

Sales Guide

Mimaki



JFX600-2513

Industrial Large format flatbed UV-LED printer

 Sitotehnika  ST Graf

TERMS OF USE

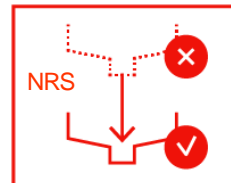
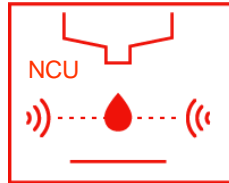
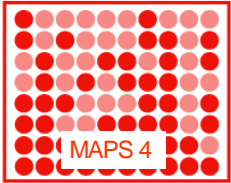
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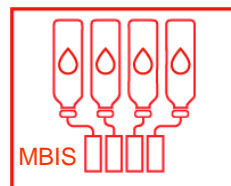
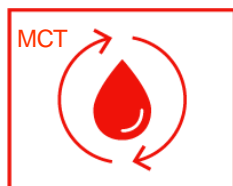
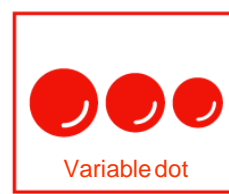
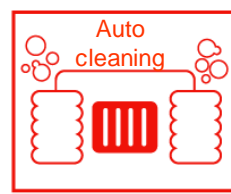
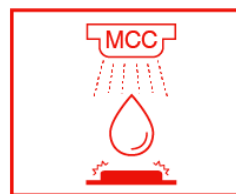
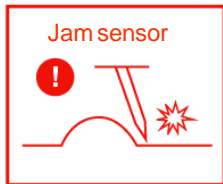
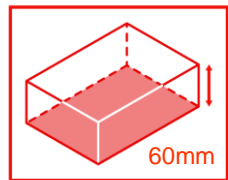
JFX600-2513 AT A GLANCE

Mimaki

Core technologies



Features



PRODUCT OVERVIEW



SAFETY OPERATION SENSORS

The printer stops operating when the safety sensor is activated by an obstacle

MAINTENANCE AREA

Easy access to cleaning area

MEDIA JAM SENSORS

Crash Sensor Technology prevents the heads damage

HEADS CARRIAGE

16 printheads in staggered mode for high-speed print

VACUUM CONTROL

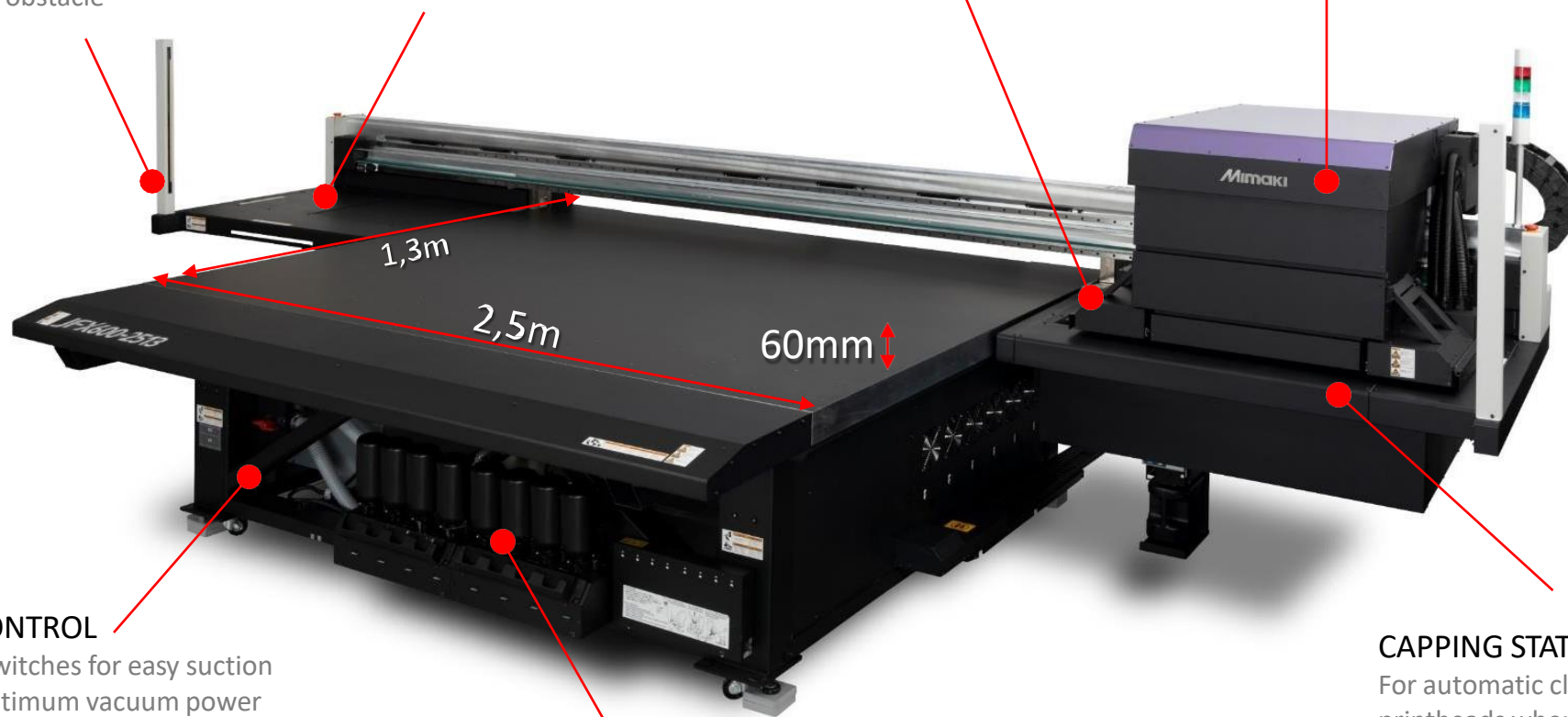
The vacuum switches for easy suction control and optimum vacuum power of table areas

LARGE INK SUPPLY SYSTEM

- 4C* ink set for fast print
- 4C+SP or 7C* including light colors, white and clear for special applications
- Available in 1000ml bottle

CAPPING STATION UNIT

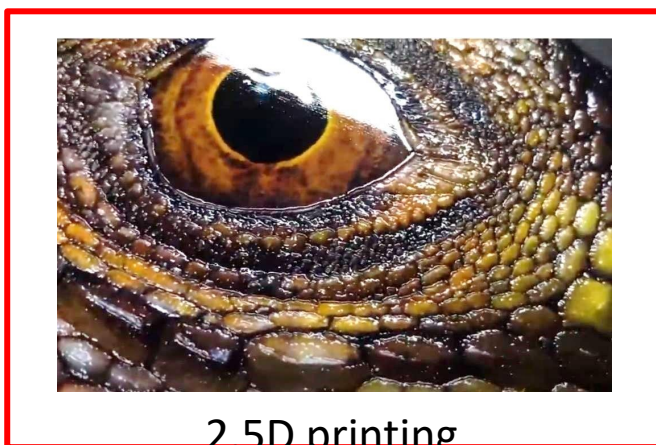
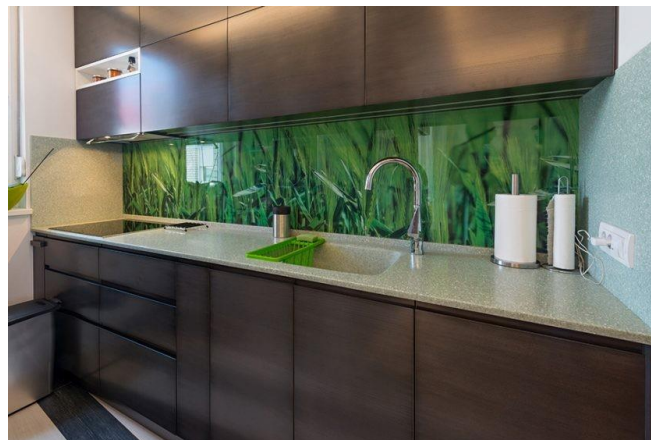
For automatic cleaning and storage of printheads when the printer is not printing



APPLICATIONS

Mimaki

- Direct printing on a wide range of applications such as furniture, display stands, wall decorations, indoor and outdoor advertisements...



2.5D printing



KEY SPECS

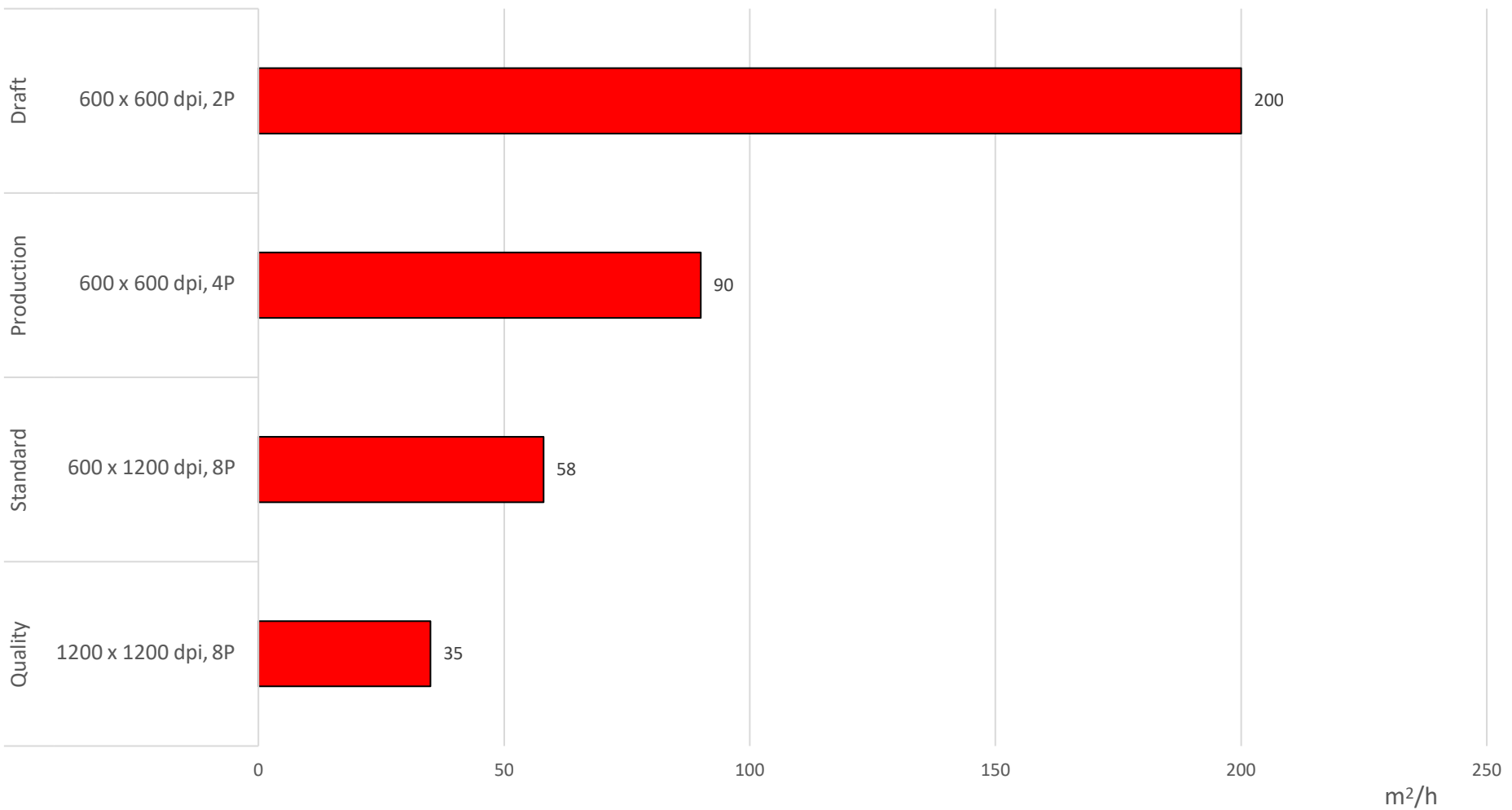
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- Printable area 2500x1300mm
- Max 1,200 DPI
- Min. ink drop 5pl.
- Max. media height 60mm
- JFX600-2513, 16 print heads, High speed 200m²/h – Production 90m²/h – Quality 35m²/h
- LED-UV curing
- LED UV inks LH-100, LUS-120 and LUS-150, available colours: CMYK Lc, Lm + Wh,Cl,Pr
- LED-UV ink LUS-190 and LUS-210, available colours: CMYK + Wh, Cl
- 1000ml ink bottles



PRINT SPEED: SINGLE LAYER

4C* CMYK

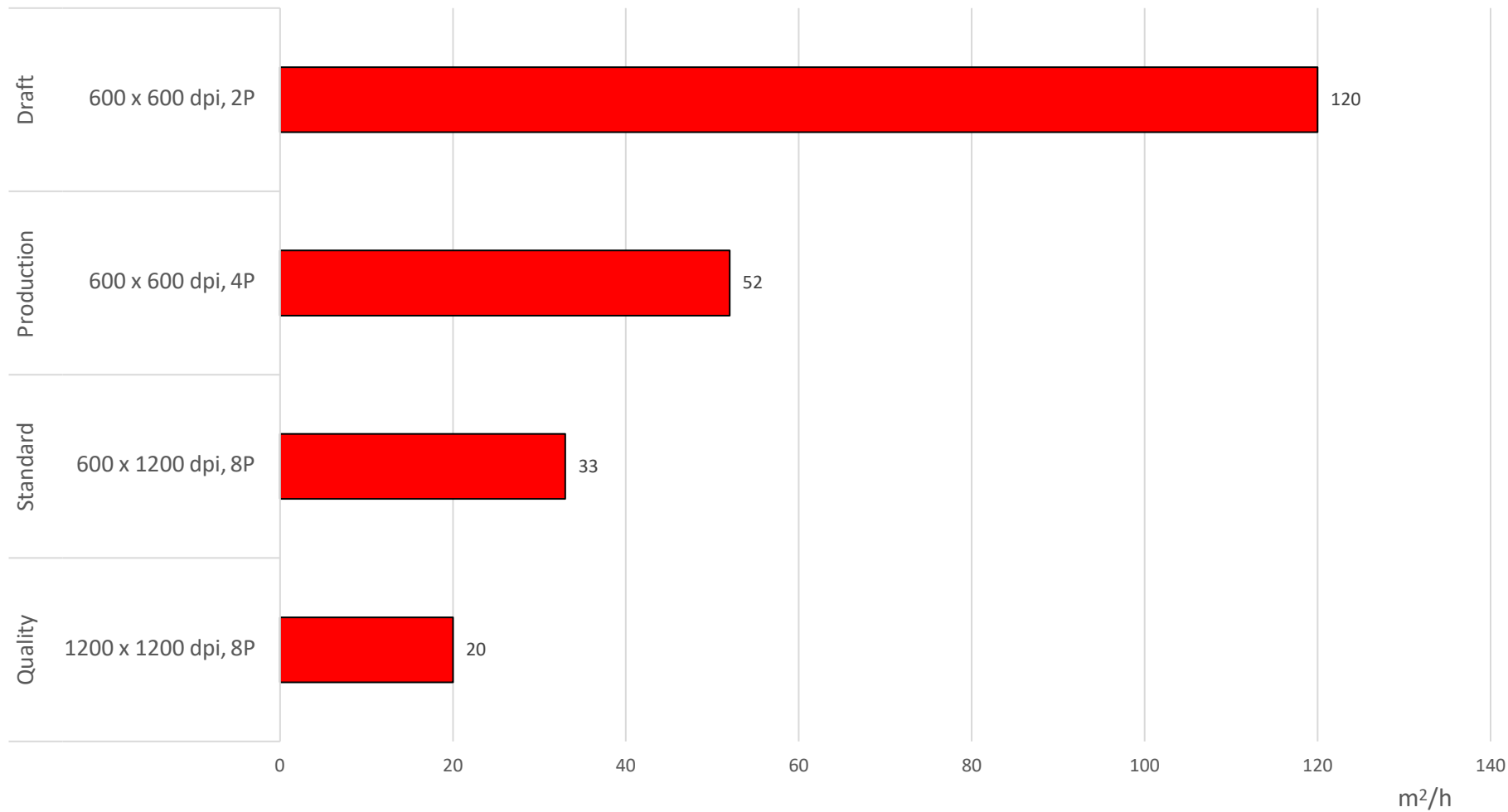


* 4C ink configuration availability TBD

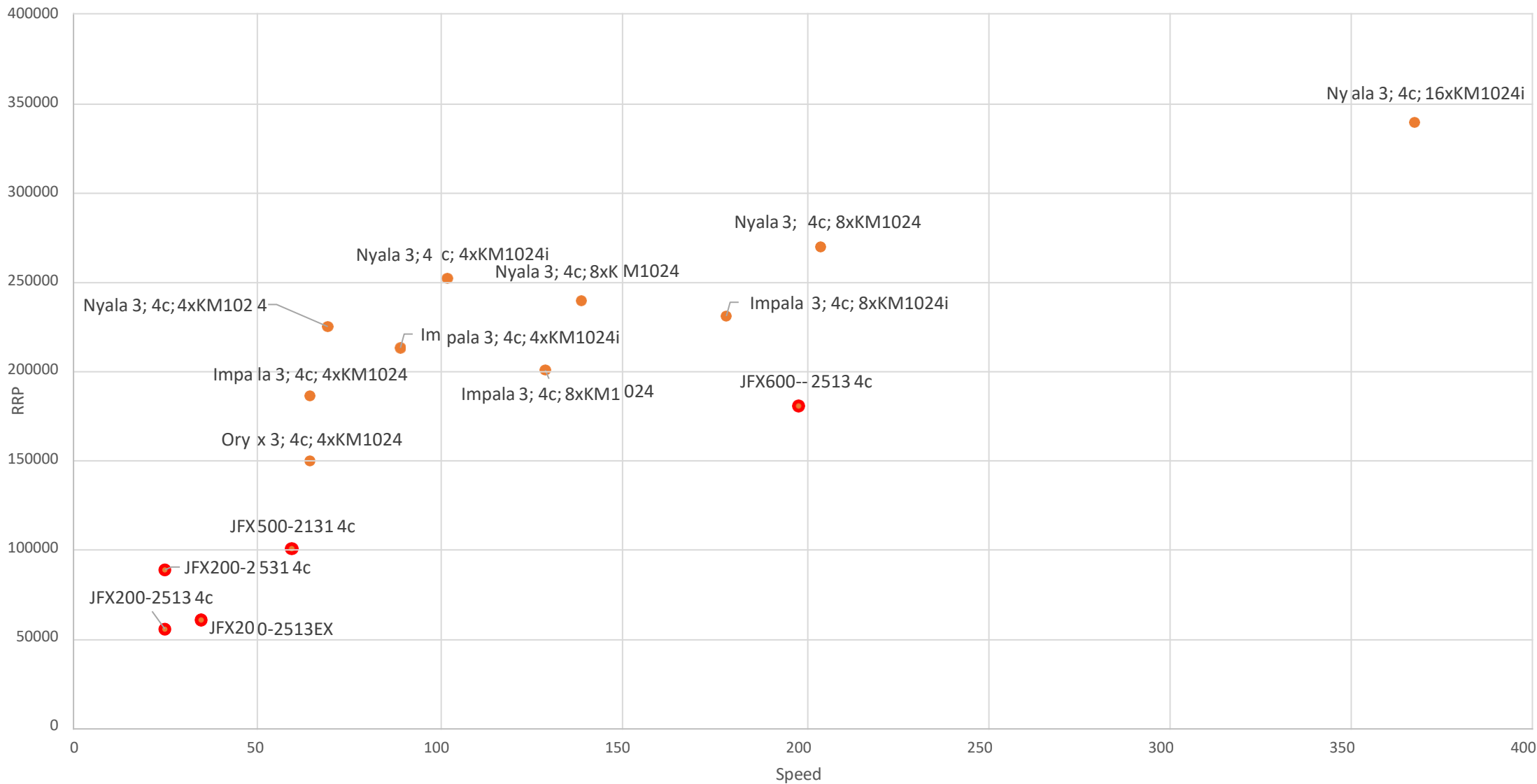


PRINT SPEED: SINGLE LAYER

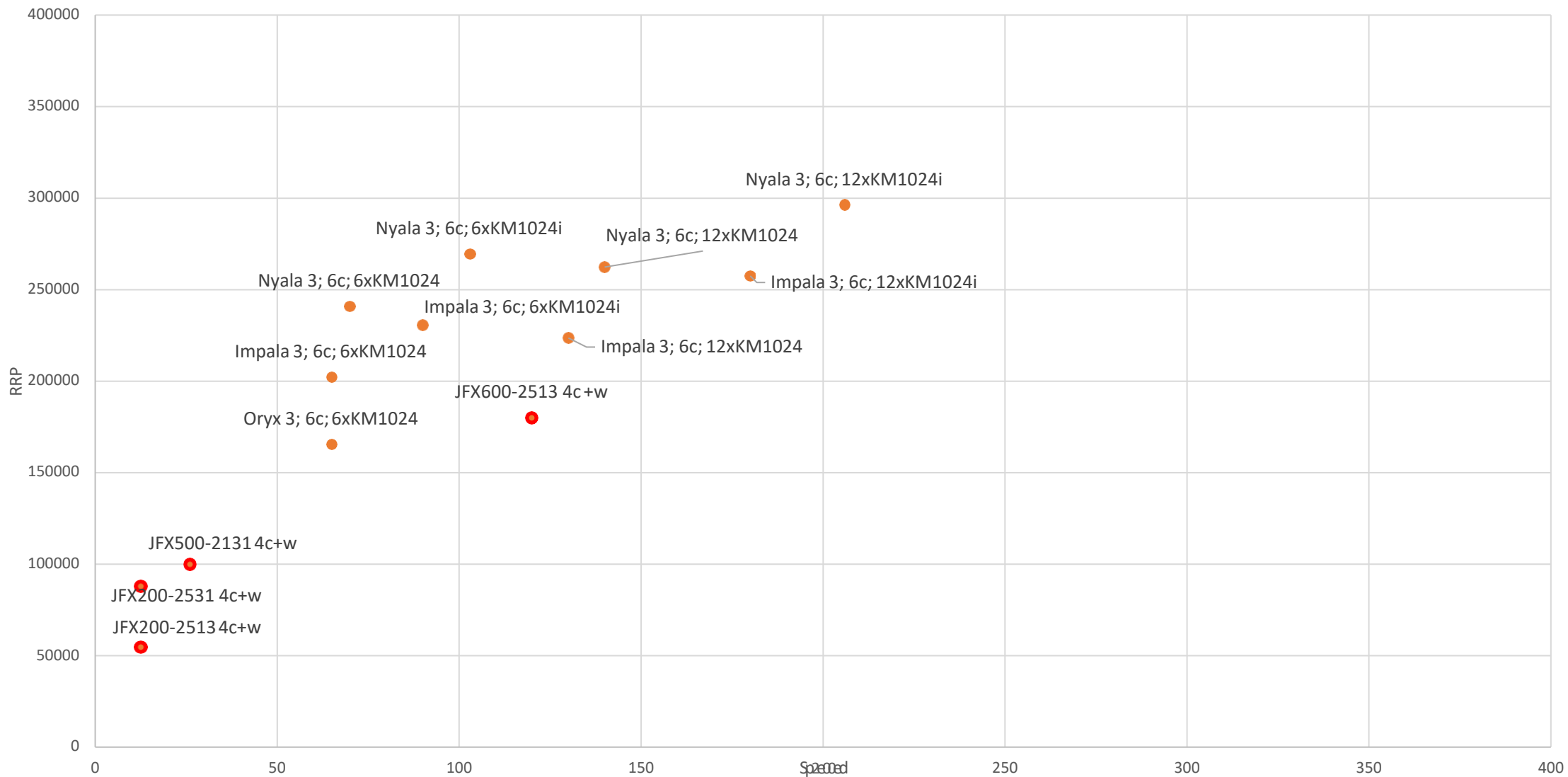
4C + 4SP: CMYK + W CI Pr



MARKET OVERVIEW 4C



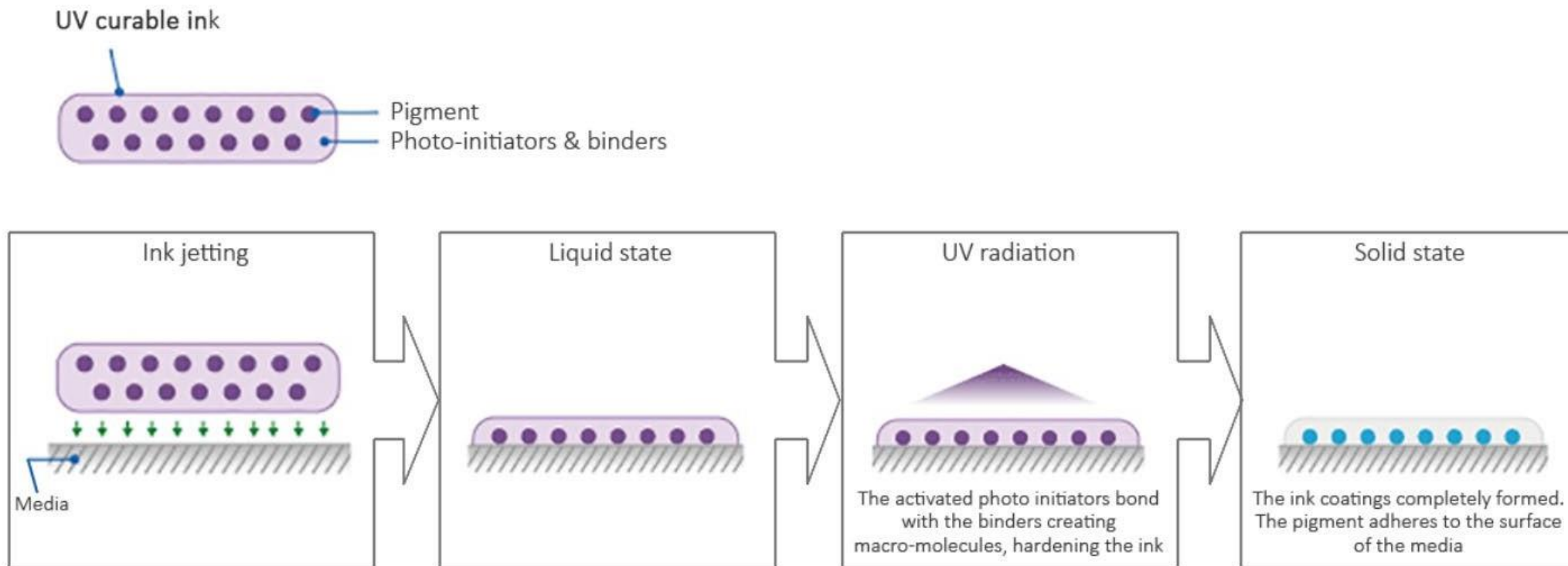
MARKET OVERVIEW MULTICOLOUR

LED-UV CURING








UV ink stays on top of the media when it is printed. It is cured immediately when exposed to UV light. That is why printing on various media, coated and uncoated, is possible with UV ink.



MULTIPLE LED-UV INKS



Ink type	Available Colors	Features	Applications
LH-100		<ul style="list-style-type: none"> Ink layer is hard High scratch resistance High solvent resistance Less tackiness 	<ul style="list-style-type: none"> Indoor sign board Novelty decoration Name plate, etc.
LUS-120		<ul style="list-style-type: none"> Flexible enough to fold The media is less likely to deform after printing Good media compatibility 	<ul style="list-style-type: none"> Sign board Printing on flexible material Printing on the material which requires post processing such as cutting or heating
LUS-150		<ul style="list-style-type: none"> Flexible enough to fold The media is less likely to deform after printing Good media compatibility 	<ul style="list-style-type: none"> Sign board Printing on soft material Printing on the material which requires post processing such as cutting or heating
LUS-190		<ul style="list-style-type: none"> Flexible and stretchable Expected up 200% on cast vinyl media Easy to apply, easy to remove High scratch and weather resistance 	<ul style="list-style-type: none"> Decorative printing Printing on soft material Printing on the material which requires post processing such as cutting or heating
LUS-210		<ul style="list-style-type: none"> For non-EU countries Flexible and stretchable Expected up 210% on cast vinyl media Easy to apply, easy to remove High scratch and weather resistance 	<ul style="list-style-type: none"> Decorative printing Printing on soft material Printing on the material which requires post processing such as cutting or heating

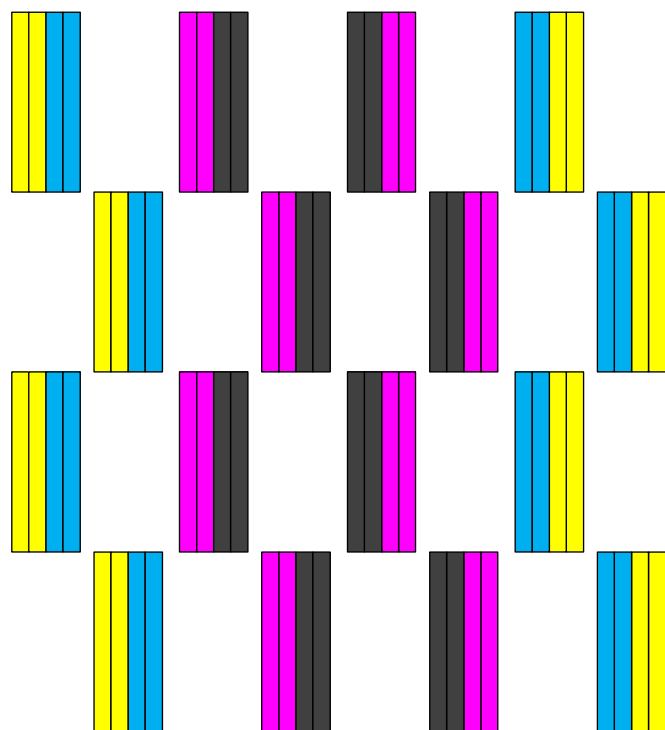
* 4C ink configuration availability TBD

PRINTHEADS CONFIGURATION: JFX600-2513

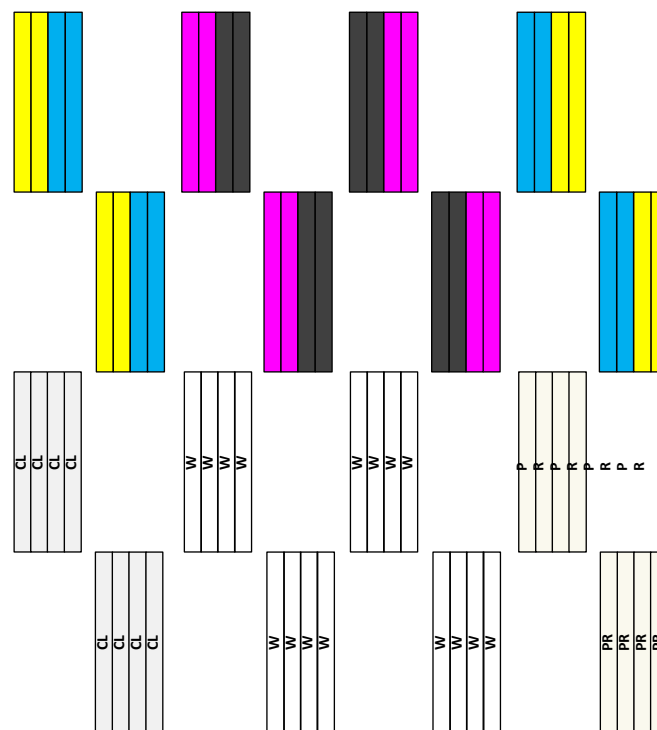


- 16-printheads model

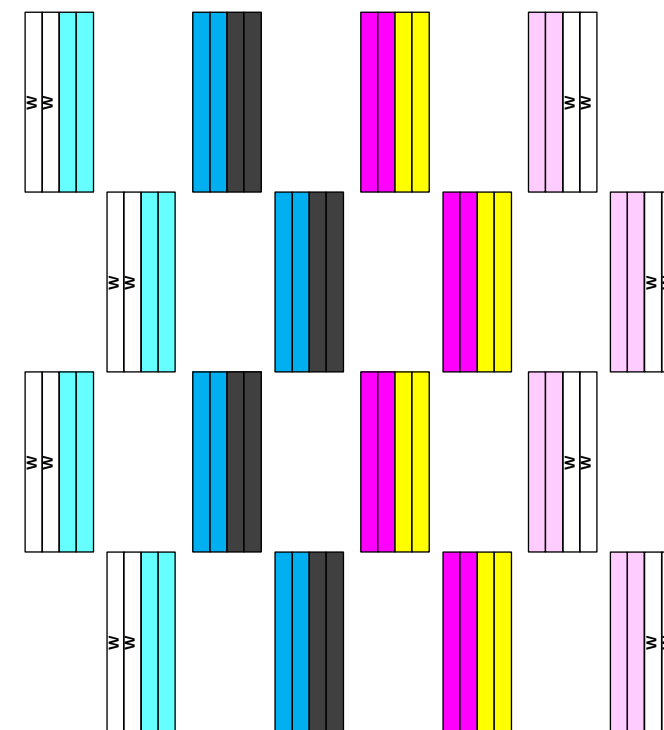
4C*: CMYK



7C: CMYK W CLPR



7C: CMYK Lc Lm W



* 4C ink configuration availability TBD

CERTIFICATES

GreenGuard Gold certification for LED-UV inks

Mimaki LED UV LH-100, LUS-120, LUS-150, LUS-190 and LUS-210 ink 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.

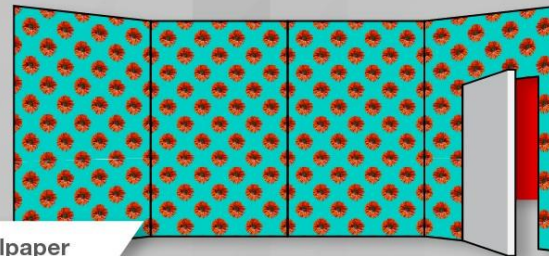
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GREENGUARD GOLD

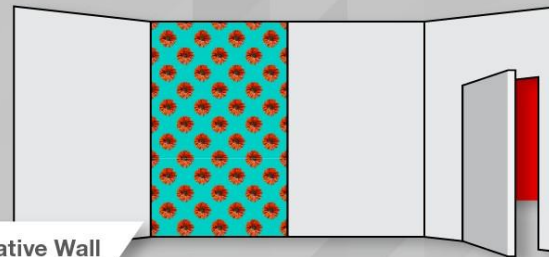
CERTIFIES DIFFERENT APPLICATIONS
LOW VOLUME PRODUCT CATEGORY

Wallpaper



Full decorated room 33.4 m² (360sqf)
In an office environment
(94.6 m² in classroom environment)

Decorative Wall



1 wall highlight < 10.4 m² (112sqf)
In an office environment
(31.6 m² in classroom environment)

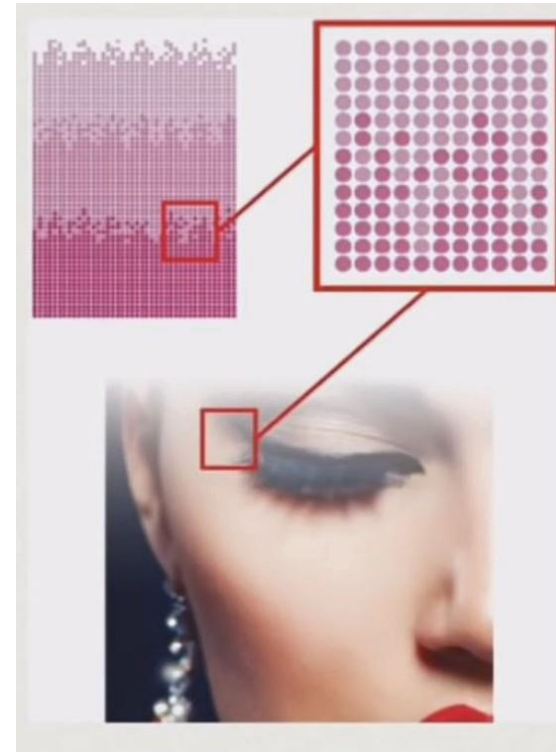
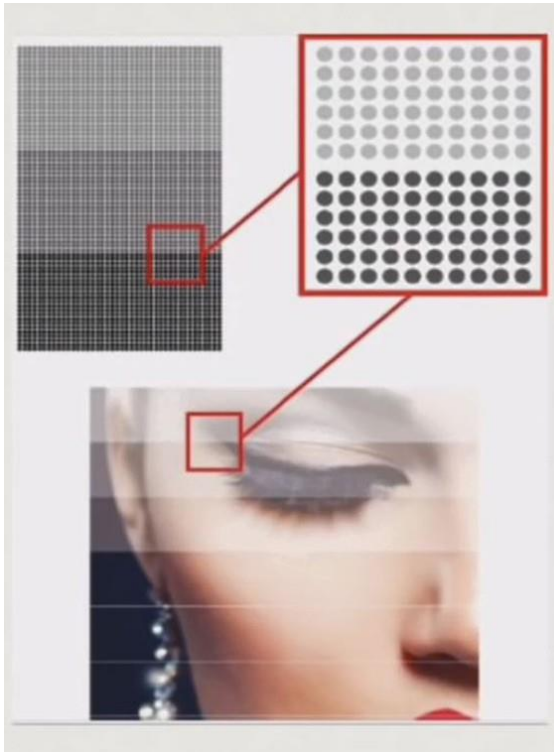
Signage



Small sign on wall < 3 m² (32sqf)
In an office environment
(< 11.9 m² in classroom environment)

LH-100
LUS-120
LUS-150
LUS-190
LUS-210

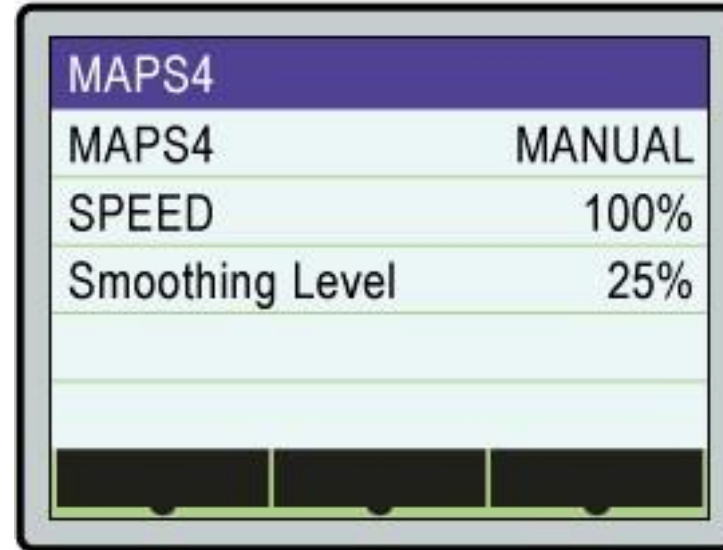
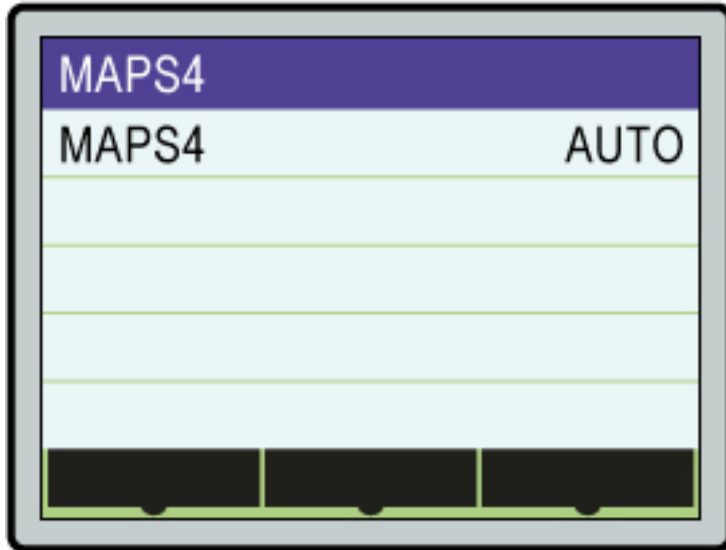
MAPS4



Printing with no anti pass system, printing a pass jets ink in a straight line, enlarging the risk of banding.

Maps is being considered as the most effective anti pass banding systems available today. With every pass, Maps is using an unique algorithim calculating the most effective way of jetting the ink drops to avoid visible banding. This is constantly changing depending on ink color, coverage and printing speed.

CONTROLLING MAPS

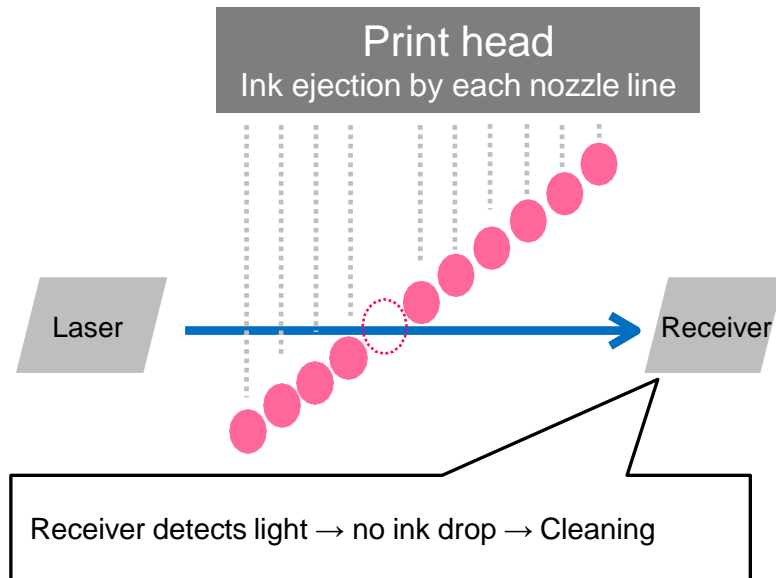


Mimaki gives the printer operator the possibility to change the Maps effect on smoothing and printing speed as auto mode is doing its best calculation for you. With these Maps parameters every operator can achieve his highest speed on his acceptable print quality. As all other brands having static settings of their anti pass system, so no parameters to influence the quality, Maps really offers a huge benefit for every printer owner.

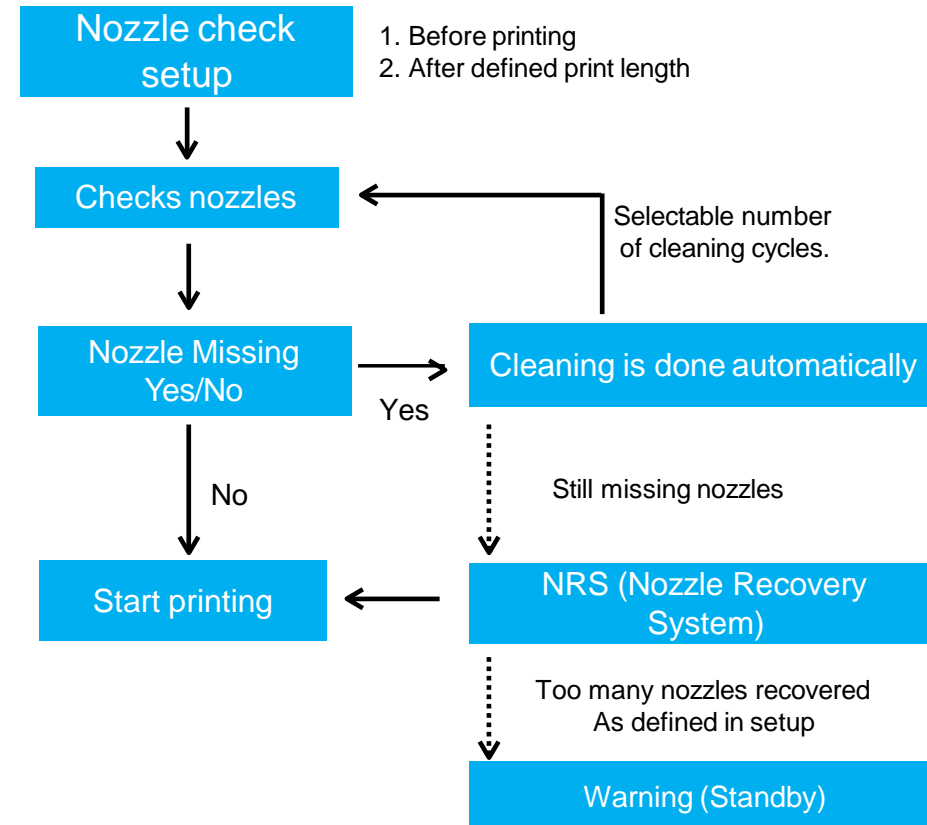
PRINT HEAD DURABILITY

- NCU (Nozzle Check Unit) for unattended continuous printing

The NCU unit



NCU operation flow



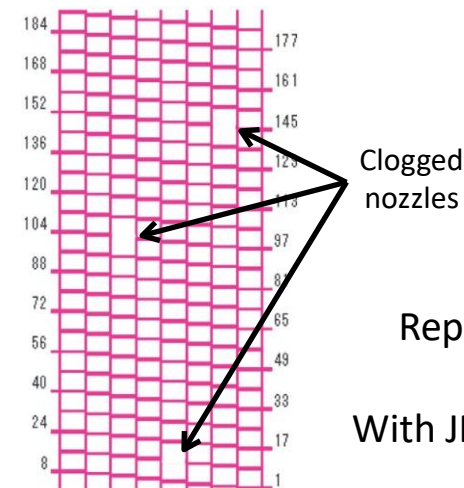
CONTINUOUS OPERATION



NRS (Nozzle Recovery System)

- No need for direct service intervention
- Increases the uptime
- Replaces missing nozzles by open nozzles
- Makes printing possible even if nozzles are missing

Nozzle check pattern

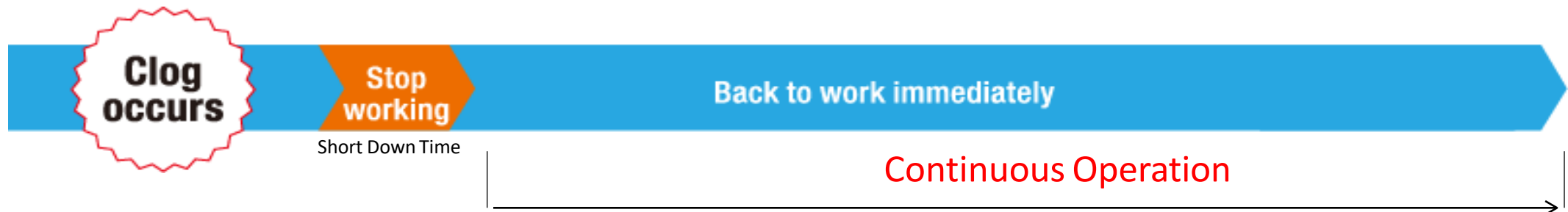


Register the number
of missing nozzles



Replacing the clogged nozzles by using
reserved open nozzles.
With JFX600 / 550 NRS can be automatically
activated by NCU

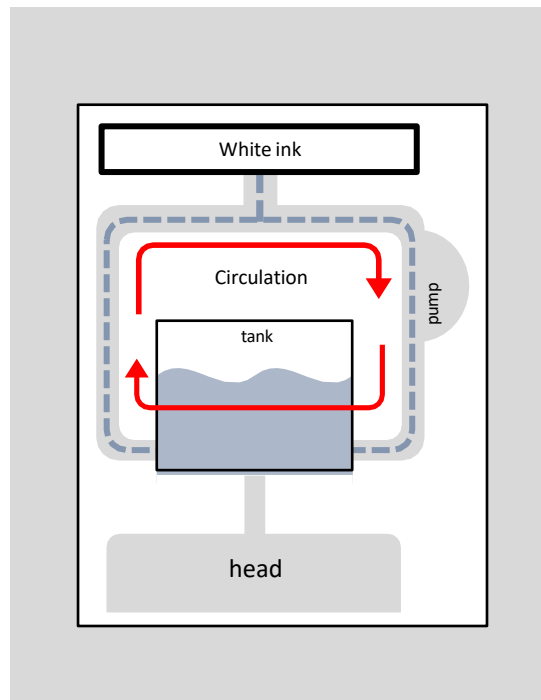
Continuous printing by NRS



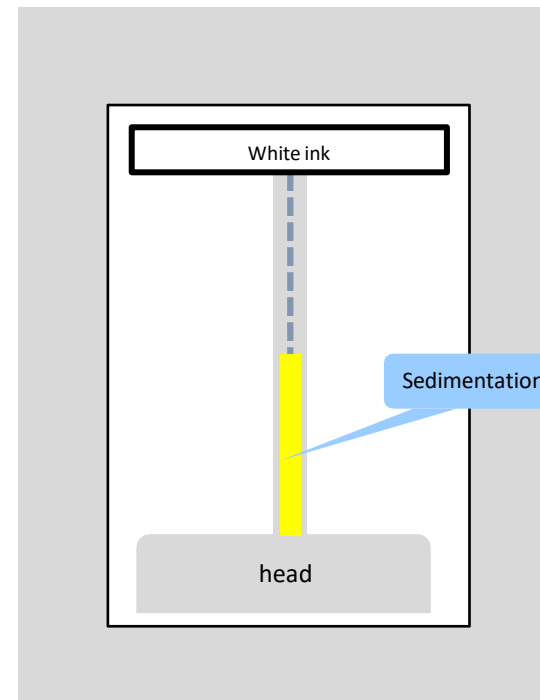
PRINT HEAD DURABILITY



- **MCT (Mimaki Circulation Technology) for White ink**
 - Prevents nozzle clogging in the print head
 - Reduces the amount of waste ink
 - Prevents ink sedimentation
 - Ensures a constant supply of quality ink



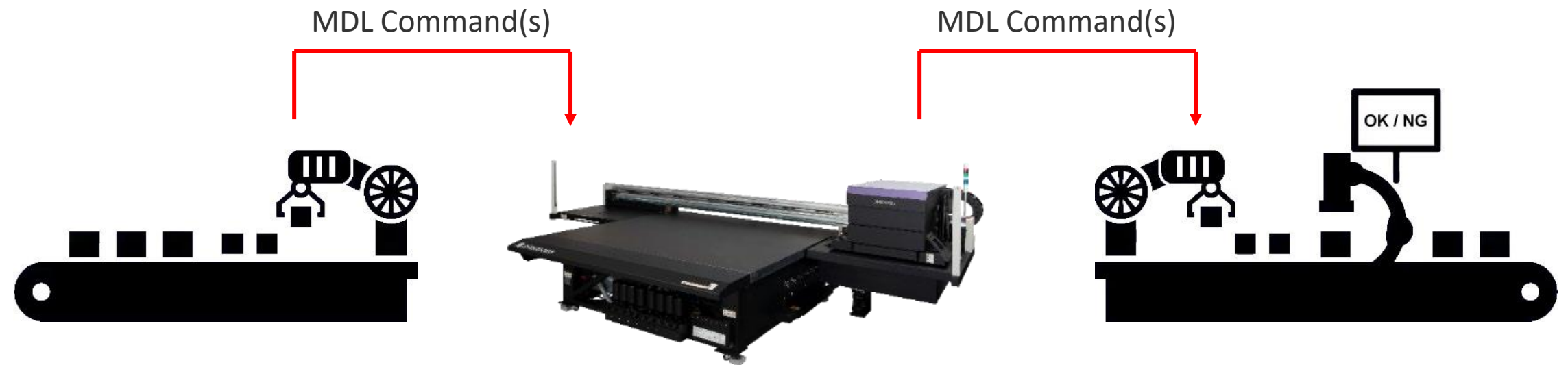
JFX600-2513



Conventional white ink line

IMPROVED FUNCTIONALITY: I.O.T READY

- MDL commands are used to embed Mimaki printers with the unattended on-demand production lines from customer production systems and peripheral equipment.
- Utilization of the MDL commands controls the position and height of the print head and the operation of the printer, such as the start of printing.



1. The robot arm automatically loads the table.

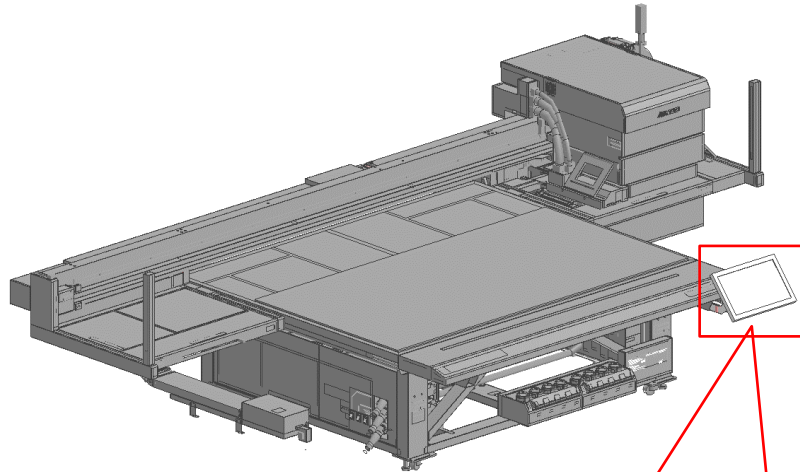
2. Start printing.

3. Robot arm automatically collects the printed objects.

MPC: PRINTER OPERATION SOFTWARE

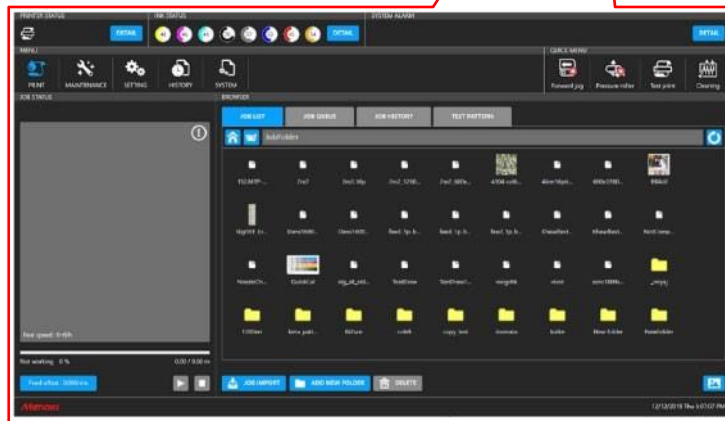


- MPC (*Mimaki Printer Controller*) software is installed on built-in PC for setup and operation of the printer and for ordering of printing jobs



Built-in PC with MPC software:

- Printer setting and maintenance
- Printer operation
- Print data output and control



MPC main screen:

- Easy printer setting
- Monitor the condition of printer
- Order and setup of print data

2.5D PRINTING

Mimaki

- JFX600-2513 features an entirely new 2.5D printing technology that prints textures on any substrate with an easy “one-Touch” workflow.
- Prepare and print 2.5D designs is now possible for everyone with this new printer. No experienced graphics specialist needed.



LED-UV

Mimaki

• Clear ink

- Adds value to products
- “Glossy finish” adds shiny effects to high-quality designs
- “Matte finish” enhances the texture printing
- “Embossed texture print” by printing clear ink in multiple layers
- 129 Artista UV Texture patterns available



Glossy finish



Matte finish

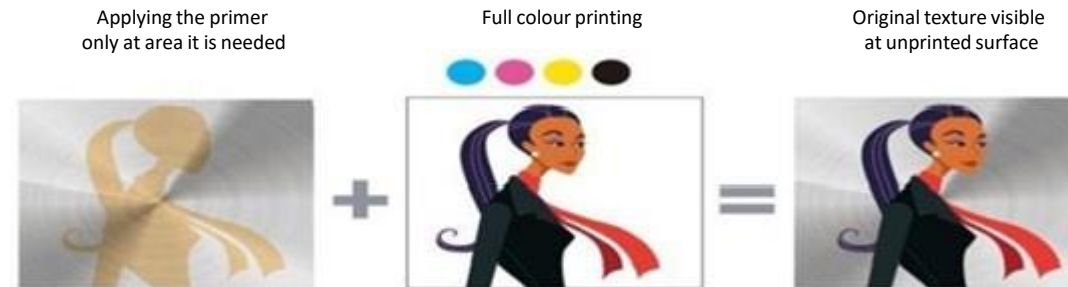


Embossed texture print

PRINTABLE PRIMER PR-200

• Primer

- Primer improves the adhesion
- Primer can be applied just on the print area retaining look and feel of media
- Effective and economical use of primer



Adhesion difference with or without primer

With primer
(primer + white + colour)



Acrylic



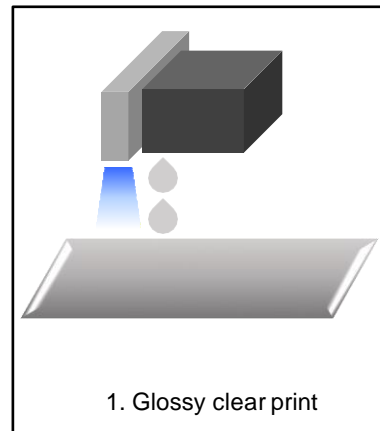
Without primer
(White + colour only)

IMAGE QUALITY CONTROL - MCC



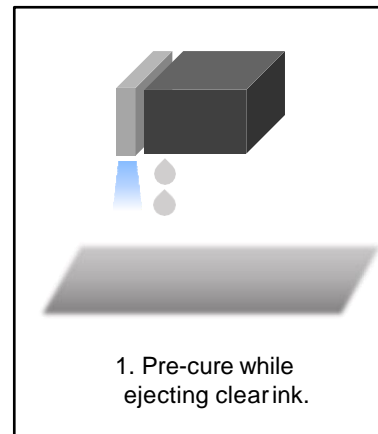
- **MCC, Mimaki Clear Control for high quality clear printing**
 - Improved UV-LED lamp controls the curing of clear ink
 - Providing beautiful glossy clear and preventing dust and air bubbles
 - Provides sharp expression of edges and textures

Mimaki

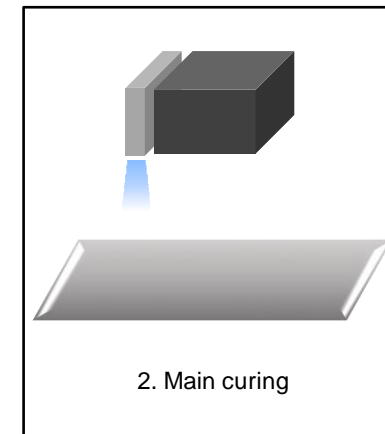


Complete print job in 1 pass
Glossy clear can be printed and cured
with CMYK colour

Competitive printers



Complete print job in 2 passes
1st CMYK colour and clear printing with pre-curing
2nd Main curing



Raster Link 7

Main NEW functions...

1

New HARLEQUIN RIP core for more accurate handling of PDF files with drop shadows and transparencies



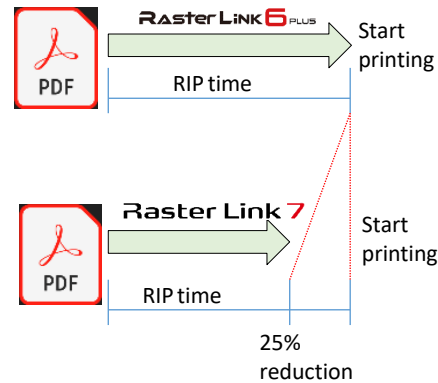
Raster Link 7



Transparency will be printed accurately.

2

Up to 25% faster processing of complex PDF files thanks to a new powerful RIP core.



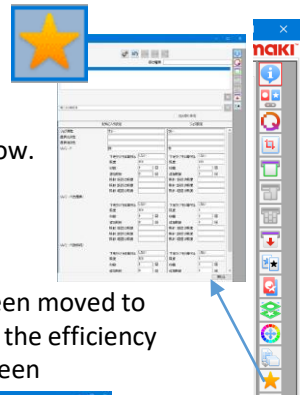
3

Variable Data Printing allows users to easily create a series of digital prints with dynamic variations of text and photos

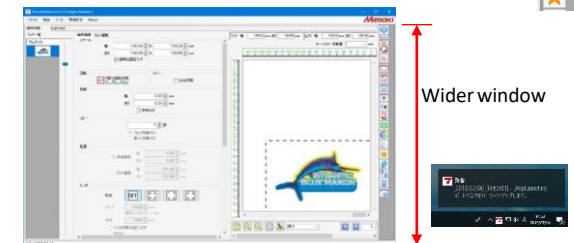


4

Print condition can be added in Favorite window.



The log window has been moved to the taskbar, increasing the efficiency and usability of the screen



Raster Link 7

The Mimaki logo is displayed in white text on a red rectangular background in the top right corner of the slide.

- **Mimaki's own RIP (Raster Image Processor) software...**
 - Comes in the box
 - All relevant print job information in one screen
 - 16 bit rendering for smooth gradation
 - Free downloadable media profiles
 - Accurate ink consumption calculation
 - Choice of multiple profiles in one job for testing new media
 - 30 favorite print presets
 - ID Cut
 - Color Replacement
 - Estimated completion time display
 - Print Status display
 - Improved PDF printing with transparency, drop shadows and colour gradients
 - faster RIP time
 - Variable Data Printing
 - Save your print configuration as a favourite

USP'S OF JFX600-2513

The Mimaki logo is displayed in white text on a red rectangular background in the top right corner of the slide.

- High productivity at low cost of ownership
- NCU & NRS for continuous operation
- MAPS → quality printing even on high speed
- 2.5D printing → print up to 17 layers in just 4 simple steps (no need for experienced designers)
- Choice of different ink types
- Greenguard Gold certification
- LED-UV curing unit
- Artista textures library → creating easy surface textures
- Advanced safety functionality → prevents print head damage
- RIP Mimaki Rasterlink7
- Print stability with NCU, NRS, MCT, MAPS, Variable Dot (Mimaki features)
- 1 year full warranty incl. print heads

Mimaki

Thank you

