

Sales Guide

Mimaki

UJV55-320



UJV55-320

TERMS OF USE

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UJV55-320 AT A GLANCE...

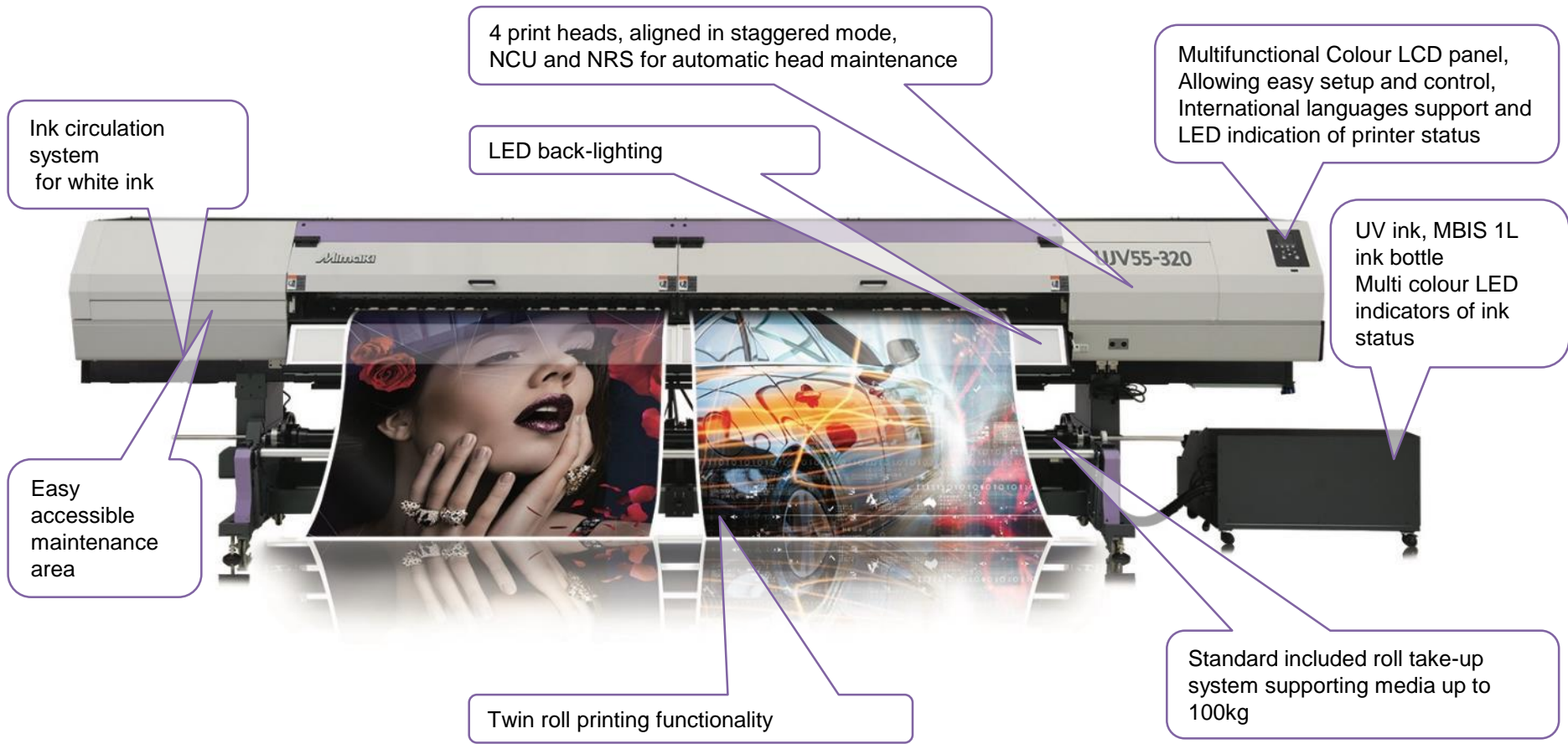
Max Print Speed 110m ² /h	Max Resolution 1200dpi	Staggered Head	Variable Dot	Nozzle Drop-out Detection
Nozzle Recovery Function	MCT	LED UV UV LED	No Dry Time	Continuous Print
Event Notification	Bulk Ink Supply	Extreme Scratch Proof	3 layer Printing ;	Twin Roll Printing

UV Curable Ink

LUS-120



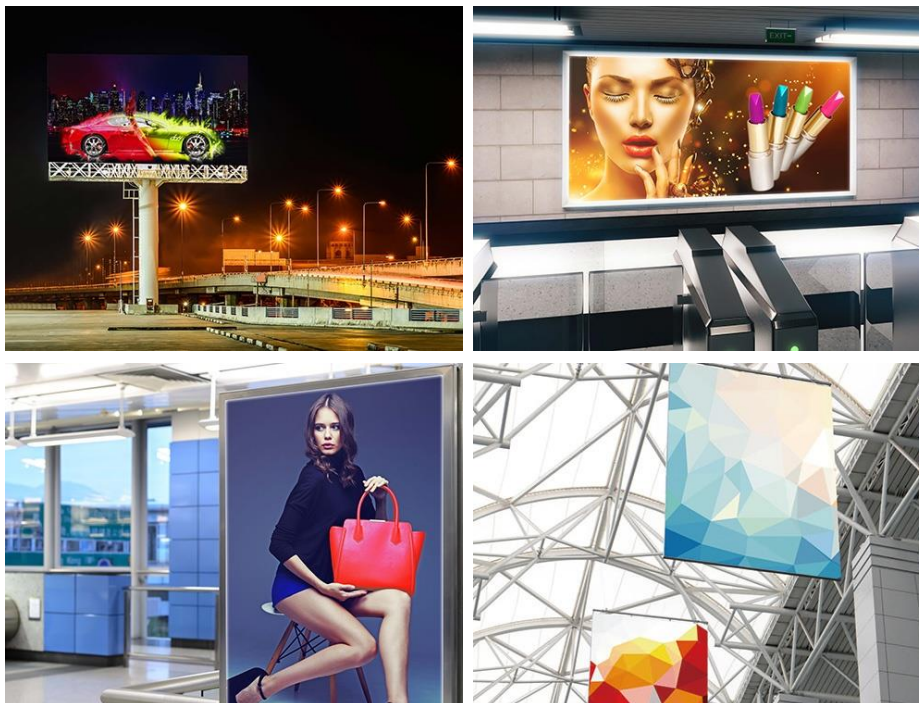
PRODUCT OVERVIEW



APPLICATIONS



- A variety of applications available, such as:
Banners, Back-lit, Sign boards.... And much more



Sign & Display



Poster



Window Graphics



Vehicle Wrapping



Banner



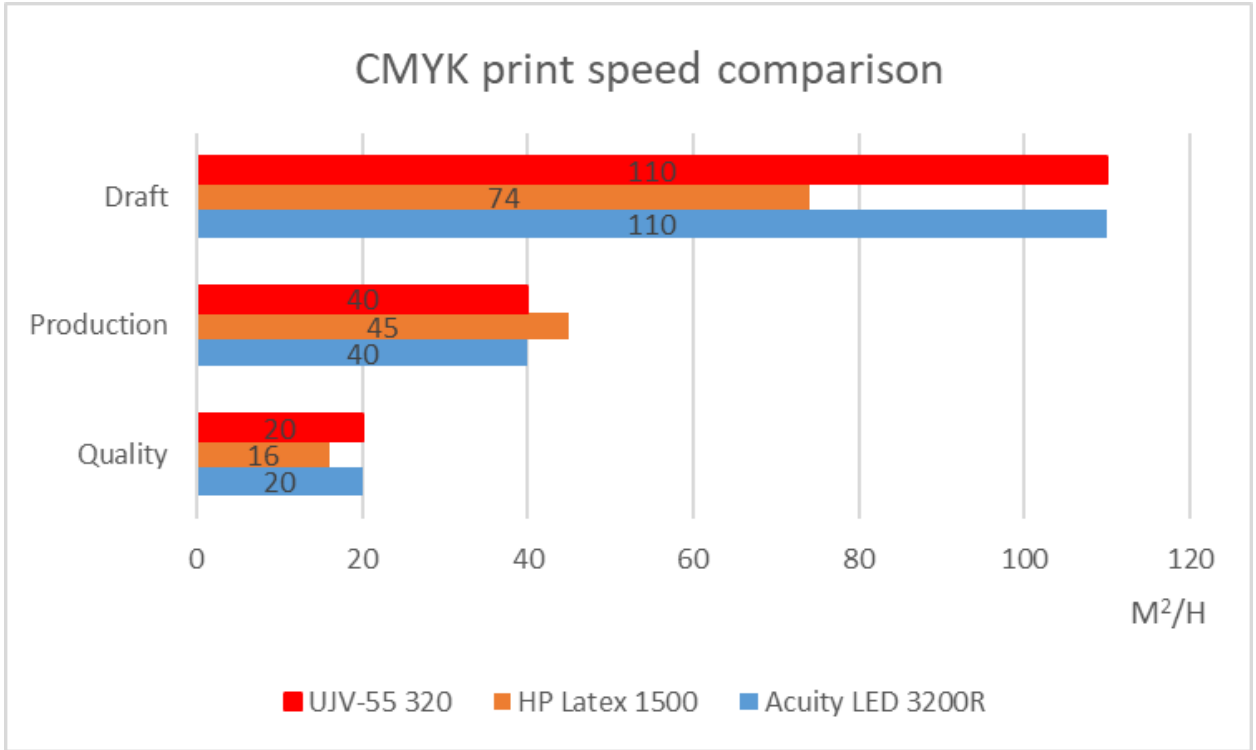
Building Material

KEY SPECS OF UJV55-320

- 3,200mm wide
- Max. 1,200 DPI
- Variable Drop sizes: 7 - 36 pl
- 4 print heads
- Printing speed CMYK: Draft 110m²/h - Production 40m²/h – HQ 20m²/h
- LED UV ink: LUS120 4C/7C
- White ink
- 2 or 3 layer printing
- Twin roll printing
- Preview Light Box standard
- Twin-roll option standard



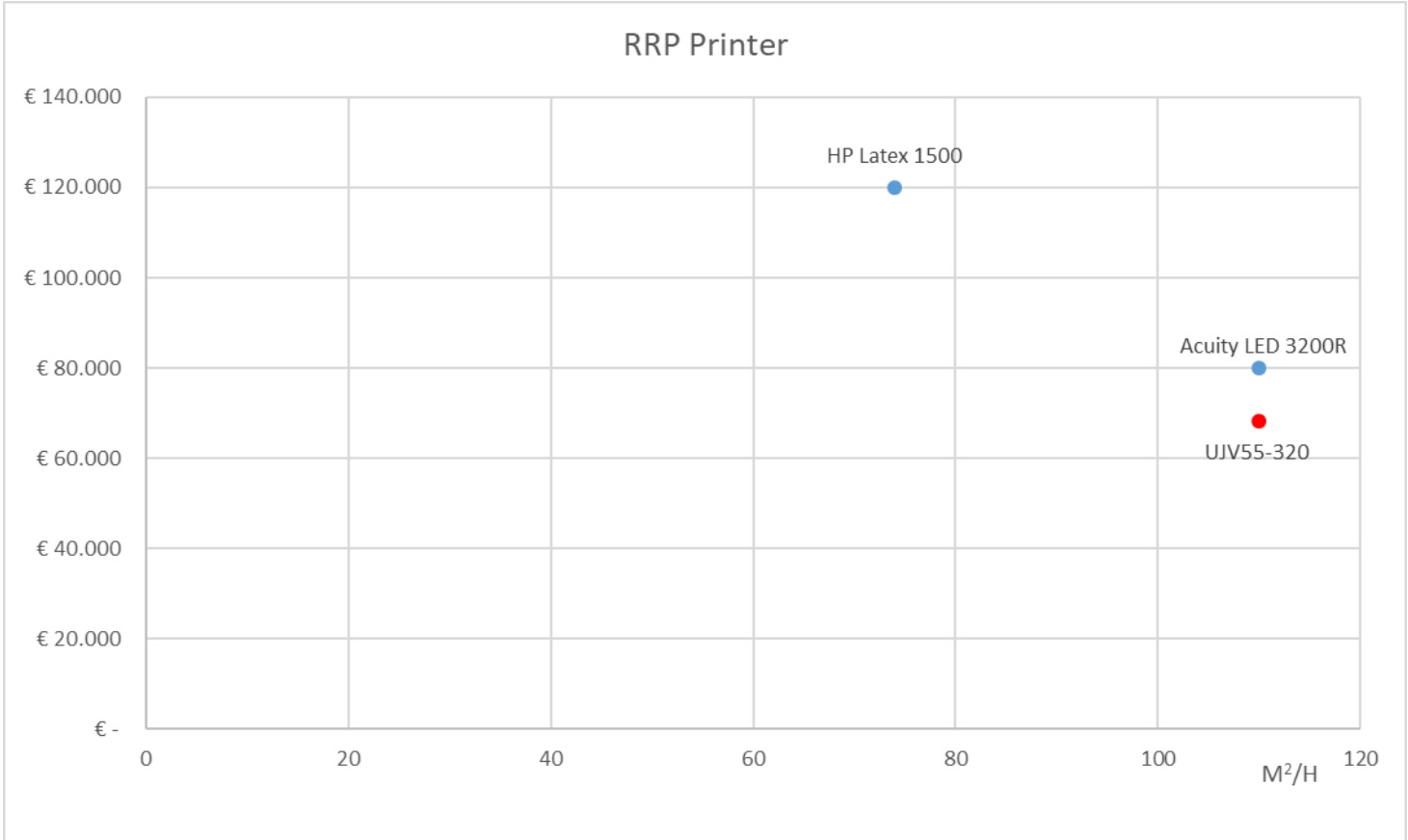
HIGH SPEED PRINTING





AFFORDABLE PRINTER

- Competitor comparison RRP and Speed



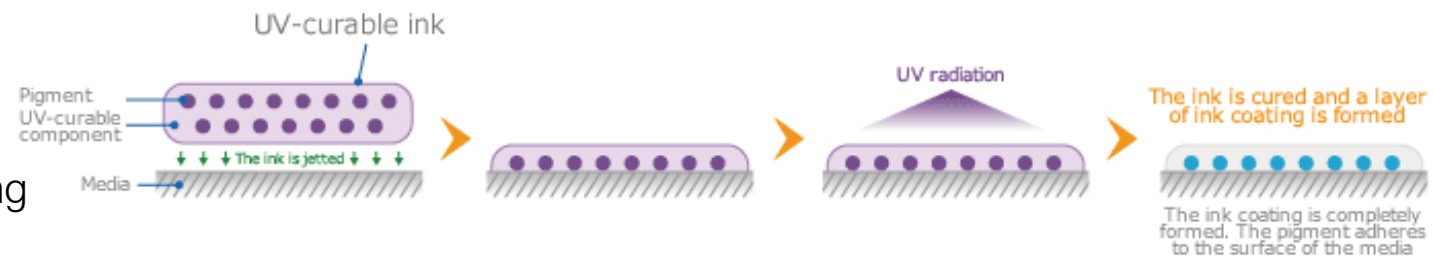
RETURN ON INVESTMENT



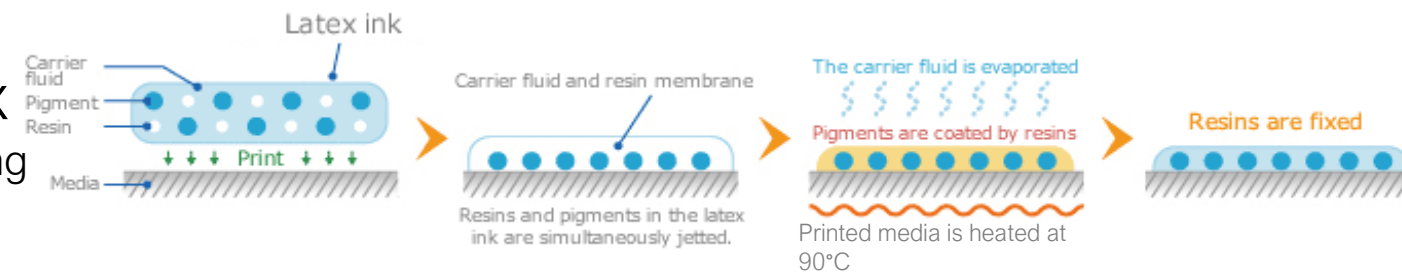
ROI and competitor comparison is available in XLS

INK FIXATION PRINCIPLES

UV
Direct finishing



HP Latex
Direct finishing



AVAILABLE INK SETS



- The UJV55-320 and available ink sets in comparison to the competition

UV	Ink Type	UJV55-320	Ink sets
	LUS-120	4C	M C Y K K Y C M
		4C + Lm,Lc,W,W	M C Y K Lc Lm W W

Latex	Ink Type	HP Latex 1500	Ink sets
	HP 881	4C + Lm, Lc, Latex Optimizer	C M Y K Lc Lm Lo

HP has no white ink

UV	Ink Type	Acuity LED 3200R	Ink sets
	Uvijet LF	4C	C M Y K
		4C + Lm,Lc,W	C M Y K Lc Lm W
4C + Lm,Lc,W,CL		C M Y K Lc Lm W Cl	

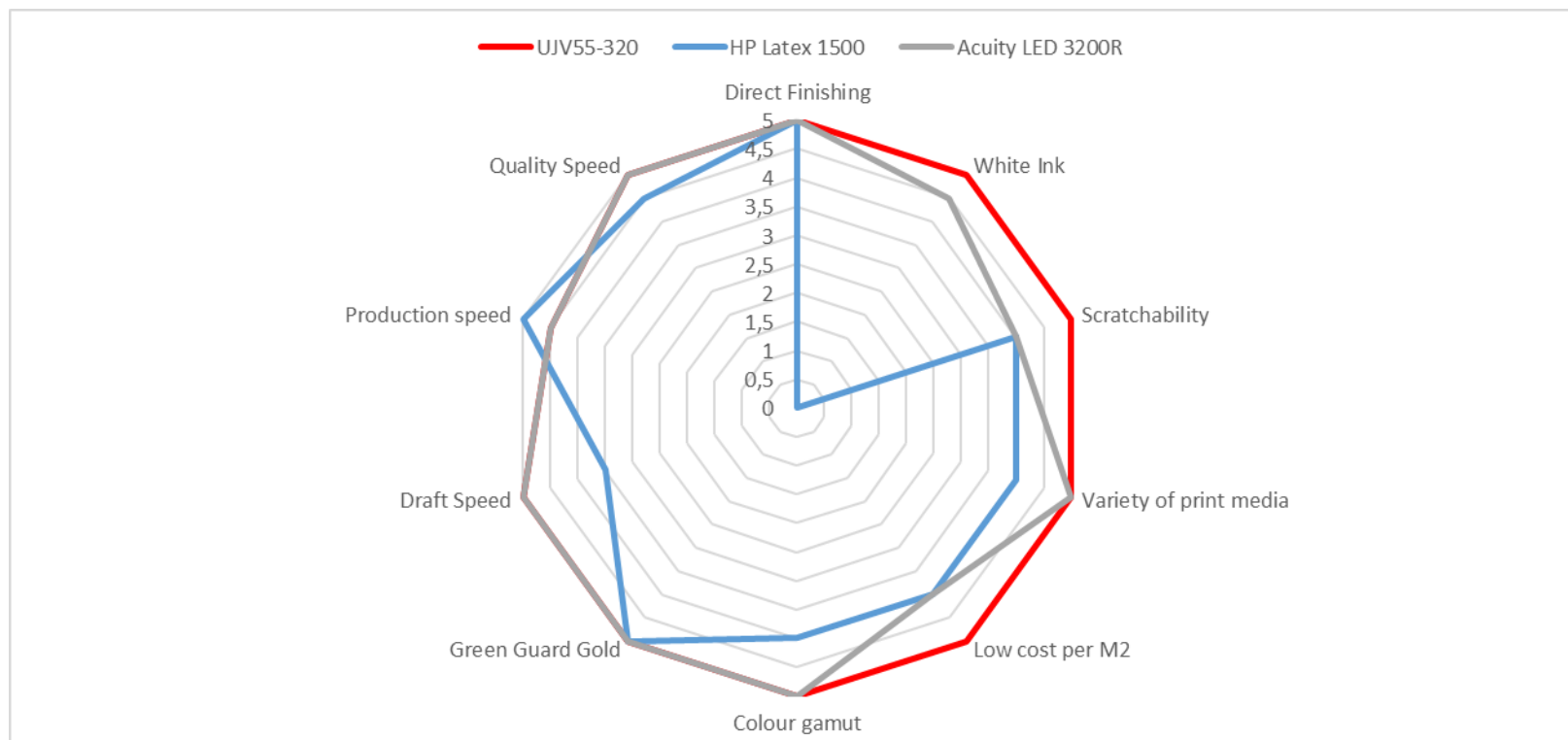
CERTIFICATES

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- **GREENGUARD Gold Certification for LED-UV inks**
 - Mimaki LED-UV LUS-120 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.

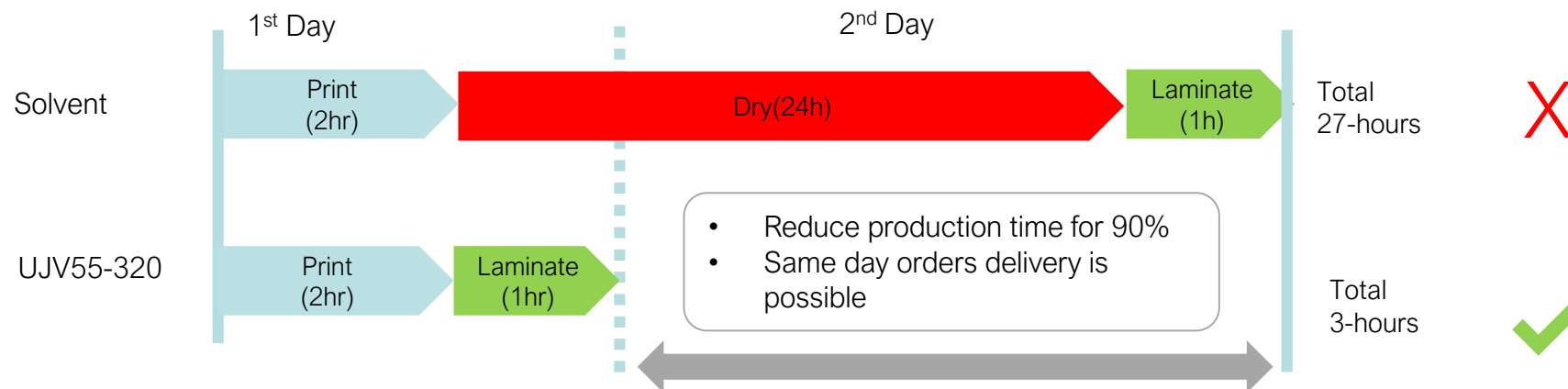


COMPARISON

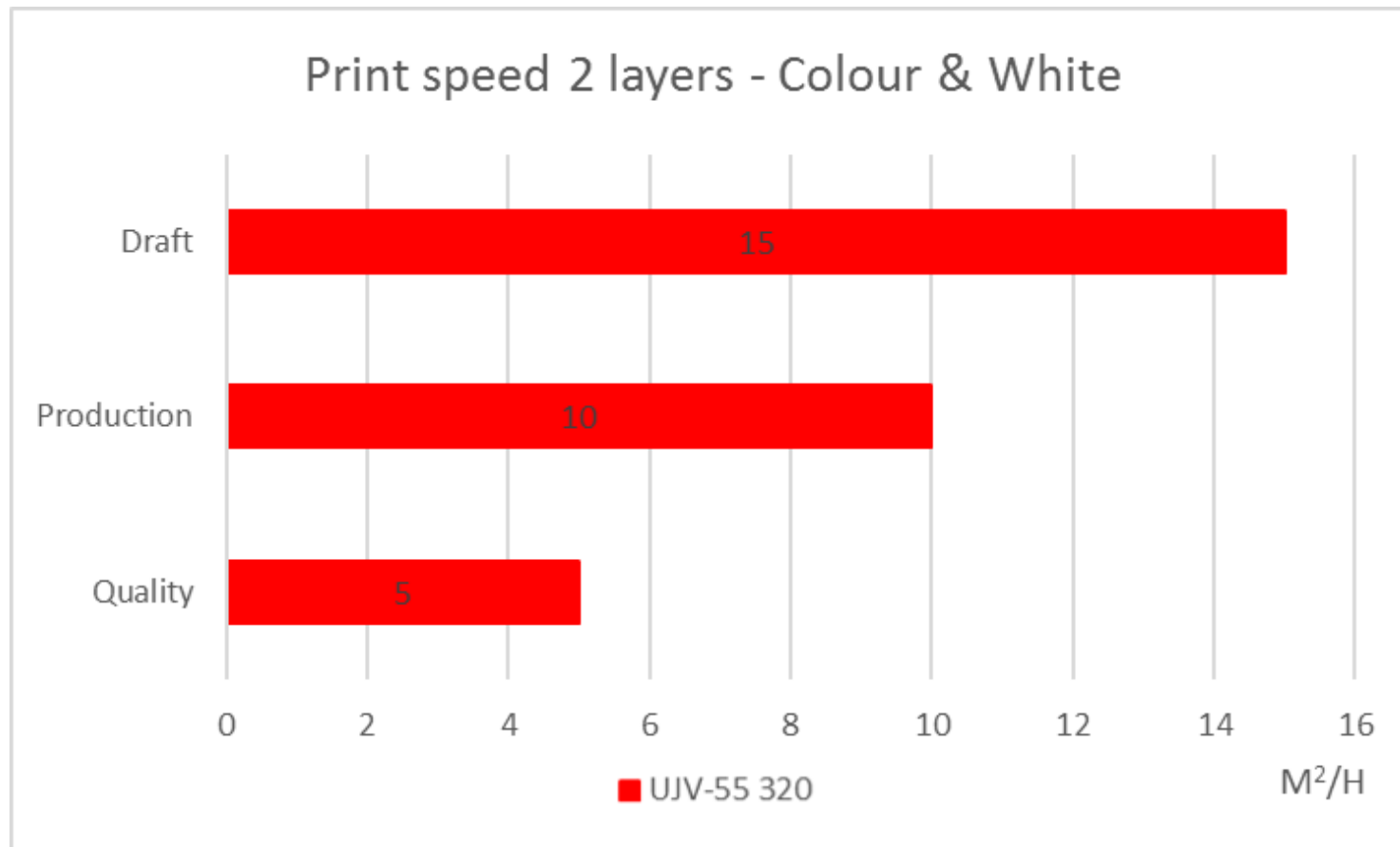
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DIRECT FINISHING AFTER PRINTING

- Immediate curing and adhesion saves time
 - With UJV55-320, prints come out of the printer completely dry
 - It is possible to laminate direct after print
 - An estimated production time is 90% less compared to solvent printing where solvent must dry before post processing




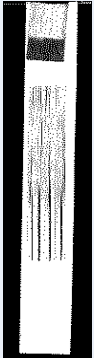

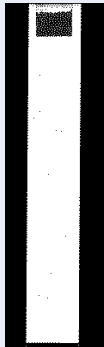
HIGH SPEED PRINTING WITH WHITE

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UNMATCHED SCRATCH RESISTANCE



Scratch comparison

Solvent		LUS120	
Color	White	Color	White
			
NG Color scratches easy	NG White color scratches easy	OK Color is hard to scratch.	OK White color is hard to scratch

Test method:

Scratchiness Paper : Sand Paper #400
 Scratching time: 100 front-back motion
 Scratching pressure: 2N
 Scratchiness frequency: 30 motions / minute

GREAT VARIETY OF PRINT MEDIA

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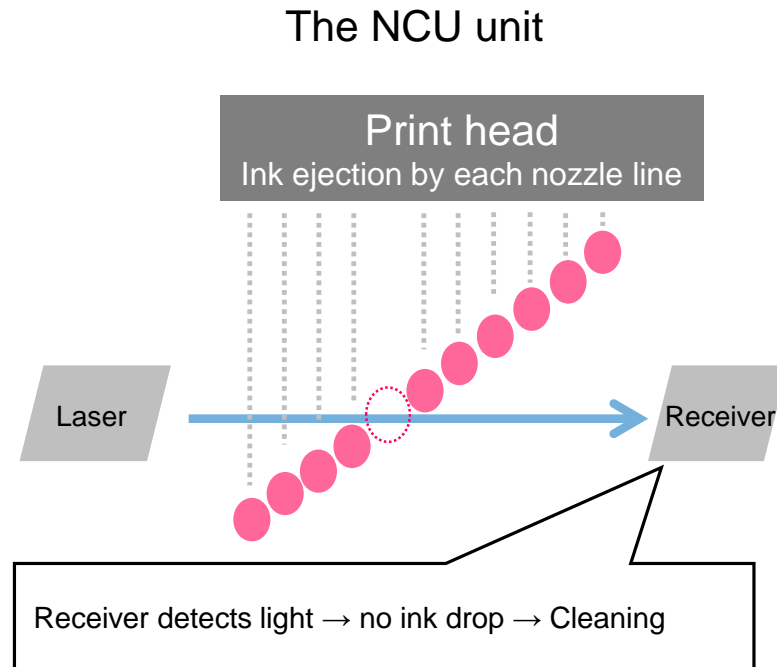
The UJV55-320 prints on a great variety of print media: coated and uncoated

Mimaki's LUS-120 inks enable printing on a wide range of media for applications such as banners, flags and other soft signage, wall paper, tarpaulin, PET film and even uncoated print media, that may be too sensitive for solvent or latex high heat fixation systems.

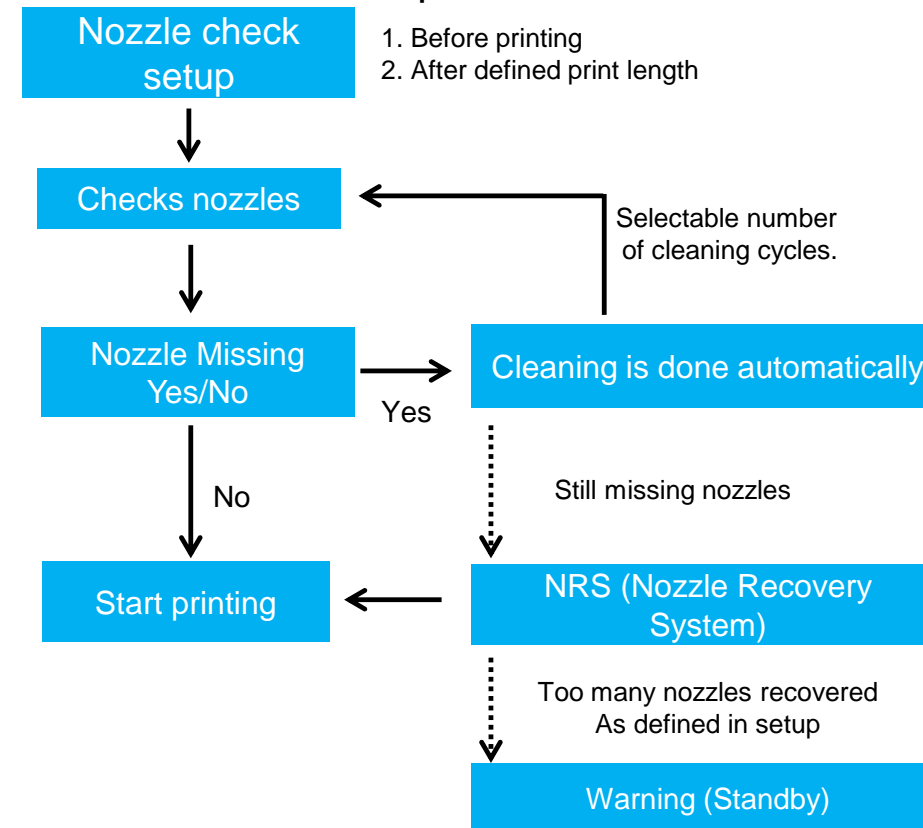


CONTINUOUS OPERATION

- NCU (Nozzle Check Unit) for unattended continuous printing



NCU operation flow



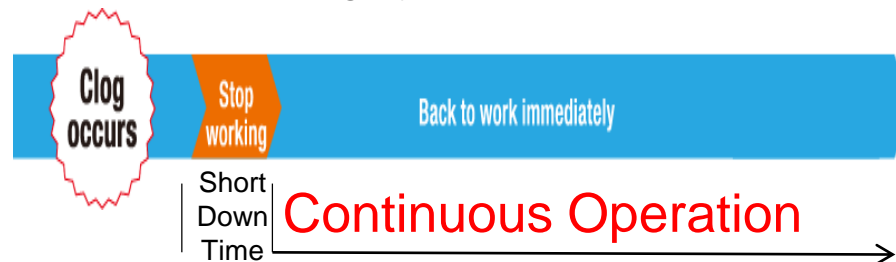
- HP has a similar functionality consuming media

CONTINUOUS OPERATION

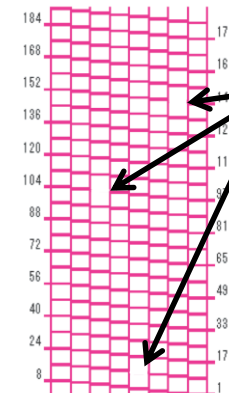


- NRS (Nozzle Recovery System)
 - No need for direct service intervention
 - Increases the uptime
 - Replaces missing nozzles by open nozzles
 - Makes printing possible even if nozzles are missing

Continuous printing by NRS



Nozzle check pattern



Clogged nozzles

Register the number of missing nozzles



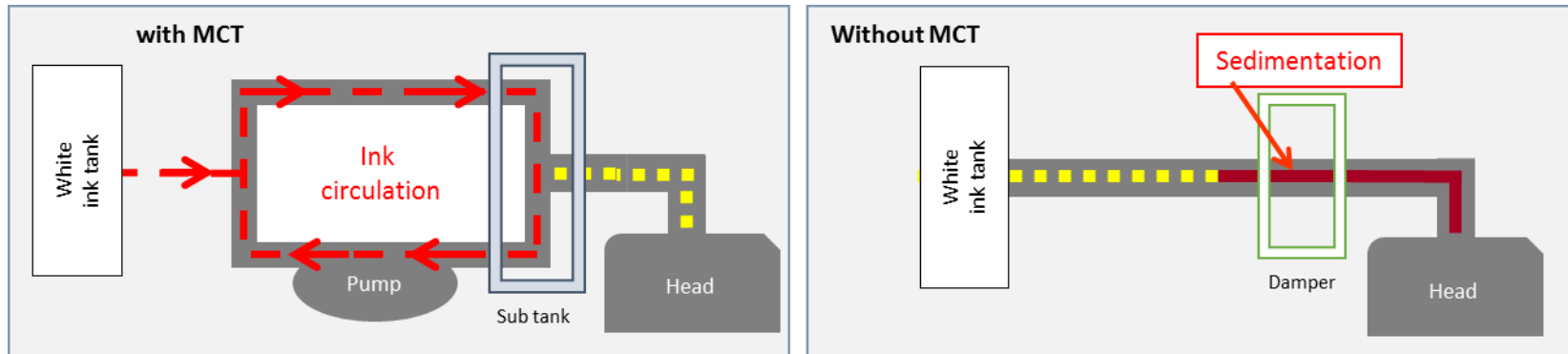
Replacing the clogged nozzles by using other open nozzles
Depending on model, nozzle replacement can be automated

- HP does not support Nozzle replacement. At clogged nozzles, print head needs to be replaced

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



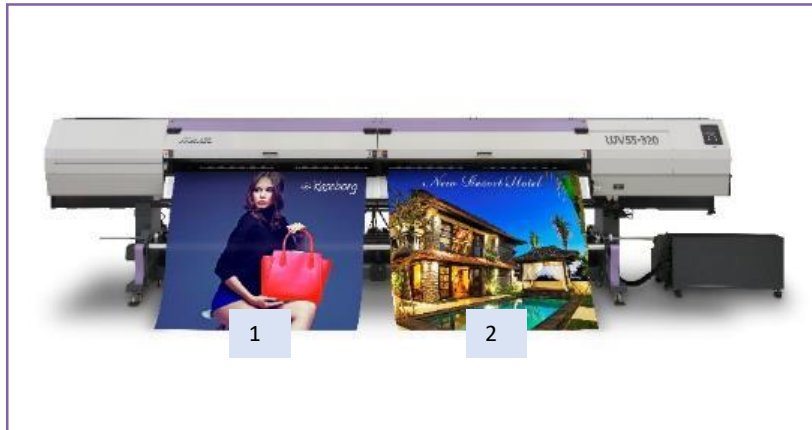
* MCT only works for white in the 7-color ink set.

TWIN-ROLL PRINTING

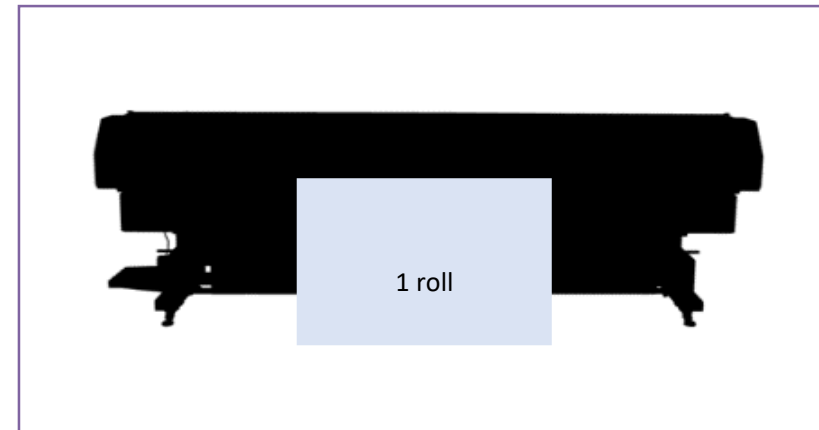


- Twin-roll printing is a standard feature on the UJV55-320
 - The machine can handle up to 2 rolls, maximum width of 1,524mm each, at the same time

UJV55-320



3,2m Printer, No Twin-roll option



2 Rolls:

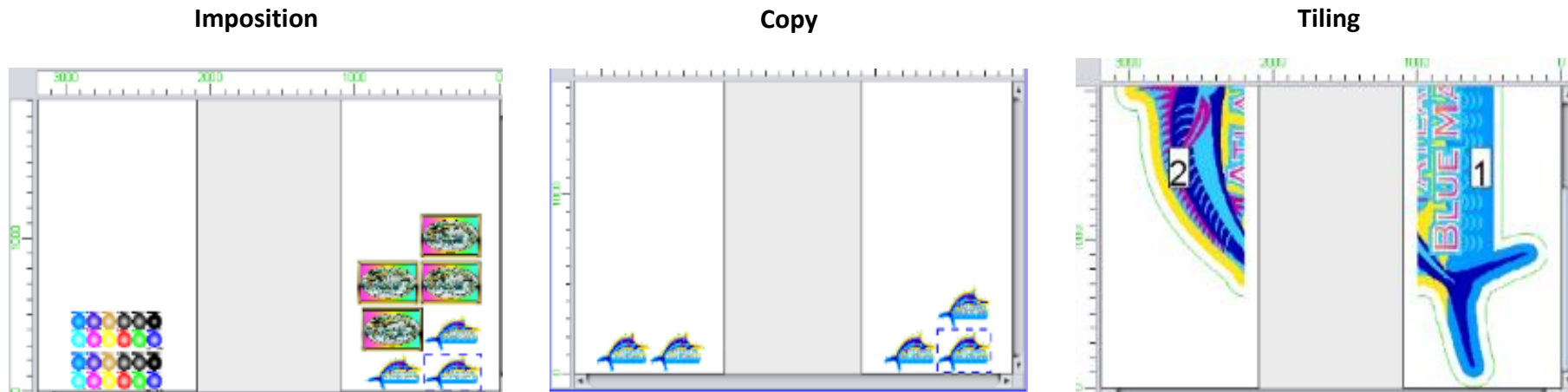
Media with different widths can be used

Both rolls should be the same type of media, at least the same thickness and printable with the same profiling

TWIN-ROLL PRINTING



- Double your production volume per day with twin-roll printing function, compared to a printer without twin-roll function.
- Different data can be assigned for each roll of media.
- Handle different jobs at the same time.



- HP offers Twin-roll option at extra costs

- 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

■ USP'S OF UJV55-320

- Direct finishing after printing
- Variety of print media like transparent and even uncoated media
- High scratch resistance
- Low cost of ownership
- Twin-roll printing standard
- 2 Layer printing (colour-white or white-colour)
- 3 Layer printing (colour-white-colour)
- Soft Media Kit for textiles, barrisol, etc. (recommended option)
- Preview Light Box standard
- Printing with White at production speed
- White ink density highest in the market
- Print stability with NCU, NRS, MCT, MAPS, Variable Dot (Mimaki features)

USP'S EXPLAINED

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

- **Direct finishing after printing**
 - The UJV55-320 output is instant cured
 - Possibility to process the print immediately (direct laminating after printing)
 - Increasing delivery compared with Solvent printing at least 24 hours
 - HP has a similar functionality with Latex inks
 - The Fujifilm output can be cured instantly as well
- **Variety of print media**
 - LED UV lets you print on coated and uncoated print media
 - A greater variety of print media is possible
 - Printing on low cost media could make the difference while competing
 - Latex printers requires coated (more expensive) print media
 - Fujifilm can print on a wide variety of media as well
- **High scratch resistance**
 - LUS 120 inks have an extreme good scratch resistance
 - For many sign jobs like vertical signage, to laminate could not be needed
 - By offering the signage without laminate reduces the material cost with almost 50%
 - HP prints need lamination for most applications
 - Fujifilm prints are less scratch resistant

USP'S EXPLAINED

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

- **Low cost of ownership**
 - Using UV technology enables a variety of print media, even uncoated media
 - The UJV55-320 prints with low M² ink price while saving money on media
 - Quick return on investment with more profitability during printers high lifetime
 - HP prints with more expensive ink on more expensive media
 - Fujifilm inks are more expensive
- **White ink on production speed**
 - Using UV technology White ink is instantly dry for next layer
 - Printing with white and colours without drying issues as seen with Solvent inks
 - With double white in the ink configuration, printing speed is not reduced while printing white
 - HP can not print with white ink
 - Fujifilm can print with white ink
- **Print stability**
 - Stable, high quality operation due to NCU, NRS, MCT, MAPS and Variable Dot
 - It increases uptime and adds quality to the print
 - The UJV55-320 is a reliable printer with secured uptime for many years
 - All Mimaki features, common or unique guarantee the utmost highest stability in our market

COMPARISON



UJV55-320



Acuity LED 3200R



HP Latex 1500



General			
Brand	MIMAKI	FujiFilm	HP
OEM	-	✓	-
Model Information			
Manufacturer	Mimaki Manufacturer	Mimaki Manufacturer	HP Manufacturer
Category	72"	72"	72"
Curing System		UV-LED	
Platform	Roll to Roll	Roll to Roll	Roll to Roll
Power Consumption (in kW)	4,3	4,3	8
Machine (WxDxH in mm)	5410x995x1440	5410x995x1440	5740x1380x1670
Interface	USB/Ethernet	USB/Ethernet	Ethernet
Introduced On	8-3-2016	1-6-2016	1-6-2016
Website (product link)	http://www.mimakieurope.com/	https://www.fujifilm.eu/	http://www8.hp.com/nl/nl/large-format-printers/
Ink Information			
Ink Category	LED UV Ink	LED UV Ink	Latex
Ink Type	LUS-120		
White Ink	✓	✓	-
Clear Varnish	-	✓	-
Primer	-	-	-
Metallic	-	-	-

COMPARISON



Detailed Information	UJV55-320	Acuity LED 3200R	HP Latex 1500
Print head Manufacturer	Ricoh	Ricoh	HP
Print head Model	Gen5	Gen5	HP881
Number of Heads	4	4	4
Head Arrangement	Staggered	Staggered	
Minimum Drop Size (pl)	7	7	12
Min. Media Width (mm)	210	210	
Max. Media Width (mm)	3.200	3.200	3.200
Max. Print Width (mm)	3.200	3.200	3.200
Max. Roll Weight (kg)	100	100	160
Media Height (mm)	1,0	1,0	0,4
Options and Extra Functionalities			
Print & Cut	-	-	-
Drying Fan Included	-	-	-
Take Up Unit Included	✓	✓	✓
Heavy Take Up Optional	-	-	-
Nozzle Check Unit	✓	✓	✓
Nozzle Recovery System	✓	✓	✓
Uninterrupted Ink Supply System	✓	✓	-
Automatic Cleaning Maintenance	✓	✓	✓
Jam Sensor	✓	✓	-
Bulk Ink System	✓	✓	✓
Remote Control	-	-	✓
Email Notification	✓	-	-
Rip Included	✓	✓	-
Rip Brand	Rasterlink	Caldera	
Max. Take Up Weight (kg)	100	100	160
Speed vs. Quality			
Min. Resolution (dpi)	300	300	
Max. Resolution (dpi)	1.200	1.200	1.200
Max. Printing Speed (m ² /h)	110,0	110,0	74,0
Draft Print Speed (m ² /h)	110	110	74
Production Print Speed (m ² /h)	40	40	45
Quality Print Speed (m ² /h)	20	20	16

REVIEWS

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The new UJV55-320 offers an ideal solution for the huge growth market of grand format backlit graphics; frequently found in airports and other public places. “With low running costs, thanks to its LED UV curing technology and competitively priced inks, a substantial colour gamut, excellent image opacity and Mimaki’s traditionally high print quality, we’re certain it will have broad appeal. We’re also confident it will deliver class leading performance for its price, making it a highly attractive proposition.”



Supporting the wide-format digital print sector

The Mimaki UJV55-320 was released in April 2016 and has become a very popular product due to its keen price point and unique set of features. The provision of an inline, post-print LED lightbox allows print quality of backlit signage to be checked during the production run, simulating its installed look and reducing waste and time. The UJV55-320 also features twin roll printing capability, enabling printing on two separate rolls of the same media for simultaneous printing of two different jobs.



Mimaki

Thank you



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