JV300-130/160 *Product Guide*

Outstanding Speed, Stunning Beauty

C M Y K LC LM LK Or + W MIMAKI ENGINEERING CO., LTD.

Global Marketing Department

2016/5/30

Ver1.9

Note : The information in this document is subject to change without notice.

Mimaki

Key Features

1. ## Outstanding Speed

   ① High productivity with staggered dual-head design and large droplet

      A) 2 print heads aligned in stagger configuration performs wide band printing

      B) Max drop size of 35pl enables high speed & high density printing

   ② Less bleeding results even in high speed printing

      A) High speed and high density printing without bleeding by fast drying ink, SS21, and 3-way intelligent heater

2. ## Stunning Beauty

   ① Brilliant color reproduction by various colors

      A) Orange ink delivers wider color gamut printing

      B) Light black ink produces accurate grayscale printing without color shifts

      C) White ink ensures high opacity on transparent media

   ② Mimaki's original technologies to perform high quality printing

      A) Smooth image quality by waveform control and precise dot placing technology

      B) 3-way intelligent heater optimizes dot sizes

      C) MAPS3* eliminates banding and produces uneven print density (*Mimaki Advanced Pass System 3)

Mimaki®

System Configurations

〈PC〉

USB2.0 cable of 5m(15ft)
is recommended

Recommended specifications
CPU : Core i5 3.2GHz
MEMORY : 8GB
HDD : 500GB
USB2.0 : 4 ports or more
Optical disk drive : DVD-ROM
Windows7 Professional 64bit
Monitor1366x768

〈Design software〉

Ai
Adobe Creative Cloud
Illustrator CC

Ps
Adobe Creative Cloud
Photoshop CC

CorelDRAW X6

※ Accpet PS,EPS,TIFF,BMP,JPEG, PDF etc
※ Computer, initial ink fees, transportation fees,
installation fees, education costs etc are special
needs.

JV300 System configuration

JV300-160

<RIP software> bundled

RASTERLINK 6

Option

・AMF130(160)KIT: Tension Bar
・MBIS3: Mimaki BulK Ink Supply Unit
・STATIC PREVENTION SHEET FOR 300-130
 (160): Static Cling Prevention Sheet Kit
・Drying Fan
・Air exhaust unit

Mimaki®

Ink Type / Ink Set

Ink Type	Colors	Ink Sets		Ink Capacity	*
SS21	9C*	①4C	M C Y K K Y C M	CMYKLcLmLkOr: ①440ml cartridge ②2L Ink pack (for MBIS3) W: ①220ml cartridge only	*Printing in 9 colors cannot be performed. *④ is available after F/W Ver.1.5.
		②8C	M C Y K Lc Lm Lk Or		
		③6C+WW	M C Y K Lc Lm W W		
		④6C+WW	M C Y K Lk Or W W		
ES3	6C	①4C	M C Y K K Y C M	CMYKLcLm: ①440ml cartridge W: ①220ml cartridge only	*③ is available after F/W Ver.1.5. *The PN of white ink is 【SPC-0433W-2】.
		②6C	M C Y K Lc Lm C M		
		③6C+WW	M C Y K Lc Lm W W		
BS3 BS4	4C	①4C	M C Y K K Y C M	CMYK: ①600ml Ink pack (with Eco-cartridge) ②2L Ink pack (for MBIS3)	
Sb53	6C*	①4C	M B Y Dk Dk Y B M	BMYDk(K)LbLm: ①440ml cartridge ②2L Ink pack(forMBIS3)	*K or Dk are available.
		②6C	M B Y Dk Lb Lm B M		
Sb54	6C	①4C	M B Y K K Y B M	BMYKLbLm: ①440ml cartridge ②2L Ink pack(forMBIS3)	*Sb54 is available after F/W Ver.1.5.
		②6C	M B Y K Lb Lm B M		

<About a change of ink configuration after the purchase>
・ After the purchase, Mimaki cannot accept customer's change request of ink configurations in cases as below.
   1. Change ink type from aqueous ink to eco-solvent ink, or from eco-solvent ink to aqueous ink.
   2. Change ink set that includes spot color such as white and silver to other ink sets. (e.g. from CMYKLcLmWW to CMYK)
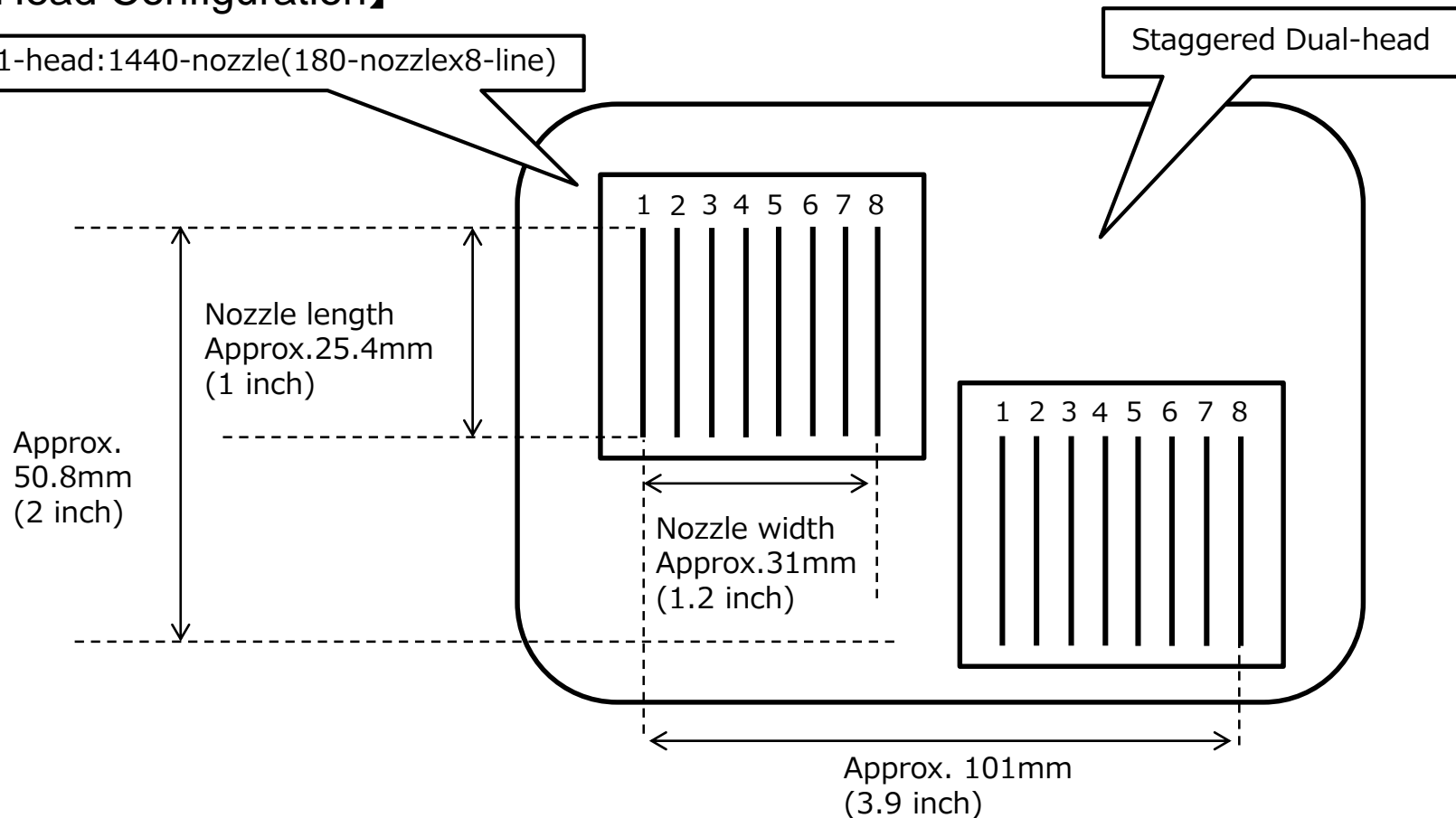・ All operation is done with Mimaki's customer engineer. Customers cannot change ink sets by themselves.

Outstanding Speed① Staggered dual-head

High productivity by wide band printing

Wide band printing by staggered dual-head arrangement performs high speed printing.

【Head Configuration】
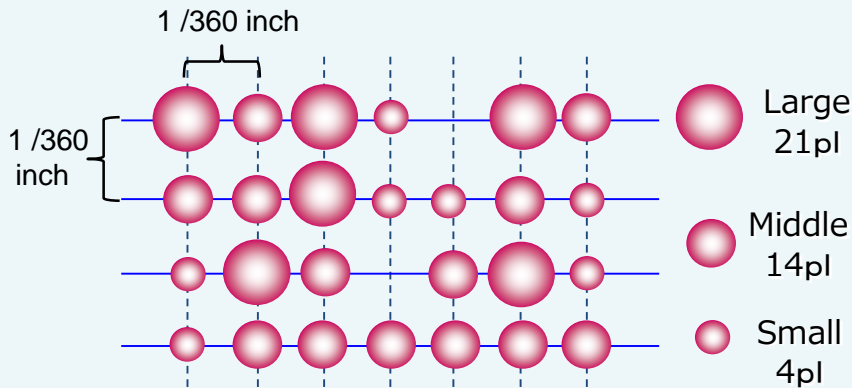
1-head:1440-nozzle(180-nozzlex8-line)

Staggered Dual-head

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

Nozzle length
Approx.25.4mm
(1 inch)

Approx.
50.8mm
(2 inch)

Nozzle width
Approx.31mm
(1.2 inch)

Approx. 101mm
(3.9 inch)

Mimaki®

Outstanding Speed② Larger Ink drop

Large dot size

The maximum drop size of 35pl delivers high density printing even in high speed mode (low resolution mode). The maximum productivity of 105.9㎡/h *1 is attained.
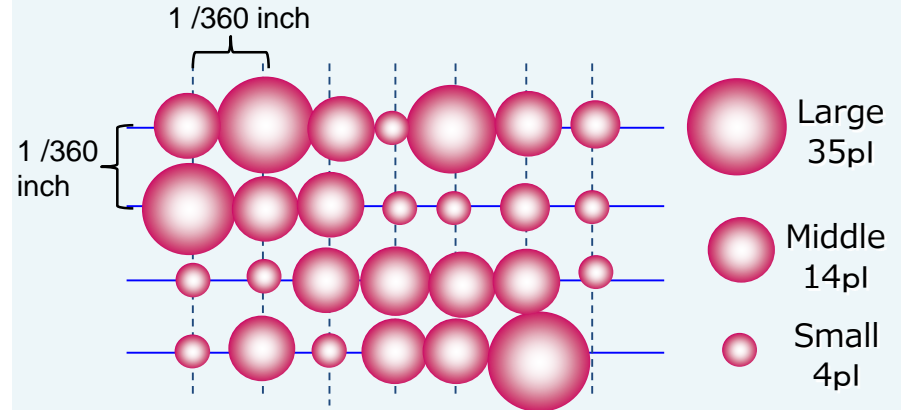
〈Case 1 : Maximum dot size =21pl〉

1 /360 inch

1 /360 inch

Large 21pl

Middle 14pl

Small 4pl

Low density due to gap between dots
↓
Not suitable for high speed mode(low resolution)

〈Case 2 : Maximum dot size =35pl〉

1 /360 inch

1 /360 inch

Large 35pl

Middle 14pl

Small 4pl

High density as no gap between dots
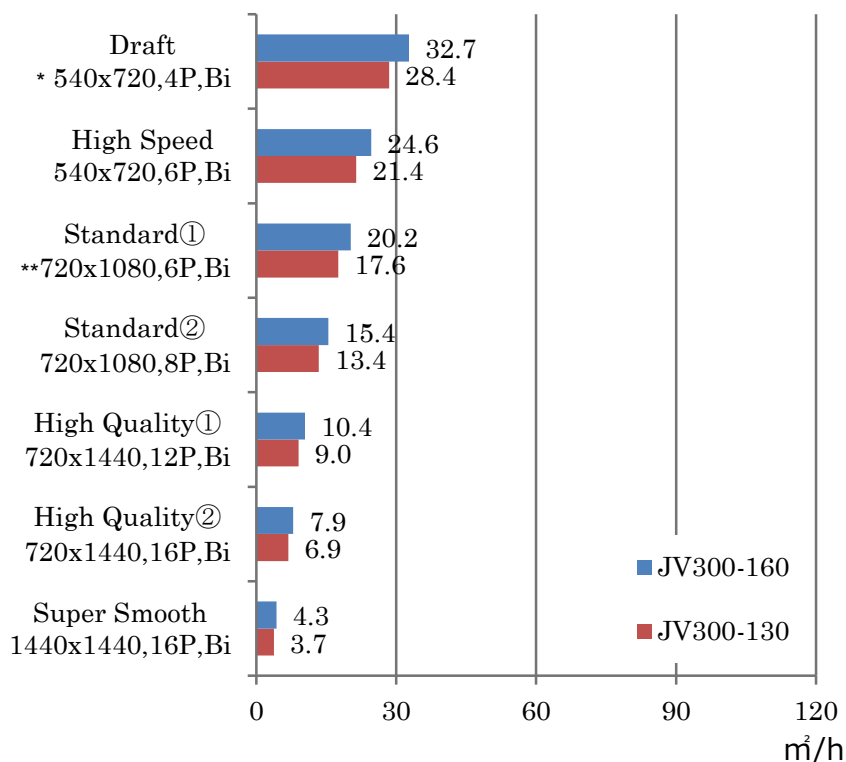↓
Suitable for High speed mode

Not only the print mode using 360x360 dpi, but the other low resolution modes of 540x360 and 720x720 which have not been used are available. This delivers wide print speed coverage from high resolution mode to low resolution mode.

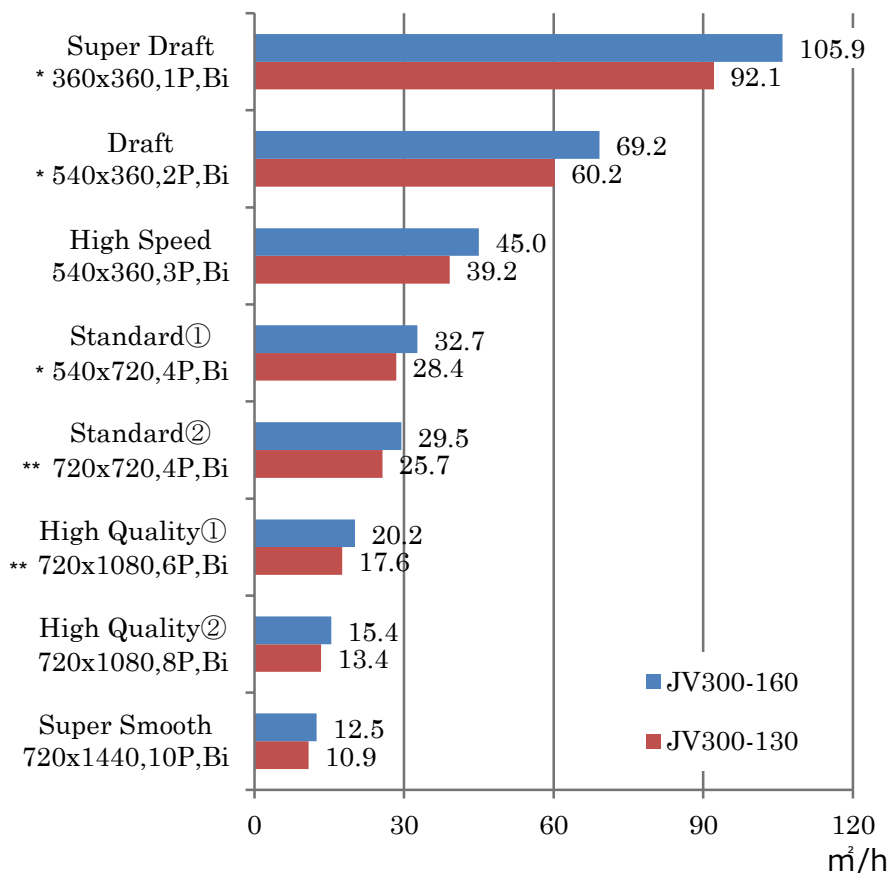(Note : *1 When printed with super draft mode, 360×360, 1P, Bi)

Mimaki®

4C: CMYK

PVC

Mode	JV300-160	JV300-130
Draft * 540x720,4P,Bi	32.7	28.4
High Speed 540x720,6P,Bi	24.6	21.4
Standard① **720x1080,6P,Bi	20.2	17.6
Standard② 720x1080,8P,Bi	15.4	13.4
High Quality① 720x1440,12P,Bi	10.4	9.0
High Quality② 720x1440,16P,Bi	7.9	6.9
Super Smooth 1440x1440,16P,Bi	4.3	3.7

Banner

Mode	JV300-160	JV300-130
Super Draft * 360x360,1P,Bi	105.9	92.1
Draft * 540x360,2P,Bi	69.2	60.2
High Speed 540x360,3P,Bi	45.0	39.2
Standard① * 540x720,4P,Bi	32.7	28.4
Standard② ** 720x720,4P,Bi	29.5	25.7
High Quality① ** 720x1080,6P,Bi	20.2	17.6
High Quality② 720x1080,8P,Bi	15.4	13.4
Super Smooth 720x1440,10P,Bi	12.5	10.9

Both charts in ㎡/h

The print modes in this document is the performance of the printer itself. The profiles are created selectively depending on the media type. When the profile is not available, you can create profile by using MPMⅡ.
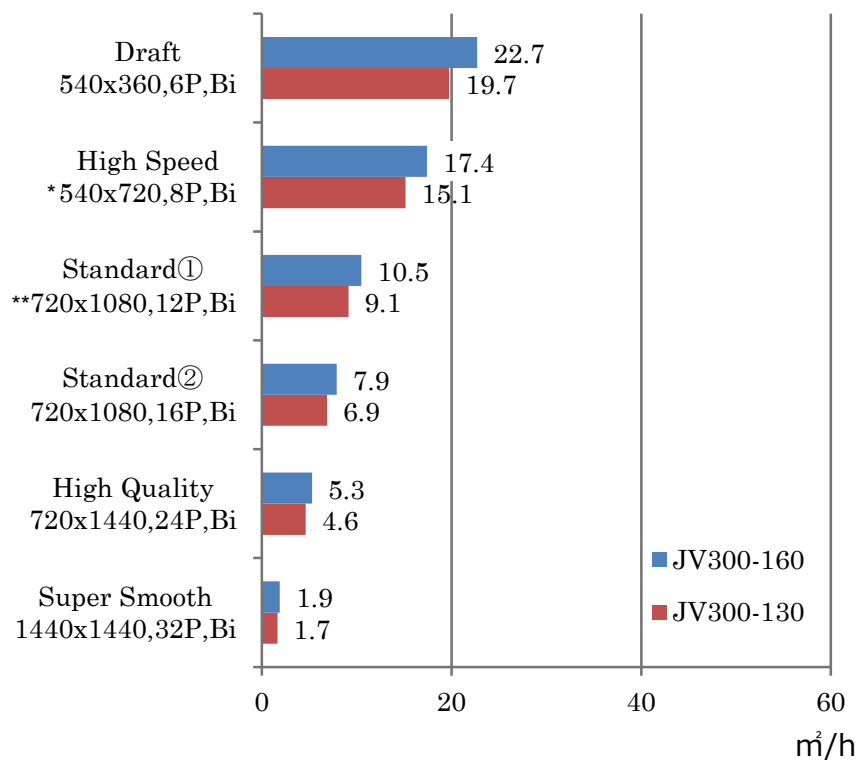
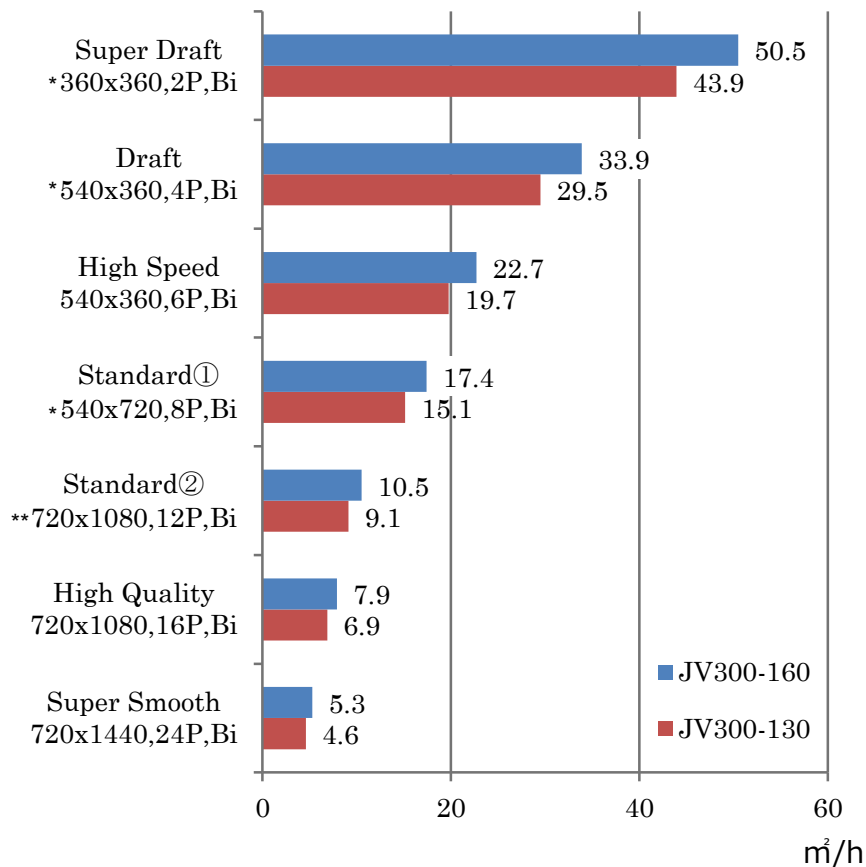*Setting "quality priority" with RLP, MAPS works.
**MAPS doesn't work

Mimaki®

Outstanding Speed④ 8C/6C+WW (SS21)

8C(CMYKLcLmLkOr) / 6C(CMYKLcLm+WW) (CMYKLkOr+WW)

PVC

	JV300-160	JV300-130
Draft 540x360,6P,Bi	22.7	19.7
High Speed *540x720,8P,Bi	17.4	15.1
Standard① **720x1080,12P,Bi	10.5	9.1
Standard② 720x1080,16P,Bi	7.9	6.9
High Quality 720x1440,24P,Bi	5.3	4.6
Super Smooth 1440x1440,32P,Bi	1.9	1.7

㎡/h

Banner

	JV300-160	JV300-130
Super Draft *360x360,2P,Bi	50.5	43.9
Draft *540x360,4P,Bi	33.9	29.5
High Speed 540x360,6P,Bi	22.7	19.7
Standard① *540x720,8P,Bi	17.4	15.1
Standard② **720x1080,12P,Bi	10.5	9.1
High Quality 720x1080,16P,Bi	7.9	6.9
Super Smooth 720x1440,24P,Bi	5.3	4.6

㎡/h

*Setting "quality priority" with RLP, MAPS works.
**MAPS doesn't work

Mimaki®

White printing   Ink set: CMYKLcLm+WW/CMYKOrLk+WW

Fast drying of SS21 ink performs 3-layer printing using white ink.
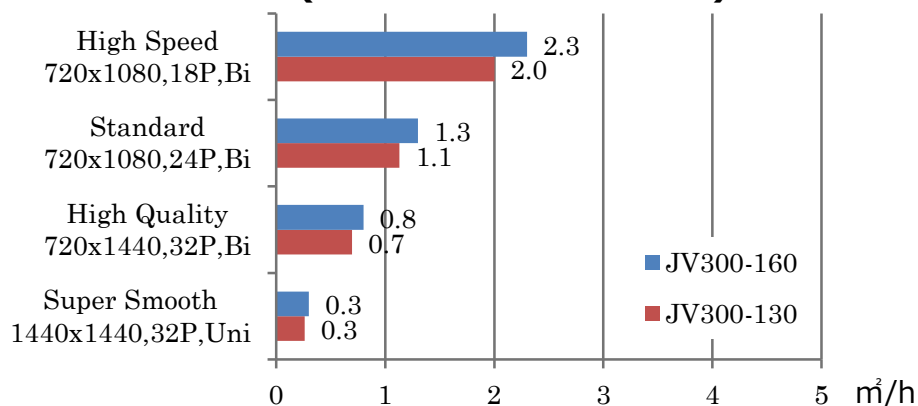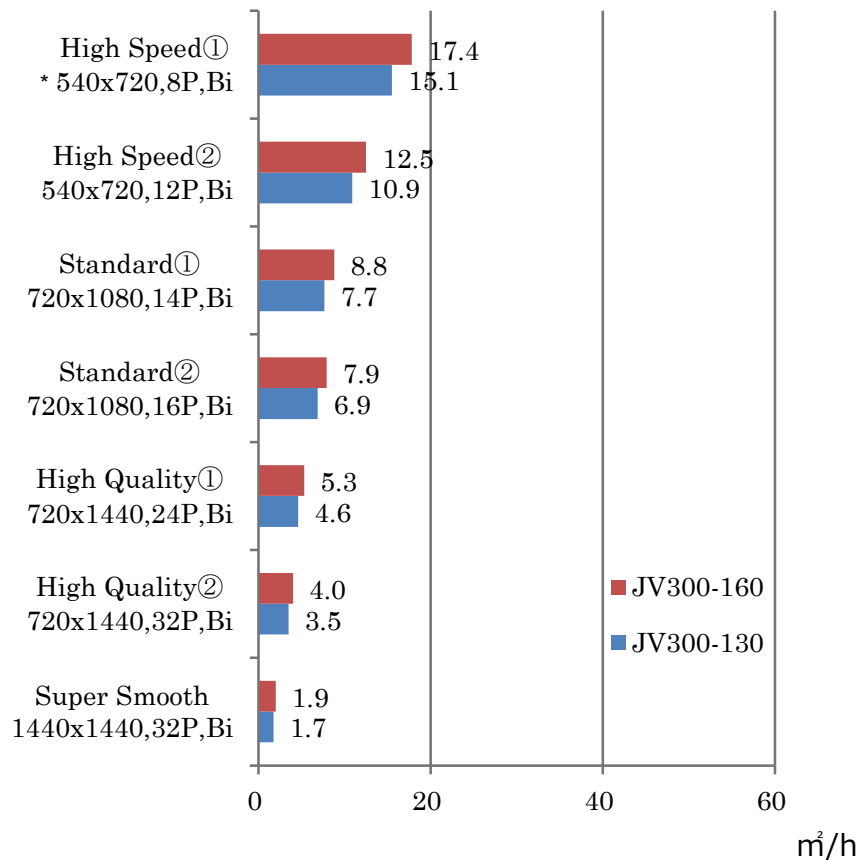When printing white ink only, the maximum print speed is 10.5㎡/h.

1-layer printing (White only)
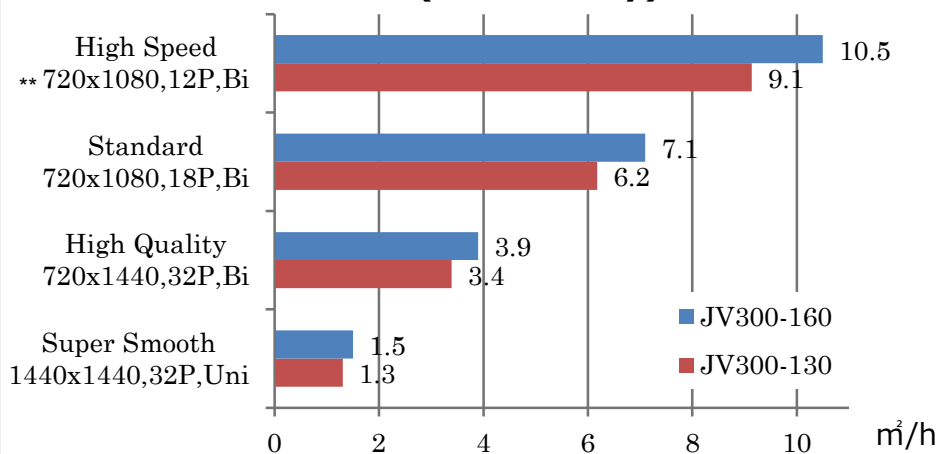
	JV300-160	JV300-130
High Speed **720x1080,12P,Bi	10.5	9.1
Standard 720x1080,18P,Bi	7.1	6.2
High Quality 720x1440,32P,Bi	3.9	3.4
Super Smooth 1440x1440,32P,Uni	1.5	1.3

㎡/h

2-layer printing (Color→White / White→Color)

	JV300-160	JV300-130
High Speed 720x1080,14P,Bi	3.1	2.7
Standard 720x1080,18P,Bi	2.3	2.0
High Quality 720x1440,32P,Bi	1.3	1.1
Super Smooth 1440x1440,32P,Uni	0.5	0.4

㎡/h

3-layer printing (Color→White→Color)

	JV300-160	JV300-130
High Speed 720x1080,18P,Bi	2.3	2.0
Standard 720x1080,24P,Bi	1.3	1.1
High Quality 720x1440,32P,Bi	0.8	0.7
Super Smooth 1440x1440,32P,Uni	0.3	0.3

㎡/h

**MAPS doesn't work

Mimaki®
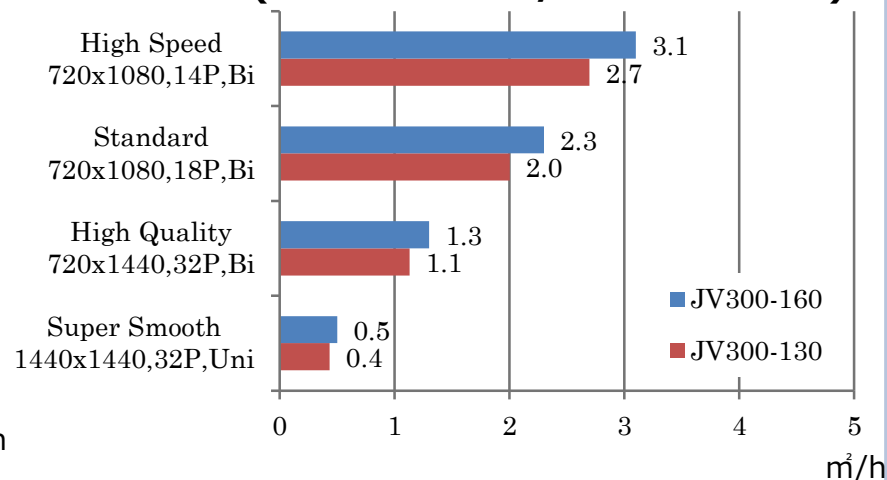
Outstanding Speed⑥ 4C(CMYK) (ES3)

4C: CMYK

PVC
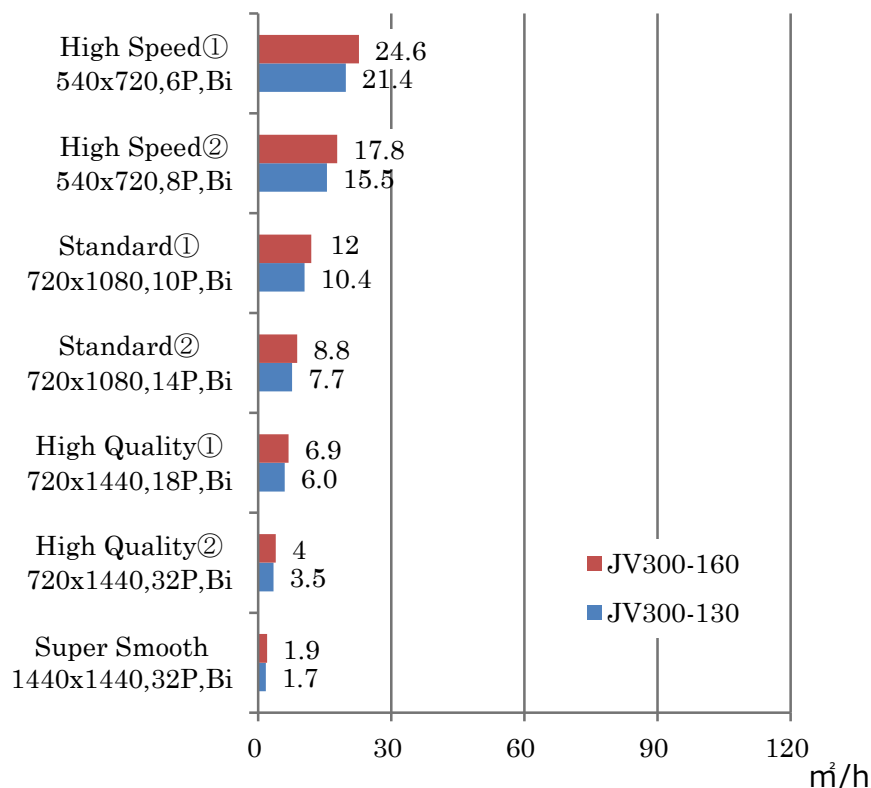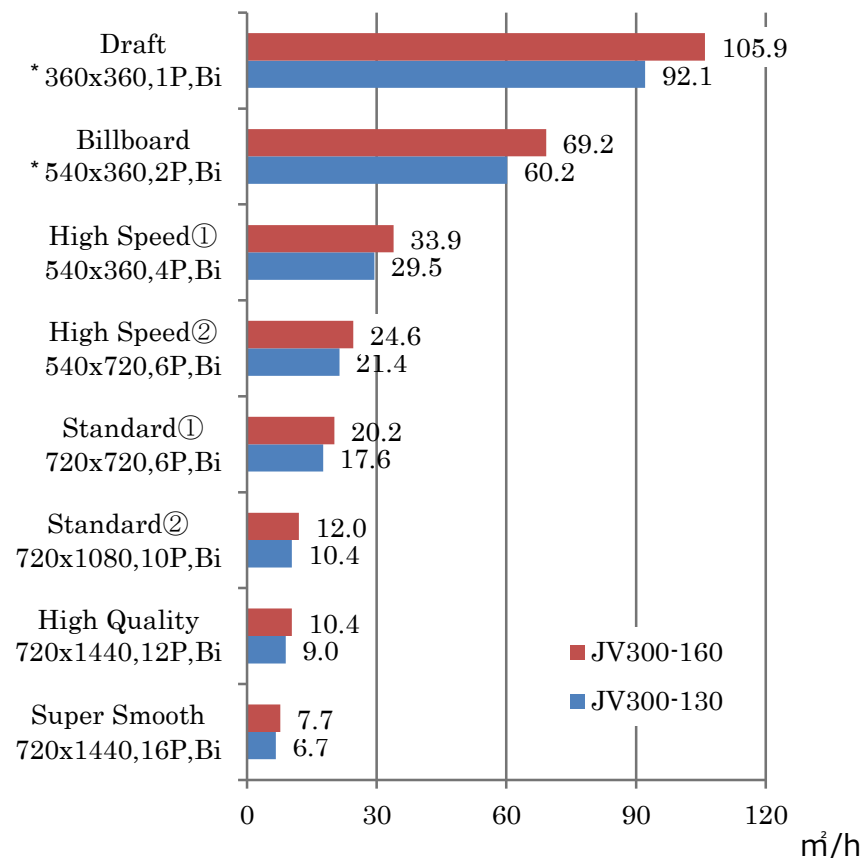
Mode	JV300-160	JV300-130
High Speed① 540x720,6P,Bi	24.6	21.4
High Speed② 540x720,8P,Bi	17.8	15.5
Standard① 720x1080,10P,Bi	12	10.4
Standard② 720x1080,14P,Bi	8.8	7.7
High Quality① 720x1440,18P,Bi	6.9	6.0
High Quality② 720x1440,32P,Bi	4	3.5
Super Smooth 1440x1440,32P,Bi	1.9	1.7

m²/h

Banner

Mode	JV300-160	JV300-130
Draft *360x360,1P,Bi	105.9	92.1
Billboard *540x360,2P,Bi	69.2	60.2
High Speed① 540x360,4P,Bi	33.9	29.5
High Speed② 540x720,6P,Bi	24.6	21.4
Standard① 720x720,6P,Bi	20.2	17.6
Standard② 720x1080,10P,Bi	12.0	10.4
High Quality 720x1440,12P,Bi	10.4	9.0
Super Smooth 720x1440,16P,Bi	7.7	6.7

m²/h

The print modes in this document is the performance of the printer itself. The profiles are created selectively depending on the media type. When the profile is not available, you can create profile by using MPMⅡ.

*Setting "quality priority" with RLP, MAPS works.

Mimaki®

Outstanding Speed⑦ 6C (ES3)

6C: CMYKLcLm

PVC

	JV300-160	JV300-130
High Speed① * 540x720,8P,Bi	17.4	15.1
High Speed② 540x720,12P,Bi	12.5	10.9
Standard① 720x1080,14P,Bi	8.8	7.7
Standard② 720x1080,16P,Bi	7.9	6.9
High Quality① 720x1440,24P,Bi	5.3	4.6
High Quality② 720x1440,32P,Bi	4.0	3.5
Super Smooth 1440x1440,32P,Bi	1.9	1.7

㎡/h

Banner

	JV300-160	JV300-130
Draft * 360x360,2P,Bi	50.5	43.9
High Speed① 540x360,6P,Bi	22.7	19.7
High Speed② * 540x720,8P,Bi	17.4	15.1
Standard① 540x720,10P,Bi	14.6	12.7
Standard② 720x1080,14P,Bi	8.8	7.7
High Quality 720x1440,18P,Bi	6.7	5.8
Super Smooth 1440x1440,32P,Bi	1.9	1.7

㎡/h

*Setting "quality priority" with RLP, MAPS works.

Mimaki®

Outstanding Speed⑧ White printing(ES3)

White printing   Ink set: CMYKLcLm+WW

1-layer printing (White only)

High Speed 720x1080,18P,Bi	JV300-160: 3.8 / JV300-130: 3.3
Standard 720x1080,24P,Bi	JV300-160: 2.9 / JV300-130: 2.5
High Quality 720x1440,32P,Bi	JV300-160: 2.2 / JV300-130: 1.9

(m²/h, axis 0.0–6.0)

2-layer printing (Color→White / White→Color)

High Speed 720x1080,18P,Bi	
Standard 720x1080,24P,Bi	
High Quality 720x1440,32P,Bi	

(m²/h, axis 0.0–2.0) JV300-160, JV300-130

3-layer printing (Color→White→Color)

High Speed 720x1080,18P,Bi	JV300-160: 1.0 / JV300-130: 0.9
Standard 720x1080,24P,Bi	JV300-160: 0.7 / JV300-130: 0.6
High Quality 720x1440,32P,Bi	JV300-160: 0.5 / JV300-130: 0.4

(m²/h, axis 0.0–1.5)

Mimaki®

Outstanding Speed⑨ Sublimation (Sb53/54 4C/6C)

BMYDk(K)

Mode	JV300-160	JV300-130
Super Draft *360x360,1P,Bi	112.5	97.9
Draft *540x360,2P,Bi	72	62.6
High Speed① 540x360,3P,Bi	48.6	42.3
High Speed② *540x720,4P,Bi	32.7	28.4
Standard① **720x720,4P,Bi	29.5	25.7
Standard② **720x1080,6P,Bi	20.2	17.6
High Qulaity 720x1080,8P,Bi	15.4	13.4
Super Smooth 720x1440,10P,Bi	12.5	10.9

(scale: 0 – 50 – 100 – 150 ㎡/h)

BMYDk(K)LbLm

Mode	JV300-160	JV300-130
Draft *360x360,2P,Bi	58	50.5
High Speed① *540x360,4P,Bi	36.7	31.9
High Speed② 540x360,6P,Bi	24.3	21.1
Standard① *540x720,8P,Bi	17.4	15.1
Standard② **720x1080,12P,Bi	10.5	9.1
High Quality 720x1080,16P,Bi	7.9	6.9
Super Smooth 720x1440,24P,Bi	5.3	4.6

(scale: 0 – 20 – 40 – 60 – 80 ㎡/h)

*Setting "quality priority" with RLP, MAPS works.   **MAPS doesn't work

■ 2 kinds of black inks

Type	Advantage	Disadvantage
Sb53K	・Less smoking at the time of heat transfer ・Less grainy appearance at the low gradation part	・When printing in 100%, the density is the same as Dk ink, but the density is lower at the part of low gradation part.
Sb53DK	・Reflection density is higher at the low gradation part	・Grainy appearance at the low gradation part can be seen ・Smoke a lot while heat transfer compeered to K ink.

*When using Sb53 inks, the print speed is faster than eco-solvent ink. This is because the viscosity of the Sb53 is lower, which enables ejecting ink faster. *Sb54 can use K only.(Density is same as Sb53 Dk)

Mimaki®

Stunning Beauty (Color)① Orange ink with SS21

Wider gamut with new Orange ink

①Orange ink is added as a process color
②Approx. 94.8% of PANTONE color chart is covered*
③High reproducibility of corporate color, food, etc.

【Gamut comparison】

○ CMYKLcLmLkOr
— CMYK
○ Approximate colors of PANTONE
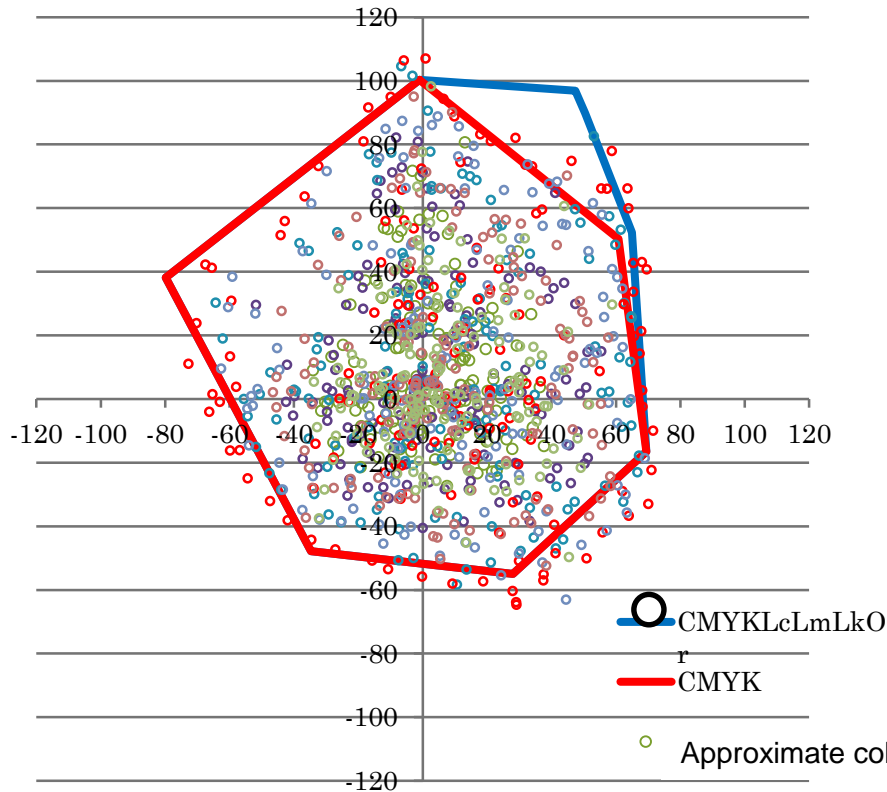
【Printed result comparison】

CMYKLcLm

Less freshness without Orange ink

CMYKLcLmLk**Or**

High reproducibility with bright, fresh Orange

*PANTONE solid chips coated(1085 colors)

Stunning Beauty (Color)② Light-Black Ink with SS21

High quality Monochrome color reproduction with new Light-Black ink

Good color balance without color shifts reproduce high quality monochrome color, smooth and clear grey output

【Print result comparison①】

CMYKLcLm

CMYKLcLm**Lk**Or

・Reddish grey

・No color shifts and smooth gradation

【Print result comparison②】

CMYKLcLm
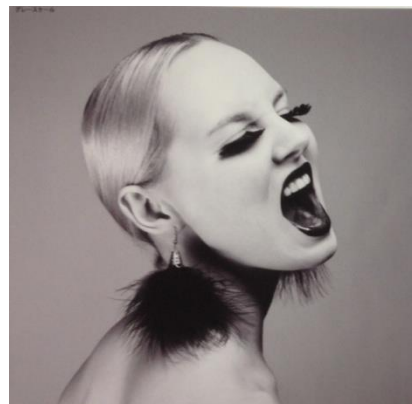
CMYKLcLm**Lk**Or

・Reddish grey
・Skin w/grainy appearance
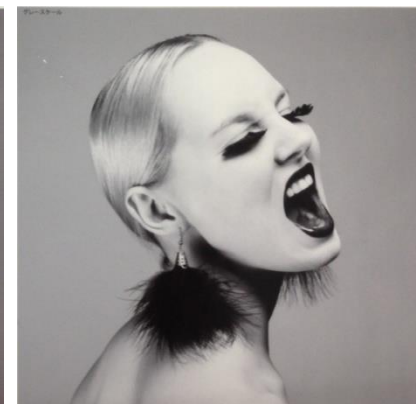
・Clear grey
・Smooth skin

Mimaki®

Stunning Beauty (Color)③ High opacity print with white ink

White Ink

①Vivid color expression even on transparent/colored media by printing white ink before printing color
②Higher opacity printing is attained by larger ink droplet*

【Density/Opacity comparison (White - single layer)】
Print White in 100%(Density set on RL6) → Put Mimaki logo underneath and light up from the back-side

JV300-160	JV33-160

Transmission density:0.40

Transmission density: 0.27

Density : 48%UP
Productivity : 430%Up

Print mode:720x1440,32P,Bi,Hi
Productivity:3.9㎡/h
Maximum drop size: 24pl
Media: PET(SPC-0641-62)

Print mode:720x1440,32P,Bi ,Hi
Productivity:0.9㎡/h
Maximum drop size: 14pl
Media: PET(SPC-0641-62)

*The white ink of SS21 is same as the conventional white ink. The higher density print is accomplished by the larger ink droplet.

Stunning Beauty (Quality)① Waveform Control Technology

Waveform Control Technology for high quality printing

①Jetting ink drops in straight with almost a perfect circle dots accomplishes high accuracy dot placement
②Waveform which has less mist is adopted to print crisp letters, lines, edges, etc.
③Waveform is optimized in a way not to cause nozzle-out

[Image 1]

Ejects ink in straight with a near-perfect circle
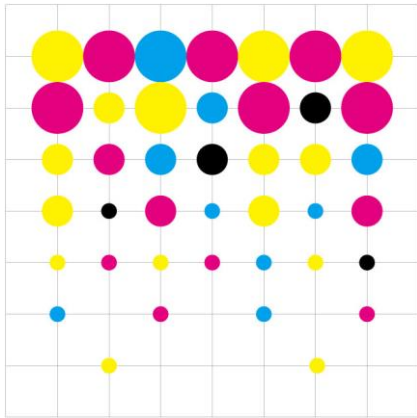
Ink dots do not overlap and accurate dot placement
↓
No grainy appearance

[Image 2]

Ejects ink not straightly and not with a perfect circle
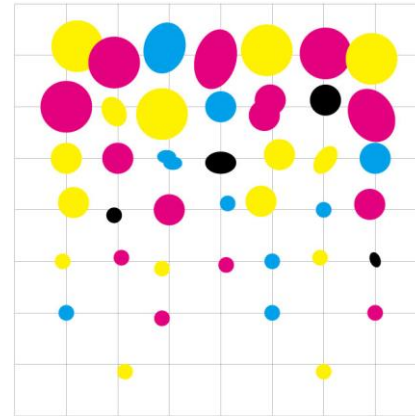
Ink dots overlap and not accurate dot placement
↓
Grainy appearance and uneven density

Mimaki®

Stunning Beauty (Quality)② Variable Dot Technology

Variable Dot

The variable dot technology, printing in 3 different dot sizes of large, medium, and small, delivers the high image printing with very smooth gradations.

Variable dot
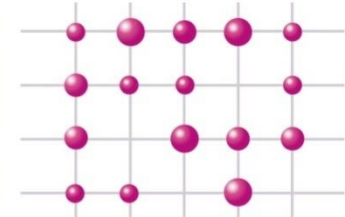
Normal dot
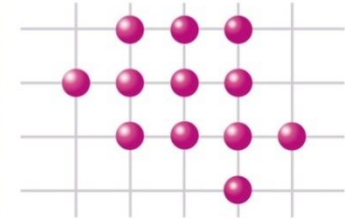
3 different drop sizes are selected from 4pl/7pl/8pl/14pl/16pl/24pl/35pl depending on the ink type and print mode. The combination of the 3 drop sizes are embedded in profile.
Having wide range of dot sizes, not only high resolution printing for high quality but high speed & density printing for high productivity is attained.

Stunning Beauty (Quality)③ Optimizing Dot Size

3Way Intelligent Heater plus Top Blower

①Ensures higher print quality without smear by quick and accurate ink dots fixed with heating media to proper temperature by Pre and Print heaters
②Post-heater provides additional drying after printing
③Top blower controls dot sizes by drying ink from its surface

【**3-way Intelligent Heater (Mimaki's patent**)】

Patent number

Japan	4889059
USA	8.444.262
China	ZL 200910222559.8

Top blower

Air flow onto the surface of the ink controls dot sizes.

Heater cover

Print-head

②Print-heater

③Post-heater
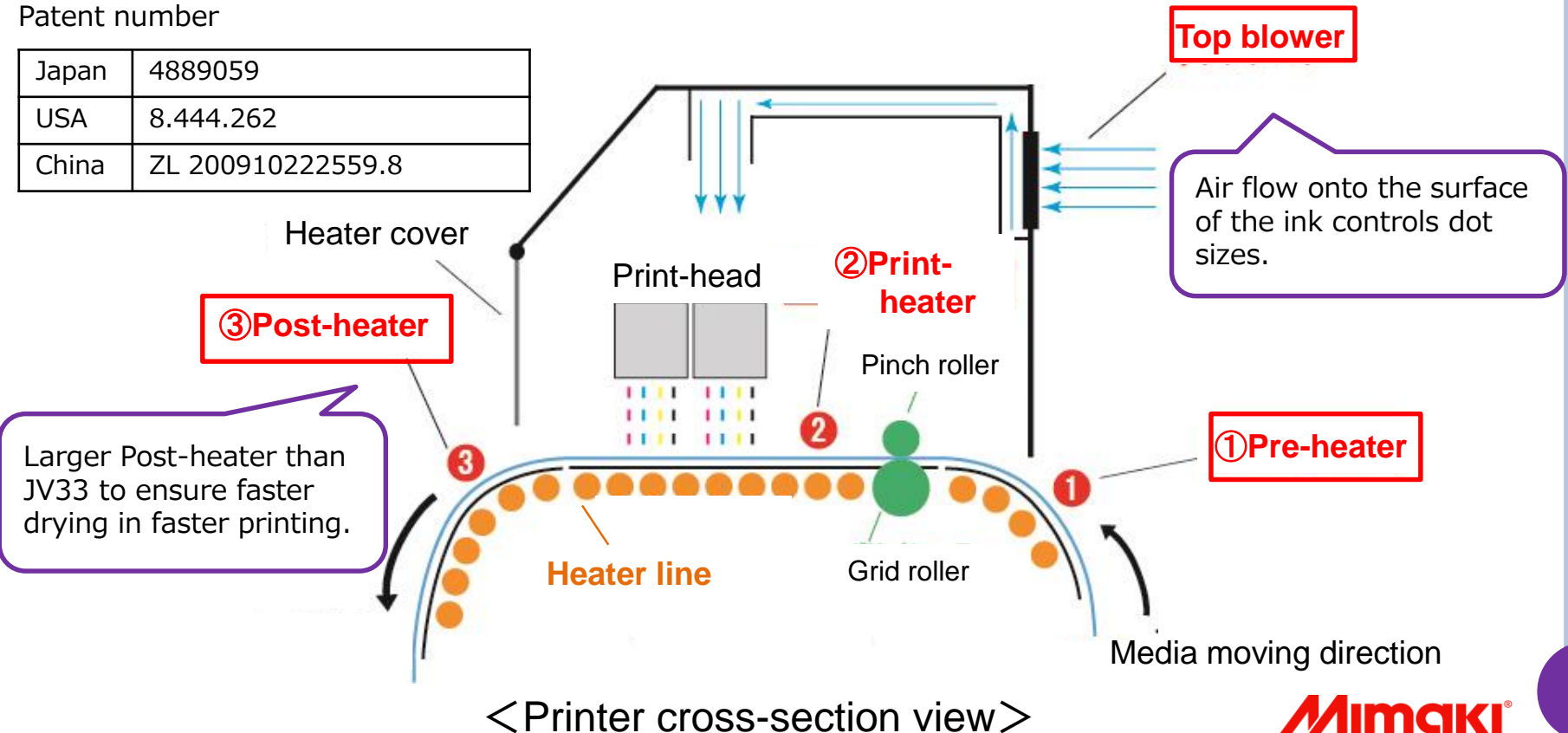
Pinch roller

Larger Post-heater than JV33 to ensure faster drying in faster printing.

①Pre-heater

Heater line

Grid roller

Media moving direction

＜Printer cross-section view＞

Mimaki®

Stunning Beauty (Quality)④ MAPS3

MAPS3 (Mimaki Advanced Pass System 3)

MAPS3 prints passes in gradation-like tone by dispersing ink drops between passes, allowing for reducing banding, uneven drying inks, and bidirectional stripes.
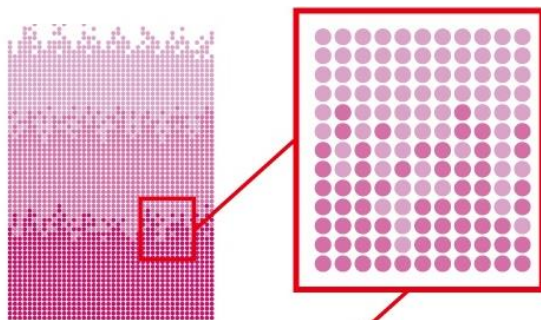
【MAPS3】　　　　　　　　【Normal Pass】
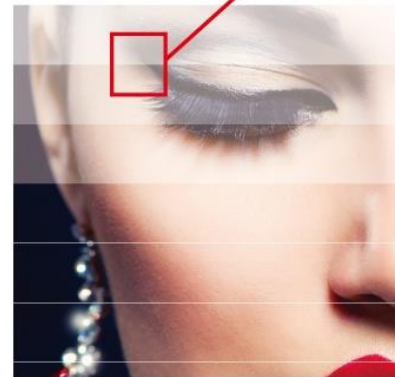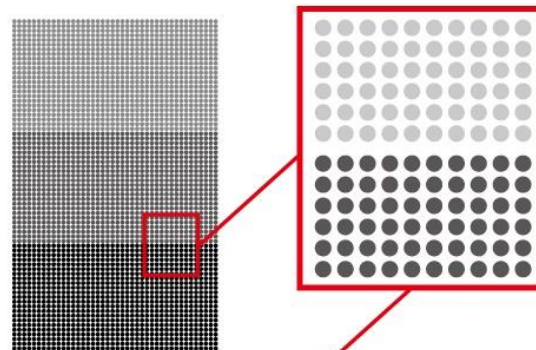
※MAPS doesn't work with some print mode.

Continuous Operation① NRS (Nozzle Recovery System)

Less downtime by NRS

Even if the nozzle clogging is not improved by the maintenance function, the continuous printing operation without losing image quality is possible by using the other nozzles registering clogged nozzle in the printer.

Nozzle check pattern
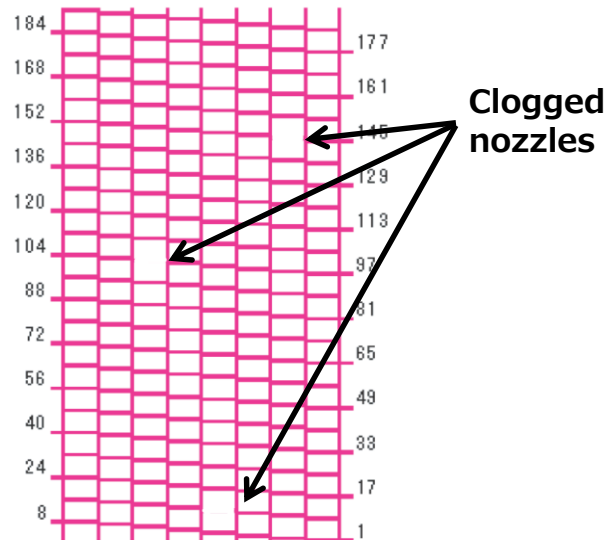
Clogged nozzles

Register the number of clogged nozzles
(Max register: 10 nozzles out of one row)

Use the other nozzles instead of clogged nozzles

・10 nozzles can be registered per 1 nozzle line
・The print speed does not change by using NRS
・Depending on the condition of the nozzle, NRS does not work
・When using low passes, NRS does not work
・When using MAPS3, NRS may not work in some mode

【Continuous printing by NRS 】

Clog occurs — **Stop working** — **Back to work immediately**

Continuous Operation
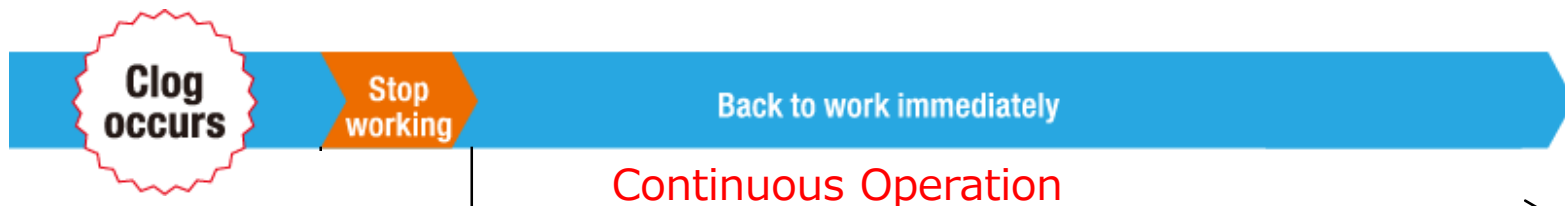
Continuous Operation② NCU (Nozzle Check Unit)

Unattended printing with stable image quality

NCU checks the nozzle condition automatically per transferred file or set print length.
①When nozzles are clogged, cleaning is automatically executed. Printing with the nozzle clogged is avoided.
②When nozzle clogging is not recovered by cleaning, Nozzle Recovery System is automatically done, and start printing.
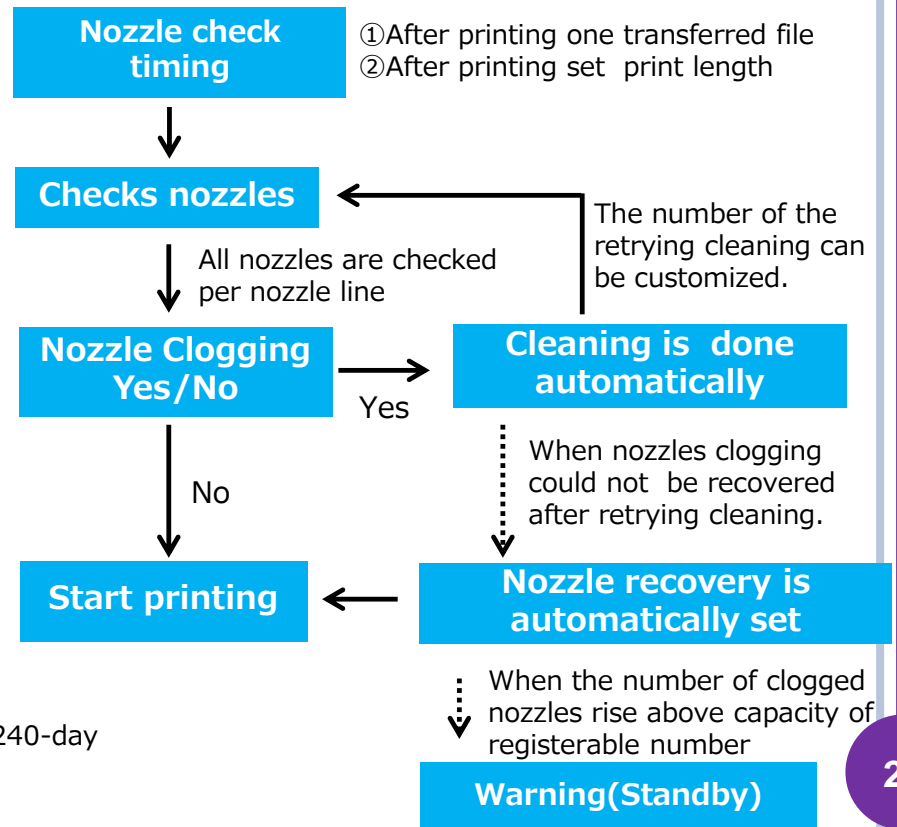
【Image of NCU function】

Print head
Ink ejection by each nozzle line

Sensor :
Check each nozzle ejection

Light emitter

Receiver

Sensor :
Receiver detects a light→ no ejecting→Cleaning
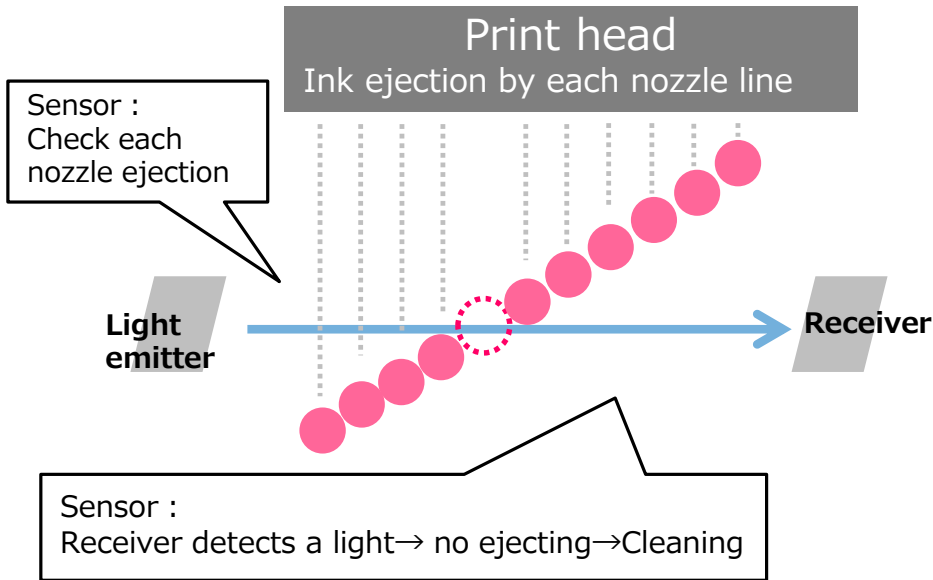
Nozzle check duration : 50-sec./check
Nozzle check ink consumption : 192 cc/year *
*Operating Condition: One check/hour x 10-hour operation/day x 240-day

【NCU operation flow】

Nozzle check timing

①After printing one transferred file
②After printing set print length

Checks nozzles

All nozzles are checked per nozzle line

Nozzle Clogging Yes/No

The number of the retrying cleaning can be customized.

Yes → **Cleaning is done automatically**

No

When nozzles clogging could not be recovered after retrying cleaning.

Start printing ← **Nozzle recovery is automatically set**

When the number of clogged nozzles rise above capacity of registerable number

Warning(Standby)

22

Continuous Operation③ Automatic Wiper Cleaning

Automatic Wiper Cleaning

①The ink on the wiper is automatically cleaned up after cleaning.
The ink on the wiper does not attached to the nozzles. This allows for the stable firing of ink.
②The daily maintenance becomes easier because the wiper is cleaned up automatically.

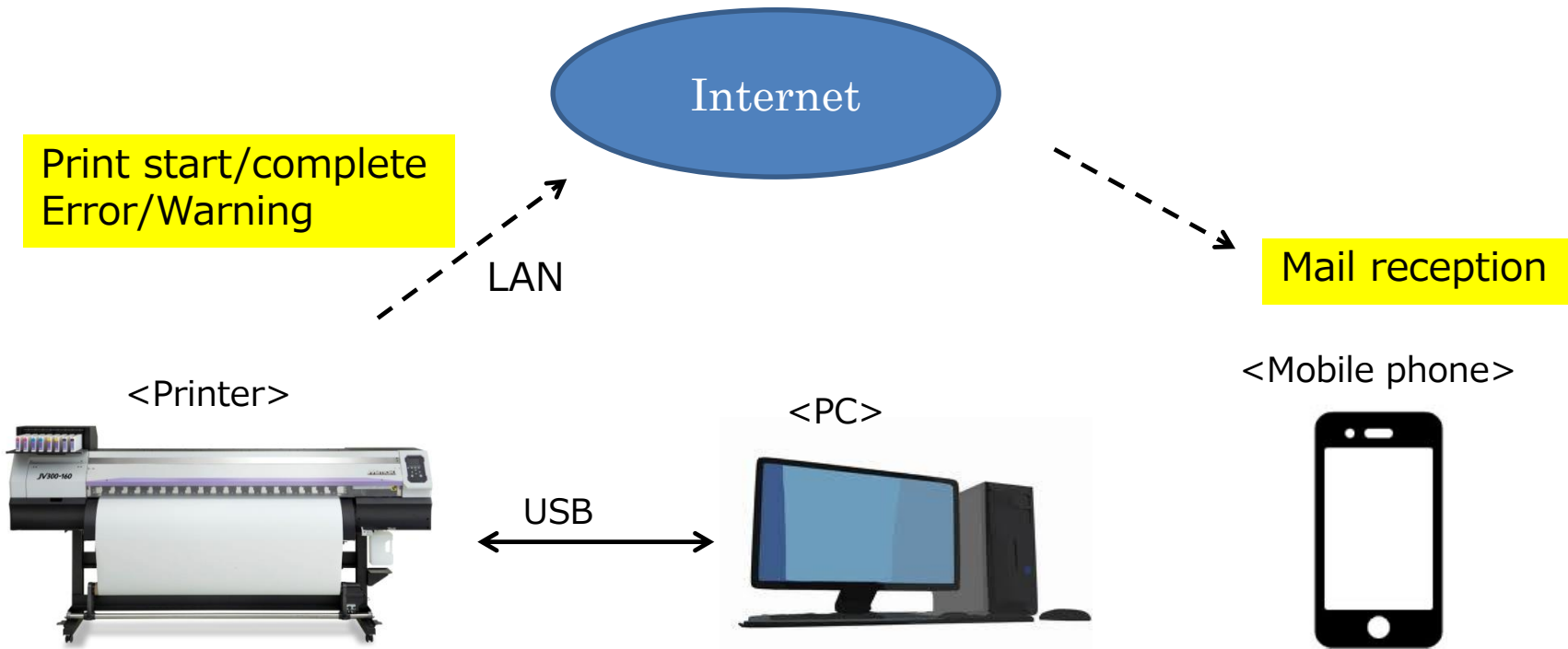【Automatic Wiper Cleaning】

①Washing liquid

Wiper Cleaner

②Wipe out
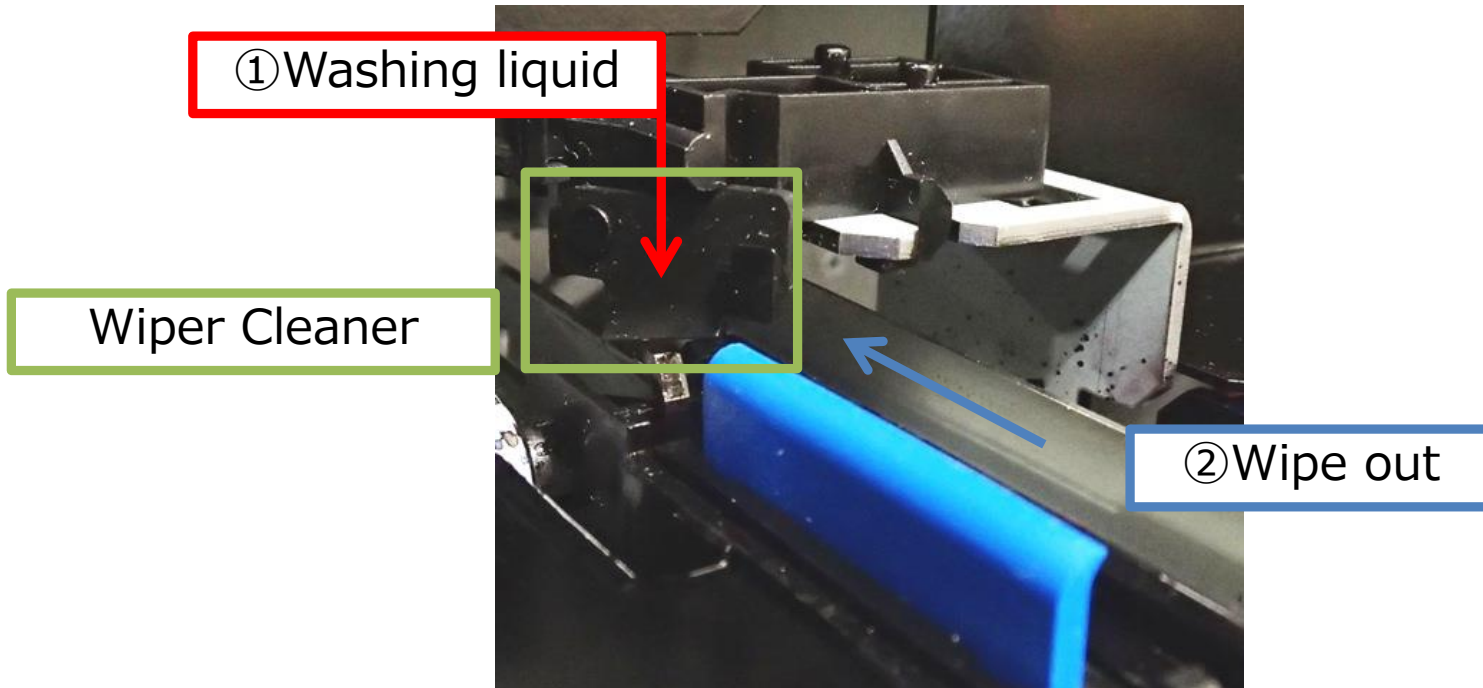
Continuous Operation④ Event Mail Notification

Event Mail Notification

*Various information can be sent from printer to mobile phone by email.
*Printer status can be monitored remotely allowing for unattended printing.

Internet

Print start/complete
Error/Warning

LAN

Mail reception

<Printer>

<PC>

<Mobile phone>

USB

Mimaki®

Continuous Operation⑤ MCT(Mimaki Circulation Technology)

Stable print quality by MCT

By circulating the white ink in the line, the settlement of pigments is prevented. This allows for the stable printing with out nozzle clogging.

Ink lines

Pump

Circulates White inks in its lines

Ink lines

Pump

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

Nozzle width About25.4mm

About 50.8mm

Width About31mm

About 101mm
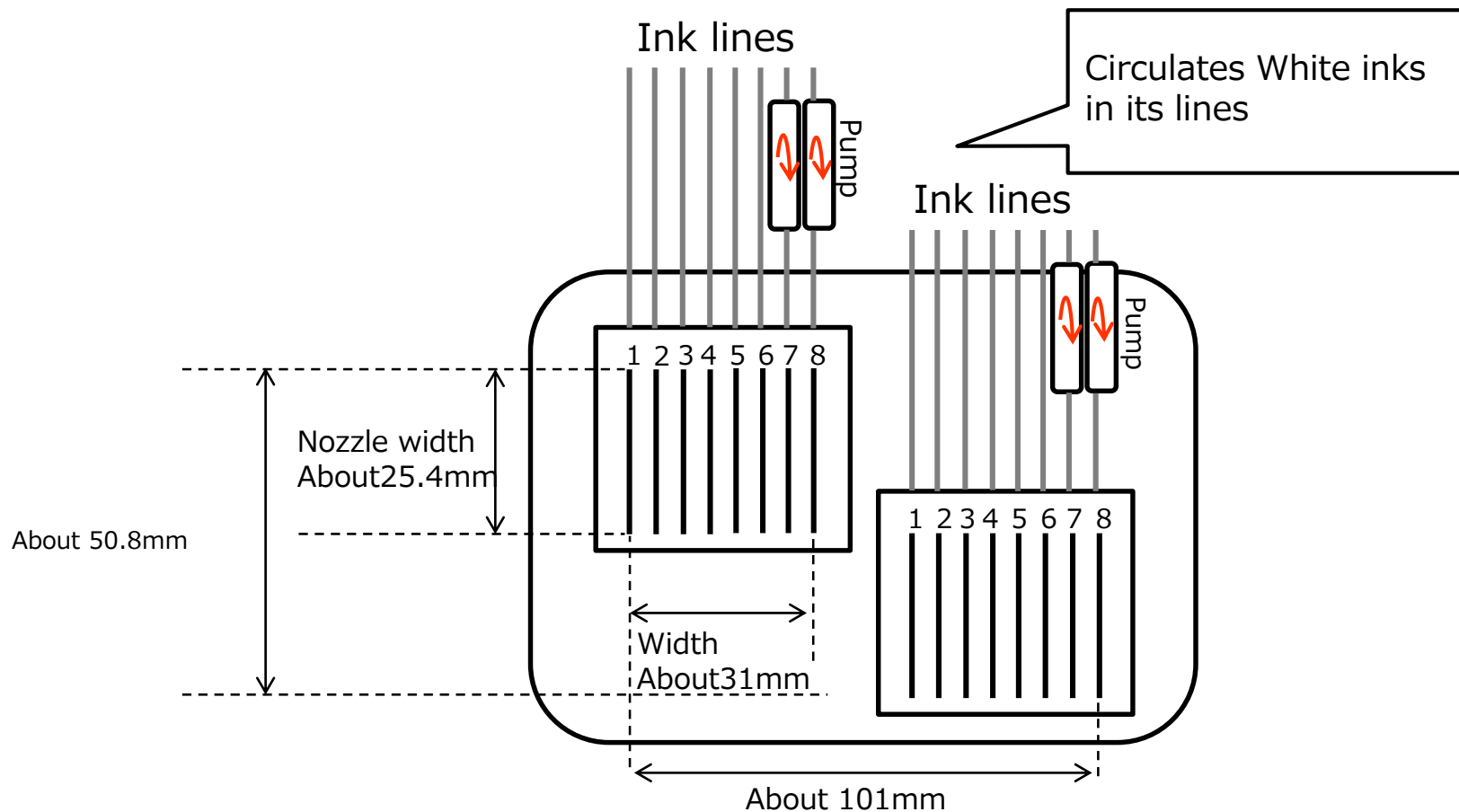
*1 MCT works only when White and inks are used

Mimaki®

Continuous Operation⑥ Ink Supply Systems

● **UISS*(Uninterrupted Ink Supply System)**

In 4C ink-set, when the ink runs out, ink is automatically supplied from the other cartridge for the continuous operation. It avoids stopping due to ink exhaustion.
*When using Sb53 6C ink set, UISS works with M and Bl.
   Not available with 6C+WW and 8C ink sets.
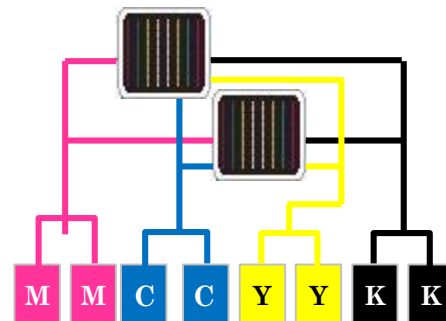
● **Non-Stop Ink replacement**

In 4C ink-set, empty ink cartridge can be replaced with a new one without stopping the on-going print job. No waste of time and media/ink.
*When using Sb53 6C ink set, UISS works with M and Bl.
   Not available with 6C+WW and 8C ink sets.

● **MBIS3(Mimaki Bulk Ink System 3)** *Optional

Large volume of 2L ink packs are set directly on to the ink station, ensuring continuous large print jobs. New MBIS on the printer saves working space, and large 2L ink pack saves running cost.

Continuous Operation⑧ Media feeding and take-up

①Media of up to 40kg can be used
　　The take-up roll unit of JV300 has a strong torque to feed media of 40kg at the maximum.

②Maximum diameter of up to 250mm can be rolled up
　　The height of the take-up roll unit is 17cm, which is high enough to roll up the media of the diameter of up to 250mm.

11.5cm

17cm
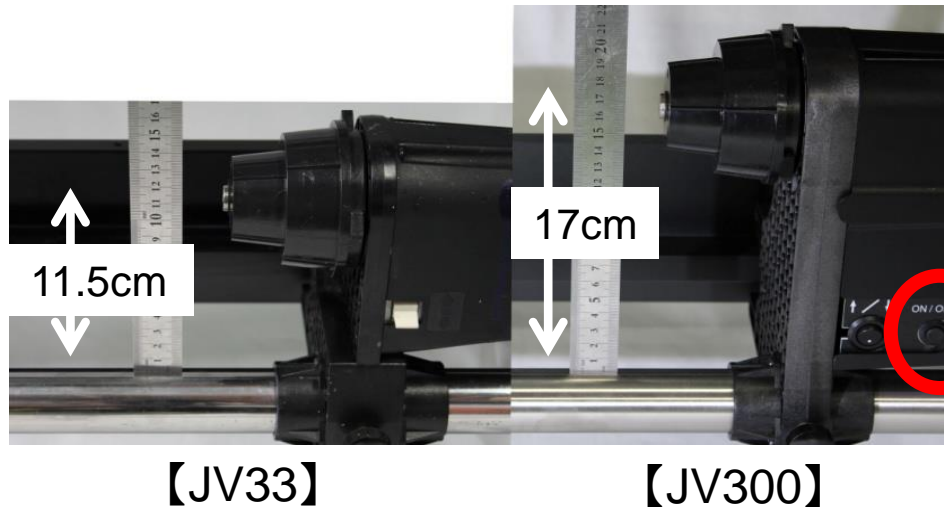
【Take-up roll switch】
By pressing the button, the media is rolled up.

【JV33】　　　　　　　　　　【JV300】

③Prints one roll of media with high feeding accuracy
　　The diameter of the taken-up media is measured by a censor. As the diameter of media becomes bigger, the length to roll up the media becomes shorter. This keeps the tension of the media constant.

Mimaki®

Optimize Work Efficiency① Media setting assists

①Media Stand

Media stands for temporal media placing is available at the back-side or the front-side to support the installation and removal of heavy media.

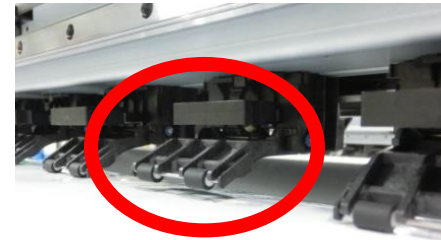Media stand

Back-side
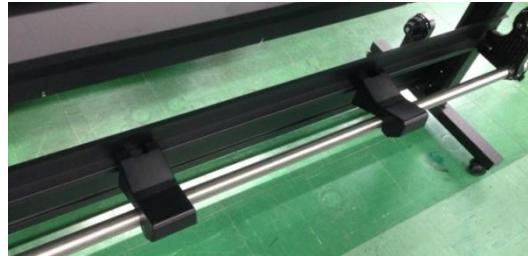
Front-side
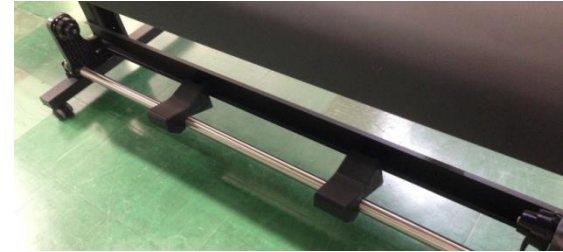
②Independent Pinch Roller

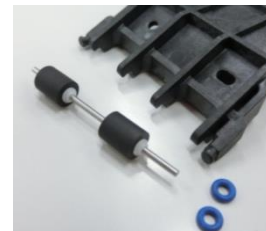Adjust number of pinch rollers to be used depending on characteristics of media.

Push the red area

A pinch roller lifts up

The pinch roller can be disassembled easily by removing small blue rubber band. When the pinch roller become old, it can be replaced easily.
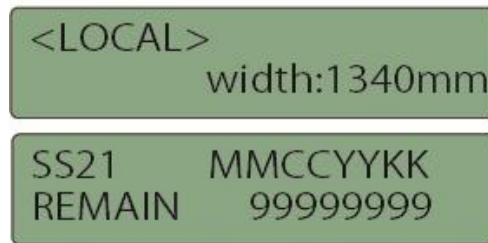
Mimaki®

Optimize Work Efficiency② High Visibility Design

①Color LCD Control Panel
3.45inch(52.56mm x 70.08mm) color panel display for easy setting and operation.

【Conventional printer】　　　　　　　　　【JV300】

<LOCAL>
width:1340mm

SS21　　MMCCYYKK
REMAIN　　99999999

LOCAL
Width:1340mm
PRE　　PRINT　　POST
30° /45°45° /45°30° /---
M M C C Y Y K K
MENU　TEST PRINT / CLEANING　REMOTE

Various information are displayed in a graphical manner, such as media width, heater temperature, remaining ink volume.

②Multi-language display
11 languages are available for convenience.　* Available sequentially
Selectable languages: Japanese/English/German/French/Italian/Spanish/Portuguese
　　　　　　　　　　　　　　Russian/Chinese/Korean/Thai

③Status LED
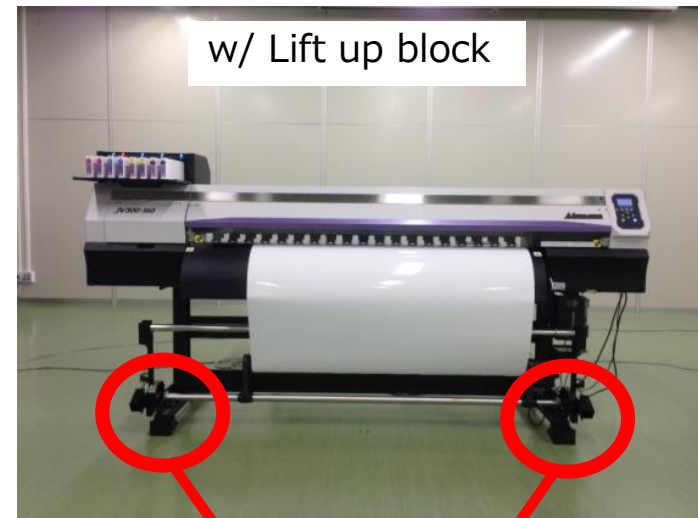LED status lamp tells you the status of the printer, and grasp the status from a remote position.
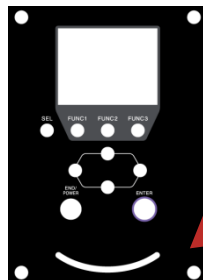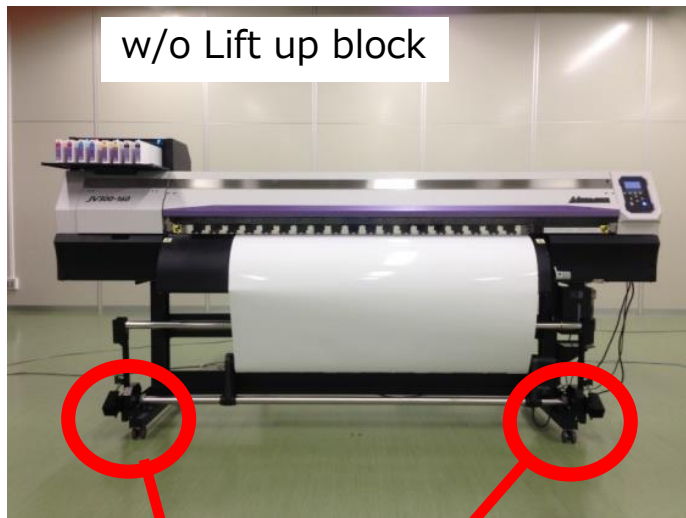
【Status LED】
Blinking in Blue : Normal operation
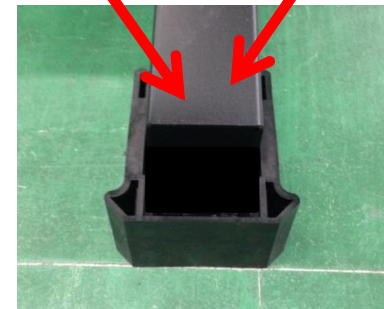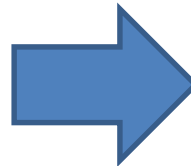Blinking in Red : Error occurred

Reduction of the Wobbling of Printer

【Lift up block】

By attaching the Lift Up Block to the casters of machine, the shaking of the machine while printing is prevented.
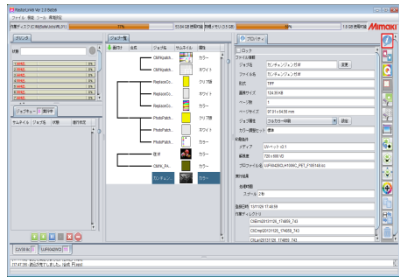
w/o Lift up block

w/ Lift up block

Lift up the printer
and set Lift up block

/Mimaki®

RIP Software - RasterLink6 ①Easy Intuitive Operation

【Intuitive Operation】

❶ The main information is in one screen. The status of printer, the progress of ripping, the status of job can be checked at a glance. Nesting or composition of job are displayed visually.
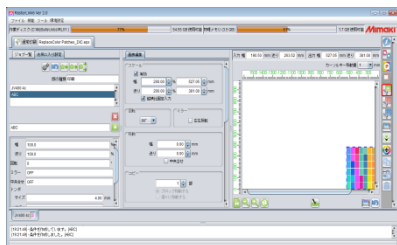
❷ The visual icons on the right side of the screen allows for the easy and quick setting of the print condition.

❸ Frequently used setting can be registered as "My Favorite". Up to 100 settings can be registered.

【New Advanced Functions】

· **Batch printing**
   "Batch best profile when trying to print on media which has never been used before.

· **3-layer printing**
   Simultaneous 3–layer printing is possible (Color → White → Color)

· **Convenient functions**
   Estimated Completion Time display
   Enhanced layout function
   Print Status display

【Web Update function】

The web update is available as well as RasterLinkPro5 which has been well received. The program update and the profile download can be done through the web easily.

Advanced Features ①Multi-color Matching Profile

The Multi-color matching profile (WideMimaki2013forSign) has a wide color reproduction range of orange area.

WideMimakiCMYK

WideMimaki2013forSign
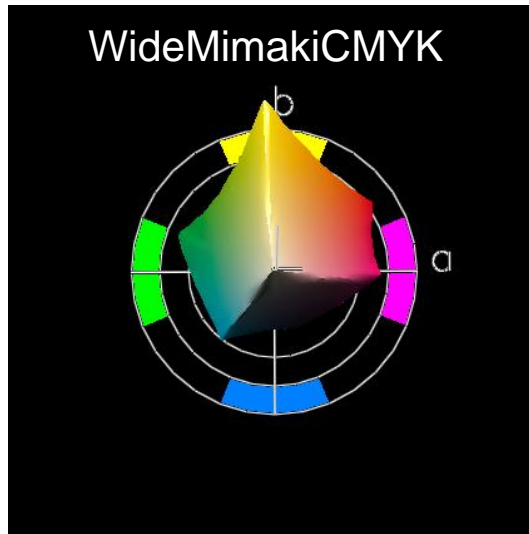
* Gamut viewer : X-Rite ProfileMaker

"WideMimaki2013forSign" is based on the "WideMimakiCMYK" with the enlargement of general color reproduction domain for a wider color reproduction of orange area. It generates brilliant color reproduction with higher intensity.
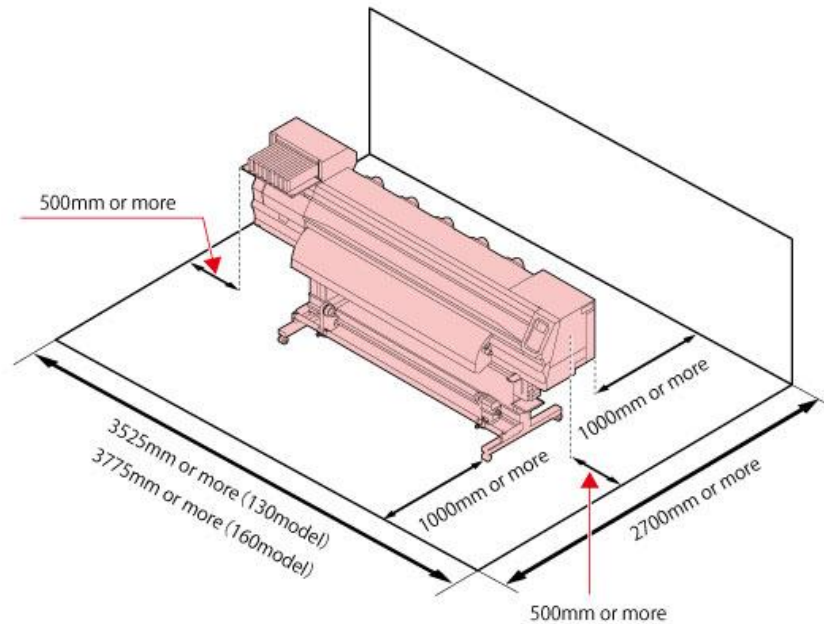
Note) Light colors like skin color or pastel colors will be brighter. It is recommended to confirm the result with test print as color reproduction will differ from "WideMimakiCMYK"

Mimaki®

Packing / Installation

【Packing】

Model	Width	Depth	Height	Weight	Manpower for installation	Per Container
JV300-130	2,662mm	750mm	1,050mm	222.9kg	4 people	20ft:12-unit 40ft:24-unit
JV300-160	2,912mm			238.5kg		

【Installation condition】

500mm or more

3525mm or more (130model)
3775mm or more (160model)

1000mm or more

1000mm or more

2700mm or more

500mm or more

● Remarks
1. Do not install on the weak surface floor.
2. Make sure to use in a ventilated environment.
   - ·Environmental temperature: 20℃-30℃
   - ·Quality assurance temperature: 20℃-25℃
   - ·Humidity: 35-65%Rh (no condensation)
   - ·Temperature gradient: ±10℃/h or less
   - ·Dust: Equivalent to office environment
3. Do not install on carpets, etc because those are easy to be charged, and it can effect the image quality.
4. Ink odor generates. Please use the machine in a well-ventilated environment.
5. Do not install in the place where using a photograph fixer or the place with acid steam like acetic acid, hydrochloric acid.

*Installation space for PC is required separately

Mimaki®

Specifications

	JV300-130	JV300-160
Print head	On-demand piezo head (staggered dual-head)	
Resolution	360 dpi,540 dpi,720 dpi, 1080 dpi, 1440 dpi	
Drop size	Min. 4pl, Max.35pl	
Head height	2.0mm/2.5mm/3.0mm * manual adjustment (+1.0mm or +2.0mm)	
Ink type	Eco solvent ink:SS21/BS3/ES3 Sublimation Ink:Sb53/Sb54	
Ink color	SS21 : 9C(CMYKLcLmLkOrW), ES3(CMYKLcLmW), BS3(CMYK), Sb53(BlMYKDKLBlLm), Sb54(BlMYKLBlLm)	
Ink capacity	SS21:440ml cartridge/2L ink pack (W:220ml cartridge only) ES3:440ml cartridge(W:220ml cartridge only) BS3:600ml ink pack/ 2L ink pack Sb53/Sb54:440ml cartridge/2L ink pack	
Max. printing width	Max.1,361mm	Max.1,610mm
Max. media width	Max.1,371mm	Max.1,620mm
Media thickness	1.0mm or less	
Roll weight	40kg or less	
Outside dimension	2,541mm(W)x707mm(D)x1,392mm(H)	2,793mm(W)x707mm(D)x1,392mm(H)
Packing size	2,662mm(W)x750mm(D)x1,050mm(H)	2,912mm(W)x750mm(D)x1,050mm(H)
Body weight	170.6kg (376lb)	182.4kg
Power supply	Single phase (AC100~120V/220~240V ±10%)×2 50/60H z ±1H z	
Power consumption	(100V) Max 1440W×2 (200V)Max 1920W×2	
Applicable standards	VCCI class A / FCC class A / UL60950-1ETL / CE Marking(EMC, Low Voltage and Machinery) CB report / RoHS / REACH・CCC(pending)・Energy Star / RCM	

Mimaki

FAQ①

#	Questions	Answers
1	Is the NCU same as that of JV5?	No, it isnt. The NCU of JV5 checks nozzles while scanning while the NCU of JV300 does not.
2	How the coverage ratio of PANTON color chart measured?	Comparison of the gamut size.
3	What is the coverage ratio of PATONE color chart when using 4C(CMYK)	93%
4	Can MBIS2 be used for JV300?	Yes it can, but Mimaki officially recommend MBIS3. As MBIS2 cannot be connected with the printer, there is a risk of fall of MBIS2. Please use MBIS3.
5	Can MAPS3 be used for JV33?	No it can't.
6	The resolution of 540x1080 is not available?	No it is not. Because even if the image quality is same as 720x720, the scan speed is slower.
7	How is the outdoor durability of the Orange ink?	Almost same as the Magenta.
8	Is the ink set of CMYKLcLm available?	No. Because the print speed is same as CMYKLcLmLkOr. It can be used in ES3 ink, which doesn't have Or and Lk.
9	Is the ink set of CMYKOrLkWW available?	Yes.
10	Is JV300 compliant with RL5	No it isn't.
11	Does NCU work when using other company's RIP?	Yes, it does.
12	Can ink be changed from BS3 to SS21?	Yes, it can.
13	Can the ink be changed from Sb53 to SS21?	No it cannot.
14	Is JV300 compliant with Ethernet?	No, it isn't. LAN port is for Event Mail Notification.
15	What's the minimum drop size of sublimation ink,Sb53?	At the time of release, the minimum drop size is 8pl. 4pl is under consideration.
16	Can MAPS3 be turned off?	No, it can't.
17	What is the compliant version of RL6?	Ver.3.0 or later

FAQ②

#	Questions	Answers
18	What is the compliant version of driver?	Ver.4.0 or later
19	What is the compliant version of F/W?	Ver.1.3 or later
20	What is the compliant version of MPMⅡ?	Ver.4.00β3 or later
21	[About the optional Tension bar] Why does the feeding of the media become stable not having the tension bar also at the back-side of printer?	It is ideal to have tension bar also at the back-side, but; ・More effective to have the tension bar at the front ・Censor cannot be incorporated for the feeding.
22	Does JV300 has common option s with JV33?	No.
23	How fast does JV300 can print compared to JV33 and TS34.	About 1.7 times faster than JV33. About 1.5 times faster than TS34.
24	Can drop sizes be selected by user?	No. The best combination of the drop sizes are selected by Mimaki HQ for each ink type and each resolution. The combination is fixed, so user cannot customize .
25	How much does the drying of ink improve by using the Top Blower?	Of course the drying of the ink is improved, but the main role of the Top Blower is to control the dot sizes.
26	What is the minimum drop size using BS3? Can 4pl be used for BS3?	The minimum drop size for BS3 is 7pl. For the stable ink ejection, the drop size of 4pl is not used.
27	When one of the print head broken, can print be continued only using the other print head?	Yes. It is available after F/W Ver.1.4.
28	Can ink type be changed?	Yes, it can. The ink set except the type as below can be changed. 1) Ink set including special color 2) Solvent ink ⇔ dye-sub ink
29	What is the height of the JV300 printer with the MBIS attached?	1,845mm
30	Is there a heater "Off hour" function?	Yes. It is available after F/W ver.1.5. The heater will automatically turn off at a certain time when is not in use.
31	Can ES3 White ink which has used in CJV30 or JV33 be used in JV300?	No, it cannot. Please use the 【SPC-0433W-2】.

Mimaki®