

Mimaki JV300 Series

Wide-format Eco-solvent Inkjet Printers

The Mimaki JV300 Series printers are high-productivity models that deliver outstanding image quality and reliable performance with many cost-saving features. The series includes innovative new technologies that increase throughput and uptime. Eight ink channels and a variety of colors provide the flexibility to produce nearly any application. These models use fast-drying, eco-solvent inks that can print on hundreds of media choices, more than any range used by other inkjet technologies.

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Product highlights

- Two models:
 - 54-inch Mimaki JV300-130
 - 64-inch Mimaki JV300-160
- Built on the proven Mimaki JV Series platform a workhorse in the company's roll-based printer line-up
- Includes newly developed printheads in a staggered configuration
- Produces outstanding print quality with precise dot control
- Offers application versatility to fulfill varied client needs
- Facilitates production workflow with technologies and features that increase throughput and uptime
- Delivers value: high productivity without sacrificing quality, designed to keep operating costs low

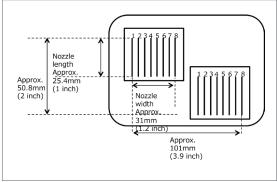


New printhead technology

Mimaki's printhead technology and staggered design combine to deliver higher productivity without sacrificing quality.

» Staggered dual-head configuration

Newly developed, staggered dual-head configuration printheads deliver a wider print swath. This printhead configuration can apply a two-inch wide swath in a single pass, resulting in print speeds of up to 1140 square feet per hour.



» Waveform technology

Each ink color has its own specific gravity and viscosity. To achieve precise ink droplet placements onto the media, Mimaki designed an optimum waveform, enabling the printhead to jet each ink color at the appropriate jetting angle without losing precise ink droplet circularity.

When ink droplets are deformed in-flight, they can produce inaccurate results because either the jetting angle is out of tolerance or droplets brake in the air.



With Mimaki waveform technology, ink droplets are placed precisely without deformation because they maintain high circularity in-flight.



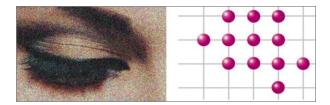


Outstanding print quality

Mimaki waveform technology is one element in delivering outstanding print quality. Variable dot printing and MAPS3 technology also ensure precise image reproduction.

» Variable dot printing

In addition, variable ink droplet sizes are precisely placed from the minimum size of 4 picoliters to the maximum size of 35 picoliters. Smaller droplets create smoother gradients and quartertones, and large droplets produce uniform solids and are useful for high-speed printing.



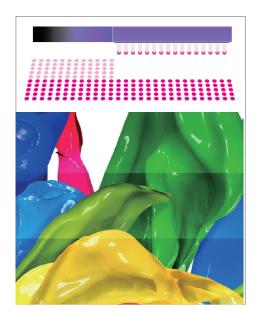


Fixed dots result in a grainy image.

Variable dots deliver smoother images.

» Mimaki Advanced Pass System 3 technology

Variable drop printing combined with Mimaki Advanced Pass System 3 (MAPS3) anti-banding technology ensures precise and accurate print quality throughout the printing process, greatly reduce the appearance of banding by printing in a gradational mask pattern. The result is a smoother image with no distinct bands.





In normal printing (above left), the edges between gradations are visible.

MAPS3 technology uses a gradational mask pattern (above right),
resulting in a smoother image with no distinct bands.



Eco-solvent inks print on a wide variety of media for application flexibility

The Mimaki JV300 Series printers employ dependable ink technology used in the sign and graphics industry for many years. Mimaki was the first manufacturer of eco-solvent, wide format printers.

Mimaki SS21 ink was developed based on the company's deep knowledge of inkjet printing and its unique technology heritage. Mimaki SS21 ink dries quickly due to a good balance between ink penetration and solvent volatilization. High productivity is achieved through high density printing in high speed modes without blocking or bleeding.

Eight ink channels and a variety of colors provide the flexibility to produce nearly any application. Textile and apparel applications are also possible, using Mimaki Sb53 dye-sublimation inks.

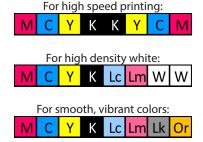
» Print on hundreds of media choices, more than any other inkjet technology

Solvent inkjet printing is a proven technology used around the world for signage and graphics production. The standard Mimaki SS21 inkset is a fast-drying, eco-solvent formulation that can print on hundreds of media types – more than any range used by other inkjet technologies.

Mimaki SS21 inks are available in nine colors: Magenta, Cyan, Yellow, Black, Light Cyan, Light Magenta, Light Black, Orange and White. They can be configured to support a wide range of applications and production requirements.



Mimaki SS21 eco-solvent inks are available in nine colors. With eight ink channels, they can be configured to support nearly any application.



» Produce a wide range of applications for both indoor and outdoor use

The Mimaki SS21 eco-solvent inkset offers the aggressive characteristics of full-solvent inks without the high volatile organic compounds (VOCs). This inkset can be used for indoor applications such as point-of-purchase displays, posters, exhibits and backlit displays. It can also be used for outdoor-durable applications such as banners, window graphics, and vehicle wraps.

The MBIS3 bulk ink system is standard for all U.S. shipments; optional 440 ml cartridges (right) are available.





» Standard Mimaki Bulk Ink System enables overnight / unattended printing

Every Mimaki JV300 Series printer ships with the Mimaki Bulk Ink System 3 (MBIS3) that features two-liter ink packs for all but White ink¹, enabling unattended printing and freeing staff to work on other projects. It can also be used to print long runs – even to help make money overnight. This gravity-fed system does not require

additional power for pumps. A low-ink indicator is included, and if the ink does reach the reload point before replenishing, the printer will pause and wait for action -- printing will not continue with insufficient ink, so no media or other inks are wasted.

The MBIS3 two-liter ink system with SS21 ecosolvent inks reduces costs by up to 23 percent over 440 ml ink cartridges². No competitor offers a two-liter bulk ink system for eco-solvent, roll-based printing.



» White ink offers higher opacity

Mimaki's SS21 White ink yields a 48 percent greater density opacity due to the larger drop size of the new printheads. This higher density enables more accurate colors to be printed on top of the white layer.

The Mimaki JV300 printer can achieve 3-layer printing. Users can print a color layer, a white layer and another color layer at the same time, widening the application range to additional products such as window films, packaging, etc.

This new formulation can also be printed at higher speeds for a production increase of 430 percent.





JV33-160	Printer	JV300-160	
720 x 1440	DPI	720 x 1440	
32 pass, bi	Mode	32 pass, bi	
14 pl	Max. Drop Size	24 pl	
0.27	Transmission Density	0.40	
9.68	Speed (SqFt/Hr) 41.97		



¹⁻White ink available in 220 ml cartridges only.

²⁻⁴⁴⁰ ml ink cartridges are available as an option.

» Specialty ink colors produce vibrant colors and smooth monotones

Orange ink increases the color gamut and delivers more vivid output and the ability to reproduce approximately 94 percent of the PANTONE® color chart. This is particularly applicable when reproducing corporate colors for campaigns across a range of media.

Orange is added as a process color -- there is no need for designers to prepare artwork in the hexachrome color space.



Images printed with CMYKLcLm can look muddy.



Images printed with the same combination plus Orange ink look more vibrant.

Light Black ink produces high quality monochrome color reproduction, resulting in gray tones without a red undercast. Both of these inks, along with Light Magenta and Light Cyan in a eight-color configuration, can also be used to serve the highend, fine art market where prints command premium prices.

On one Mimaki JV300 Series printer, service providers can produce a variety of printed media for campaigns that include indoor and outdoor components such as retail promotions, and be assured of color and quality fidelity.

CMYKLcLm Reddish-gray



CMYKLcLm**Lk**Or No color rolling



CMYKLcLm Reddish-gray Skin with grainy appearance



CMYKLcLm**Lk**Or Clear gray Smooth skin



Adding Light Black to the color configuration provides high color balance without color rolling, resulting in high quality, smooth output with no red undertones in monochrome images.



» Textile inkset also available

For textile and apparel production, Mimaki Sb53 dye-sublimation is available in Magenta, Blue, Yellow, Black, Light Blue and Light Magenta. These high-density inks are fast drying for sublimation transfer to polyester substrates such as sportswear and soft signage.

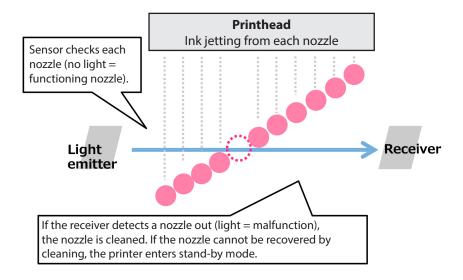


Automated systems increase throughput and uptime, reduce costs

The Mimaki JV300 printer is designed for production workflow and includes numerous systems to increase throughput, reduce costs and help improve margins.

» Nozzle Check Unit

The Nozzle Check Unit (NCU) reduces ink and media waste, and downtime. The NCU automatically checks for potential nozzle outages between file runs. When a nozzle outage is detected, the system cleans the nozzle and re-tests. If the outage is cleared, printing resumes. If the outage cannot be cleared, the printer automatically goes into standby mode and will not waste media and ink on an unsellable print.

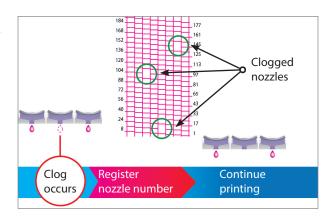




» Nozzle Recovery System

The Nozzle Recovery System (NRS) enables continued productivity by assigning operational nozzles as substitutes until an outage can be cleared.

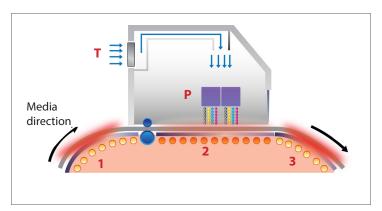
Up to 10 nozzles can be registered per nozzle line so printing can continue even with nozzles out.



If a nozzle clog is not cleared via the maintenance function, other nozzles can be assigned to continue printing. Print speed is largely unaffected.

» Uniform media drying for consistent results

Mimaki patented media heat system employs a three-way, intelligent heating system composed of a pre-heater (1), a print-heater (2) and a post-heater (3), which heat the media to the proper temperature for quick drying and accurate fixation. A top blower (T) over the printheads (P) incorporates an airflow path to control the dot size by drying ink from its surface. This system results in uniform ink drying across the width of the printer, assuring even image quality. Competitive products do not heat across the entire width resulting in undesirable artifacts. Additionally, the ceramic heaters use less energy for greater operational cost savings.





» Fine-tune media handling

Independent pinch rollers enable users to select the number of rollers to be used depending on the characteristics of the media. They can be adjusted for all types of media from light and delicate to heavy and stiff material. This results in more accurate printing with less damage to the media. It also reduces media waste and keeps production on-track, eliminating costly re-runs. The extended pinch rollers reduce media cockling at the edges.





Operators can manually push down on the lever (above left) when the pinch roller is in the down position to raise it off the media (above right).

A model to suit nearly every need

The Mimaki JV300 Series printers are affordable, and are designed to keep operating costs low. With the entire JV printer range, Mimaki is the only company that offers a complete selection of ink solutions – including eco-solvent, solvent, UV solvent, latex, pigmented aqueous and dye sublimation – with models for any budget.

About Mimaki USA

Mimaki is an innovator and a pioneer in the development of digital printing and cutting products worldwide. The company has engineered and manufactured a complete line of digital printers and cutters, and offers a total workflow solution for the many applications found in the Sign & Graphics, Textile & Apparel and Industrial markets. In 2014, Mimaki USA celebrates 15 years of serving customers in the Americas. It is an operating entity of Mimaki Engineering of Japan. For more information, email info@ mimakiusa.com or visit www.mimakiusa.com.

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Preliminary Specifications

		JV300-130		JV300-160			
Printhead		On-demand piezoelectric (2 stagge		ered printheads per color)			
Print resolut	ion	360, 540, 720, 1080 and 1440 dpi					
Maximum print width		53.58 inches / 1361 mm		63.38 inches / 1610 mm			
Maximum media width		53.97 inches / 1371 mm		63.77 inches / 1620 mm			
Representative print speeds (based on 2x4C printing on banner material using SS21 inks)							
Mode		SqFt/hr	SqM/hr	SqFt/hr	SqM/hr		
SuperDraft 360 x 360 dpi, 1P, bi-directional		991.3	92.1	1140	105.9		
Draft 540 x 360 dpi, 2P, bi-directional		647.9	60.2	745	69.2		
High Speed 360 x 720 dpi, 4P, bi-directional		421.9	39.2	352	32.7		
Standard 720 x 720 dpi, 4P, bi-directional		276.6	25.7	317	29.5		
High Quality 720 x 1080 dpi, 8P, bi-directional		144.2	13.4	166	15.4		
Ink	SS21	Quick-drying, eco-solvent ink C, M, Y, K, Lc, Lm, and Or available in 2-liter bulk ink packs (standard) or 440 ml cartridges (optional) W available in 220 ml cartridges only Dye-sublimation ink M, B, Y, K, Lb, Lm available in 2-liter bulk ink packs (standard) or 440 ml cartridges (optional) Mimaki Circulation Technology (MCT) for White ink only					
	Sb53						
	Circulation						
Media	Thickness	1.0 mm maximum					
	Weight	88.18 lbs. / 40 kg maximum					
	Diameter	9.8 inches / 25 cm maximum					
Certifications		VCC1 class A, FCC class A, ETL (UL 60905) CE Marking (EMC, Low voltage, and Machinery directive), CB, RoHS REACH and EnergyStar					
Interface	Interface		USB 2.0				
Power suppl	Single-phase AC 100-120V x2						
Power consu	Power consumption 1440W x2 maximum						
Operational environmen		Temperature: 68-86°F / 20-30°C Humidity: 35-65% RH, non-condensing					
Dimensions (W x D x H) height includes MBIS3		101 x 28 x 71 incl 254 x 71 x 180 cn	n	110 x 28 x 71 inches / 280 x 71 x 180 cm			
Weight		376.1 lbs. / 170.6 kg 402.1 lbs. / 182.4 kg					
Options		Anti-static unit for sensitive media					
		Tension bar for handling heavy media					
		Exhaust unit for VOC reduction					

Specifications are subject to change without notice.

