SIGN MASTER SYSTEMS

Run by printers, for printers.

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Mimaki®

JV330-160

High production – Solvent print only

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Product Overview

- 64” : 1,570mm print width
- Max print speed of 100 sqm p/h on banner & 21 sqm p/h on Vinyl
- DAS : Automatic feed compensation and media gap adjustments
- NCU : Nozzle check unit to monitor condition of print head
- NRS : Nozzle recovery system to keep you printing even when nozzles drop out
- MAPS4 : Mimaki advanced pass system for optimum print quality
- MWDT : Mimaki weave dot technology – optimises dot placement for even more enhanced print quality
- 3 Ink configuration options (including orange, white, light black, light cyan & light magenta)
- 2 litre ink capacity (SS21 inks) – holds 4 litre per colour in dual CMYK (white is 500cc)
- New fabric wiping system : Enhanced cleaning reduces downtime
- New dual motor media winder : Improved accuracy
- GreenGuard gold certified inks
- Media winder included
- Software included : Mimaki Rasterlink 7 RIP

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NEW: LARGE INK SUPPLY SYSTEM
- Supports SS21 and BS4 inks
- Up to 8C ink set
- 2L or 500ml ink bag supply
- Uninterruptable Ink Supply System*

NEW:
ILLUMINATED PRINT PLATFORM
LED light above the print platform

DAS ADJUSTMENT SYSTEM
Automatic bidirectional print calibration and media feed correction adjustment

NEW: HI-PRECISION PRINT HEADS
2 print heads in staggered mode for high quality print

NEW: NEW WIPER TYPE
Fabric Wiper for automatic cleaning function

NOZZLES MONITORING
NCU and NRS for automatic heads maintenance

USB2.0& ETHERNET
Multifunctional connection

3-WAY HEATING SYSTEM
Sophisticated and quick ink drying

MAINTENANCE AREA
Easy access to cleaning area

NEW: DUAL MOTOR TAKE-UP SYSTEM
Intuitive roll-to-roll media handling with winding capacity up to 45kg

* UISS works in 4-C set

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RENEWED: INK CIRCULATION SYSTEM MCT V2.0

Prevents pigment sedimentation for special inks

NEW: REMOTE CONTROL

MIMAKI Remote Access App

NEW: XY SLITTER

For trimming and X/Y cutting

NEW: ROLL CHANGE SYSTEM

Accepts up to 3 rolls for changing the print media quick and easily within a seconds

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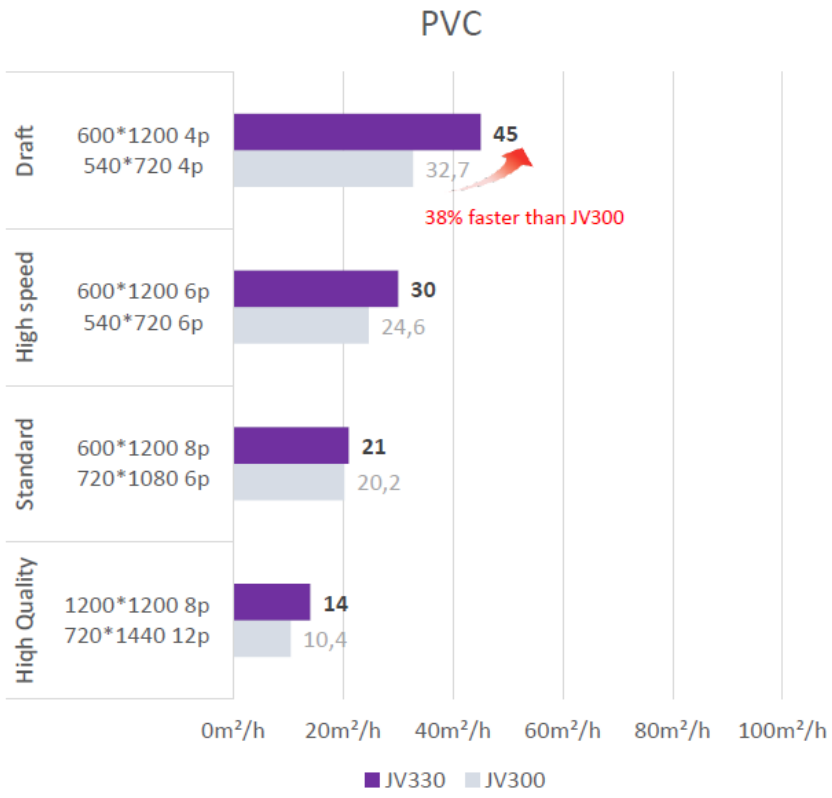
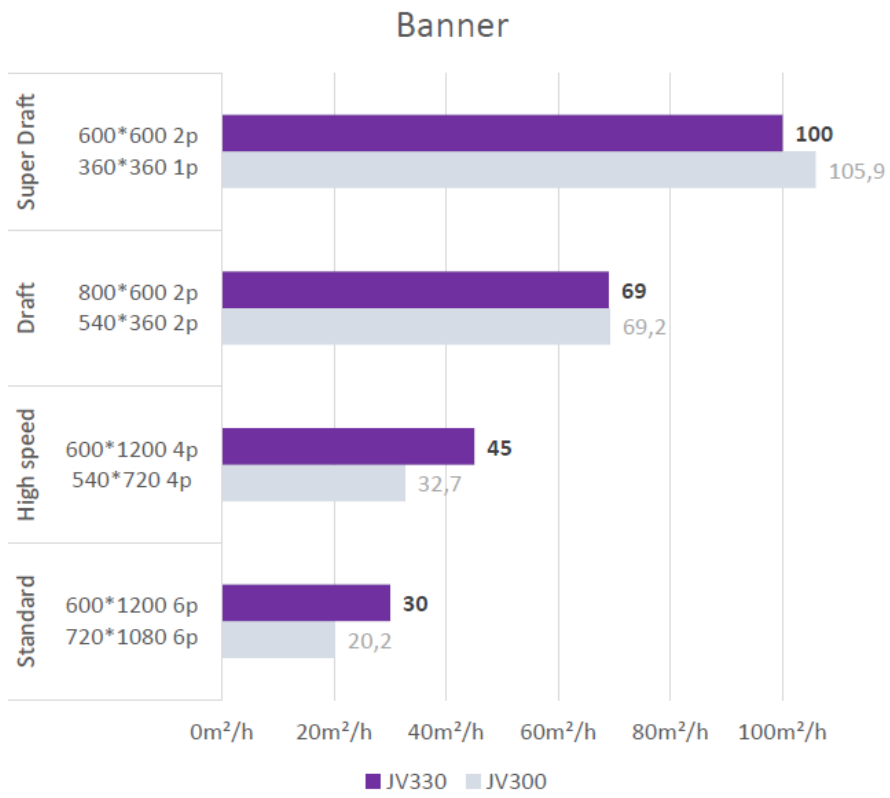
PRINT SPEED: 4C INK SET





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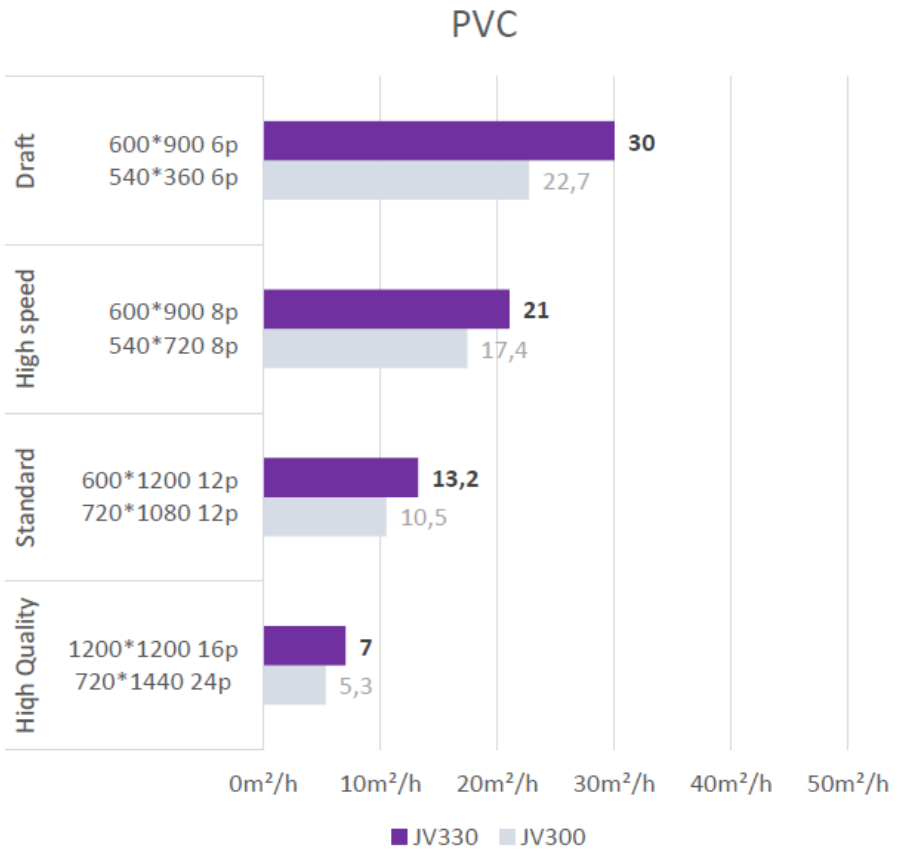
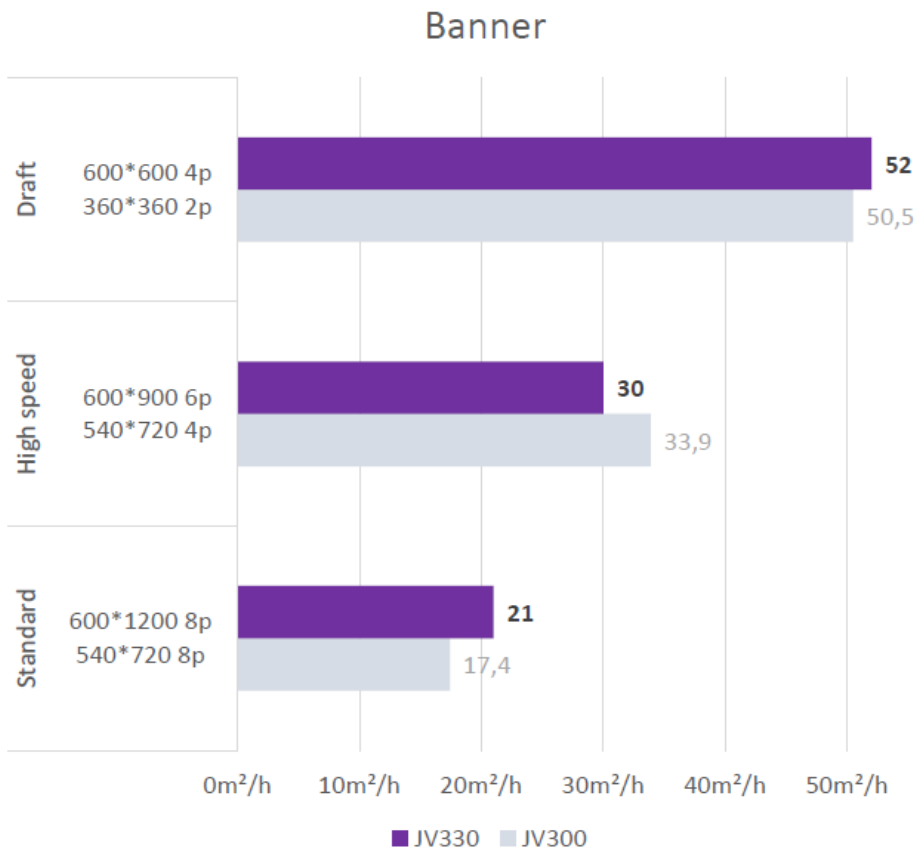
PRINT SPEED: 6C AND 8C INK SET





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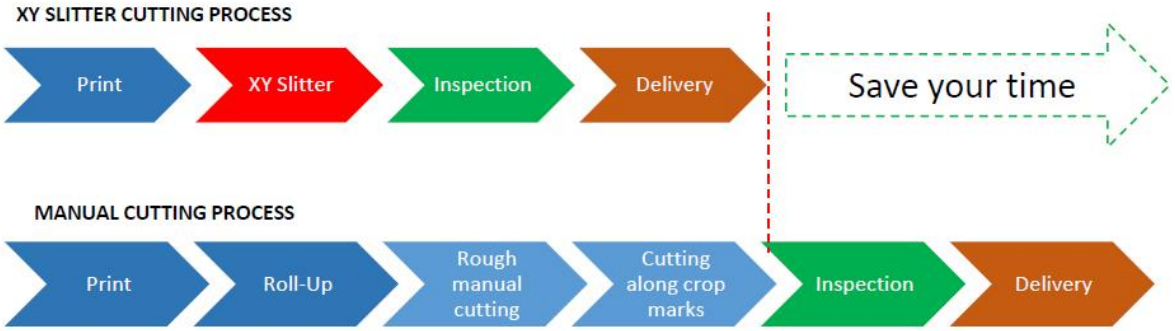
- HIGH PERFORMANCE AUTOMATIC XY SLITTER
  - Inline XY slitter is designed to slit printed jobs of different materials rapidly and accurately
  - Equipped with digital sensors, it compensates for material throughput for misalignment and performs an exact cut
  - The XY Slitter is ideal for cutting large quantities of posters, photos, canvas, vinyl and laminated materials



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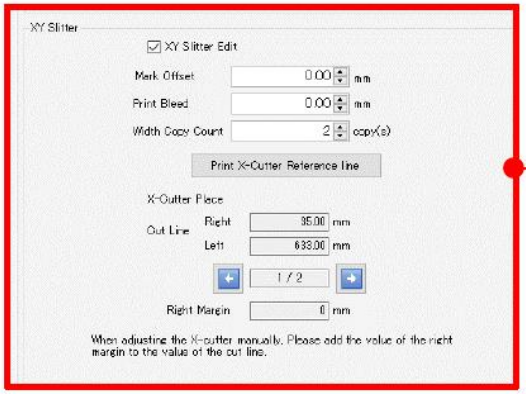
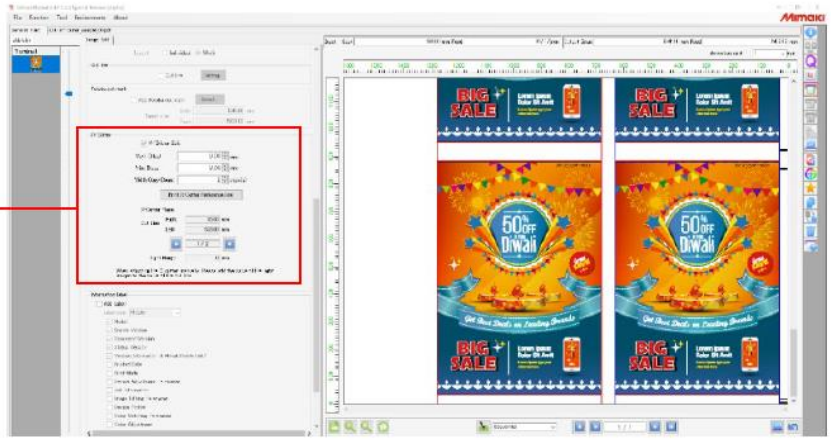
- AUTOMATED PRODUCTION LINE
  - XY SLITTER eliminates bottlenecks and speeds up workflow as secure and accurate print finishing solution
  - The XY Slitter cutters uses cutting marks from RasterLink7 to trace the edge of the image
  - Regardless of any feed misalignment, the XY Slitter will automatically realign itself to the edge of the printed image





OPT-J0532: OPTIONAL X Slitter Assy

SPB-0093: Carbide blade 45°(25L)

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- SAVE TIME AND MATERIAL WASTE IN YOUR PRODUCTION
  - Automatic Roll Change System is designed for quick and easy changing the print media at feeding side
  - The unique Roll Changer increases flexibility and improves the workflow of digital printing
  - Efficient use of space and storage of printing materials in a safe and compact place
  - The compact design makes it possible to set up three rolls requiring little to no extra space

  - Specification
    - The maximum acceptable weight: 3 rolls 90kg, 1 roll 45kg
    - The maximum acceptable media width: 1,620mm

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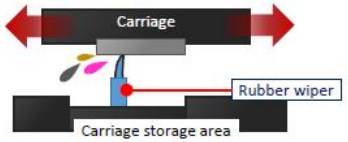
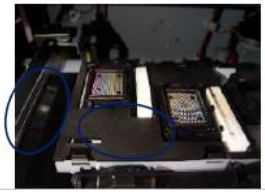
- REDUCED MAINTENANCE TIME AND OPERATIONAL COST
  - The CJV330 has a cloth wiper as an in-line cleaning system.
  - This integrated self-cleaning system allows the printer to perform daily maintenance and reduce downtime

New Fabric Wiper system

SPC-0905: Fabric Wiper

Conventional Wiper system





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- STRENGTH AND STABILITY FOR LONG RUNNING JOBS
  - Media Take-up System with Dual synchronized motors for straight take-up of the printed media
  - The winding accuracy and take-up power have been improved
  - The two motors are attached to the left and right sides of the take-up unit, which evenly distributes the load on the paper tube and improves the winding accuracy

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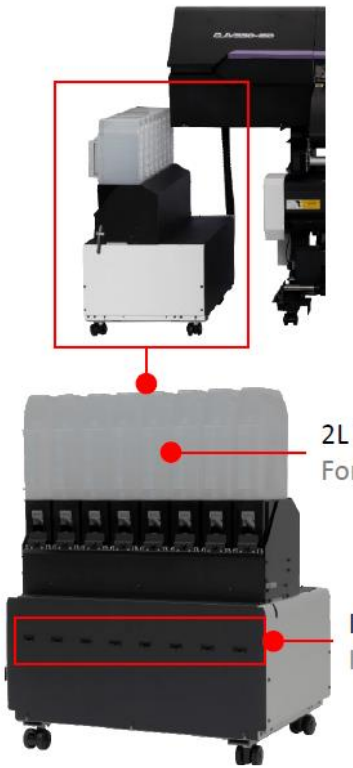
- LARGE INK VOLUME REDUCES RUNNING COSTS
  - The newly designed bulk ink system allows the use of 2L ink bags in CJV330-160 printer
  - Greatly reduce the ink costs while maintaining the consistency and reliability of Mimaki inks
  - In 4C mode it can load up to 4L of ink per color and it works as Uninterruptable Ink Supply System allowing continuous operation



2L INK CONTAINERS
For hosting up to 4L ink per color

IC SLOTS
Ink registration system

Ink Replacement Procedure

1. INSERT THE INK BAG
2. CLOSE THE CONTAINER
3. INSERT THE CONTAINER

Ink mixing system

The new ink supply system allows for easy maintenance of inks that require frequent shaking for consistency.

Simply moving the container back and forth shakes the ink without having to remove it from the tray.

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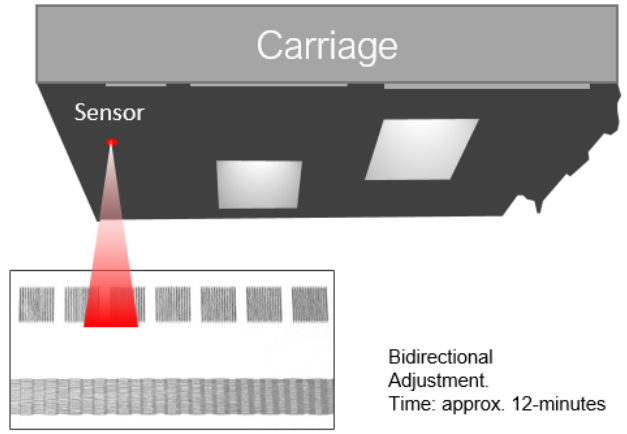
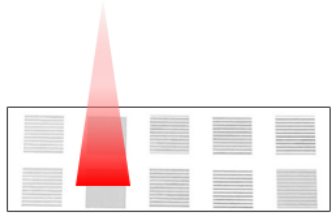
PRINTING AUTOMATION WITH DOT ADJUSTMENT SYSTEM

- Automatic bi-directional print adjustment
  - Automatically recalculates and adjusts the drop landing position depending on distance between the print heads and the media surface
  - Assures the highest dot placement accuracy bi-directionally
  - Eliminates the need for manual adjustments per individual media type

- Automatic media feed adjustment
  - Always optimal media feed preventing horizontal colour banding
  - Assures highest print quality
  - Eliminates manual feed correction and improves overall productivity



Bidirectional Adjustment.
Time: approx. 12-minutes



Feed Compensation Adjustment.
Time: approx. 6-minutes

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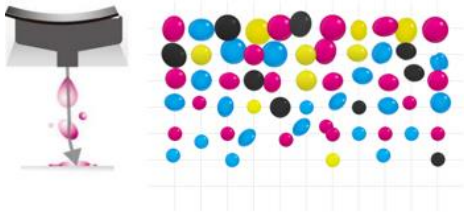
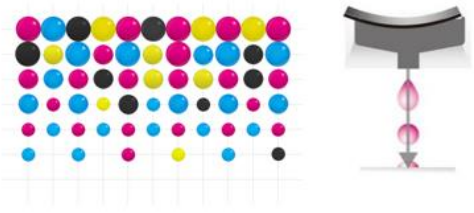
- Waveform control to achieve precise placement of ink droplets
  - The dots are optimized by tuning the frequency depending on ink's viscosity to accurately place and shape individual ink droplets.
  - This results in sharper lines, text and image.

No waveform control
Ink droplets jetted in as deformed circles



With waveform control
Ink droplets are jetted in as nearly perfect circles



Ink dots overlap
↓
Grainy appearance with blurred edge

High accuracy dot placement
↓
Sharp finish without grainy appearance

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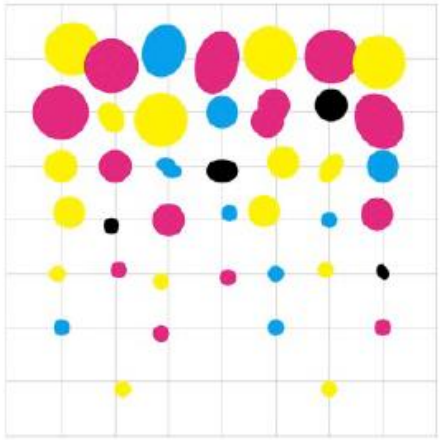
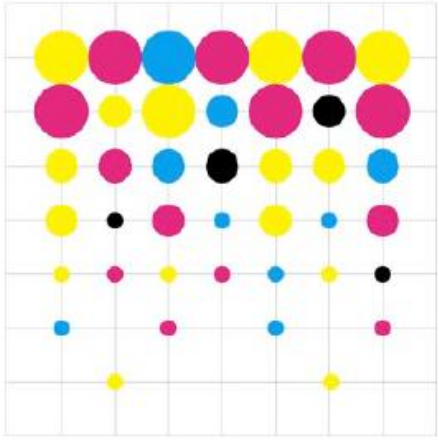
If ink drops are not ejected straight and
if they do not form perfect circles



Ink dots overlap and no accurate dot placement
↓
Grainy appearance and uneven density

CJV150 ejects ink drops in straight lines
with a near-perfect circle



Ink dots do not overlap and gives
an accurate dot placement
↓
No grainy appearance

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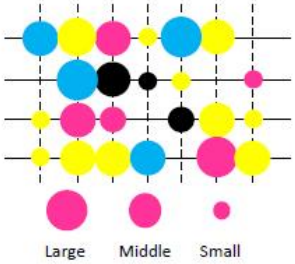
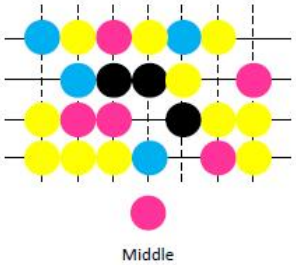
- VARIABLE DOTS: GRAINY APPEARANCE REDUCTION SYSTEM
  - The 3 most optimum drop sizes (Small, Middle and Large) are automatically selected, depending on the print mode
  - With small print dots, starting from 3pl, CJV330 achieves extremely fine detail and realistic photographic expressions
  - Grainy appearance is also reduced by using the 1200x1200dpi high resolution print mode available for high quality printing

Variable dots



Normal dots



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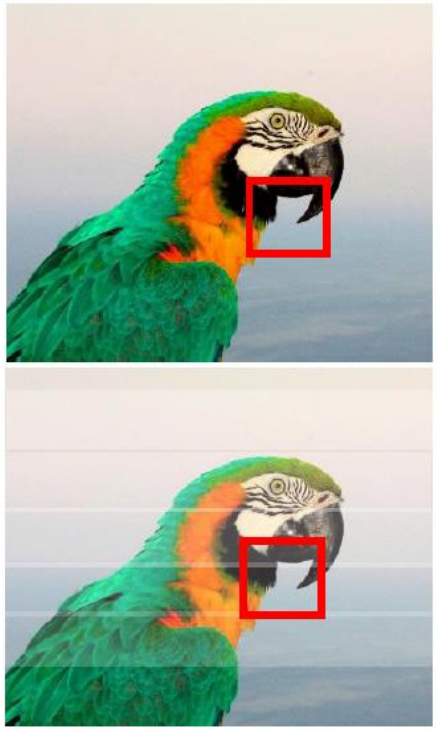
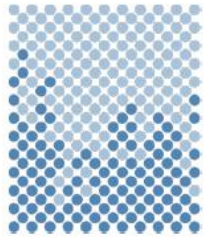
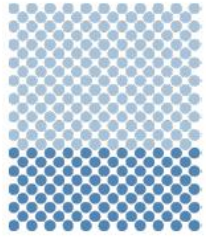
- MAPS4 FOR PRINTING WITHOUT BANDING
  - Standard print process with straight lines causes a slight misalignment between boundaries because of banding or uneven color printing
  - Mimaki Advanced Pass System (MAPS4) reduces banding and uneven color printing applying blurred boundaries between passes like gradation printing



MAPS4 ON
Smooth and invisible boundaries between passes

STANDARD (MAPS4 OFF)
Visible boundaries between passes





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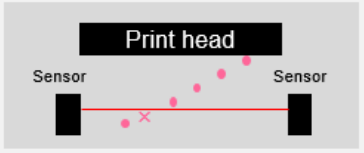
- Automatic maintenance for uninterrupted printing
  - Continuous unattended operation by interlocking the Nozzle Check Unit (NCU) and Nozzle Recovery System (NRS)
  - Requires less checking time and less media waste, compared to competitors

NCU (Nozzle Check Unit)

Automatically detects nozzle clogging. When clogging is found, the nozzles are automatically cleaned.

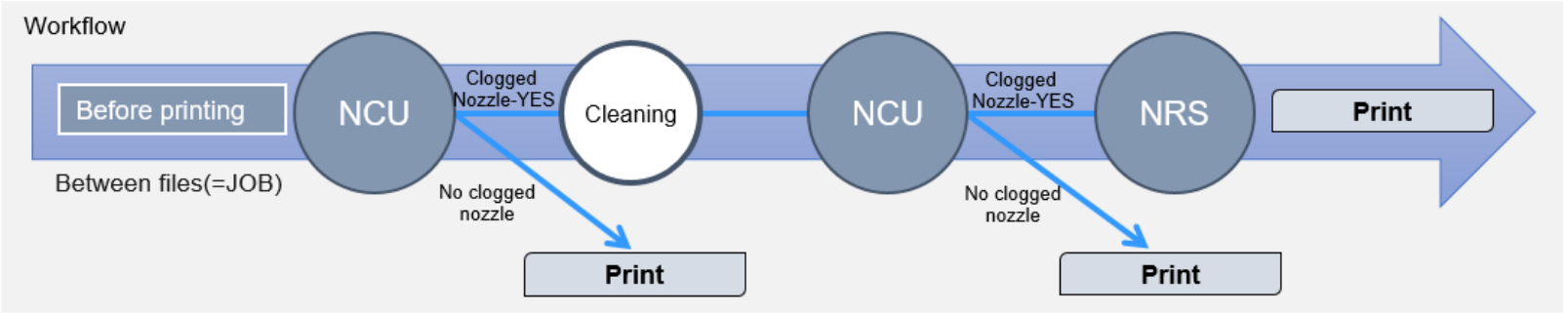
Infrared light detects missing ink droplet(s)



NRS (Nozzle recovery system)

When the clogged nozzle is not resolved by cleaning, the defective nozzle is substituted by working nozzles automatically.

2 ways of NRS
- Manual input by operator: Max. 10 nozzles per 1 nozzle line.
- Automatic input by NCU: Max. 16 nozzles per 1 nozzle line.



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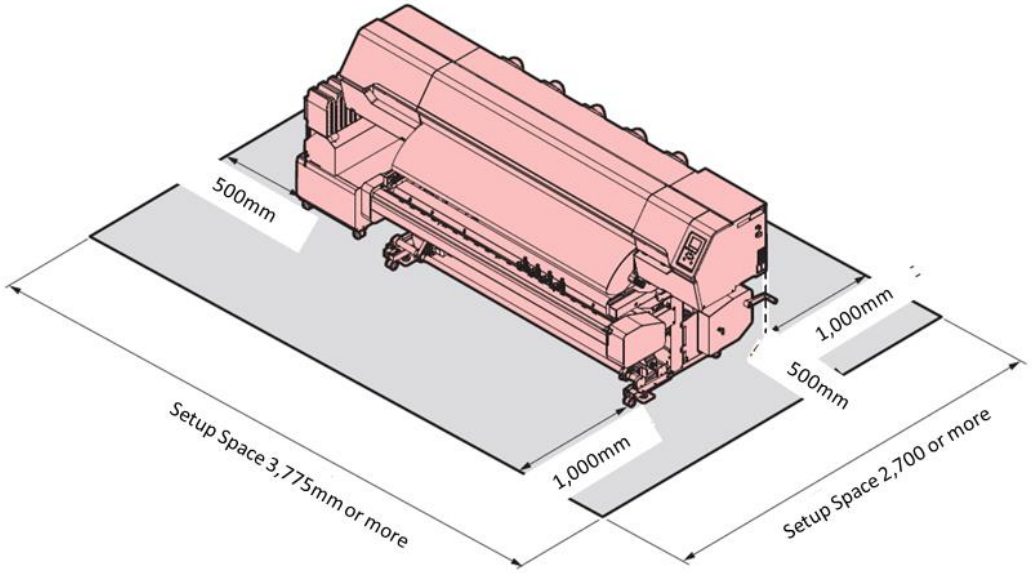
- Required installation space



Installation environment

1. Make sure to use in a ventilated environment
   Environmental temperature: 20˚C ~ 30˚C
   Quality assurance temperature: 20˚C - 25˚C
   Humidity: 35 - 65%Rh (no condensation)
   Temperature gradient: +/- 10˚C/h or less
   Dust: 0.15mg/m^2 (comparable office)
2. Do not install on carpets, etc. because those are easy to be charged and it can effect the image quality
3. Please use the printer in a well-ventilated environment.
4. Do not install in the place where using a photograph fixer or the place with acid steam like acetic acid, hydrochloric acid

* The space for PC is required separately.
* For the maintenance purpose, space of 500 mm or more is required around the machine.

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- GREENGUARD GOLD CERTIFICATION FOR MIMAKI ECO SOLVENT INKS
  - Mimaki ECO solvent inks are GREENGUARD GOLD certified.
  - Products that are GREENGUARD GOLD certified meets the rigorous standards for low emission of volatile organic compounds (VOCs) and ensures that a product is acceptable for use in environments such as schools and healthcare facilities.

- RECYCLABLE INK PACKAGE
  - In September 2015, the United Nations launched the 17 Sustainable Development Goals (SDGs) for the 193 member states of them as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity, by 2030.

  - An important part of the overall environmental performance is the recyclability of used consumables. SS21 and BS4 inks are supplied in an eco-friendly packaging consisting of 4% plastic and 96% recyclable cardboard container. This packaging can be recycled in accordance with local recycling regulations.

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What next ?

Samples

- We can send you generic samples

Or

- We can print your products using your artwork or our files

We can record the samples being printed and send you the recording

Demonstration

- Book to see it in the flesh and have a go at using it

Or

- Request a remote demonstration

Request a quote : Click here

Explore finance options : Read about finance

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