

Sales Guide

Mimaki



CJV300-160Plus

Wide Format Inkjet Printer Cutter for Sign & Graphics

Date: 15-10-2019

Version: 1.1EU

TERMS OF USE

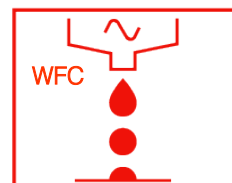
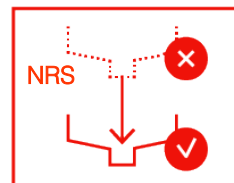
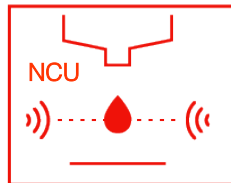
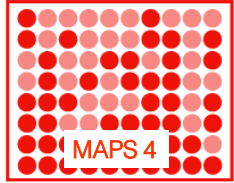
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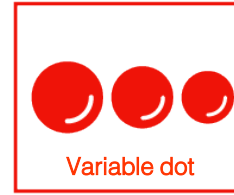
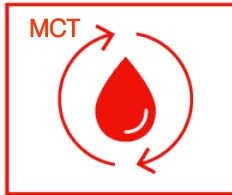
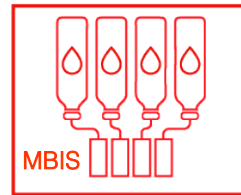
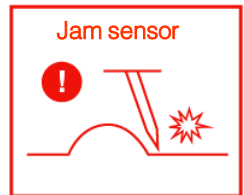
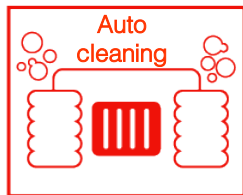
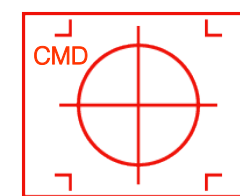
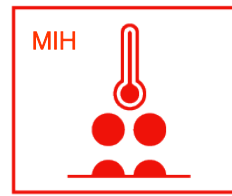
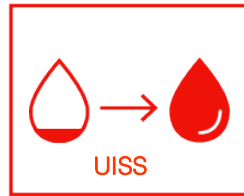
CJV300-160 PLUS AT A GLANCE...



Core technologies



Features

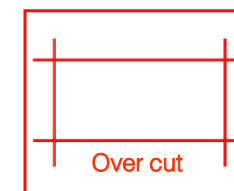
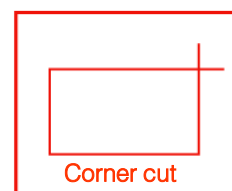
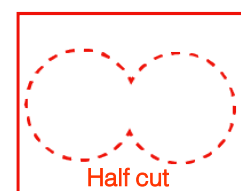
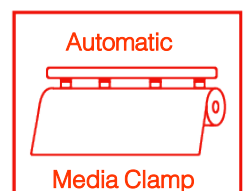


Inks

Eco Solvent



Sublimation





PRODUCT OVERVIEW: CJV300-160 PLUS

NEW! 600ml eco ink packs

Capable of printing with a wide range of ink types supplied from cartridge or ink bulk system

Automatic Pinch Rollers

High accuracy feed pressure is automatically changed

Nozzle monitoring

NCU and NRS for automatic heads maintenance

Dual Print Head

High Print Speed

Color LCD Panel

Easy setup and control

USB2.0& NEW! Ethernet

Multifunctional connection

NEW! ID Cut

Innovative Cutting System with Mark Sensor for High-Efficiency cut process

NEW! Media Take-Up System

Improved roll-to-roll media handling with winding capacity up to 45kg

NEW! Media Edge Guide

Prevents media skewing, resulting in precise winding

Intelligent 3-way heating system

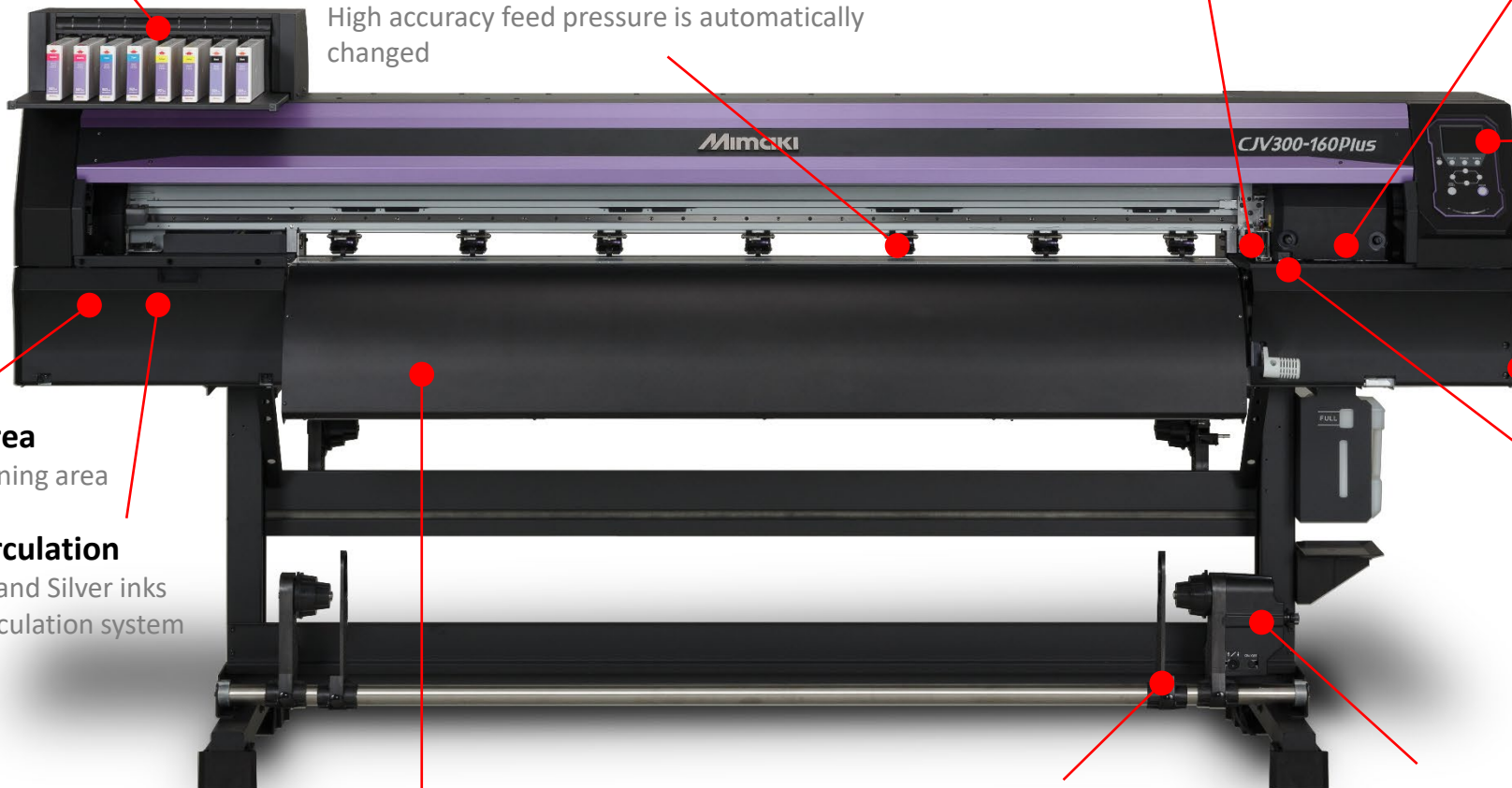
Sophisticated and quick ink drying

Ink circulation

White and Silver inks and circulation system

Maintenance Area

Easy access to cleaning area



NEWLY ADDED PLUS FEATURES

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

- **Enhanced print quality**

- Printing at a higher speed preventing banding with the new Mimaki Advanced Pass System 4 (MAPS4).
- This unique imaging technology reduces banding, uneven ink drying and bi-directional stripes, resulting in smoother images with no distinct banding.

- **Improved post-processing efficiency**

- Using ID CUT function enables an operator to contour cut multiple jobs without intervention
- Trouble-free automatic cut of multiple jobs saves time and material waste

- **New Media Take-Up**

- Standard included take-up system handles a wide range of media up to 45kg.
- Media Edge Guide prevents media skewing, resulting in precise winding.

- **New SS21 ECO Ink pack 600ml**

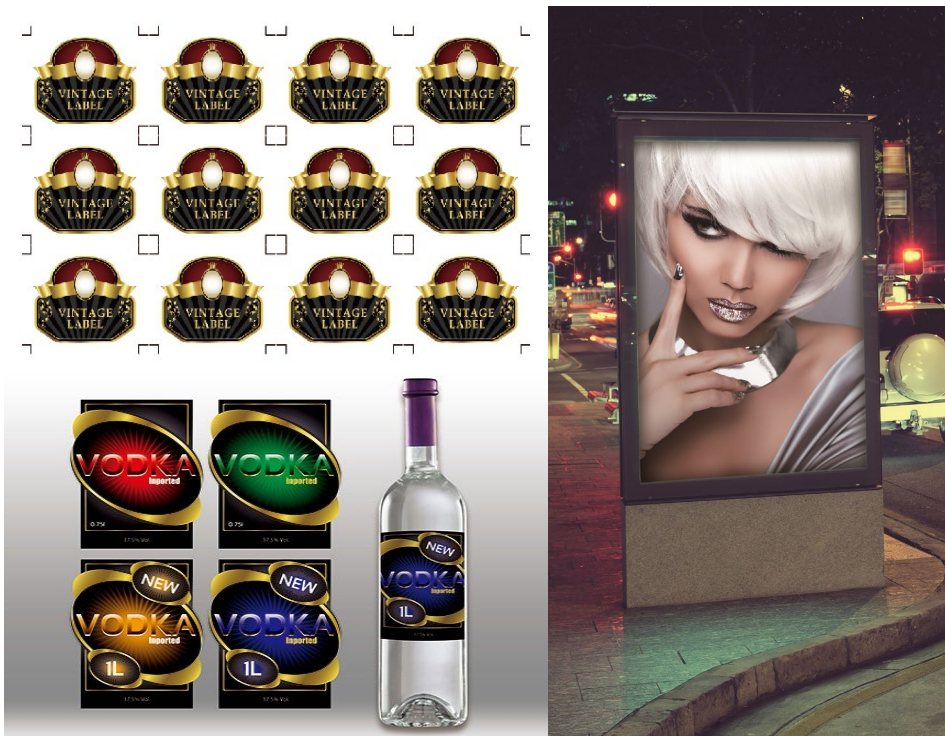
- The new SS21 600ml ink cartridge (CMYK only) will reduce costs by approx. 15% compared with 440ml cartridge.
- The higher ink capacity reduces the need to replace the cartridge, making it efficient and eco friendly.

- **Multi-purpose connection**

- In addition to the USB2.0 connection, an Ethernet connection is also available on the CJV300-160 Plus.

APPLICATIONS

- A variety of applications available, such as:
Signage, Vehicle Graphics, labels, Fashion, Sportswear, and much more...




Sign & Display


Window Graphics


Banner


POS Display


Poster


Vehicle Wrapping


Wallpaper


Cutting Stickers


Labels & Decals


Proof

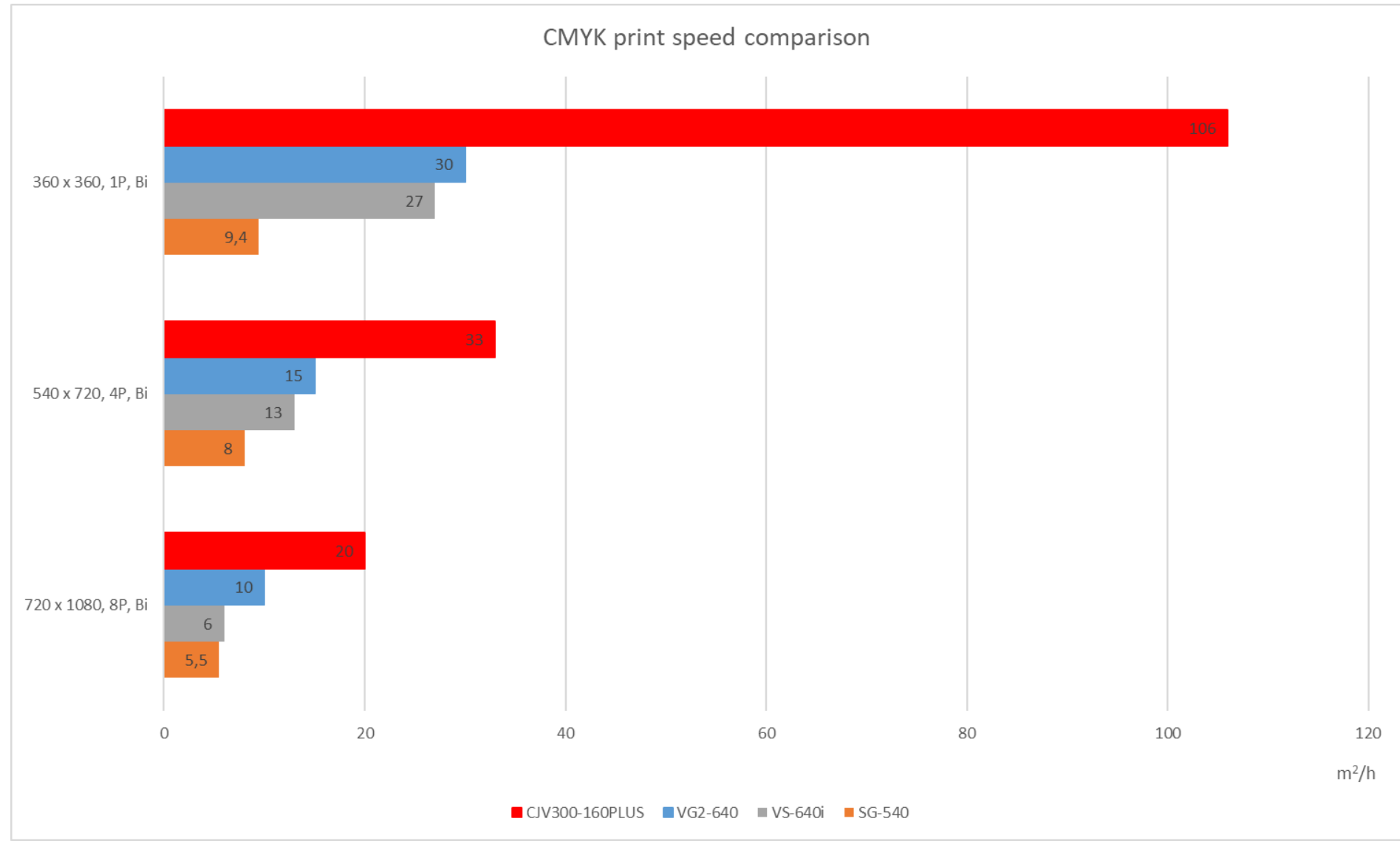
KEY SPECS OF CJV300-160 PLUS

- 1,610mm wide Max. 1,440 DPI
- Min. ink drop 4 pl.
- 2 print heads
- Printing speed: Draft 105m²/h - Production 33m²/h - HQ 20m²/h
- Mild Solvent SS21: 4c / 6c / 8c (CMYK also in 600ml eco packs)
- Eco Solvent ES3: 4c / 6c
- Eco Solvent BS3 + BS4: 4c
- Dye sublimation SB54: 4c
- 3 layer printing: colour, white, colour
- Print & Cut: cut after print and cut before print
- Over and Corner cut
- Automatic media clamp function

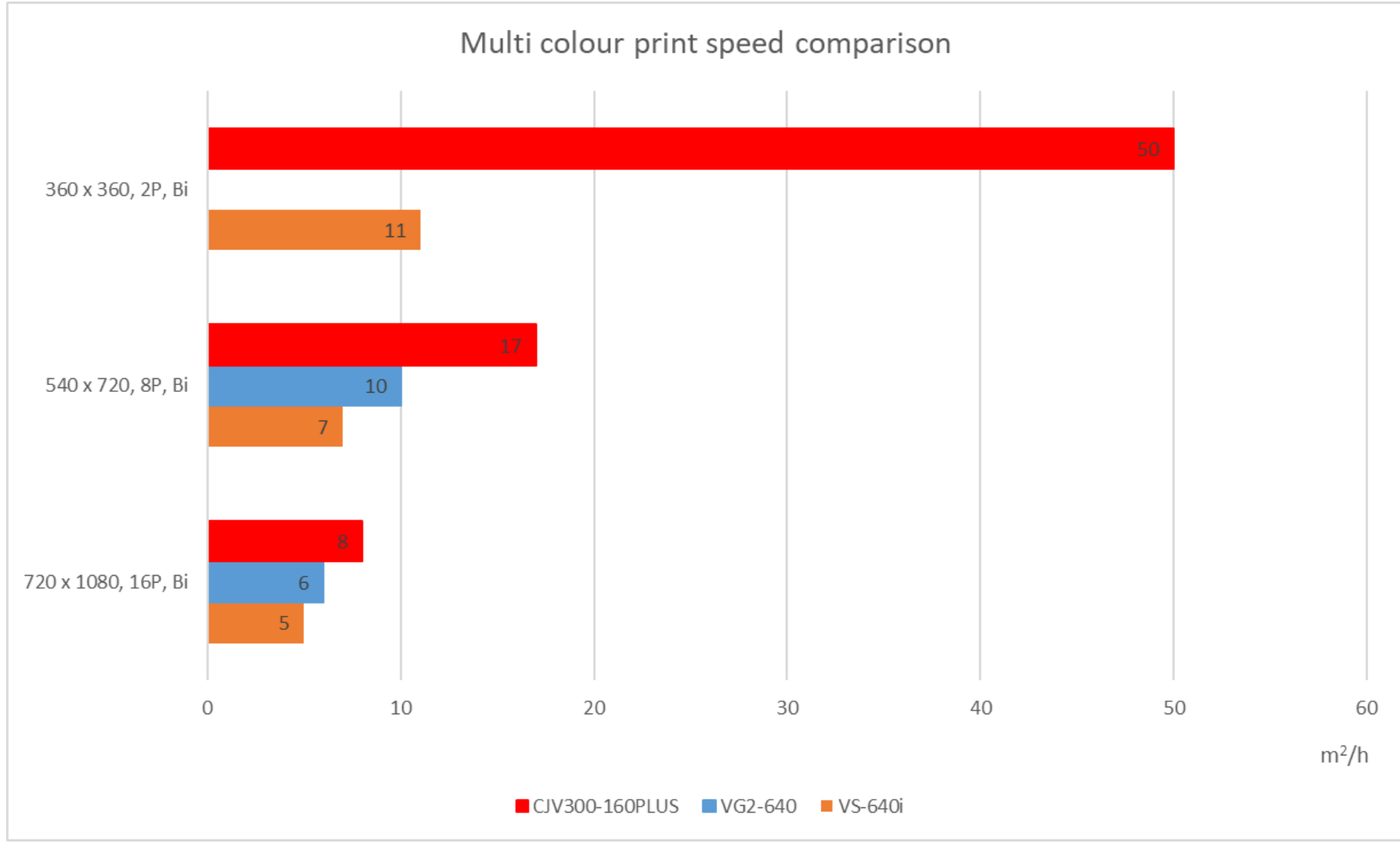
HIGH SPEED 4 COLOUR PRINTING



CMYK print speed comparison



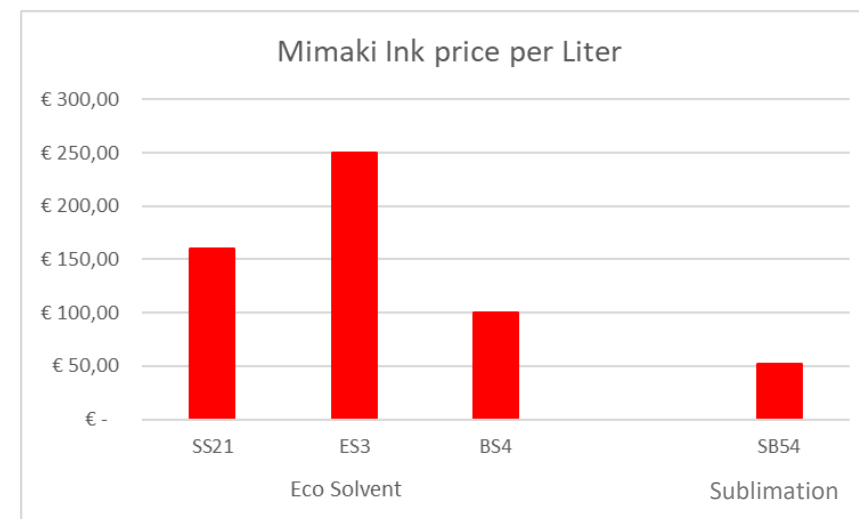
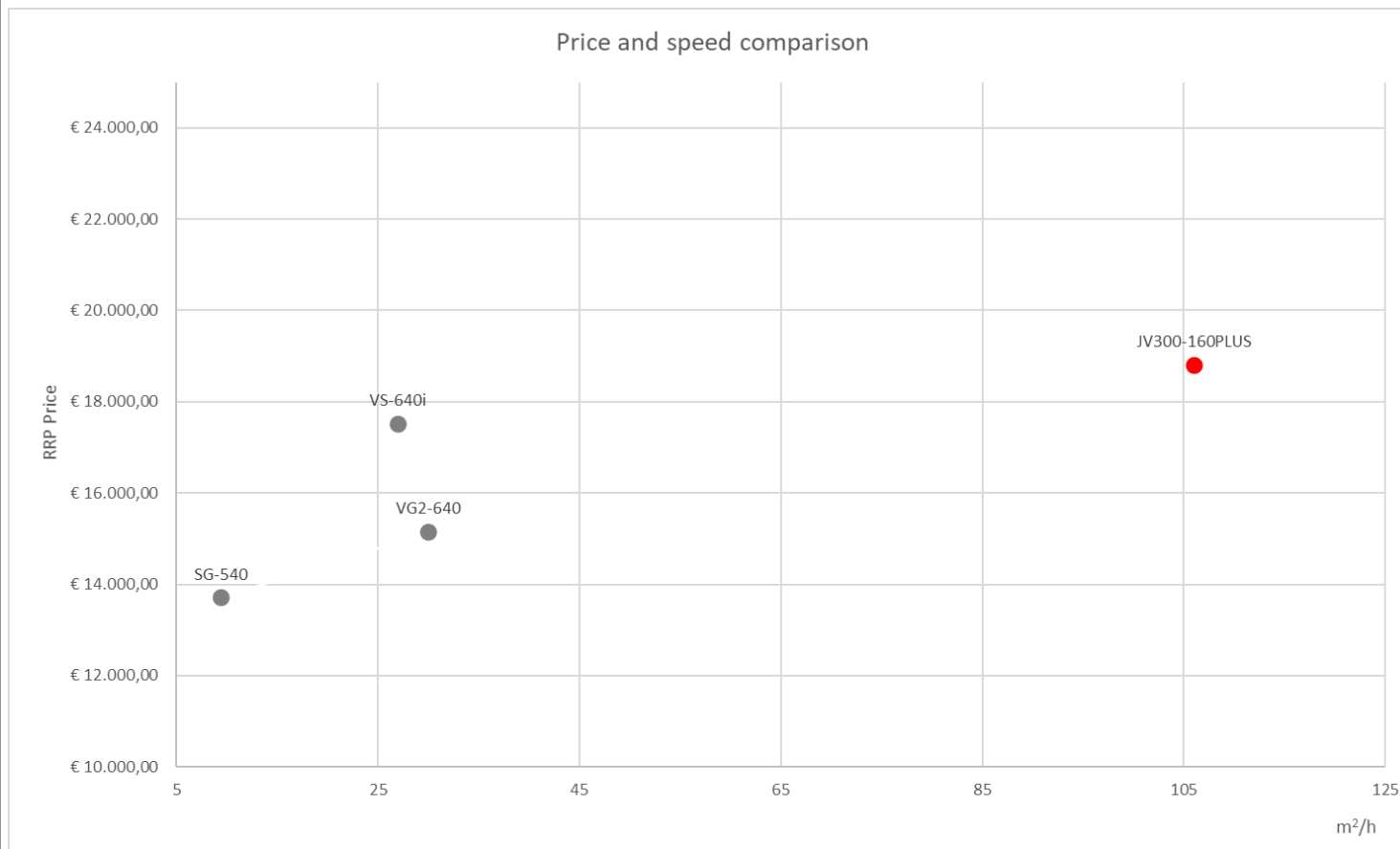
HIGH SPEED 8 COLOUR PRINTING



AFFORDABLE PRINTER



- The CJV300-160 PLUS is an affordable printer with low cost of ownership



RETURN ON INVESTMENT

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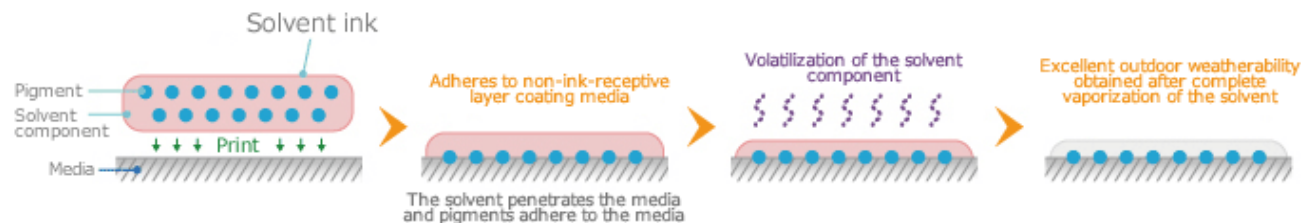
ROI and competitor comparison is available in XLS

SOLVENT OR DYE SUBLIMATION



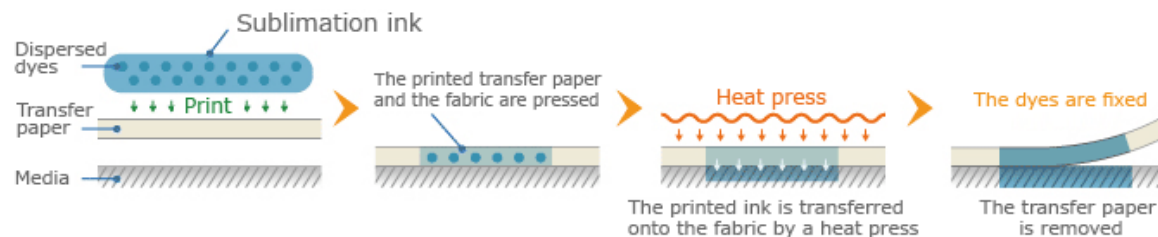
- The CJV300-160 PLUS gives you a choice...

- Solvent



From text and illustrations to photographs, the combination of Mimaki's unique inkjet technology and solvent ink delivers vibrant high quality print results.

- Dye sublimation



The combination of fast drying water based sublimation ink and Mimaki inkjet technology produces beautiful and high-quality vibrant colour printing on polyester fabrics.

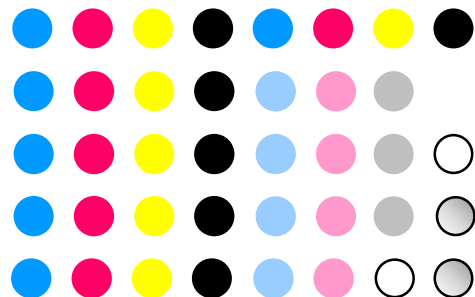


INK CONFIGURATION

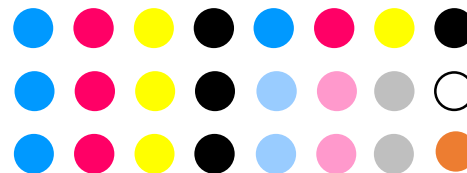
Ink type	Color		Ink set							
SS21	4C	W, Si: 220ml only Colors: 440 ml cartridge, 600ml ECO ink pack* or 2L bag**	M	C	Y	K	K	Y	C	M
	6C+WW		M	C	Y	K	Lc	Lm	W	W
	6C+WW		M	C	Y	K	Lk	Or	W	W
	6C+Wsi		M	C	Y	K	Lc	Lm	W	Si
	6C+Wsi		M	C	Y	K	Lk	Or	W	Si
	8C		M	C	Y	K	Lc	Lm	Lk	Or
ES3	4C	W: 220ml only Colors: 440 ml cartridge	M	C	Y	K	K	Y	C	M
	6C		M	C	Y	K	Lc	Lm	C	M
	6C+WW		M	C	Y	K	Lc	Lm	W	W
BS3 / BS4	4C	600ml ECO ink pack* or 2L bag**	M	C	Y	K	K	Y	C	M
Sb54	4C	440ml cartridge* or 2L bag**	M	B	Y	K	K	Y	B	M

NOTES:
 * Use of the 600ml ECO ink pack requires ECO cases
 ** 2L Bag Ink Packs require purchase of a MBIS 3 unit.

Roland VS-640i (eco sol max 2 inks)



Roland VG2-640 (true vis TR2 inks)



Roland SG-540 (true vis inks)



600ML ECO PACK

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- **SS21 ink is now available in eco friendly 600ml pack**
 - The new SS21 600ml ink pack will reduce ink costs approx. by 15% compared to the previous 440ml pack.
 - Also, higher ink capacity reduces the need to replace the cartridge, making it efficient and economical.
 - Mimaki eco cases are reusable for the larger 600ml ink bags.
 - 600ml packs are available in CMYK only. Can be combined with 440ml cartridges of other colours.



Reusable ECO Case



600ml ink pack installed in ECO Case

CERTIFICATES

- GREENGUARD Gold Certification for solvent inks
 - Mimaki solvent inks SS21 and BS4 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.
- OEKO-TEX® Certification for textile inks
 - Mimaki inks Sb53 and Sb54 are OEKO-TEX® certified
 - OEKO-TEX® approved inks are suitable to print skin-friendly clothing and other textiles for end users
 - This certificate therefore constitutes an important decision-making element when purchasing inks for textile production
- ICS Performance Guarantee
 - Mimaki solvent inks SS21, ES4 and BS4 complies with Avery Dennison ICS Performance Guarantee Program
 - The ICS Performance Guarantee assures the performance of Avery films with a printing platforms when customers are working according to the relevant Avery Dennison Technical Bulletins associated with that product




NCU AND NRS

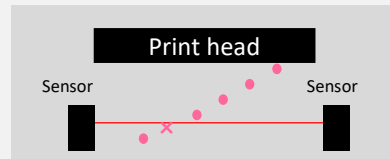
• Automatic maintenance for uninterrupted printing

- Continuous unattended operation by combining the Nozzle Check Unit (NCU) and Nozzle Recovery System (NRS)
- Requires less operator maintenance 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)

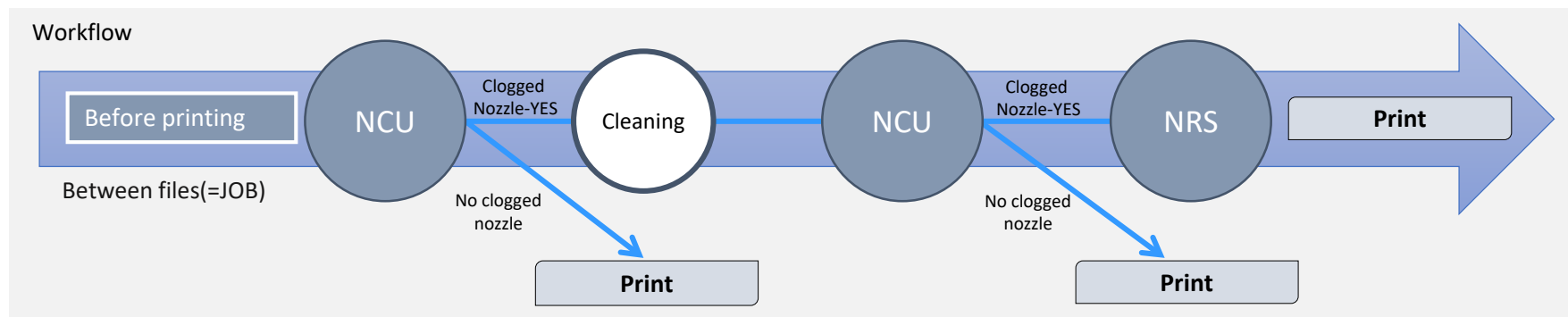


NRS (Nozzle recovery system)

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.



HIGH IMAGE QUALITY: MAPS4

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- **MAPS4 for printing without banding**

- The potential for banding and uneven color is greatly reduced with 4th generation of Mimaki's Advanced Pass System, MAPS4.
- MAPS incorporates an advanced algorithm for printing boundaries between passes giving you beautiful quality prints with a smooth appearance.
- MAPS4 allows you to print faster while preventing banding compared to MAPS3



With MAPS

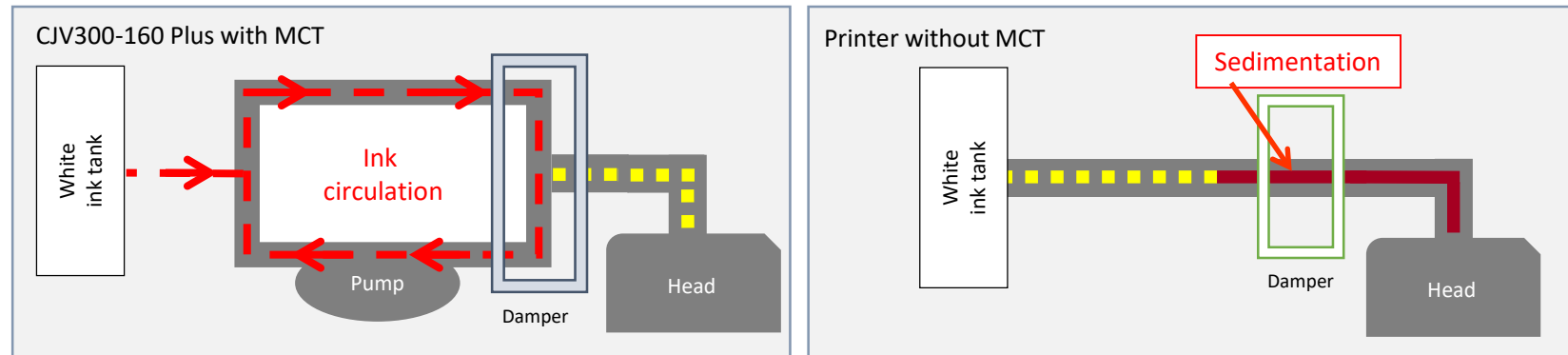


Without MAPS

PRINT HEAD DURABILITY



- **White ink with Mimaki Circulation Technology (MCT)**
 - MCT accomplishes stable production and reduction of ink discharge and waste.
 - Prevents pigment sedimentation by periodically circulating the white ink in the ink tank and through the ink tubes.



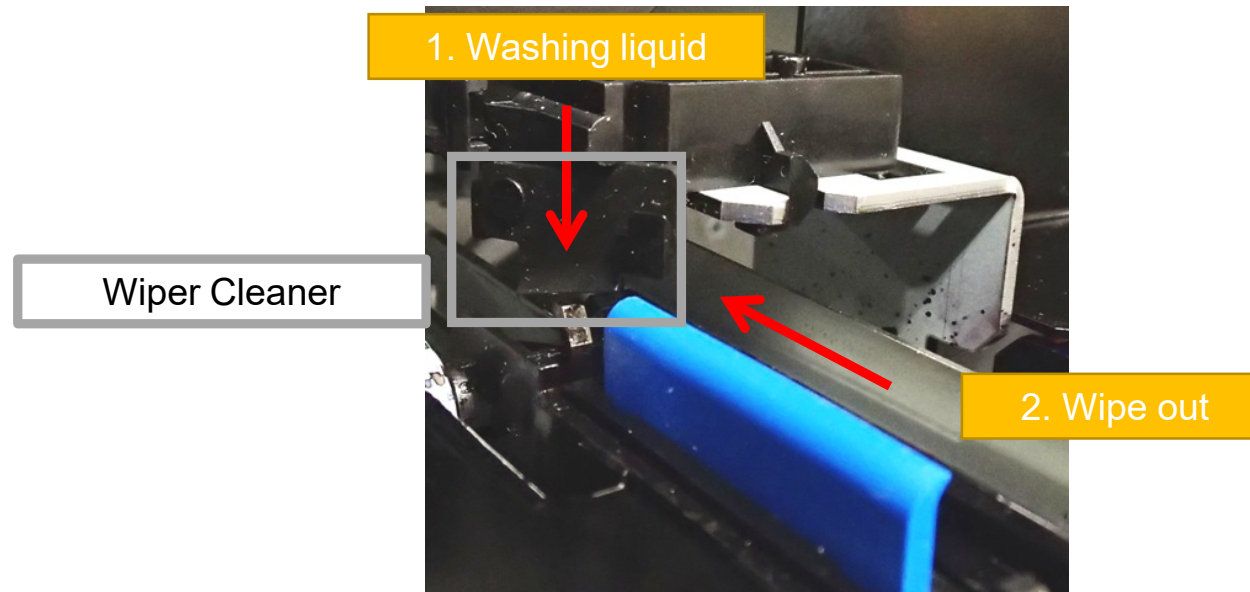
* MCT only works for white ink set.

PRINT HEAD DURABILITY



- **Automatic Wiper Cleaning**

- The rest ink on the wiper is automatically removed during the cleaning procedure of the print head
- No damage to the print head caused by a dirty wiper
- Less daily maintenance while enlarging the lifetime of the print head



ID CUT FOR MIMAKI'S TRUE PRINT & CUT



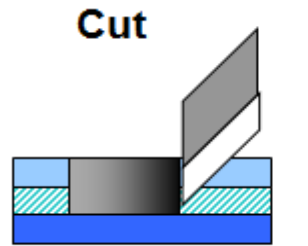
- **Automating the cutting process**
 - Using ID CUT function enables an operator to contour cut multiple jobs without intervention.
 - Trouble-free cutting without operator mistakes saving time and material waste.
- **Workflow**
 - Generate your labels with FineCut9
 - RL6 Plus prints the ID code between the crop marks
 - ID code includes cutting and rotation information
 - The crop mark sensor reads the ID code and automatically executes cutting



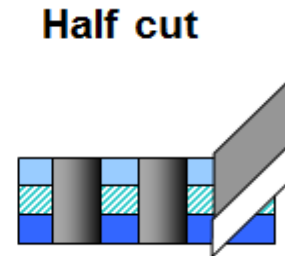
PRINT & CUT FUNCTIONS

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- **Cut / Half cut**



Cutting leaving backing



Cutting half & die cuts leaving joints



- **Continuous Crop Mark Detection**

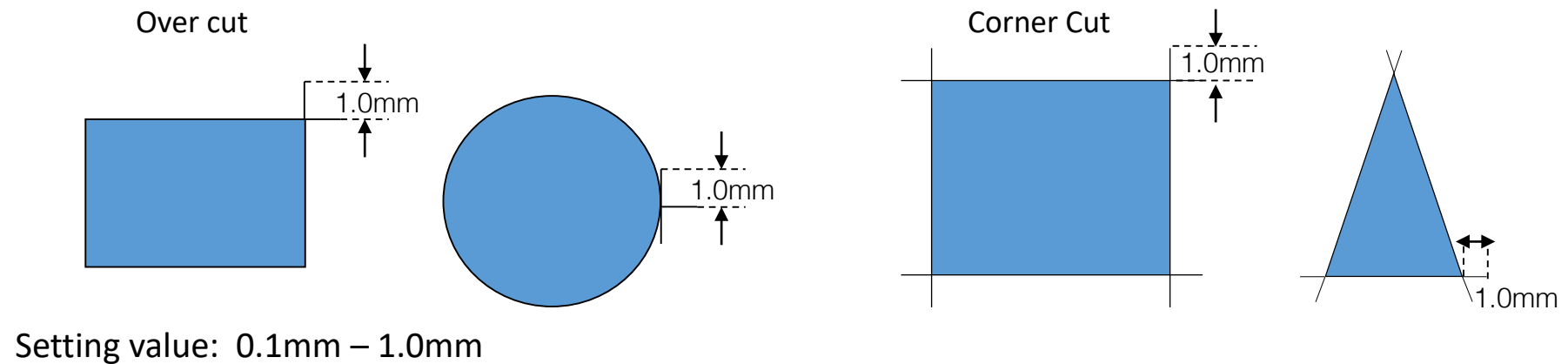
- All crop marks are automatically and continuously detected
- Cutting stays highly accurate, also on full width and length
- Compensates distortion of print media



PRINT & CUT FUNCTIONS



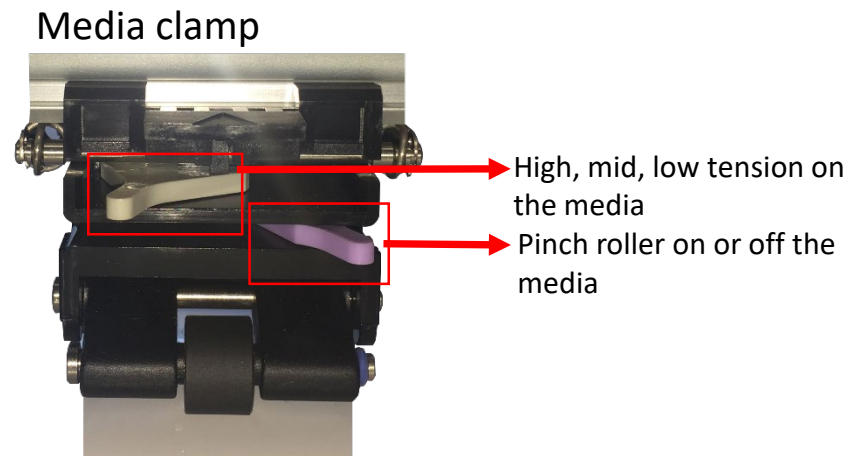
- Extra cut functions for easy weeding
- **Over cut**
 - Overlapping the start and the end point -> no uncut parts
 - Corner cut
 - Cutting overlaps at all corners
 - By using corner cut, we can avoid rounded corners



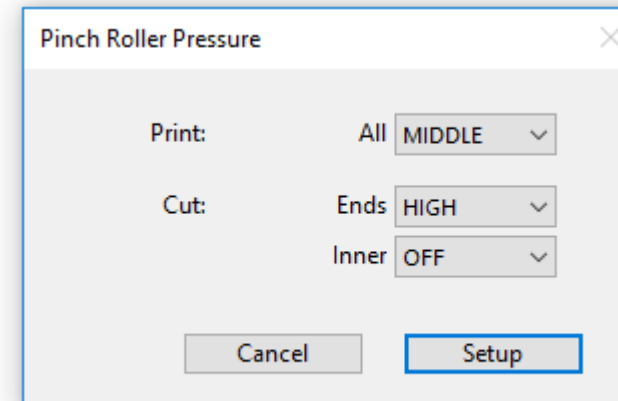
PRINT & CUT FUNCTIONS



- **Unique Automatic media clamp function for unattended cutting**
 - Pinch roller pressure is automatically changed in 4 levels (High/Middle/Low/OFF)
 - Optimizing media feed by selecting best pressure setting
 - Full automatic function enables unattended operation
 - Lifting middle clamps to off prevents ink smudging of pinch rollers on the media



Pinch roller device setting



- **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
- Built-in PANTONE®+ Color Libraries

Industry standard PANTONE color libraries are included or the most accurate color reproduction.

- **Spot Color Control**

Create and manage custom spot color libraries based on L*a*b* values or custom ink builds for precise control of defined colors

- **Color Replacement**

Replace colors with custom values, or use values from a spectrophotometer after measuring the desired color

- Estimated completion time display
- Print Status display

■ USP'S OF CJV300-160 PLUS

- MAPS4 → quality printing even on high speed
- ID Cut → for automating the cutting process
- Nozzle check unit → unattended printing
- Nozzle recovery system → less downtime
- Automatic wiper cleaning → prevents head damage
- Lowest m2 ink price with eco solvent BS4 and Bulk Ink System (MBIS)
- Choice of different ink types
- Uninterrupted Ink Supply System (UISS) → unattended printing in 4C mode
- Automatic media clamp function → unattended cut after print
- Over and Corner cut → easy weeding
- 3 years full warranty incl. print heads till end of March 2020
- RIP Mimaki Rasterlink 6 Plus
- All Mimaki [features](#)

USP'S EXPLAINED

- **Nozzle Check Unit (NCU)**
 - The NCU detects missing nozzles between print jobs or after a set length
 - The NCU checks if every nozzle is firing. If a nozzle is clogged, automatic cleaning starts
 - The number and the type of cleanings can be set in the menu of the printer
 - This NCU feature enables unattended printing

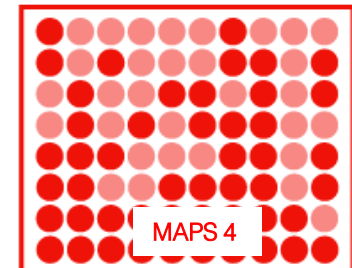
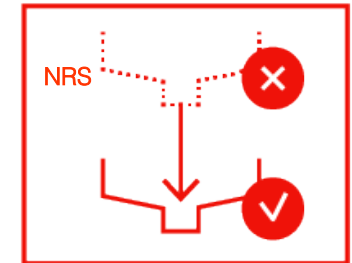
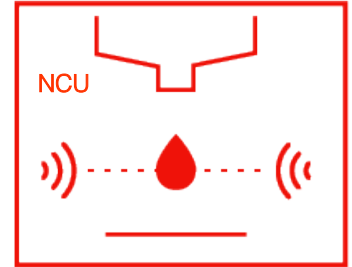
➤ Roland doesn't support this feature, missing nozzles only by visual inspection

- **Nozzle Recovery System (NRS)**
 - The NRS enables to replace clogged nozzles with open available nozzles
 - After the print operator or the NCU detect a clogged nozzle, this missing nozzle can be replaced automatically or manual
 - This NRS feature increases uptime and will postpone service intervention

➤ Roland VG2-640 supports this feature, losing 50% print speed

- **Mimaki Advanced Pass System (MAPS 4)**
 - Reduction of banding, even at higher speed
 - Disperses ink drops overlapping the passes
 - Delivers stable high quality printing
 - Print operator is able to use parameters for optimal speed / quality

➤ Roland uses a static anti banding system with fixed block size
No parameters available

USP'S EXPLAINED

• Automatic Wiper Cleaning

- Mimaki's wiper cleaning system uses cleaning liquid to spray the wipers
- The wiper will be cleaner and therefore wiping the print head will be more effective
- Cleaning the wiper prevents damaging the print head
- Less daily maintenance while enlarging the lifetime of the print head

➤ Roland uses a plastic scraper to try to clean the wiper

• ID Cut

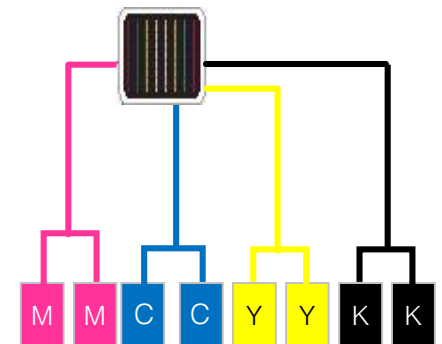
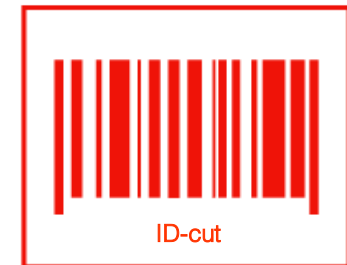
- Adding barcodes in the lay-out of print & cut jobs for uninterrupted workflow
- By reading each unique barcode, the correct cut job will be automatically loaded and executed
- The ID Cut makes uninterrupted cutting possible without operator interference, even long jobs (> 2m)

➤ Roland P&C doesn't have this functionality

• UISS (Uninterrupted Ink Supply System)

- Working with the 4C ink set, an empty ink cartridge can be replaced with a new one, without stopping the on-going print job
- No waste of time and media or half full, leftover ink cartridges

➤ Roland has no UISS: when cartridge is almost empty, you can replace during printing

Mimaki

Thank you



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