

JV400 Series

JV400-130 SUV / JV400-160 SUV



Solvent UV inkjet printer ...



SIGN &
GRAPHICS



eco

Mimaki

The world imagines...Mimaki delivers



A brighter, faster, solvent UV printer

The JV400 SUV series sets new industry standards by combining the flexibility of solvent printing with the durability of UV cured inks, resulting in smooth, glossy prints, which simulate the appearance of being coated yet retaining the colour brightness expected from a solvent printer. These characteristics, coupled with a high resistance to scratching and weathering are designed to satisfy even the most demanding of customers.

JV400 – 130/160 SUV delivers ...

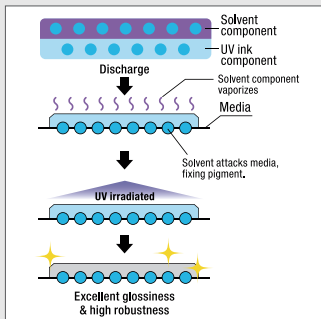
- Solvent UV inks for a smooth, glossy finish with brilliant colour definition
- High level of resistance to scratching and weathering
- Fast drying inks for improved productivity
- 4 colour printing
- High print durability for outdoor or indoor applications
- High speed output at up to 18.1 m² per hour
- Choice of two print widths (1371 mm or 1620 mm)
- Prints exit machine completely dry, ready for immediate post-processing

SOLVENT UV INKS
SMOOTH, GLOSSY PRINTS
HIGH SCRATCH RESISTANCE & DURABILITY
18.1 m ² /h MAX. PRINT SPEED
LOW INK CURING TEMPERATURES
2 PRINT WIDTHS
4 COLOUR PRINT

JV400 Series
JV400-130 SUV / JV400-160 SUV



Fixing method of SUV ink



Fail-safe functions for continuous operation

- **Nozzle Recovery Function**
Even when nozzle washing has no effect on troubled nozzle, the print image quality can be recovered temporarily.
* Nozzle Recovery Function is a temporary failure averting function and its recoverability is limited.
- **Uninterrupted Ink Supply System**
Two ink cartridges per colour are set in 4-colour mode. When the ink level of one cartridge is almost empty, the ink supply automatically switches to another cartridge of the same colour, preventing from stopping a print job due to running out of ink.

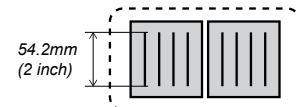
...Mimaki delivers

Create... Indoor and Outdoor Signage and Display Graphics, Banners or any wide format application where high definition and durability are a key requirement...

KEY TECHNICAL FEATURES ...

High-speed print head

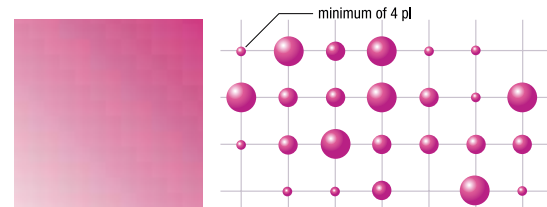
New, technically advanced printhead provides 4 picolitre minimum capability.



Two newly developed print heads with four rows of 320 nozzles per head are arranged in-line. The result is top quality, high speed printing.

Variable ink dot technology

Depending on media or output density, the drop sizes of ink from the print head can be selected down to a minimum of 4 pico litres. Multidrop function provides three different drop sizes at once, producing fascinating, non-grainy and smooth print results.



Advanced ink technology

Solvent UV ink contains both solvent and UV ink components. Solvent component results in smooth, glossy prints with brilliant colour definition, while UV component contributes to its durability and high level of resistance to scratching and weathering.

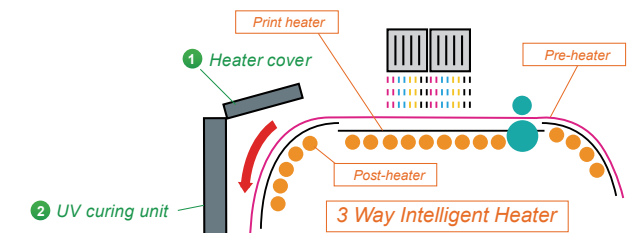
Improved drying device for the colour reproduction fixability of ink

3 Way Intelligent Heater improves the colour reproduction and fixability of ink by heating the media to the proper temperature before, during and after printing. In combination with the 3 Way Intelligent Heater, the UV curing unit immediately cures the ink to be fixed.

Drying time eliminated by immediate print curing

When using Mimaki Solvent UV inks, fixation and curing is immediate, eliminating drying times. Immediately after printing, secondary processing, such as lamination can be performed, dramatically improving production times and efficiency.

- 1 Keeps the temperature constant & prevents UV light leak
- 2 Immediately cures with UV lamp



Sophisticated RIP software maximizes the performance of JV400 series

RasterLink6

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

Additional useful functions

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		JV400-130/160SUV
Head		On-demand Piezo head (Array of 2 heads in-line)
Maximum width		1,361 mm / 1,610 mm
Print resolution		600·900·1200dpi
Print speed	High speed	18.1 m ² /h (900 × 900 dpi 6 pass, bi-directional, 4 colour)
	Standard	14.2 m ² /h (900 × 1200dpi 8 pass, bi-directional, 4 colour)
Ink	SU100 Solvent UV ink	4 colour (C, M, Y, K)
	Ink supply system	600 ml ink pack
Media	Width	Up to 1,371 mm / 1,620 mm
	Weight	Up to 25 kg
	Roll diameter	Up to φ180 mm
	Inside roll diameter	2-3 inch
	Print aspect	Inside / outside
	Cutter	Y-direction cutter after head section
Drying device		3 way intelligent heater (Pre/Print/After)
UV curing unit		Equipped with fluorescent UV tube lamp
Media take-up device		Roll take-up device, inside/outside selectable
Interface		USB2.0
Applicable standard		VCCI class A, FCC class A, UL 60950-1 CE Marking (EMC, Low voltage and Machinery directive) CB Report
Power specification		AC 100~240V±10% / AC 200~240V±10%
Power consumption		100~120V:1,440W x 2 / 220~240V:1,800W x 2
Operational environment		Temperature: 20°C-30°C (68-86°F); Humidity: 35-65 % RH (non condensing)
Dimensions (W×D×H)		2,630×855×1,435mm / 2,875×855×1,435mm
Weight		241kg / 259kg

Supplies

Item	Item No.	Remarks
SU100 Solvent UV ink	Cyan	SU100-C-60
	Magenta	SU100-M-60
	Yellow	SU100-Y-60
	Black	SU100-K-60
Eco cartridge		OPT-J0237

600 ml ink pack requires eco cartridge (OPT-J0237).
Eco cartridges can be used repeatedly by replacing ink packs.

Related Product

New LX100 Latex Ink on board

JV400-130/160LX

Eco-friendly water-based ink

The water-based "LX100" has very little VOC (Volatile Organic Compound) and does not need special ventilating equipment. This is an eco-friendly ink which reduces the operator's environmental impact.

World's First Latex White Ink

The white ink meets the diverse needs of a signage market with its adaptability to a wide range of printing media including transparent PET, window decoration, shatterproof window film and so on. In addition, the machine comes with ink circulation system, named MCT*, prevents pigment sedimentation and provides stable ink-jetting.

*MCT = Mimaki Circulation Technology

Available in all scenes outdoors or indoors

Latex ink can print on most medias that are used in eco-solvent machines. Moreover, non-coated media without an acceptance layer, such as paper and cloth, can be printed on as well. This excellent media capability opens the door to many opportunities.

Fixing method of Latex Ink

Discharge
Resin film
Media
Resin and pigment in the ink are applied simultaneously
Resin dissolves forming membrane.
It is heated to about 60 °C with heater
Pigment is fixed
No drying time, Immediate shift to post-processing

• Some of the samples in this folder are artificial renderings • Specifications, design and dimensions stated in this folder may be subject to change without notice (for technical improvements, etc.)
• The corporate and merchandise names written on this folder are the trademark of the respective corporations • Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printouts, colours could vary slightly from one unit to other unit due to slight individual differences • Composer's errors reserved

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