

Dye-sublimation Direct/Transfer Print

# JV5-320DS



**Ink type :Dye-Sublimation ink**

## Features

1. High speed direct or transfer printing on media up to a maximum width of 3.2 m
2. Direct print on pretreated fabrics is possible when the ink catcher is used
3. Direct printing enables more detailed images than transfer printing
4. Equipped with drying fans that rapidly dry the ink seeping through the back of the fabric
5. Improved operation and quality due to implementation of Mimaki's Spray Suppressor System

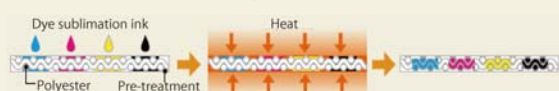
## Functionality of JV5-320S

1. Maximum print speed of 60.3 sqm/h (540 x 720 dpi, 4 pass, in 4 color mode,Bidirectional)
2. 4 high speed print heads in 4 staggered rows enable high speed printing
3. AMF (Automatic Media Feeder) enables stable feeding of heavy media up to 130 kg
4. UISS (Uninterrupted Ink Supply System) provides for constant unattended printing
5. MBIS (Mimaki Bulk Ink Supply System) lowers ink costs(option)
6. NCU (Nozzle checking units)enables savings and avoids extensive waste(option)
7. A Small take-up device for printing on narrow media is available

## Differences between Direct Printing and Dye-Sublimation Printing

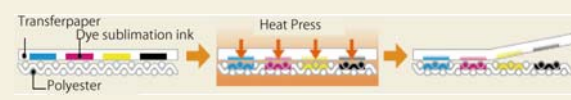
### What is Direct Print?

This method excels by enabling direct printing on pretreated polyester using dye sublimation inks and post-treatment heating in order to achieve the highest quality and bright vivid colors. No need for transfer paper saves costs, especially when longer runs are printed.



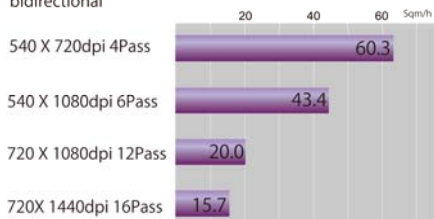
### What is Transfer Print?

Printed transfer paper with dye-sublimation inks is heated for transfer to polyester. During this process inks evaporate. Spaces in porous polyester can become clogged up during this process.



## Print Speeds

4 color printing speed  
bidirectional



6 color printing speed  
bidirectional



## Uninterrupted Ink Supply System (UISS)



Green light is on: Ink cartridge is in use

No light is on: Ink cartridge is not in use

Red light is on: Ink cartridge is empty

After the ink cartridge is empty the cartridge on the right is used

When the ink cartridge runs out, another cartridge automatically begins to supply ink to prevent interruption of printing. A maximum of 1,760 ml ink per color can be loaded at one time. Ink cartridges can be replaced during printing and overnight continuous printing is possible.

## Equipped with Take-up device/Feeding device for various media sizes



Small take-up device

Heavy duty media take-up device

Media feeding device

Take-up and feeding devices are a key technology in large format printers. JV5-320DS enables secure and accurate feeding of heavy media up to 3,250 mm width and up to 130 kg weight. The machine incorporates a tension bar to maintain constant media tension. In addition a take-up device for adjusting take-up tension is included. Thus both, heavy and narrow media can be used with ease.

## ■ Specifications

No	Item	Specification	
1	Head	On-demand Piezo head	
2	Ink	Dye-Sublimation ink Sb53 (BL,M,Y,K,LBL,LM)	
3	Ink Set	4 color mode: 4 ink cartridges per color 6 color mode: 2 ink cartridges per color (4 cartridges for M & BL)	
4	Ink volume	440ml cartridge, 2000ml ink pack	
5	Print speed	4 color mode: 60.3 sqm/h at 540 dpi x 720 dpi (4 pass high speed in bi-direction) 6 color mode: 35.3 sqm/h at 540 dpi x 720 dpi (8 pass high speed in bi-direction)	
6	Effective printing area	Width: 3250 mm (textile printing), Length: 3290 mm (paper printing)	
7	Acceptable media	Pre-treated media for sign use, Dye-sublimation media	
8	Media specification	Size	Max. width 3,300 mm, Min. width 297 mm, thickness 5.0 mm or below
		Roll diameter	Outside: less than 250 mm, Inside: 3 inch
		Roll weight	Less than 130 kg
9	Margin of printing area	Right and left margin of the roll: 25-50 mm each (textile) 25-36 mm (paper) *Same margin is needed when using leaf media.	
10	Heater	Pre-heater, Post-heater	
11	Power	AC 200V-240V±10%	
12	Power consumption	Less than 7,200 VA	
13	Dimensions (W x D x H)	5,170mm(W) x 1,610mm(D) x 1,640mm or below (H)	
14	Weight	Printer unit 1,250kg (include ballast weight)	
15	RIP Software	RasterLinkPro5SG (RLP5 supports EPS, PS, TIFF, JPEG, and BMP)	

● Screens and printing samples in this catalog are artificial renderings. ● Specifications are subject to change without notice. ● All trademarks or registered trademarks are the property of their respective owners. ● Inkjet printers print using extremely fine dots, thus colors may vary slightly after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to another unit due to slight individual differences.

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