

JV5-320DS



Volume super-wide dye sub printer...



TEXTILE &
APPAREL



SIGN &
GRAPHICS

Mimaki

The world imagines... Mimaki delivers



Volume production high speed, grand format dye sublimation printer

ENGINEERING EXCELLENCE AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global company with large operational bases in Asia and the Pacific, United States and Europe.

Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks and cutting blades.

From outdoor signage and billboards to interior decoration and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

... **Mimaki delivers**

The super-wide JV5-320DS delivers ultra-high speed, premium quality and a host of innovative features to the high volume production market, for either direct or transfer dye sublimation printing. The capabilities and specification of the JV5-320DS make it especially suitable for printing soft signage – outdoor sign and graphics such as flags and banners printed on polyester textiles.

JV5-320DS delivers ...

- Print speeds of up to 60.3 m² /h at 540 x 720dpi in 4-colour mode
- Super-wide printing up to 3.25m wide
- High 4 speedprint heads in 4 staggered rows enables reliable high speed printing
- Automatic Media Feeder (AMF) for stable feeding of heavy media up to 130kg
- Uninterrupted Ink Supply System (UISS) and Mimaki Bulk Ink System (MBIS) (optional) allows continuous unattended operation with lower ink costs
- Nozzle Checking Units (NCU) avoids expensive waste and provides more efficient operation (optional)
- Spray Suppressor System enhances image consistency and improves quality

DYE SUB INK
3250 mm MAX PRINT WIDTH
60.3 m ² /h MAX. SPEED
1440 DPI MAX RESOLUTION
4/6 COLOUR MODES
UNATTENDED CONTINUOUS OPERATION
DIRECT OR TRANSFER PRINTING



Create ... Indoor and Outdoor signage, all types of soft signage, flags, banners, exhibition graphics, window displays, retail PoS, or any polyester based textile graphics printing...

KEY TECHNICAL FEATURES ...

Media take-up and automatic feeding device

JV5-320DS enables secure and accurate feeding of heavy media up to 3250 mm width and up to 130 kg weight. The machine incorporates a tension bar to maintain constant media tension.

Small take-up device



Heavy duty media take-up device



Media feeding device



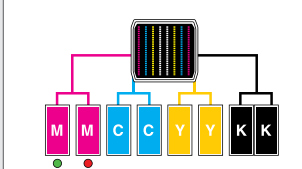
In addition, a take-up device for adjusting take-up tension is included. Thus, both heavy and less wide media can be used with ease.

Continuous unattended operation with UISS

UISS (*1) is standard equipment - Two ink cartridge holders are allocated for each colour. When one ink cartridge indicates low ink level, this system automatically switches to the other one. Additionally, using in combination with the MBIS (*2) that supplies ink from aluminium ink packs (2L) extends the time of ink supply and reduces not only ink cost but also environmental footprint.

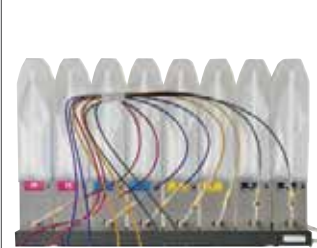
*1 UISS - Uninterrupted Ink Supply System: Automatic ink cartridge switching function (4-color mode only)
*2 MBIS - Mimaki Bulk Ink System (Option)

UISS



When one ink cartridge runs out of ink, the indicator will light up red, while the system switches automatically to the second cartridge of the same color.

MBIS



Sophisticated RIP software maximizes the performance of JV5-320DS



Additional useful functions

User friendly RIP key features

- Easy to follow icons enable intuitive and user-friendly operation
- Related settings feature in one window to simplify RIP operations, with 'Register as Favourite' option available for regularly used layouts
- Printing progress can be monitored on the main screen

1. Three ink layers in one pass print function

A three-layer print of colour, white and colour can be performed at one time. Printing a base layer 'underlay' of white ink allows perfect reproduction of beautiful natural colours when printing on transparent media. Window graphics can be printed with high precision and no multi-pass colour registration shift.

2. Layout function

Three ink layers or copied images are freely laid out if print conditions remain the same. This function reduces the media waste by efficient layout.

3. Multi-profile, simultaneous printing function

Several profiles that match conditions can be simultaneously printed. This is particularly useful for test output when the profile for a target image quality or colour requires multiple 'profile' test prints.

*To be supported by RasterLink6 program update.

Specifications

Item		Specifications
Print head		On-demand Piezo head
Ink		Dye sublimation ink (BL, M, Y, K, NK, LBL, LM)
Ink set		4-colour mode: 4 ink cartridges per colour 6-colour mode: 2 ink cartridges per colour (4 cartridges for M & BL)
Ink volume		440 ml cartridge, 2000 ml ink pack
Print speed		4-colour mode: 60.3 sqm/h at 540 x 720 dpi (4 pass, high speed in bi-direction) 6-colour mode: 35.3 sqm/h at 540 x 720 dpi (8 pass, high speed in bi-direction)
Effective print area		Width: 3250 mm (textile printing) Length: 3290 (paper printing)
Acceptable media		Pre-treated media for sign use, dye-sublimation media
Media specifications	Size	Max. width: 3300 mm Min. width: 297 mm Thickness: up to 5 mm
	Roll diameter	Outside: less than 250 mm Inside: 3 inch
	Roll weight	Up to 130 kg
Margin of printing area		Right and left margin of the roll: 25-30 mm each (textile) and 25-36 mm (paper) * Same margin is needed when using leaf media
Heater		Pre-heater, post-heater
Power		AC 200V-240V ±10%
Power consumption		Less than 7200 VA
Dimensions (W x D x H)		5170 mm x 1610 mm x 1640 mm or below
Weight		Printer unit: 1250 kg (including ballast weight)
RIP software		Rasterlink Pro 5 SG (RIP5 supports EPS, PS, TIFF, JPEG, and BMP)

Print speed

Printing speed (4-colour mode, bi directional)		
540 x 720 dpi	4 pass	60.3 m²/h
540 x 1080 dpi	6 pass	43.4 m²/h
720 x 1080 dpi	12 pass	20.0 m²/h
720 x 1440 dpi	16 pass	15.7 m²/h

Printing speed (6-colour mode, bi directional)		
540 x 720 dpi	8 pass	35.3 m²/h
540 x 1080 dpi	12 pass	24.9 m²/h
720 x 1080 dpi	12 pass	20.0 m²/h
720 x 1440 dpi	16 pass	15.7 m²/h



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