

GETHRAY SOLVENT PRINTER

MK3208



◀ **KM512 PRINTHEAD**

MK8 Hardware Functions and Deployments

- Japanese KM512LN printhead , 512 individually addressable nozzles;
- Excellent mechanical structure and humanization design. Removable, safe and economical for transportation;
- Three-stage adjustable temperature heating for media;
- The Skip White function can highly improve the production efficiency;
- The Border Feather can eliminate the cross grain which engendered while printing.

CK3208



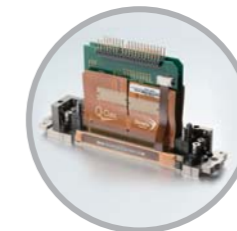
CK8/CK12 Deployments Based On MK8 Hardware Functions

- Advanced feeding & collecting system;
Three feeding modes for different operation conditions: inserted type, deposited feeding type with two rollers, deposited feeding type by dragging media with three rollers;
- Separate packing, only 4.2CBM, more safety, more economical;
- Unique printhead protection stack;
- Printhead heating system, suitable for low temperature working environment in winter;
- LED lights the printing bed for better observing printing quality and color bar.
- CK8/CK12 printing speed: 80m²/h,120m²/h

CK3212



HP3204



◀ **POLARIS PRINTHEAD**

HP4 Hardware Functions and Deployments

- American SPECTRA Polaris 512 35PL printhead, 512 individually addressable nozzles;
- Excellent mechanical structure design, strong metal beam, aluminum bed, ensure printing quality and high-speed;
- 35 picoliter calibrated drop size, firing frequency 30-50K, the speed is 2-4 times of similar products;
- The Skip White can highly improve the production efficiency;
- The Border Feather can eliminate the cross grain which engendered while printing.

CK1024



◀ **KM1024 PRINTHEAD**

HK1024



CK1024/HK1024 Deployments Based On CK8/CK12 Hardware Functions

- The whole printer takes Gethray eco solvent printer's mechanical precision and technology as production standard;
- Adopt 4 or 8 pcs KM1024 printheads, with speed 80m²/h or 160m²/h;
- Intelligent infrared heating system to speed up picture drying.

MK3208



Technical Parameters

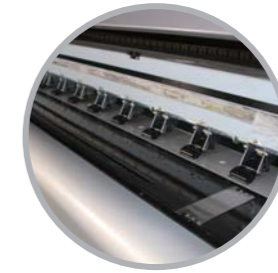
Items		Parameters
Printhead	Model	MK3208
	Head	KM512LN
	Numbers	4 or 8 heads
	Print Height	2-4mm from Media
Ink	Color	CMYK
	Type	GETHRAY KM512 42PL Ink
	Supply System	Auto Ink pump
	Detection	Ink level sensor
Drying	Heaters	Pre-Bed-Back heaters
	Temperature	Normal:80℃,Recommend:40-65℃
	Drying System	Drying fans
Media	Width	Maximum 3200mm
	Type	Vinyl、Flex、Banner
	Convey	Auto Media Feeding System
Speed	Standard	180x720 2pass, 80m²/h
	High quality	180x1080 3pass, 52m²/h
	High precision	180x1440 4pass, 40m²/h
Print Interface		USB
Temp and Humidity		Temp:18-29℃ Humidity:50-80%
RIP software		Photoprint DX10.5 Gethray Edition /UltraPrint
Input Power		AC 220V 50Hz
Size (L*W*H)		4.50m*0.75m*1.34m

CK3208

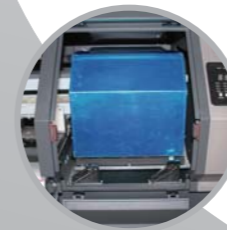


CK3208

2pass	180 x 720dpi	80m²/h
	240 x 720dpi	60m²/h
3pass	180 x 1080dpi	52m²/h
	240 x 1080dpi	40m²/h
4pass	180 x 1440dpi	40m²/h
	240 x 1440dpi	30m²/h



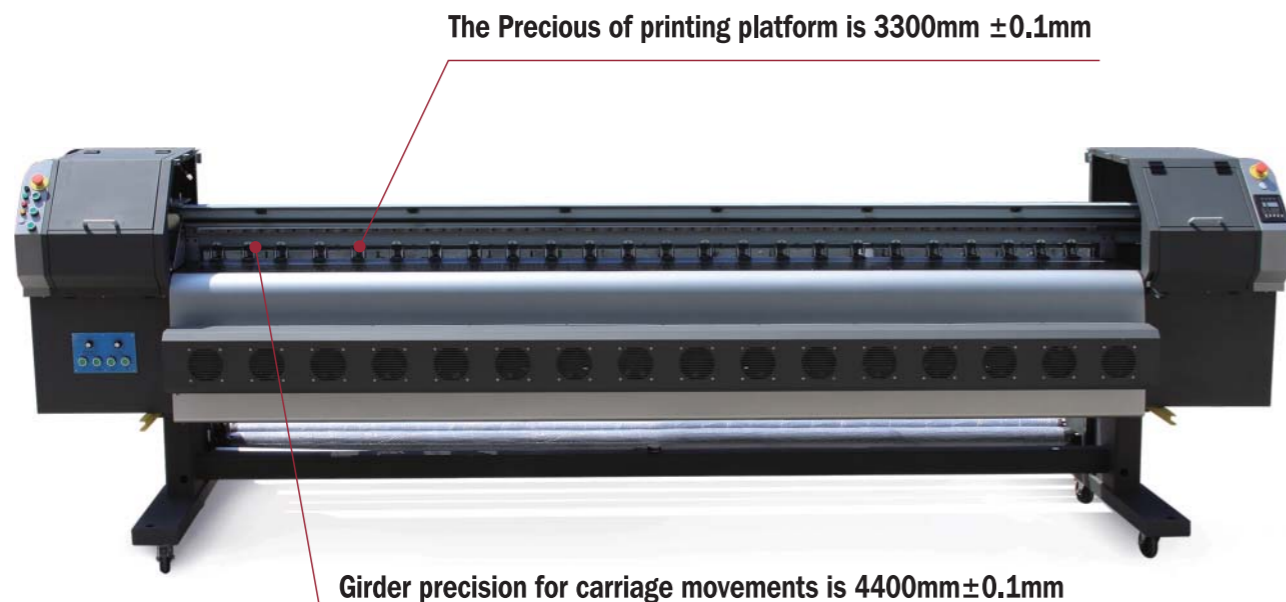
CK3212



CK3212

2pass	180 x 720dpi	120m²/h
	240 x 720dpi	90m²/h
3pass	180 x 1080dpi	78m²/h
	240 x 1080dpi	60m²/h
4pass	180 x 1440dpi	60m²/h
	240 x 1440dpi	45m²/h

Excellent Manufacturing Technique



The precision levels above are five times higher than normal standards in this industry; so effectively improved the printing quality of the picture.

Printhead Heating System

Printhead heater and printing bed heater can make printer work normally in winter, no need to open the air-conditioner in state of low temperature, effectively save energy for you.



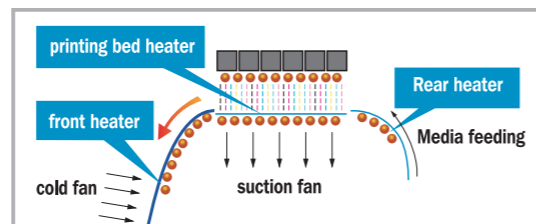
Unique Printhead Protection Stack

- Solvent solution will be sucked back to the printhead and protect the head when head liquid level is higher than the subtank.
- Unique head stacks can prevent ink mixing effectively and save ink by purging residual solvent solution when the machine works again.
- Easy operation and clean.



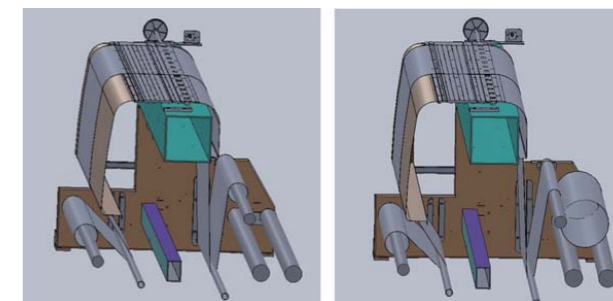
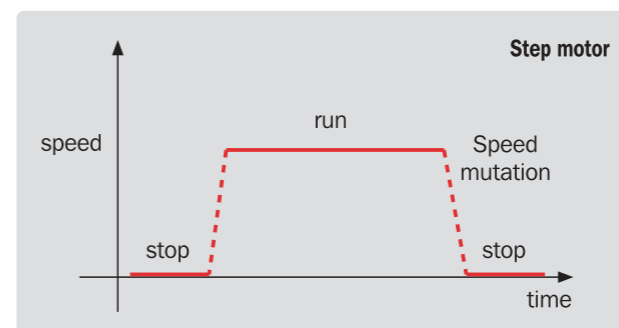
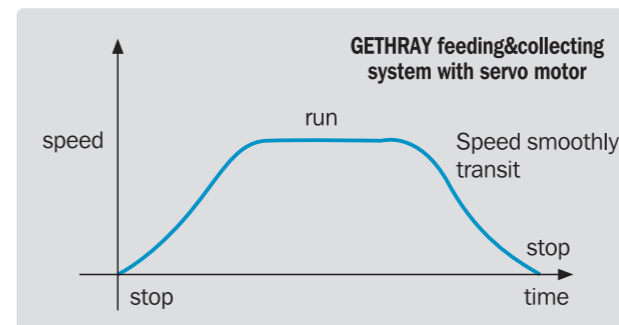
Three-stage Adjustable Temperature Heating for Media

Print bed heater, ensure material absorb ink better, avoid ink spread and dyeing, improve printing precision and scratch resistant.



The Advanced Feeding/Collecting System

- When the motor starts or stops, the speed transits smoothly and softly; the impulse force to material feeding is small so as to improve the stability of the stepping and reduce the operator's workload of supervising the printing.
- Clockwise and counter clockwise motor rotation in two directions can be operated separately;
- No matter banner or PVC, the media sensor can make auto-induction.



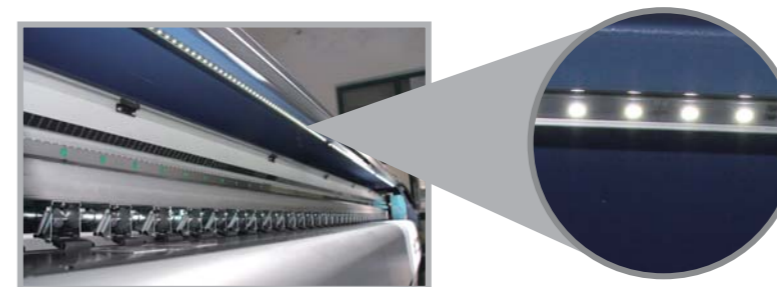
When the motor needs reverse rotation in printing PVC, the sensor also can work so that to achieve auto-feeding.

Banner printing

For the feeding system with traditional step motor, the speed mutates during acceleration or deceleration which is disadvantageous to stable feeding and collecting.

★ Auto-feeding system is optional.

LED Lights The Printing Bed for Better Observing Printing Quality and Color Bar



Three Optional Media Feeding Systems to Your Needs : Inserted Type、 Double Roller Type、 Three Roller Type

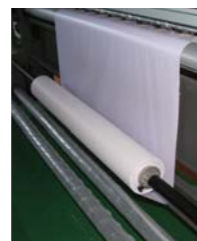
◆ Inserted type : standard type for imported machines such as HP and DGI

Advantages

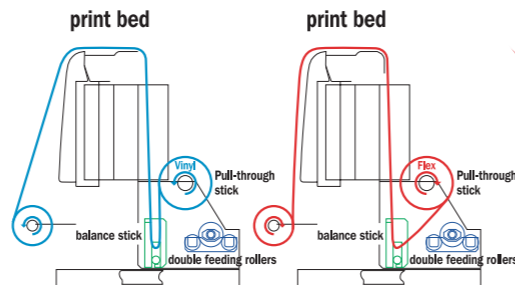
- Easy to feed the whole volume of media and precise in length control.
- Suitable for producing in mass and can be used for high-demanding stitched images.
- Suitable for high viscosity materials and easily stripping.

Disadvantages

- High demand for space. And difficult for frequent changing materials.



Inserted type



◆ Double roller type

Advantages

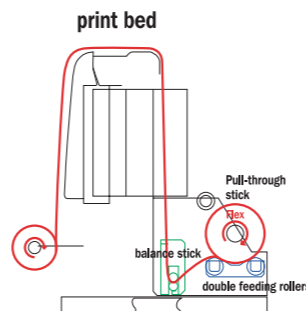
- Easy for feeding and takeup, suitable for changing materials and low demand for space.

Disadvantages

- High demand for operators. Operators should pay attention to the media from the back and adjust the media if necessary. Otherwise the quality will not be good.



Double roller type



◆ Three roller type

Advantages

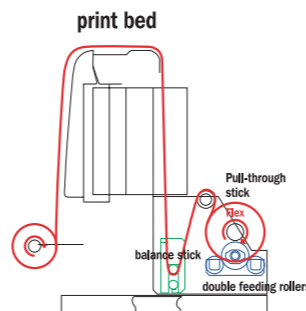
- With all the advantages of Double roller type, this type is promoted from Double roller type.
- Connected by gears, the three rollers can move at the same time so that the media can be conveyed continuously without slipping.
- To some extent, the three rollers has improved the feeding quality effectively.

Disadvantages

- The printing quality is not as good as the Pull-through type while printing long-distance medias.



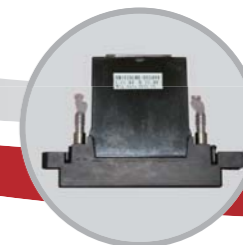
Three roller type



HK3212



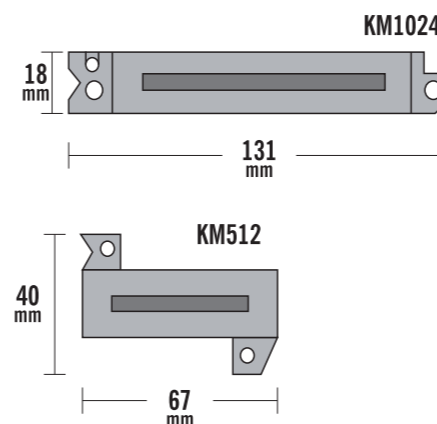
CK3212



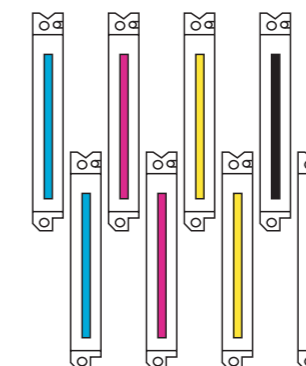
Improve Printing Quality Leading Technology ---KONICA KM1024 Printhead

- 1024 nozzles can print at a high speed with less printheads. (As many as two KM512 heads or eight 128 heads.)
- With less printheads, this type of machine can improve the printing quality obviously.

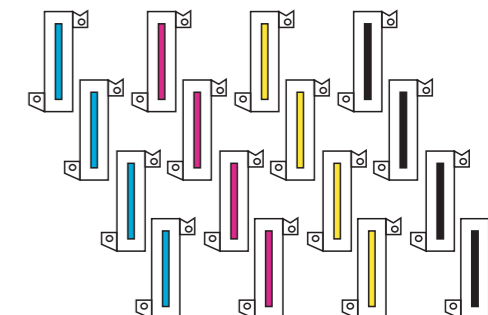
- This printhead is suitable for customers who has high quality demand for printing and it also can improve the printing quality for high-demand materials such as Flex, PVC Vinyl and special colors.



◆ 8 pcs KM1024



◆ Equals 16 pcs KM512

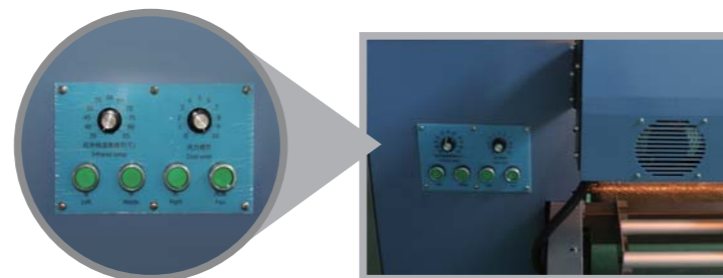


Technical Parameters

Product Name	CK1024/HK1024 SOLVENT PRINTER										
Printhead	KM1024/42PL										
Qty of printhead	8PCS										
Ink type	Solvent										
Maximum print Width	3200mm(10.5ft)										
Ink volume	5000cc/color										
Heater system	Front head, Printing bed heater, rear heater 30 °C -65 °C (solvent equipment)										
Drying system	Drying Fans, infrared heater										
Auto feeding/taking up system	Standard feeding system(equiped),take up system(optional)										
Operation Environment	Temperature:15-35 °C ,Humidity:40%-65%; 50HZ,220V(±10%) >20A										
Printer size (L*W*H)	4.84m*1.12m*1.49m										
	resolution	8heads	4heads	resolution	8heads	4heads	resolution	8heads	4heads		
2pass	180 x 720dpi	160m ² /h	80m ² /h	3pass	180 x 1080dpi	104m ² /h	52m ² /h	4pass	180 x 1440dpi	80m ² /h	40m ² /h
	240 x 720dpi	120m ² /h	60m ² /h		240 x 1080dpi	80m ² /h	40m ² /h		240 x 1440dpi	60m ² /h	30m ² /h

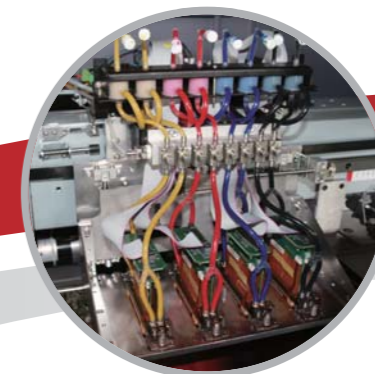
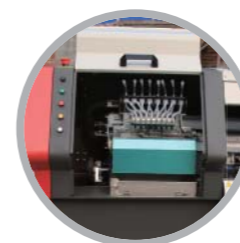
Intelligent Infrared Heating System

- It could set 1.8m, 2.5m and 3.2m heating width freely;
- Adjustable heating temperature for media surface from 35 to 80 °C ;
- Adjustable drying fan power level;
- Print in 160m²/h, the image will dry simultaneously;
- External infrared heating system to replace the platform heating system;
- Through infrared heating, print results will get stronger colours and adhesion to the media, hence achieve a more durable weather resistance;
- Intelligent heating – the heater automatically stops when printing pauses, heater automatically works when printing starts.



Note: this system works with Pull-through type of feeding and automatic take up system, it can achieve unattended printing.

HP3204



Advantages of Polaris Printheads

Long working-life

Made by the Spectra Company in U.S.A. with long working life.

High Color saturation

Working power(80-100V) is four times higher than other printheads of the same type so that the color saturation is two times as the the others.

High speed. High resolution

The fire frequency(30-50k) is four times higher than other printheads of the same type. The printing speed can reach as much as 98m²/h (4heads) and 205m²/h (8heads) with leading precision in the industry.

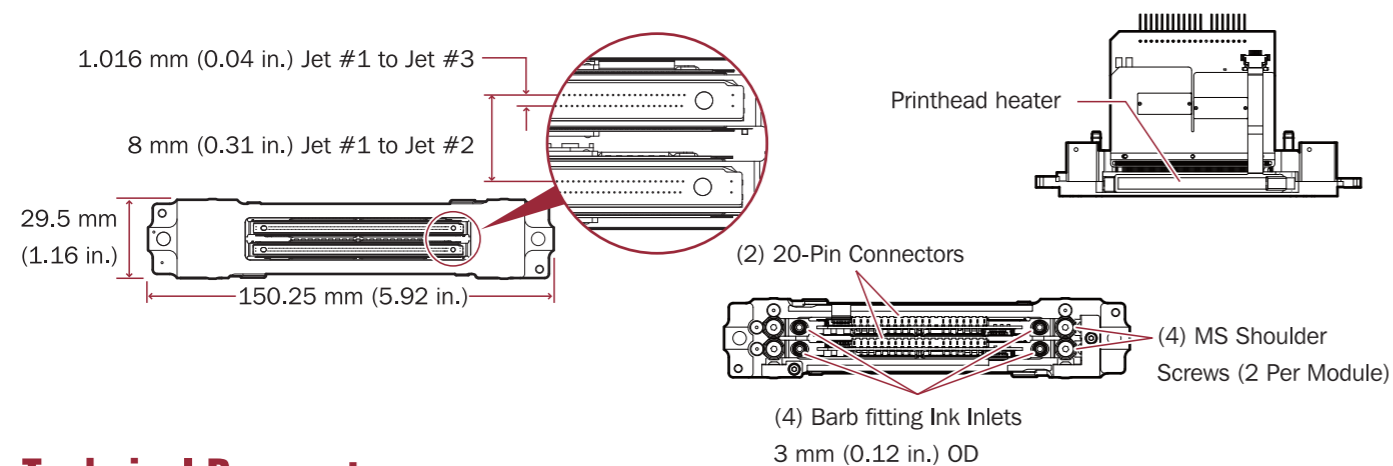
Nozzles and electric circuit divided

Nozzles and electric circuit can be divided with a lower cost than combined.

Printhead can be thermostatic

A constant temperature can reduce the effect of the environment so that the printhead can work very smoothly at a high speed.

Physical Characteristics of Polaris Printhead



Technical Parameters

Items		Parameters
Printhead	Model	HP3204
	Head	Polaris 35PL
	Numbers	4 heads
	Print Height	2-4mm from Media and adjustable
Ink	Color	KCMY(4)
	Type	Ink for Polaris 35PL
	Supply System	Auto Ink pump
	Detection	Ink level sensor
Drying	Heaters	Pre-Bed-Back heaters
	Temperature	Normal:80 C ,Recommend:40-65 C
	Drying System	Drying fans /Auto Infrared heating System
Media	Width	Maximum 3200mm
	Type	Vinyl, Flex, Knife coated;etc
	Convey	Multi-function Media Feeding and takeup System
Speed	Standard	720*400 2pass,92m ² /h
	High quality	720*600 3pass,61m ² /h
	High precision	720*800 4pass,46m ² /h
Print Interface		USB
Temp and Humidity		Temp:18-29 C Humidity:50-80%
RIP software		PhotoPrint DX10.5 Gethary Edition/UltraPrint
Input Power		AC 220V 50Hz
Size		HP4 4.84m*1.12m*1.49m



Good Service High Tech Factory