 x 10800dpi	120m ² /h	720 x 1440dpi	180m ² /h	
	Ultra fine mode	720 x 1440pi	95m ² /h			
	(the above mentioned speed is based on speed without smooth)					
Media type	PVC banner, PET film, backlit & frontlit fabric, PE film, mesh, etc.					
Ink type	UV ink					
Ink color	C,M,Y,K,LC,Lm,Ly,Lk,W					
Control software	Control Software Ver. 5.0					
Working environment	Temp. 18-28°C, RH 30-70%					
Air pressure parameters	≥8kg/ cm ²					
Connection interface	PCIE					
Power requirements	3 Phase, 380v, 25Kw					
Machine size	L 8520mm x W1900mm x H2200mm					
Machine weight	8000Kg					