Wide Format Inkjet Printer for Textiles & Apparel

Direct Textile Inkjet Printer for Production

Tx300P-1800 Product Guide



To the Ultimate On-demand Production

TA Marketing Group

2017/07/24

Ver1.2

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

Features

Mid-range Direct Textile Printer for High-mix Low-volume Production

■ Hybrid Print Capability (Supports Two Types of Inks)

① Allows to load textile pigment ink and sublimation dye ink (direct sublimation ink) on single printer*1
② Allows direct printing on both cotton and polyester fabrics with single printer*2

■ Selectable from various type of inks depending on customer needs

① Sublimation dye ink : Sb420（4C/6C） For printing on polyester directly without transfer paper
② Disperse dye ink ：Dd400（8C） Excellent light fastness and durability on polyester
③ Textile pigment ink : TP400（4C/7C） Simple process. No steaming, washing and drying processes required
④ Reactive dye ink : Rc400（8C）For digital printing on cotton
⑤ Acid dye ink : Ac400（8C）For direct printing on leather and nylon

■Printing on variety of textile

① Straight ink injection allows high quality print even in high gap setting thanks to new print head*3
② Stable web feeding achieves high quality print thanks to precise tension control system
③ Achieves doubled high productivity as conventional TX2 DS Series
（ 37㎡/h with sublimation ink, 4 colors, standard mode）

■Variety of advanced technologies for unattended, uninterrupted operation

① 2L ink supply by MBIS3 supports continuous unattended printing
② NCU achieves stable continuous printing by maintaining optimum nozzle condition automatically
③ Ethernet connection allows printing on multiple printer from a RIP PC

Effective operation by RIP specialized for textile printing

■Software RIP “TxLink3 Lite” supports digital textile production*4

① Versatile color tools streamline smart color management
② Function that is essential for textile printing, such as Step&Repeat, is supported
③ Supports color profile creation

*1 Sublimation transfer ink is not supported.
*2 Pre-treatment is necessary when direct printing onto polyester fabric.
*3 Recommended head gap is 3mm. The appropriate head gap varies by printing conditions
*4 Please select TxLink3 Lite or RasterLink6 at the time of printer purchase.

System configuration

〈PC〉



USB2.0 (5m is recommended)
Ethernet 1000BASE-T*

Recommended spec
CPU : Core i5 3.5GHz
Memory : 8GB
HDD : 500GB
USB2.0 : 4 ports or more
Network : 1000BASE-T
Optical disk drive : DVD-ROM
Windows8.1 Pro 64bit
Monitor : 1366x768

RIP Software
1. TxLink3 Lite (TL3L)
2. RasterLink6 (RL6)
Selectable from above two

〈Design software〉







PS,EPS,TIFF,BMP,JPEG,PDF, etc
TL3 also supports PNG.

*Please use network cable of category6(CAT6).
Connection by relaying router is not supported.
When using Ethernet, please build-out printer and RIP PC in the same network.
When using switching hub, please use 1000BASE-T supported one.

Tx300P-1800 system

【List price】
Tx300P-1800+TL3L:
Tx300P-1800+RL6:



<RIP>
Select one from the following two software
1. TxLink3 Lite (TL3L) 2. RasterLink6 (RL6)

Loadable Ink type

Sublimation dye (Sb420) :Bl,M,Y,K,Lbl,Lm
Disperse dye (Dd400) :C,M,Y,K,R,Gray,Violet,Pink
Textile pigment (TP400) :C,M,Y,K,Bl,R,Lk
Reactive dye (Rc400) :C,M,Y,K,Bl,R,Or,Lk
Acid dye (Ac400) :C,M,Y,K,Bl,R,Or,Lk

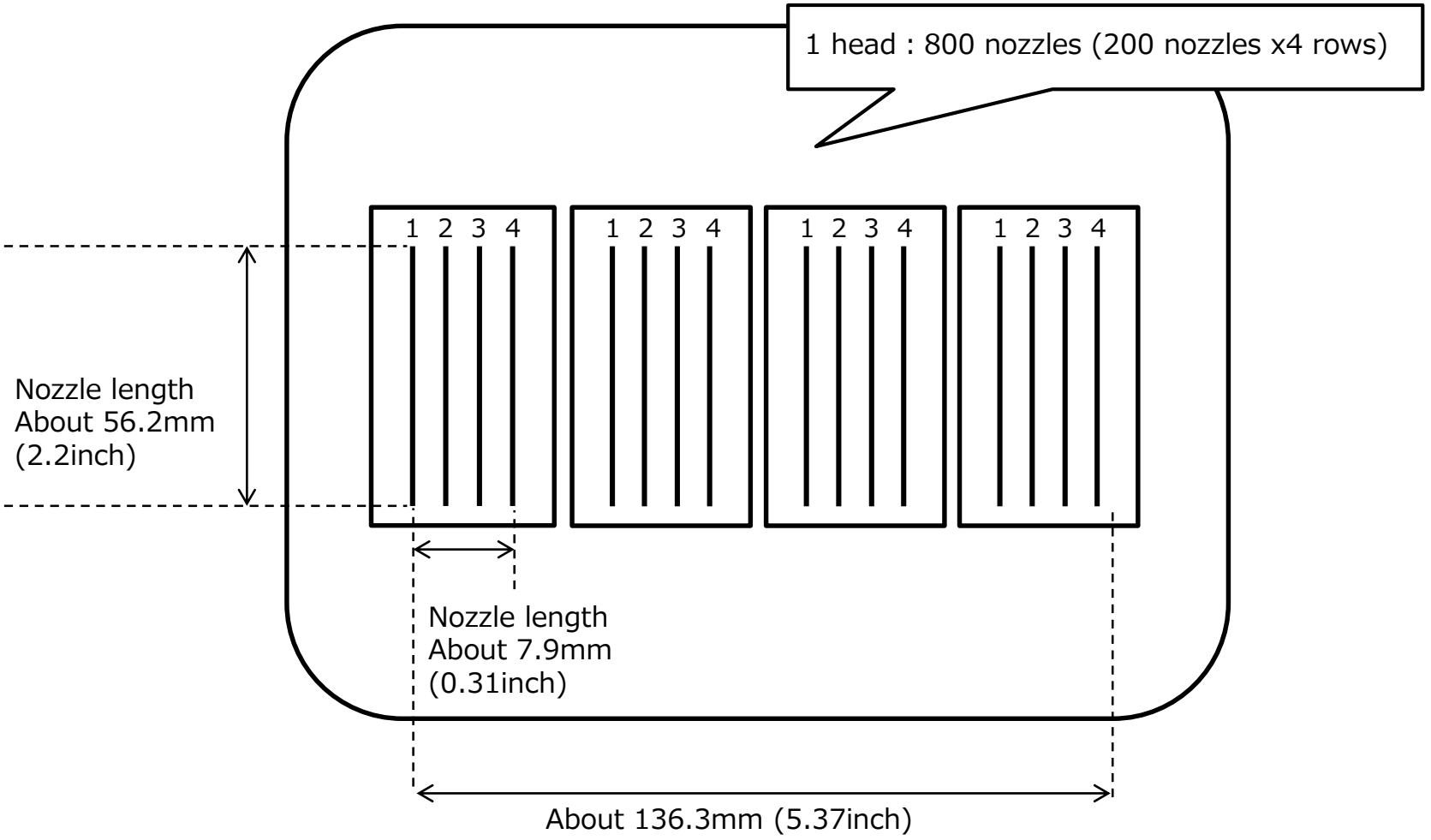
Supply: 2 litter ink pack only

Option

Mist catch unit
Small relay box
1-inch holder unit
Slip sheet holder unit
TxLink3 Professional/Standard

Print head configuration

- **4 print heads are aligned in in-line**



VARIETY OF INKS AVAILABLE TO MEET CUSTOMER NEEDS

- Please select one ink type when installing printer depend on textile

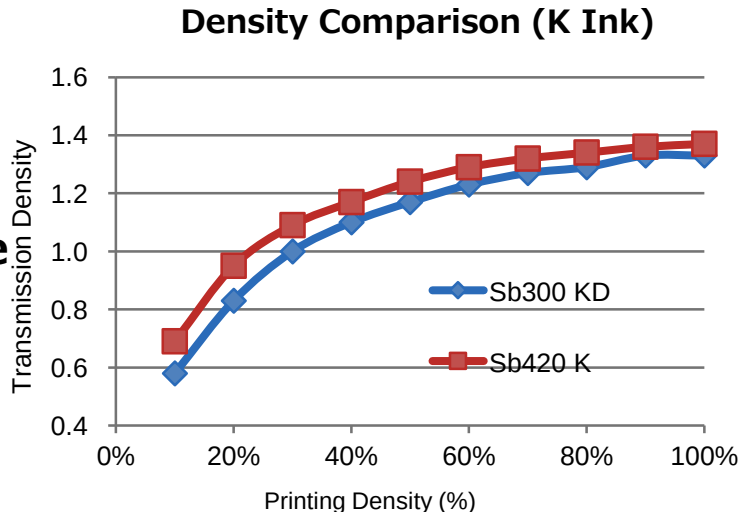
Ink Type	Product Name	Features	Application	Applicable Textile
Sublimation dye ink	Sb420	• Ink for direct printing on textile. No transfer paper is required. • No-transfer-paper process reduces trouble and offers simple operation	Soft signage	Polyester
Disperse dye ink	Dd400	• Dye is dispersed in the water with dispersant • Achieves high fastness performance by applying high temperature after print.	Industrial textile Home furnishing High grade apparel	Polyester Nylon Acetate
Textile pigment ink	TP400	• No steaming, washing and drying processes required. • Simple post printing process because heat fixing only	Home furnishing	Cotton Hemp etc.
Reactive dye ink	Rc400	• Delivers vibrant colors, wide color gamut print. Also achieves high water resistance, light fastness, and abrasion fastness performance because of dyestuff molecule bonding with the fibers.	Apparel Home furnishing	Cotton Hemp Silk Rayon etc.
Acid dye ink	Ac400	• Allows to produce vivid and brilliant colors on animal fibers and synthetic protein fibers such as nylon.	Apparel Home furnishing	Silk Nylon Wool Leather etc.

SUBLIMATION DYE INK: Sb420 FEATURES

Color: Blue/Magenta/Yellow/Black/ Light Blue/Light Magenta

Sb420 features:

- **Higher black density than Sb300**
- **Stable ink ejection and curing performance help reduce unexpected head trouble Delays curing of the ink on the nozzle and help reduce maintenance when not in use**



[Pros] Direct sublimation printing

1. Low running cost because no transfer paper is required
2. No trouble caused by transfer paper
   - Cockling and wrinkles trouble free
3. Simpler operation because of no heat transfer process
4. Ink penetrates into textile and reach to the back sufficiently
5. Cheaper and simpler coloring machine can be used than sublimation transfer. Lower initial investment

[Cons] Direct sublimation printing

1. Pretreatment on textile is required
   - Pretreatment machine or purchase of pretreated textile is necessary
2. Limited types of pretreated fabric in market
   - Standard type only (Pongee, Tropical etc.)
   - Needs own pretreatment facility to support variety of needs
3. Washing process is required after heating for fire protection treatment

SUBLIMATION DYE INK: Sb420 FASTNESS COMPARISON

Sb420 Fastness Test Result (Comparison with Sb300)

Test items	Test Method	Ink		Sb420	Sb300	Sb420	Sb300	Sb420	Sb300	Sb420	Sb300
		Color		DK		M		BL		Y	
Light fastness	JIS L 0842			4	3-4	4-5	4-5	3-4	3-4	6	6
	ISO-105 B02			4		4-5		4-5		6	
Washing	JIS L 0844 A-2	Discoloration		4-5	4	4-5	4-5	4-5	4-5	4-5	4-5
		Pollution	Cotton	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5
			Silk	4	4	4-5	4	4	4-5	4	4-5
Dry Cleaning	JIS L 0860 A-1	Discoloration		5	4	4-5	5	5	4-5	5	5
		Pollution		5	4-5	5	5	4-5	5	5	5
Sweat	JIS L 0848	Discoloration(Acid)		5	4-5	5	5	5	5	5	5
		Pollution (Acid)	Cotton	4	4	4-5	4	4-5	4-5	4-5	4
			Silk	3-4	3-4	4-5	3-4	4	3-4	4-5	4
		Discoloration(Alkaline)		5	4-5	5	5	5	5	5	5
		Pollution (Alkaline)	Cotton	4	4	4-5	4	4-5	4-5	4-5	4
			Silk	3-4	3-4	4-5	3	4	3-4	4-5	4
Water	JIS L 0846	Discoloration		5	4-5	5	5	5	5	5	5
		Pollution	Cotton	4	4	4-5	4	4-5	4	4-5	4
			Silk	3-4	3-4	4-5	3-4	4	3-4	4-5	4
abrasion	JIS L 0849 Ⅱ	Dry		3	4	3	4-5	4	4-5	4	4-5
		Wet		2	2	2-3	3	2-3	3	3	3-4
Sublimation	JIS L 0854	Discoloration		4-5	4-5	4-5	5	4-5	5	4-5	5
		Pollution	Cotton	3	3	3-4	3	4	3	4	3-4
			Polyester	2-3	2	3	2-3	3-4	2-3	3	3
Chlorinated water	JIS L 0854 A	Discoloration		4	4-5	4-5	5	4	4-5	4-5	4-5

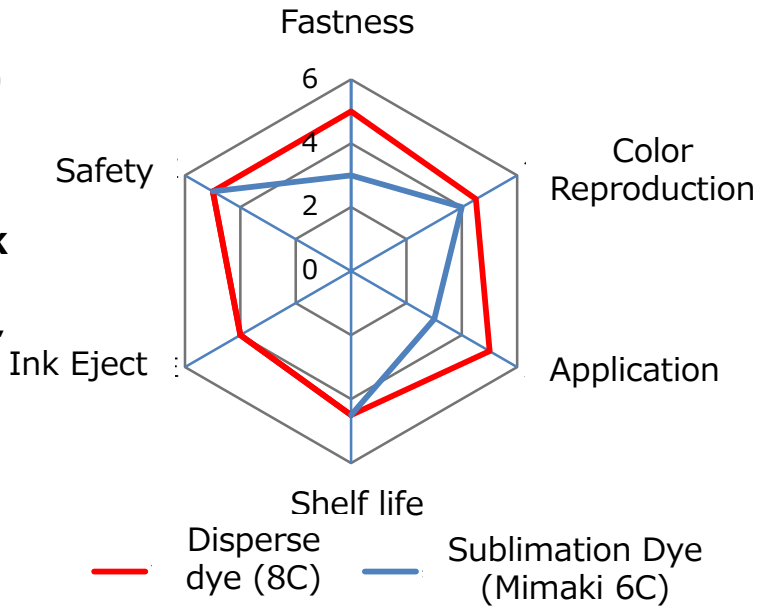
*** The fastness may vary depending on print conditions (ink volume) and textile (material)**
*** The fastness test is recommended before start production based on actual usage.**

DISPERSE DYE INK : Dd400 FEATURES

Color: Cyan/Magenta/Yellow/Black/
Red/Violet/Pink/Gray(Light Black)

Dd400 features

- **Achieves higher fastness performances that can not be obtained by sublimation dye ink (Lightfastness, washing, abrasion and sublimation) Especially, greater than level 5 in light fastness. that cannot be achieved by sublimation dye inl It allows to provide higher value print.**



[Dd400 Comparison with Sublimation Dye Ink]

Sb320/420	Item	Dd400
Fastness could be a issue depend on application Easy to start because of simple process	Features	High fastness performance. Easier to process printed materials Post print process is mandatory. Good for Rc, Ac user
Soft Signage ・Flags ・Banner	Application	Industrial products ・Curtain ・Interior ・High grade apparel
Non contact heating 180℃ 1 min.	Recommended Coloring	HT steaming (High temperature stem) 175℃ 10 min.

※Disperse dye Dd400 can be colored in same conditions as sublimation dye. But the light fastness and abrasion performance would be one grade down under recommended coloring conditions.

DISPERSE DYE INK : Dd400 FASTNESS COMPARISON

Dd400 Fastness Test Result (Comparison with Sublimation Dye Ink)

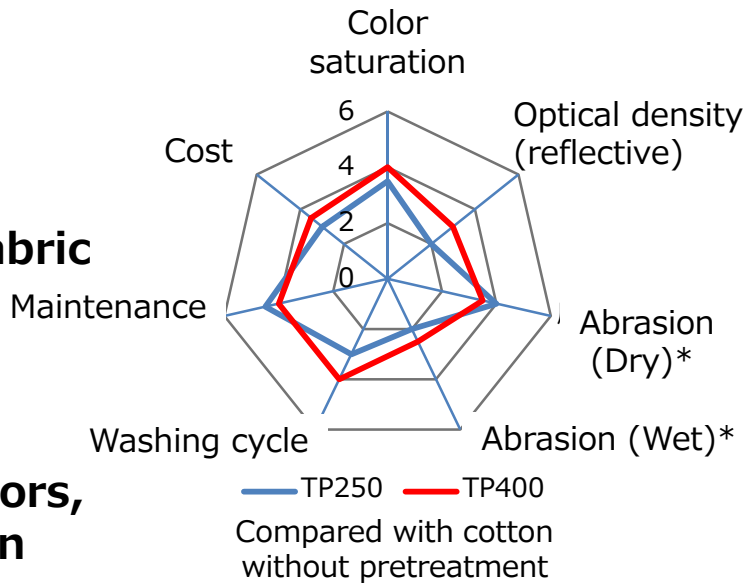
Test items	Test Method	Ink Color		Disperse dye ink **Dd400**				Sublimation dye ink Sb300 (Direct sublimation)			
				Dd400 K	**Dd400 C**	**Dd400 M**	**Dd400 Y**	**Sb300 DK**	**Sb300 C**	**Sb300 M**	**Sb300 Y**
Light fastness	JIS L 0842			5-6	6	5-6	6以上	3-4	3-4	4-5	6
Washing	JIS L 0844 A-2号	Discoloration		5	4-5	4-5	5	4-5	4-5	4-5	4-5
		Pollution	Cotton	4-5	5	5	5	4-5	4-5	4-5	5
			Silk	4-5	5	5	5	4-5	4-5	4-5	4-5
Dry Cleaning	JIS L 0860 A-1法	Discoloration		5	5	5	5	5	4-5	5	5
		Pollution		5	5	5	5	4-5	5	5	5
Sweat	JIS L 0848	Discoloration (Acid)		5	5	5	5	5	5	5	5
		Pollution (Acid)	Cotton	5	5	5	5	4	4-5	4	4
			Silk	4-5	4-5	4-5	5	3	3-4	3-4	4
		Discoloration (Alkaline)		5	5	5	5	5	5	5	5
		Pollution Alkaline)	Cotton	5	5	5	5	4	4-5	4	4
			Silk	4-5	4-5	4-5	5	2	3-4	3	4
Water	JIS L 0846	Discoloration		5	5	5	5	5	5	5	5
		Pollution	Cotton	5	5	5	5	4	4	4	4
			Silk	4-5	4-5	4-5	5	3	3-4	3	4
abrasion	JIS L 0849 Ⅱ形	Dry		5	5	5	5	3-4	4-5	4-5	4-5
		Wet		5	5	4-5	5	2	3	3	3
Sublimation	JIS L 0854	Discoloration		5	5	5	5	5	5	5	5
		Pollution	Cotton	5	5	5	4-5	4-5	3	3	3-4
			Polyester	5	5	5	5	4-5	2-3	2-3	3

Red : One grade or more better than sublimation dye ink Sb300(direct sublimation transfer)

*** The fastness may vary depending on print conditions (ink volume) and textile (material)**
*** The fastness test is recommended before start production based on actual usage.**

TEXTILE PIGMENT INK : TP400 FEATURES

Color: Cyan/Magenta/Yellow/Black
Red/Blue/Light Black



* Fastness (washing, abrasion) can be improved by pretreatment

TP400 Features

- **Achieves high density on non-pretreated fabric**
  [When compared with Mimaki conventional model]
- **Equal or higher color salutation than competitor's inks**
  [4 colors]
- **Delivers higher density when printing 7 colors, 1 layer thanks to double black configuration**
  [When compared with 4 colors, 2 layer printing]

Pros of textile pigment ink:

Ecology: Water washing process is not needed.
No worry of water pollution.
Economy : Pretreatment, post-treatment (steaming, washing, drying) are not required. Low initial investment.
Easy : No need of pretreatment* Post printing process is just heating.
* Pre-treated textile performs better color

[Needs of Pretreatment]

- No treatment: Plant fiber (cotton, hemp etc.)
- Pretreatment mandatory: Animal fiber (silk), chemical fiber(nylon, polyester etc.

TEXTILE PIGMENT INK : TP400

- Machine: Tx300P-1800 TP400(7C)
- Print conditions: 720x720VD/8P/Bi/Hi/2L WF2 18pl, 100% limit off
- Pre treatment: Mimaki pretreated cotton broad for TP, non-treated cotton broad
- Post treatment: Hot press 160℃ 60sec
- Test: Outsourced to Nikken Test Center

TP400 Fastness Test Result (Non-pretreated/Pretreated)

Items	Test Method			Non-treated Fabric							Pretreated Fabric						
				K	C	M	Y	R	BL	LK	K	C	M	Y	R	BL	LK
Light Fastness	ISO-105 B02			6+	6+	6+	6+	6+	6+	6+	6+	6+	6+	6+	6+	6+	6+
Washing	ISO-105 C06 (B1S)		Discoloration	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Pollution	Acetate	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Cotton	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
			Nylon	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Polyester	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acrylic	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Wool	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Dry Cleaning	ISO-105 D01		Discoloration	4-5	4-5	4-5	4-5	4-5	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Pollution	Acetate	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Cotton	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Nylon	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Polyester	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acrylic	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5
			Wool	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Sweat	ISO-105 E04	Acid	Discoloration	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acetate	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Cotton	5	5	5	4-5	4-5	4-5	4-5	5	5	5	4-5	4-5	4-5	4-5
			Nylon	5	5	4-5	5	5	5	5	5	5	4-5	5	5	5	5
			Polyester	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acrylic	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Wool	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Alkaline	Discoloration	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acetate	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Cotton	5	5	5	4-5	4-5	4-5	4-5	5	5	5	4-5	4-5	4-5	4-5
			Nylon	5	5	4-5	5	5	5	5	5	5	4-5	5	5	5	5
			Polyester	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acrylic	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Wool	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Water	ISO-105 E01		Discoloration	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Pollution	Acetate	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Cotton	4-5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	4-5
			Nylon	4-5	4-5	4-5	5	4-5	4-5	4-5	5	4-5	4-5	5	4-5	4-5	4-5
			Polyester	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Acrylic	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			Wool	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Abrasion	ISO-105 X12		Dry	3-4	2-3	2-3	3	2-3	2-3	3-4	4-5	3-4	3-4	4	3-4	3-4	4-5
			Wet	2	2-3	2-3	3-4	2	2-3	3-4	2	2-3	3	3	2	2-3	3

*** The fastness may vary depending on print conditions (ink volume) and textile (material).**
*** The fastness test is recommended before start production based on actual usage.**

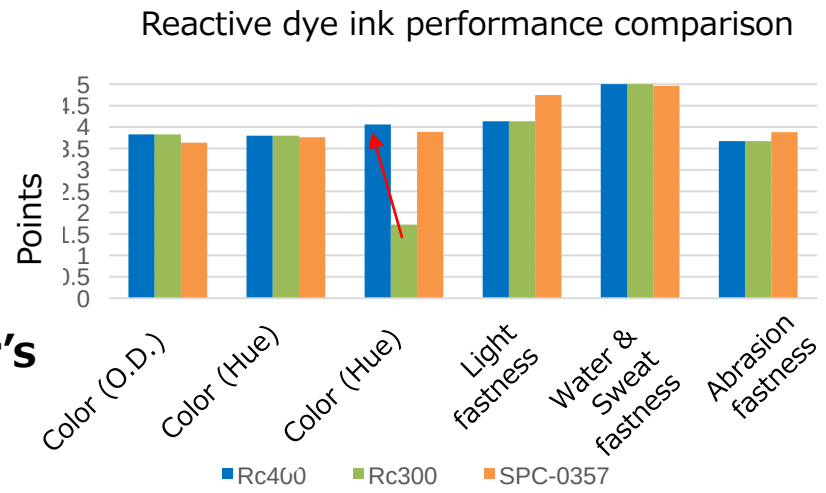
REACTIVE DYE INK : RC400 FEATURES

Color: Cyan/Magenta/Yellow/Black
Blue/Orange/Red/Light black

Rc400 Features

- **Same pretreatment recipe for competitor's ink and Mimaki's conventional ink can be used.**
- **Achieves low cost* with equivalent optical density, fastness of competitor's and Mimaki's conventional inks**

* Except Rc300 2 litter bottle



Rc400 Improvements

・Reduced metamerism (color difference under different light source) on printed textile when using black and light black inks
➔ Equivalent to competitor's ink. ⊿E<3

* Notes on Rc300

・Use external heater when print
・The amount of inks reached to back of the textile would vary depending on pretreatment agent
・Please store reactive dye ink in controlled environment since ink is reactive. (Recommended storage condition is 5 to 35℃)

REACTIVE DYE INK : RC400 FASTNESS COMPARISON

Rc400 Fastness Test Result

		K	C	M	Y	LK	R	BL	OR
Light fastness JIS L 0842		4	4-5	3-4	6	3	4	5	4
Washing	Discoloration	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5
JIS L 0844	Pollution (Cotton)	5	4-5	5	5	5	5	5	5
A-2	Pollution (Silk)	5	5	5	5	5	5	5	5
Sweat (Acid)	Discoloration	5	5	5	5	5	5	5	5
JIS L 0848	Pollution (Cotton)	5	5	5	5	5	5	5	5
	Pollution (Silk)	5	5	5	5	5	5	5	5
Sweat (Alkaline)	Discoloration	5	5	5	5	5	5	5	5
JIS L 0848	Pollution (Cotton)	5	5	5	5	5	5	5	5
	Pollution (Silk)	5	5	5	5	5	5	5	5
Water JIS L 0846	Discoloration	5	5	5	5	5	5	5	5
	Pollution (Cotton)	5	5	5	5	5	5	5	5
	Pollution (Silk)	5	5	5	5	5	5	5	5
Abrasion	Dry	5	4-5	4-5	4-5	5	4-5	5	4-5
JIS L 0849 Ⅱ	Wet	2-3	2-3	2-3	3-4	3-4	2-3	3	2-3
Hot pressing	Discoloration	5	5	5	5	5	5	5	5
JIS L 0850 (Dry)	Pollution	4-5	5	5	5	5	5	5	5
Hot pressing	Pollution	5	5	5	5	5	5	5	5
JIS L 0850 (Moisturized)	Discoloration	4-5	5	5	5	5	5	5	5
Chlorinated Water (20mg/L) ISO-105 E03	Discoloration	4-5	2-3	4	4-5	4-5	4-5	3	4-5
Free formaldehyde JIS L 1041		≦0.05	≦0.05	≦0.05	≦0.05	≦0.05	≦0.05	≦0.05	≦0.05

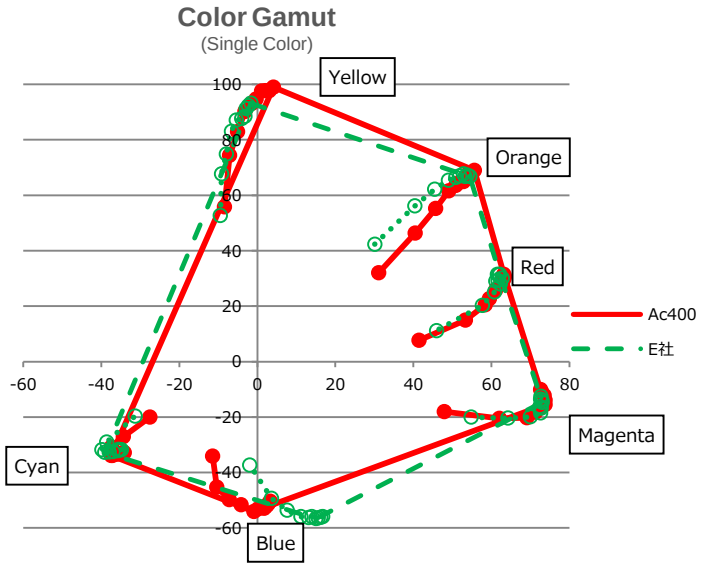
*** The fastness may vary depending on print conditions (ink volume) and textile (material)**
*** The fastness test is recommended before start production based on actual usage.**

ACID DYE INK : AC400 FEATURES

Color: Cyan/Magenta/Yellow/Black
Blue/Orange/Red/Light Black

Ac400 Features:

- Same pretreatment recipe for Mimaki conventional ink and other company's ink can be used
- Achieved competitive cost* while maintaining equivalent density and fastness performance



Print Conditions
①Ac400
Machine : Tx500B Print Mode : 600×900ND
②Competitor's Ink (E Company)
Machine : Tx2 Print Mode : 720×720ND
Pre/Post Treatment
Fabric: Silk
Pretreatment : EU
Post treatment : 104.4℃, 12min (Steam chamber)

Notes for Ac400 Post Treatment

・Fastness can be improved by fixing agent in post treatment process

Water color fastness comparison with/without a use of fixing agent

Without fixing agent



With fixing agent



・In general, acid dye tends to be weak in wet fastness (water, sweat, washing etc.).
The color fixing treatment will help improve color fastness performance.
・The fixing treatment must be applied after removing unused dyes sufficiently by soaping.
・Please perform pre-test to check the discoloration or pollution in advance

Media : Silk
Post treatment : Continuous steaming, 95℃、30 min., Steam amount 0.2kg/cm3
Fixing agent : Senkafix E-300 (Senka Corp.)
Fixing treatment : Treat 20 min at approx. 60℃ while stirring.
(Use 2% water solution of 20 times weight ratio to fabric weight)

ACID DYE INK : AC400 FASTNESS

Ac400 Fastness Test Result (Silk/Fixing Treatment)

Test Method			Black		Cyan		Magenta		Yellow		Light Black		Red		Blue		Orange	
			Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社
Light Fastness ISO-105B02			6+	6	3	Less than 3	3-4	Less than 3	6	5-6	5-6	5-6	3-4	3-4	3-4	4-5	4-5	3
Washing ISO-105 C06	Discoloration		4-5	4-5	4-5	3	4-5	4	4-5	4-5	4-5	4-5	4	4-5	4-5	4	4-5	4-5
	Pollution	Acetate	4-5	5	4-5	4-5	5	5	4-5	5	5	4-5	5	5	4-5	5	5	5
		Cotton	4-5	5	4	3	4-5	4-5	5	5	5	4-5	5	5	4-5	4-5	5	5
		Nylon	4	4-5	4-5	5	5	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5
		Polyester	4-5	5	4-5	5	5	5	4-5	5	4-5	5	4-5	5	4-5	5	5	5
		Acrylic	4-5	4-5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	5	4-5	5	4-5	5	4-5	5	5	5	5	5	4-5	4-5	5	5
Dry Cleaning ISO-105 D01	Discoloration		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Pollution	Acetate	4-5	5	4-5	5	4-5	5	5	5	5	5	5	5	5	5	5	5
		Cotton	5	5	4-5	5	5	5	5	5	5	5	4-5	5	5	5	5	5
		Nylon	5	5	4-5	5	4-5	5	5	5	4-5	5	5	5	5	5	5	5
		Polyester	5	5	4-5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Acrylic	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5
Sweat (Acid) ISO 105 E04	Discoloration		5	5	5	4-5	5	4-5	5	5	5	5	5	4-5	5	4-5	5	5
	Pollution	Acetate	4-5	5	4-5	5	4-5	4-5	4-5	5	5	5	4-5	4-5	4-5	5	5	5
		Cotton	4-5	5	4-5	5	4-5	3-4	5	5	5	5	4-5	4-5	4-5	4-5	4-5	5
		Nylon	4-5	4-5	4-5	5	3	2	4-5	4-5	5	5	3	3-4	4	3-4	4	5
		Polyester	5	4-5	4-5	5	4	3-4	5	5	5	5	4-5	4-5	5	4-5	5	5
		Acrylic	5	5	4-5	5	4-5	3-4	4-5	5	5	5	4-5	4-5	4-5	4-5	4-5	5
		Wool	4-5	5	4-5	5	4	2-3	4-5	5	5	5	4-5	4-5	4-5	4-5	5	5
Sweat (Alkaline) ISO 105 E04	Discoloration		5	5	5	4	5	4-5	5	5	5	5	5	4-5	5	4-5	5	5
	Pollution	Acetate	4-5	5	4-5	5	4-5	4-5	4-5	5	5	5	4-5	4-5	4-5	4-5	4-5	5
		Cotton	4-5	5	4	5	4	3-4	4-5	5	5	5	4	4	4-5	4	4-5	5
		Nylon	4-5	4-5	4-5	5	3	2	4-5	4-5	5	5	2-3	3	4	3	4	5
		Polyester	5	4-5	4-5	5	4	3-4	5	5	5	5	4	4	5	4	4-5	5
		Acrylic	5	5	4-5	5	4	3-4	4-5	5	5	5	3-4	3-4	4-5	4	4	5
		Wool	4-5	5	4-5	5	3-4	2-3	4-5	5	5	5	4	4-5	4-5	4	4-5	5
Water ISO 105 E01	Discoloration		5	5	5	5	5	4-5	5	5	5	5	5	4-5	5	4-5	5	5
	Pollution	Acetate	4-5	5	4-5	5	4-5	4-5	4-5	5	5	5	4-5	4-5	4-5	4-5	5	5
		Cotton	4-5	5	5	5	4	4	4-5	5	4-5	4-5	4-5	4-5	4-5	4	4-5	5
		Nylon	4-5	4-5	5	5	2-3	2	4-5	5	5	4-5	3	3-4	4	2-3	4-5	5
		Polyester	5	4-5	4-5	5	4-5	3	5	5	5	5	4-5	4-5	5	4	5	5
		Acrylic	5	5	4-5	5	4-5	3-4	4-5	5	5	5	4-5	4-5	4-5	4-5	4-5	5
		Wool	4-5	5	4-5	5	3-4	2-3	4-5	5	5	5	4-5	4-5	4-5	3	5	5
Abrasion ISO-105 X12	Dry		3-4	4-5	4-5	5	4	4	4	4-5	4-5	4-5	4	4	4	5	4	4-5
	Wet		4-5	4-5	4-5	4-5	4	4	4-5	4-5	4-5	4-5	4-5	4	4	5	4-5	4-5
Free formaldehyde (Acetylacetone method) JIS L 1041			Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05

Test Conditions
Machine : Tx500B
Print Mode: 600×900ND
Media* Silk

Pre treatment : EU
Post treatment : 104.4℃, 12min
Stem chamber
Fixing treatment: Yes
Used fixing agent : BIAFIX ECO
(Available in EU market)
Fixing condition: 2.5 water solution,
40℃, 20min

Outsourced to Kaken Test Center

*** The fastness may vary depending on print conditions (ink volume) and textile (material)**
*** The fastness test is recommended before start production based on actual usage.**

ACID DYE INK : AC400 FASTNESS

Ac400 Fastness Test Result (Nylon/Fixing Treatment)

Test method			Black			Cyan			Magenta			Yellow			Light Black		Red		Blue		Orange	
			Ac400	E社	D社	Ac400	E社	D社	Ac400	E社	D社	Ac400	E社	D社	Ac400	E社	Ac400	E社	Ac400	E社	Ac400	E社
Light Fastness ISO-105B02			6	5-6	5-6	Less than 3	Less than 3	Less than 3	3	3	Less than 3	4-5	3-4	4-5	5-6	4	4-5	4	3-4	4-5	4-5	Less than 3
Washing ISO-105 C06	Discoloration		4-5	4-5	4-5	4-5	3	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	Pollution	Acetate	4-5	5	5	4-5	4-5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Cotton	4-5	5	5	4	4-5	5	5	5	4-5	5	5	5	4-5	4-5	5	5	5	4-5	5	5
		Nylon	2	3	4	4-5	5	4-5	5	5	5	5	5	5	4	4-5	4-5	4	4-5	4	4-5	4-5
		Polyester	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	5	5	4-5	4-5	5	5
		Acrylic	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	4-5	5	5	5	5	5	5	5	5	5	5	4-5	5	5	5	4-5	5	5	5
Dry Cleaning ISO-105 D01	Discoloration		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Pollution	Acetate	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Cotton	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	4-5	5	5	5
		Nylon	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	4-5	5	5	5	5	5
		Polyester	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Acrylic	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Sweat (Acid) ISO 105 E04	Discoloration		5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Pollution	Acetate	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Cotton	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5
		Nylon	4-5	5	4-5	4-5	5	5	5	4-5	5	4-5	5	5	4-5	5	4-5	4-5	5	4	4-5	4-5
		Polyester	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	4-5	5	5
		Acrylic	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	4-5	5	5
Sweat (Alkaline) ISO 105 E04	Discoloration		5	5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Pollution	Acetate	4-5	5	5	4-5	5	5	4-5	4-5	5	4-5	5	5	4-5	5	5	5	5	4-5	4-5	5
		Cotton	4-5	5	5	3-4	5	5	5	4-5	5	5	5	5	5	4-5	4-5	5	5	4-5	4-5	5
		Nylon	3-4	4-5	5	4-5	5	5	4-5	3-4	5	4-5	5	5	4-5	5	3-4	4	4-5	3	4	4-5
		Polyester	4-5	5	5	4-5	5	5	5	4-5	5	5	5	5	5	5	5	5	5	4-5	5	5
		Acrylic	4-5	5	5	4-5	5	5	5	4-5	5	4-5	5	5	5	5	4-5	5	5	4-5	4-5	5
		Wool	4-5	5	5	5	5	5	5	3-4	5	4-5	5	5	5	5	4-5	5	5	4	4-5	5
Water ISO 105 E01	Discoloration		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Pollution	Acetate	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Cotton	4-5	5	5	5	5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5
		Nylon	4-5	5	5	4-5	5	5	5	5	5	4-5	5	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5
		Polyester	4-5	5	5	4-5	5	5	5	5	5	5	5	5	4-5	5	5	5	5	5	5	5
		Acrylic	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Wool	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Abrasion ISO-105 X12	Dry		3-4	5	4-5	3-4	5	5	4	5	5	4	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5
	Wet		4-5	4-5	4-5	3-4	5	5	4-5	4-5	5	4	4-5	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	4-5
Free formaldehyde (Acetylacetone method) JIS L 1041			Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05	Less than 0.05

Test Conditions
machine : Tx500B
Print Mode: 600×900ND
Media : Nylon (For flags)

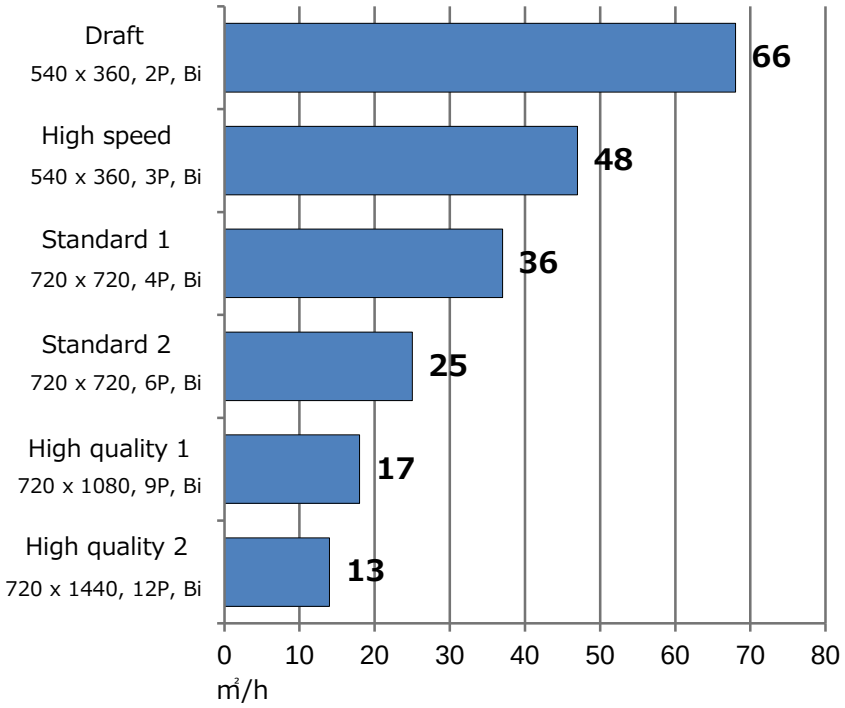
Pre treatment : US
Post treatment理 : 104.4℃, 30min, Steam chamber
Fixing treatment : Yes
Used fixing agent : BIAFIX PA/R (Available in EU market)

Fixing conditions :
0.4% water solution, 1.6% acetic acid,
50~60℃, 20min
Outsourced to Kaken Test Center

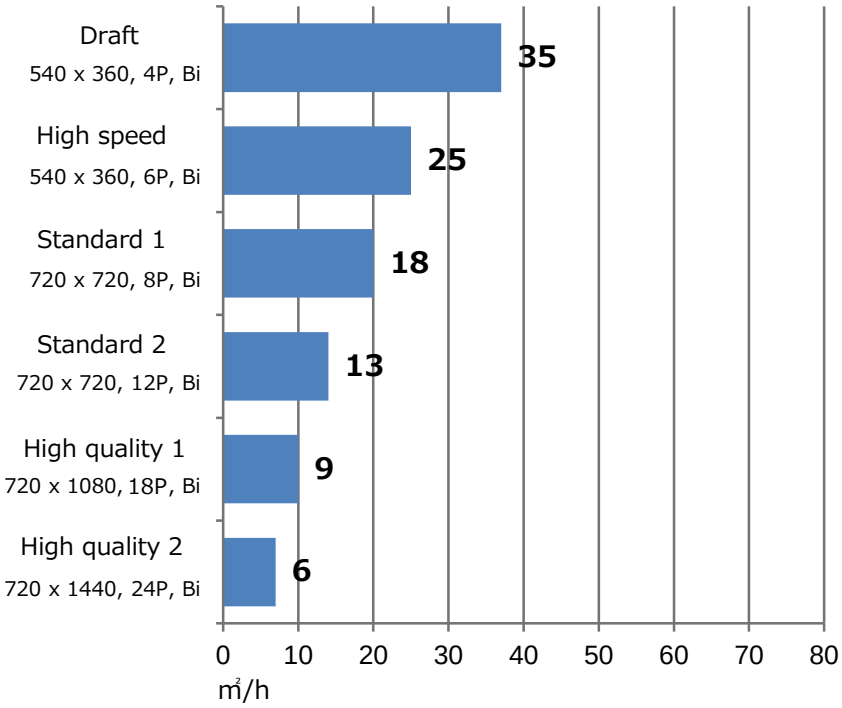
*** The fastness may vary depending on print conditions (ink volume) and textile (material)**
*** The fastness test is recommended before start production based on actual usage.**

PRINT SPEED

4 Colors Ink Set



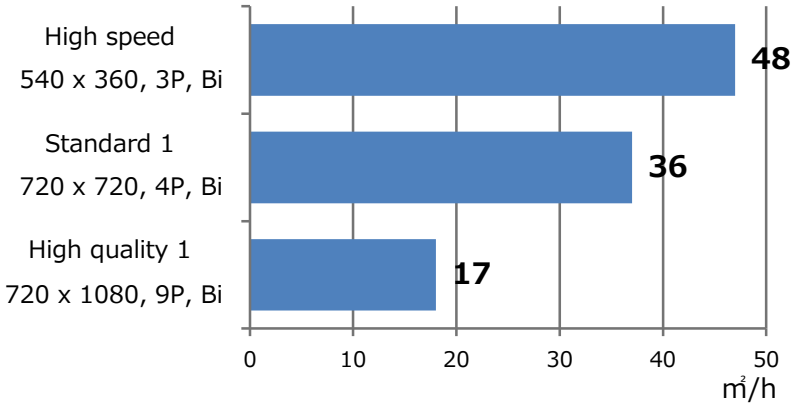
6/7 Colors Ink Set



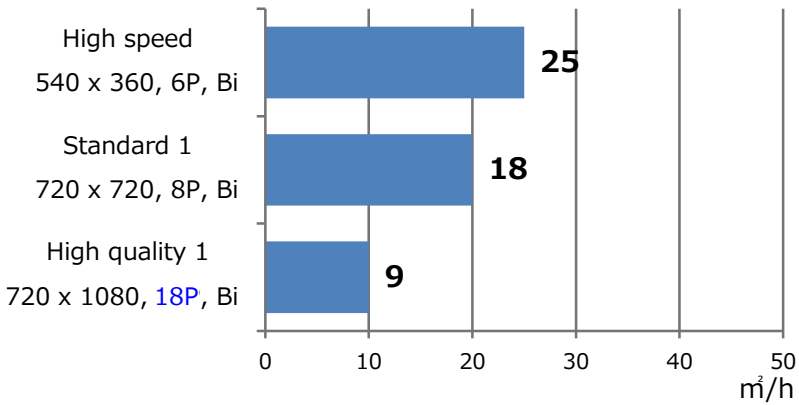
- Print speed tested with TX300P-1800.
- Above speed may not be achieved since print condition varies depending on ink type.
- The print mode mentioned in above is determined by machine.
  The profile was made after selecting suitable print mode per media.
  Therefore Mikaki's profile may not exist in some media.
- Please make profile with the use of TxLink3 or MPM Ⅱ if Mimaki's profile does not exist.

Print Speed (Sublimation Dye Ink Sb420)

4 Colors



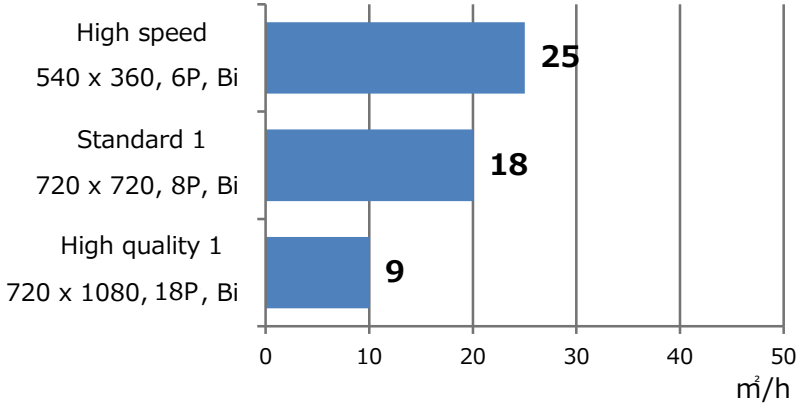
6 Colors



* Sublimation dye ink Sb420 is selectable from 4 colors, 6 colors ink sets
* Ink sets: 4 colors (Bl/M/Y/K), 6 colors (Bl/M/Y/K/Lbl/Lm)

Print Speed (Disperse dye ink Dd400)

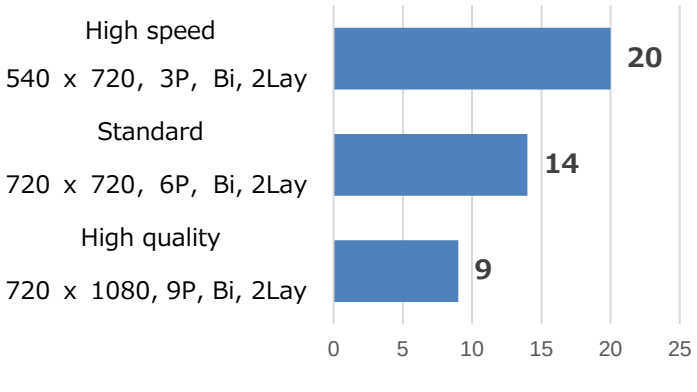
8 Colors



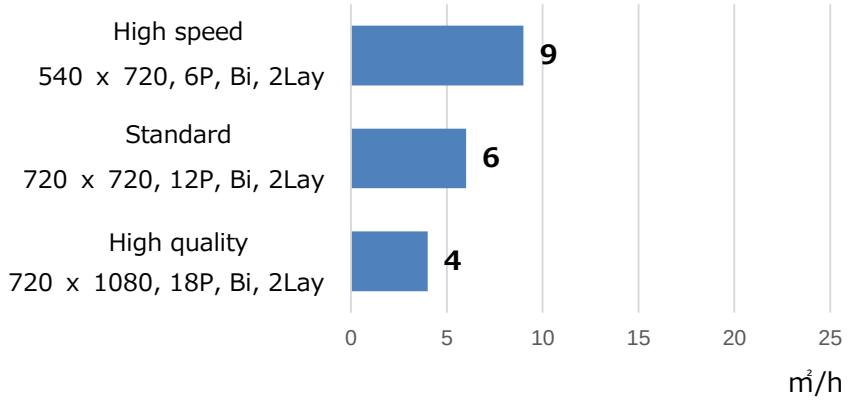
* 8 colors ink set available only for disperse dye ink
* 4 colors ink cannot be used in the printer
* 8 colors (C/M/Y/K/Pi/Vi/Bl/Gr)
* Gr(gray) is equivalent to light black

Print Speed （Textile Pigment Ink TP400）

4 Colors



7 Colors



* Textile pigment ink is selectable from 4 colors and 7 colors ink sets
* Standard setting for TP400 (**4 colors ink sets**) is two layer (two pass) mode
* Standard setting for TP400 (**7 colors ink sets**) is one layer (one pass) mode
  (Above speeds for 7 colors are based on 2 layer printing)
  (Speed for 1 later is equal to 4 color ink sets printing)
* Enough print density may not be obtained with 4 color ink set, one layer (one pass) printing

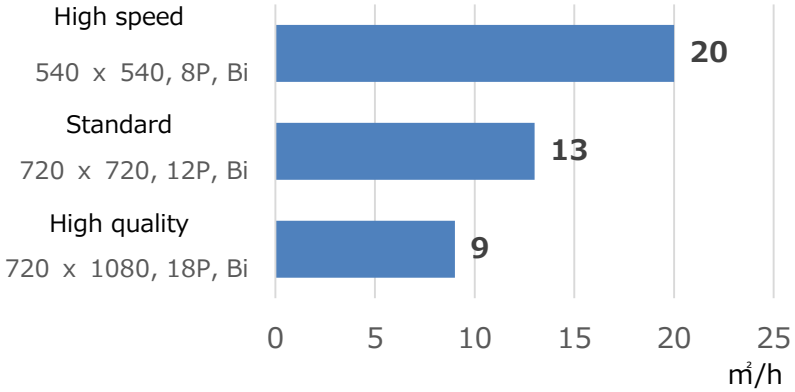
[Notes on TP400]

- Please use washing liquid No.12 specially designed for TP400
- Washing liquid No.3 can be used for printer.
  However the effectiveness may be lower.

■ For daily maintenance : Washing liquid No.12 maintenance kit（ML012-Z-K1）
■ For printer slot : Washing liquid No.12 220 ml cartridge（ML012-Z-22）

Print Speed (Reactive Dye Ink Rc400)

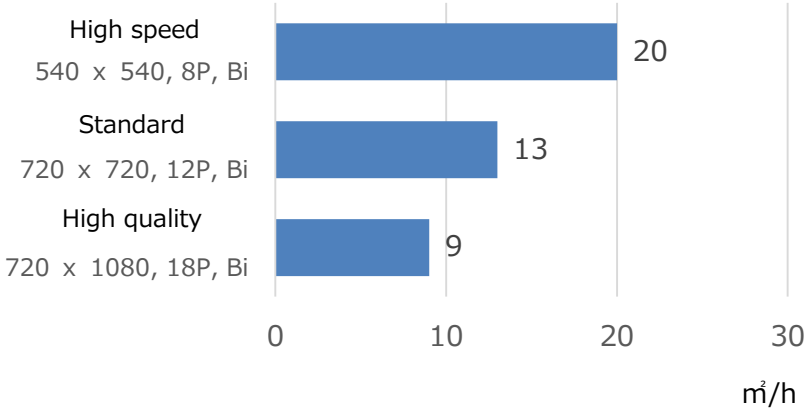
8 Colors



- 8 colors ink set only available for reactive dye ink
- 4 colors ink cannot be used in the printer

Print Speed (Acid Dye Ink Ac400)

8 Colors

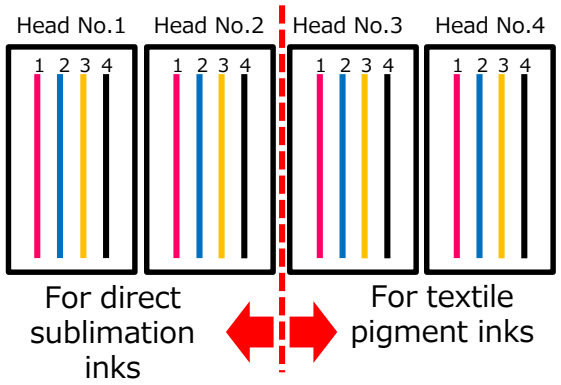


- 8 colors ink set only available for acid dye ink
- 4 colors ink cannot be used in the printer

Hybrid Ink System

- Allows to load two types of inks on single printer
  ⇒ Textile pigment ink and sublimation dye ink (direct sublimation ink) are loadable simultaneously (Sublimation transfer ink can not be used)
- Allows direct printing on both cotton and polyester fabrics with single printer
  ⇒ Pre treatment to fabric is required when printing on polyester with sublimation dye ink
  ⇒ These inks require coloring process by heat after print (Washing process may be required depending on applications.)

【Head Configuration】



【Ink Set】



- Load two types of inks
- 4 color ink set only

《How to Print》

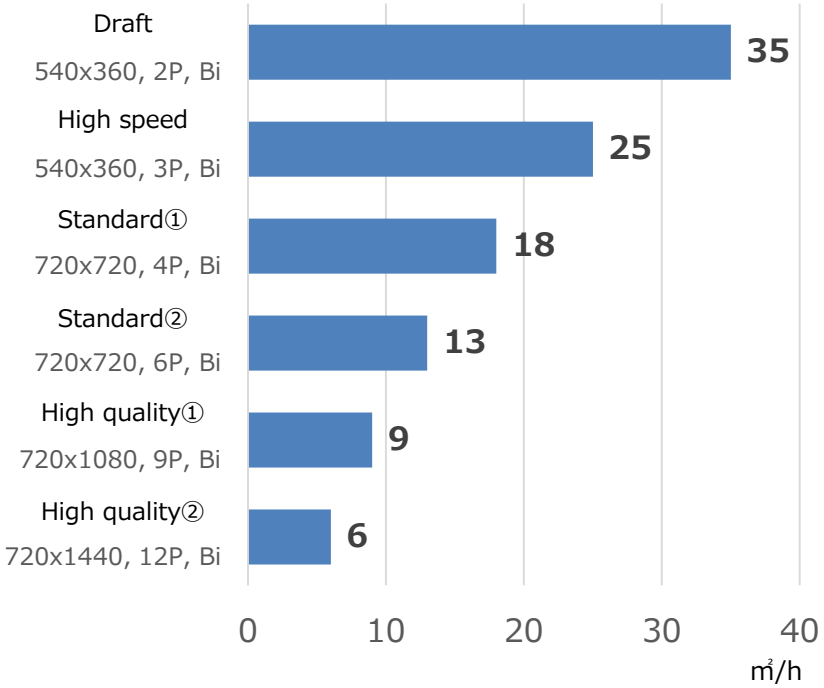
Supported RIP Software : RasterLink6, TxLink3 Lite

① Set two printers, textile pigment machine and direct sublimation machine
② Load print data with printer selection that you want to print
③ Edit and execute printing

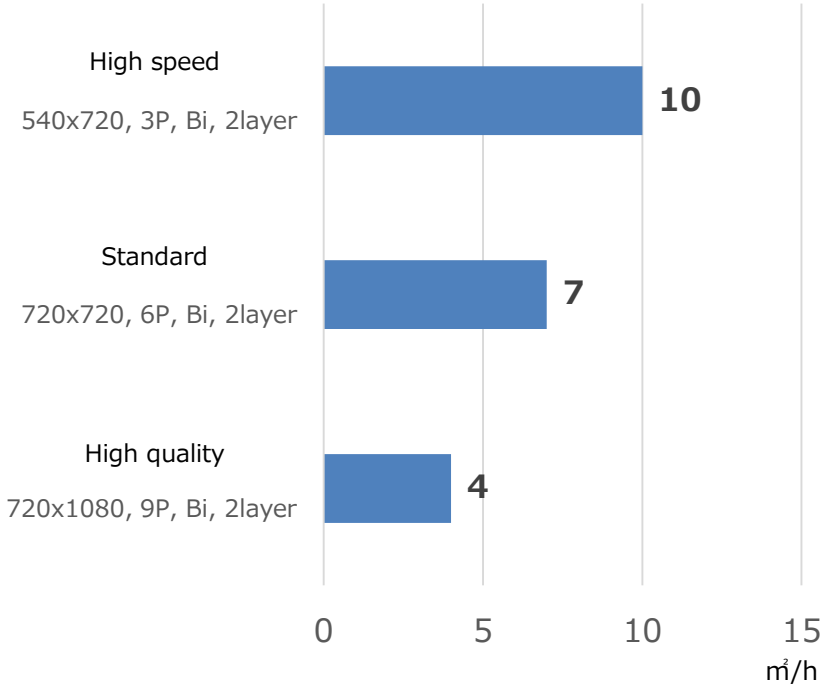
※Profile for hybrid printing is downloadable from Mimaki website

Hybrid Print Speed

Hybrid Sb 4 Color Ink-set



Hybrid TP 4 Color Ink-set



- Even when sublimation ink and pigment ink are used as hybrids, the precautions are the same as for normal 4 color machines.
- Because the number of each color mounted heads of each ink decreases, the speed becomes slower than the usual 4 color machine.
- When compared with the usual four-color machine, the color tint slightly differs as the number of mounted heads decreases.

Hybrid RIP Setting

①In the case of RasterLink6

In RasterLink6, both Pigment Ink 400 and Sublimation Ink 420 are set. Tx300P-1800 is expressed as Tx300P-Hybrid.
In order to use the Tx300P Hybrid function, please register the printer for each ink set as follows

#	Model	Ink-set
①	TX300P-Hybrid	Pigment Ink 400
②	TX300P-Hybrid	Sublimation Transfer Ink 420

※ Please use "For Hybrid" profile

※ Ink set name to the attributes of the job list is displayed

[Printer registration procedure of Tx300 P-Hybrid]
(1) Select the model name "Tx300 P-Hybrid" in the printer setting dialog
(2) Select output port
(3) Ink set "sublimation transfer ink 420 BMYK" is selected
(4) Enter the printer name and click [OK]
※Register the pigment Ink 400 in the same way
(5) Open the printer setting dialog again and select the model name "Tx300P-Hybrid"
(6) Select output port
(7) Ink set "Pigment ink 400 CMYK" is selected
(8) Enter the printer name and click [OK]

②In the case of TxLink3

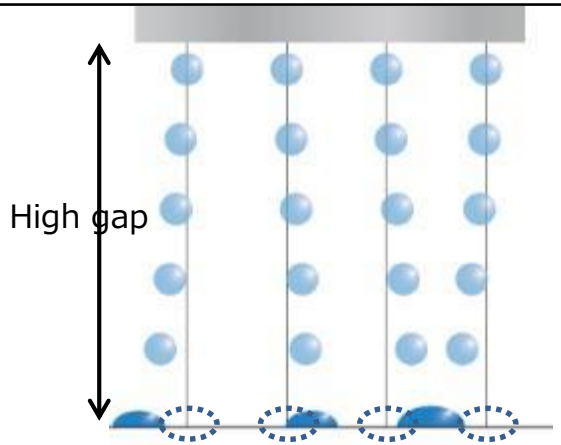
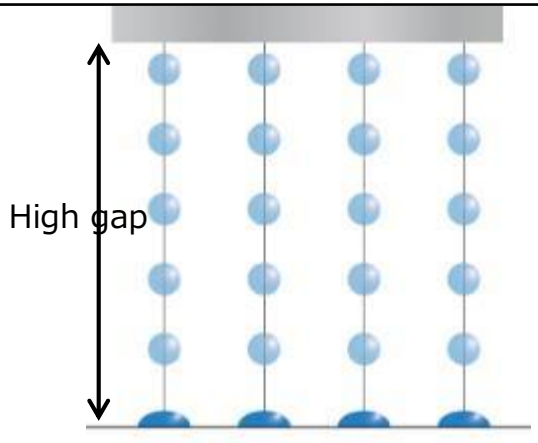
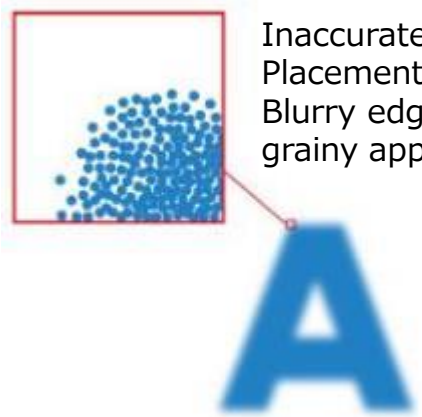
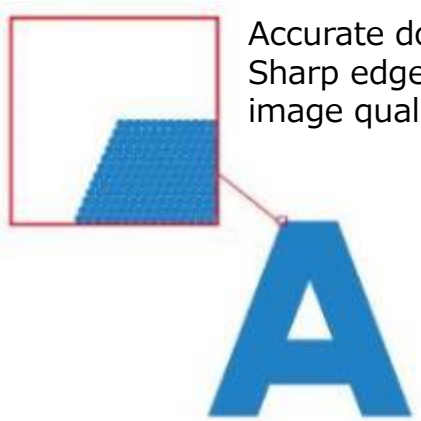
Please create a printer environment file of "Tx300P-1800 Hybrid" to use the Tx300P Hybrid function.
(The created printer environment file is posted on the official Mimaki website)

[Ink Set Switching Procedure]
(1) Open [Tool] - [Print Environment]
(2) Select [Device option] on the print setting screen
(3) Switch ink type to be printed with [Ink Type]
(4) After switching, please close the print setting screen once and then change the setting of resolution, pass etc.



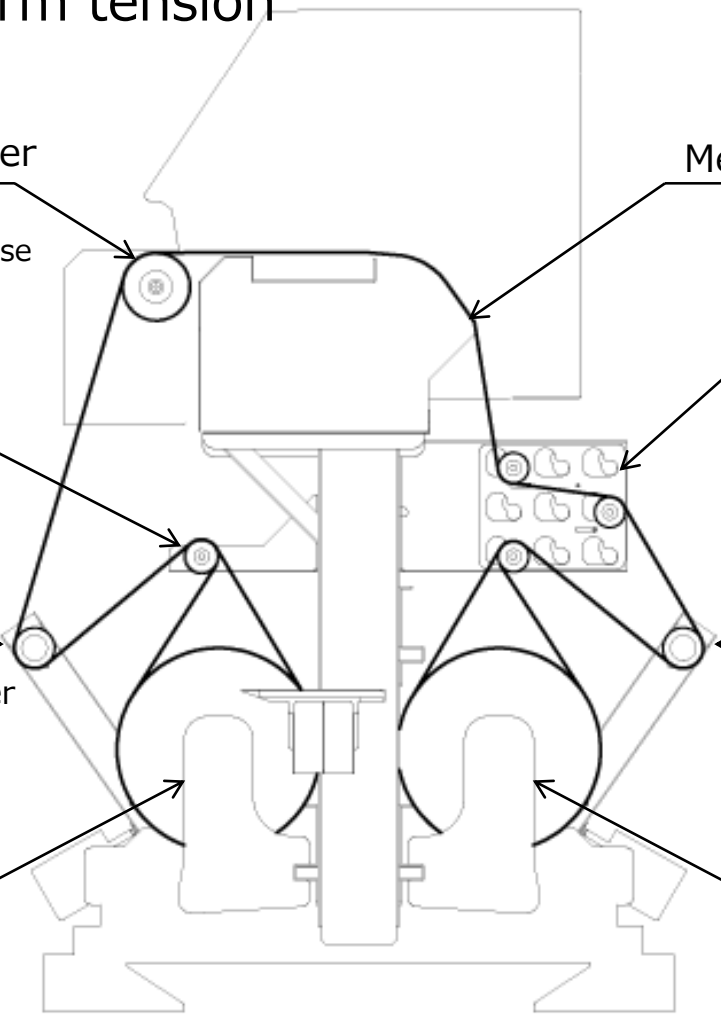
High gap, high quality print

- New printhead achieves high quality print in high gap setting thanks to reduced deflection by fast ink ejection
- Reduces head trouble when printing on various woven patterns or raised fiber surfece

	Conventional Model	Tx300P-1800
Ink ejection Image	 Ink drops deflected	 Ink drops are ejected straight
Printed image	 Inaccurate dot Placement. Blurry edge and grainy appearance.	 Accurate dot placement. Sharp edges and clear image quality.

ORIGINAL FABRIC TRANSFER MECHANISM

- Stable picture quality can be obtained in high speed printing because take-up and feeding tension bar and tension roller maintains uniform tension



Tension roller

Apply tension to avoid loosening print surface because there is no supports up until this roller

Media

Feeding folding bar

Stabilize tension and avoid wrinkle
Change setting depending on media type

Take-up folding bar

Stabilize tension to wind up media

Take-up tension bar

Measure winded media diameter
Maintain uniform tension by controlling take-up speed automatically

Feeding tension bar

Measure feeding media diameter
Maintain uniform tension by controlling feeding speed automatically

Take-up device

Feeding device

Ink supply system that helps unattended printing

- **MBIS3**(Mimaki Bulk Ink System 3) for large amount production

  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.



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

  In 4 color ink-set, when the ink runs out, ink is automatically supplied from the other cartridge for the continuous operation.
  It helps to avoid stopping caused by ink-run-out

  *When using 6 color ink set, UISS works with some colors
  This function is not available when using 8 colors

Automatic cartridge switching

- **Non-Stop ink replacement**

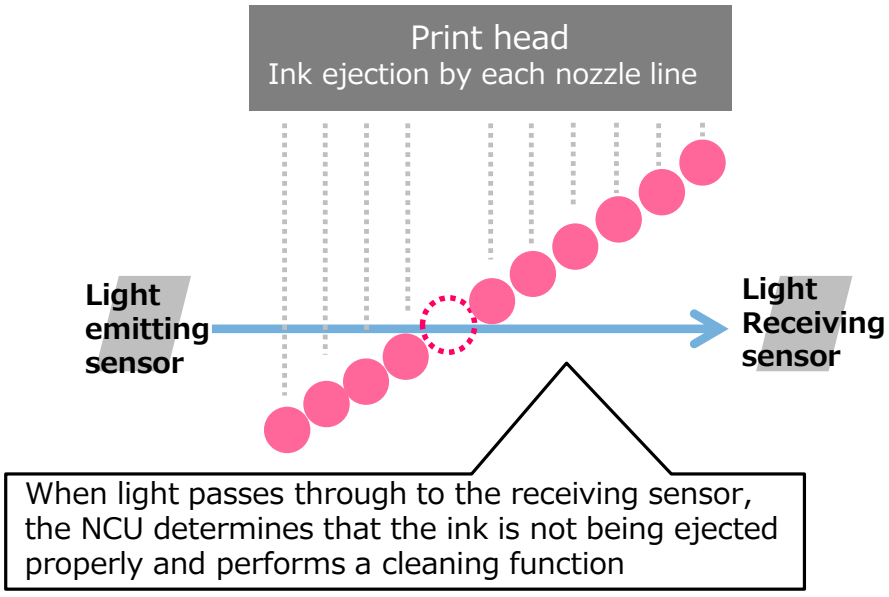
  In 4 color ink-set, empty ink cartridge can be replaced with a new one without stopping the on-going print job. No waste of time and media/ink.

  *When using 6 color ink set, UISS works with some colors
  This function is not available when using 8 colors

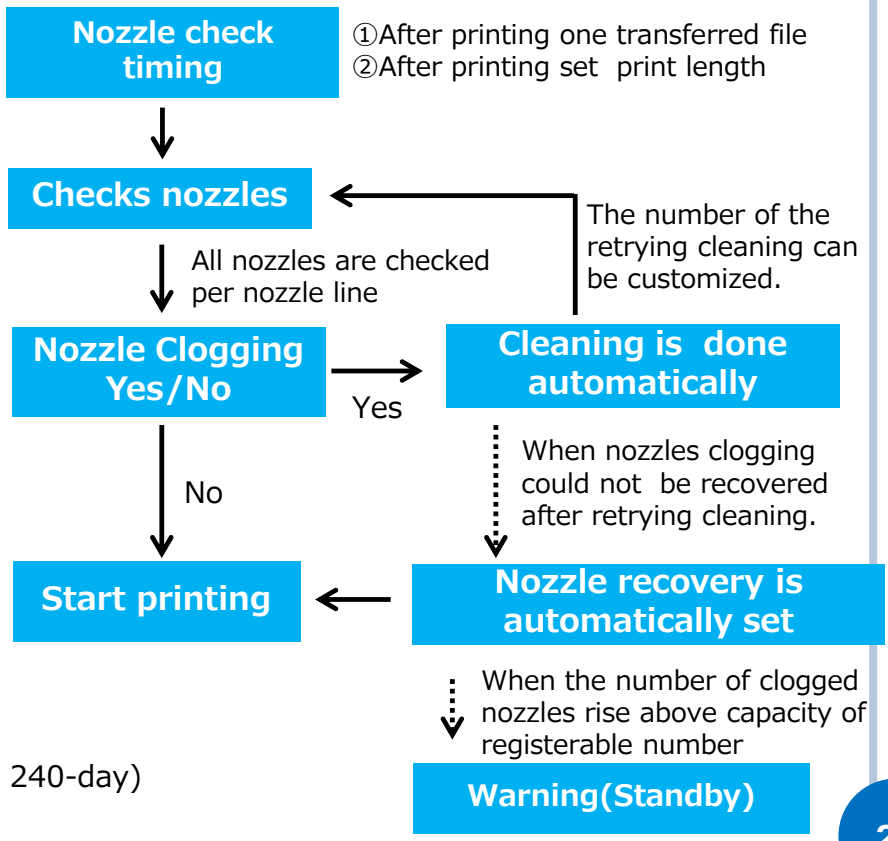
NCU (Nozzle check Unit) for stable quality

- Nozzle condition is automatically checked per transferred file or set print length
- When nozzle clogging is detected, cleaning is automatically executed
- When nozzle clogging is not recovered by cleaning, Nozzle Recovery System is automatically done, and starts printing.

【Image of NCU function】



【NCU operation flow】



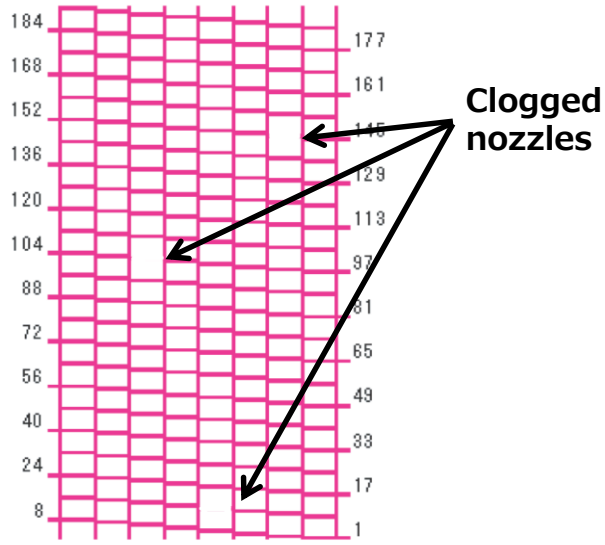
Nozzle chink time : 43sec/check
Nozzle check ink consumption : 732cc/year
(Operating Condition:One check/hour x 10-hour operation/day x 240-day)

*When setting nozzle check by length, the color may differ if the NRS is performed in the middle of printing.

NRS (Nozzle Recovery System) for continuous printing

- If a nozzle clog is not cleared via the maintenance function, other nozzles can be assigned to continue printing

Nozzle check pattern

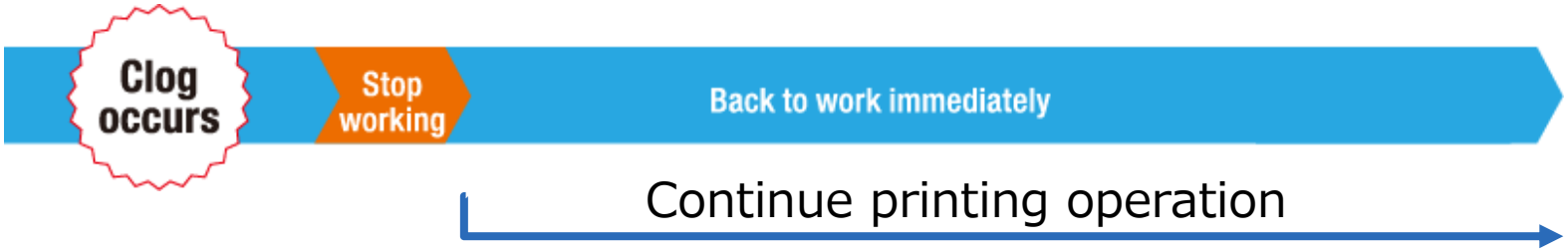


Register the number of clogged nozzles

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 MAPS4, NRS may not work in some mode

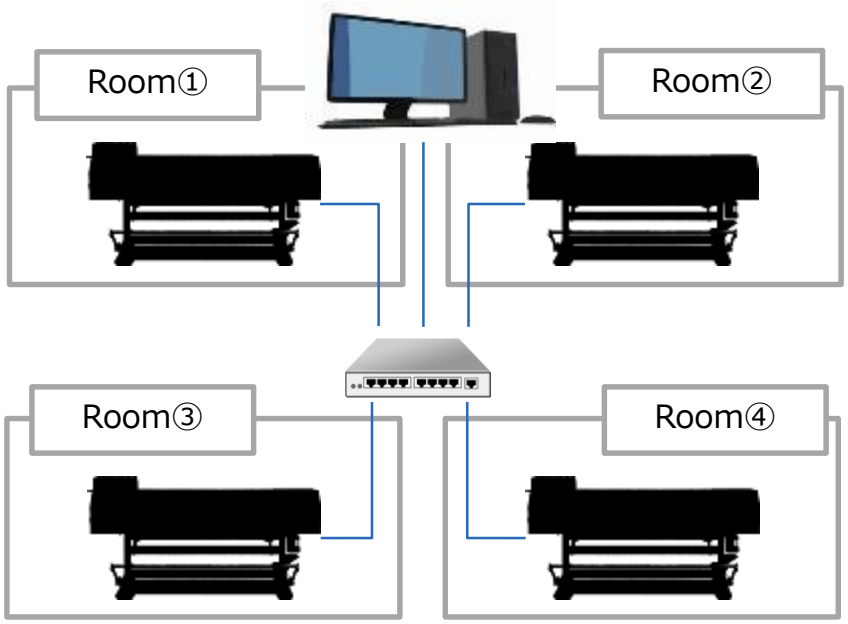
【Continuous printing by NRS 】



Ethernet connection

- Printer and RIP PC can be installed in different rooms, such as machine room and quiet office
- Multiple printers can be installed in different rooms
- Installation is easy, just by adding cables to the network of the office

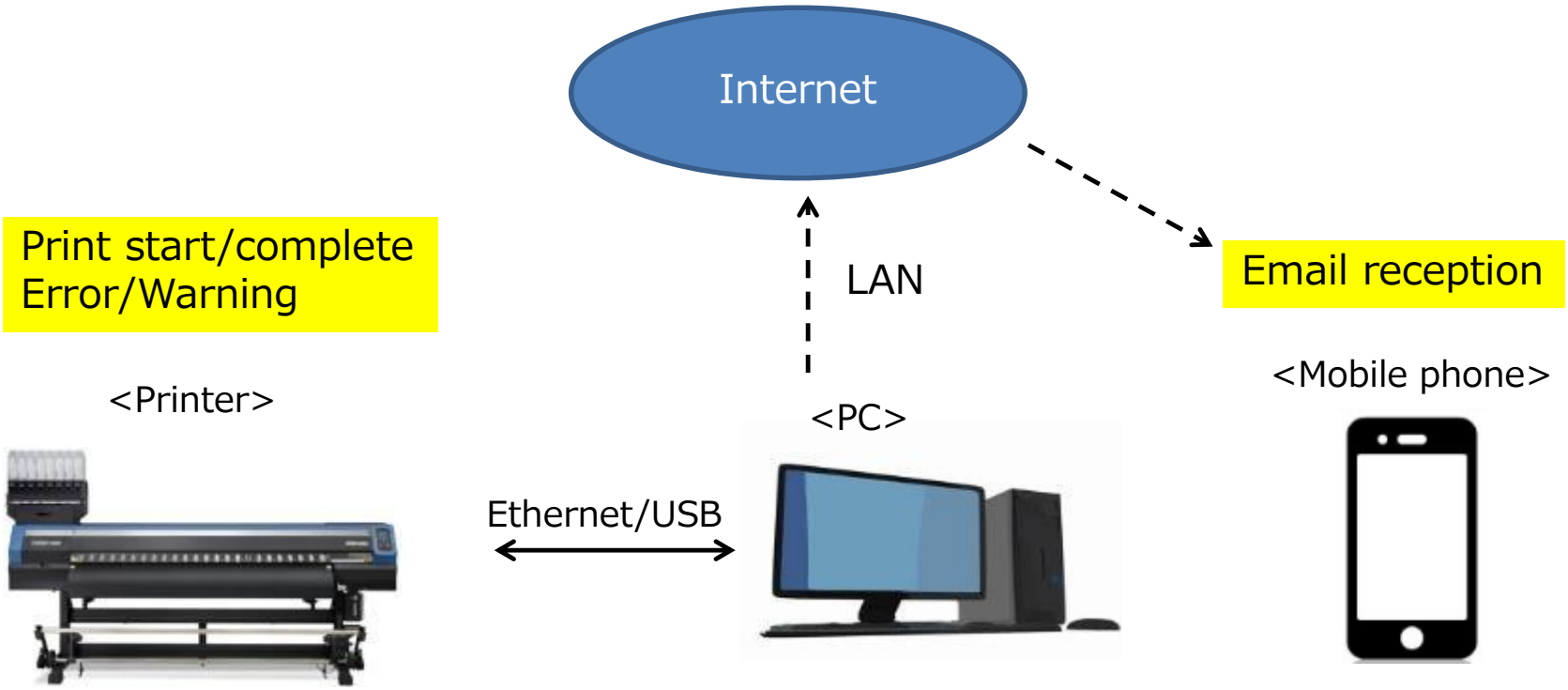
*USB2.0 is also supported (5 m or less cable length is recommended)



*Please use network cable graded category6(CAT6).
Connection by relaying router is not supported.
When using Ethernet, please build-out printer and RIP PC in the same network.
When using switching hub, please use 1000BASE-T supported version.
*TxLink3 cannot connect more than one printer at the same time.
*RL6 can register 4 printers at the maximum.
However, printing may stop depending on the network condition.

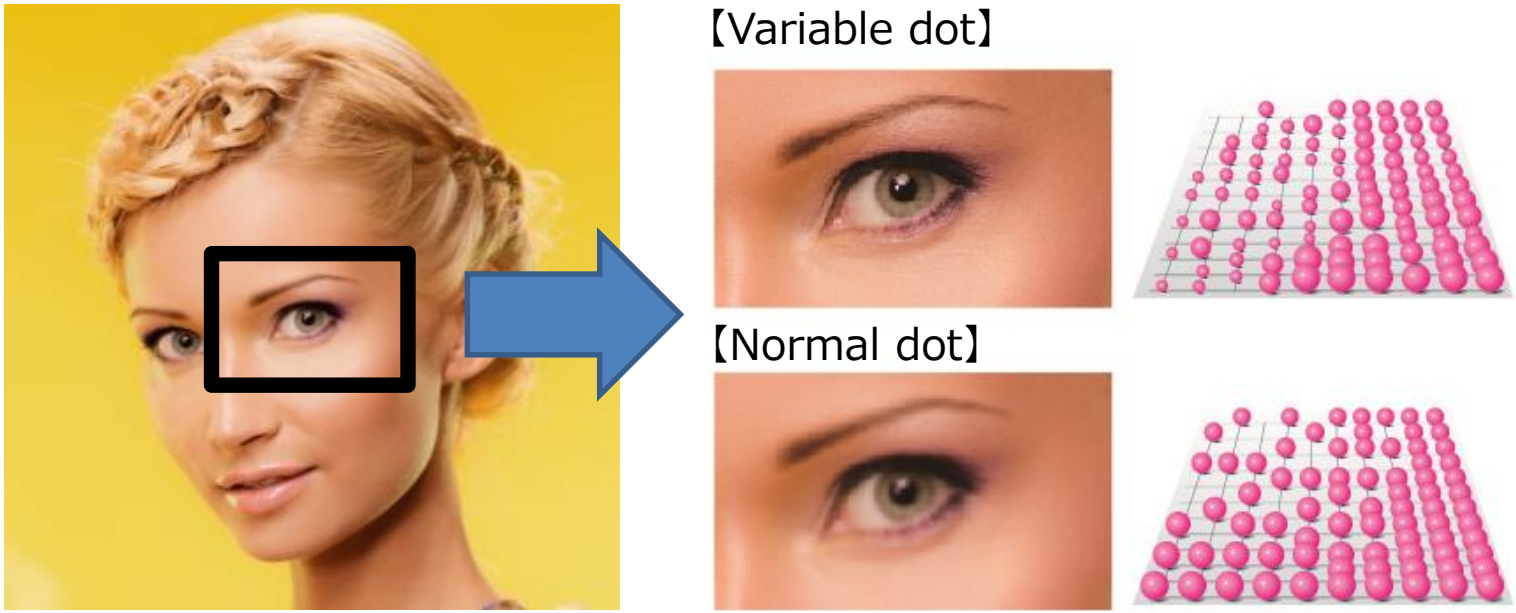
Event Mail Notification for monitoring printer status

- Information such as start/finish of printing, or discontinuation of printing by Error is sent from printer to mobile phone through the Internet.
- Printer status can be monitored remotely.



High image quality by Variable dot printing

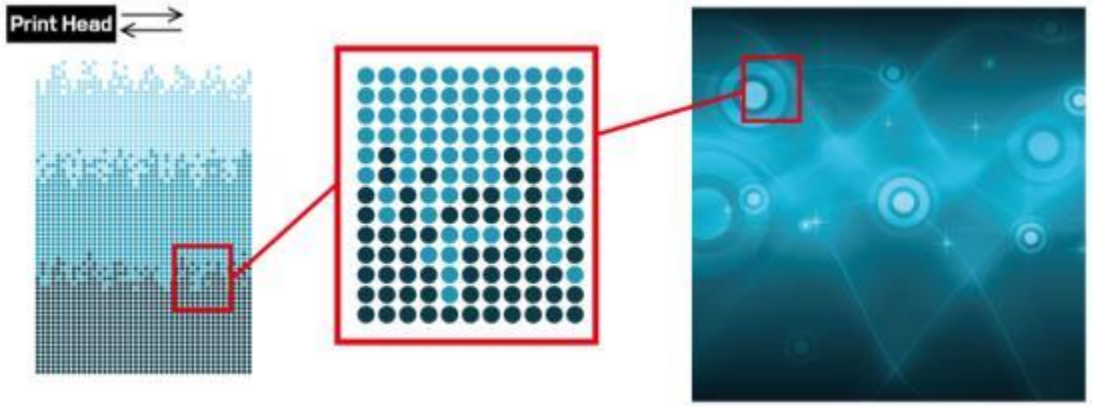
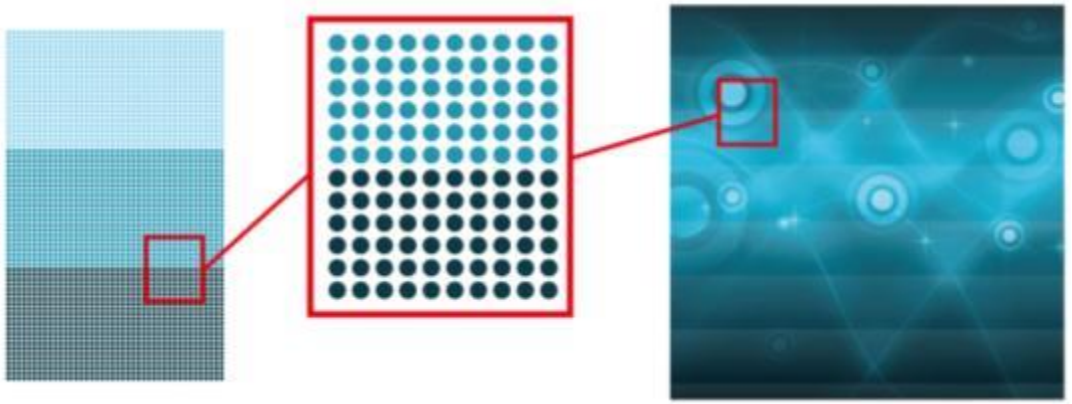
- 3 different drop sizes of Large/Middle/Small are automatically selected depending on the ink type and print mode*
- Variable dot printing achieves smooth gradation & skin tone even by 4C.



*Tx300P-1800 has 2 types of waveform, and the best waveform are selected automatically for each print mode for the best quality.
This accomplished both high quality printing and high speed printing.

MAPS4 reduces banding

- MAPS4 prints passes in gradation-like tone allowing for reducing banding
- By dispersing ink drops between passes uneven print density is reduced

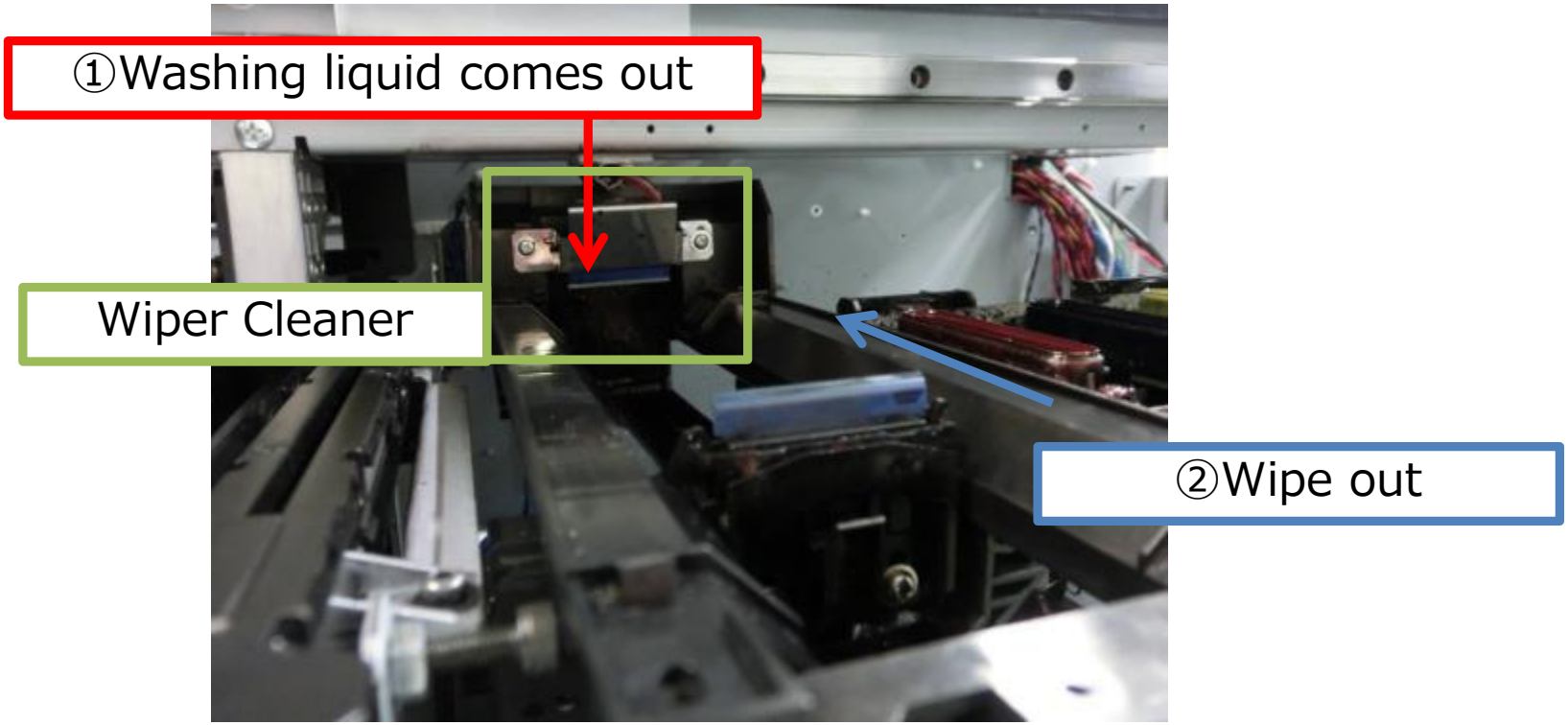
MAPS4	
Normal pass	

*MAPS is disabled when minimum pass in each resolution is set and print mode “Standard”. If MAPS mode is set to “High quality, print speed will be reduced slightly.

Automatic wiper cleaning for stable ink ejection

- The 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 ejection of ink.
- The daily maintenance becomes easier because the wiper is cleaned up automatically.

【Automatic Wiper Cleaning】

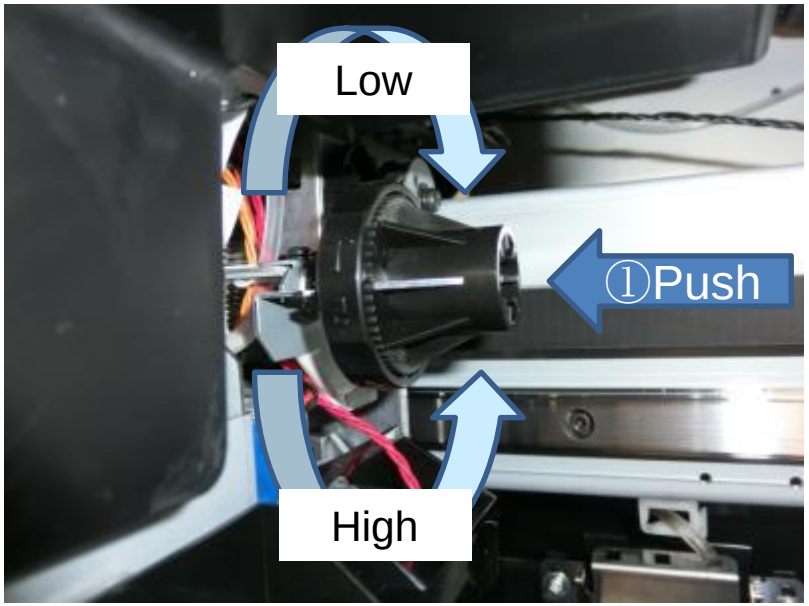


Detailed head gap adjustment

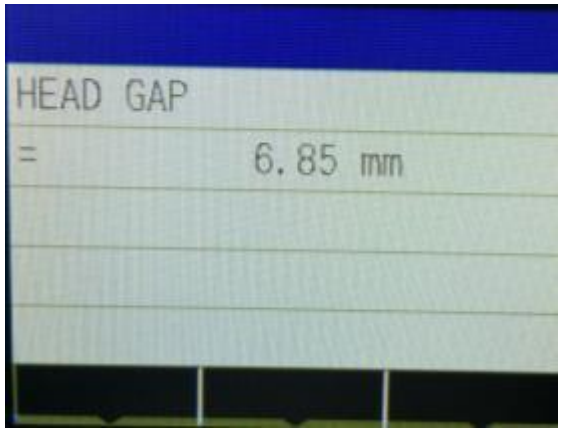
- Head gap can be adjusted from 2mm to 7mm by 0.05mm. This allows for using several thickness of media.

  * Minimum unit displayed on operation panel is 0.05mm

Head gap adjustment



Operation panel

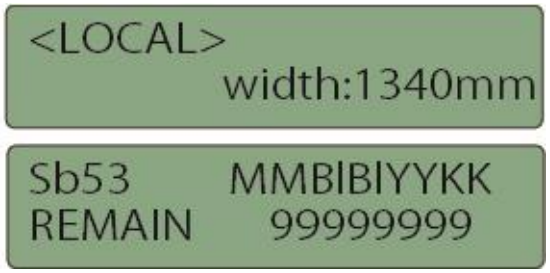


High visibility operation panel

①Color LCD Control Panel

3.45inch(52.56mm x 70.08mm) color panel display for easy setting and operation.

【Conventional printer】



【New】



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

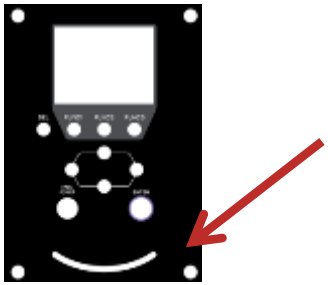
Multi-language display

10 languages are available for convenience.

Selectable languages: Japanese/English/German/French/Italian/Spanish/Portuguese
Chinese/Korean/Turkish

③Status LED

LED status lamp tells you the status of the printer, and grasp the status from a remote position.

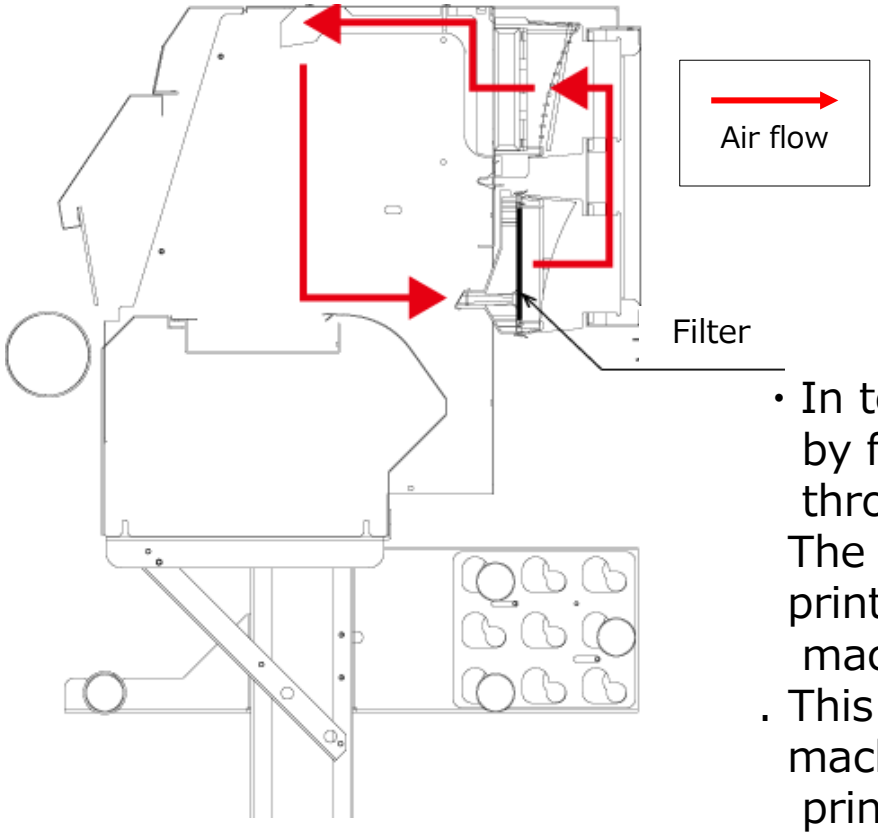


【Status LED】
Blinking in Blue : Normal operation
Blinking in Red : Error occurred

OPTION 1 : MIST CATCH UNIT

- Circulate air inside printer and remove ink mist generated during printing by filter
- Prevent from discharging ink mist from printer
  * Filter is consumable

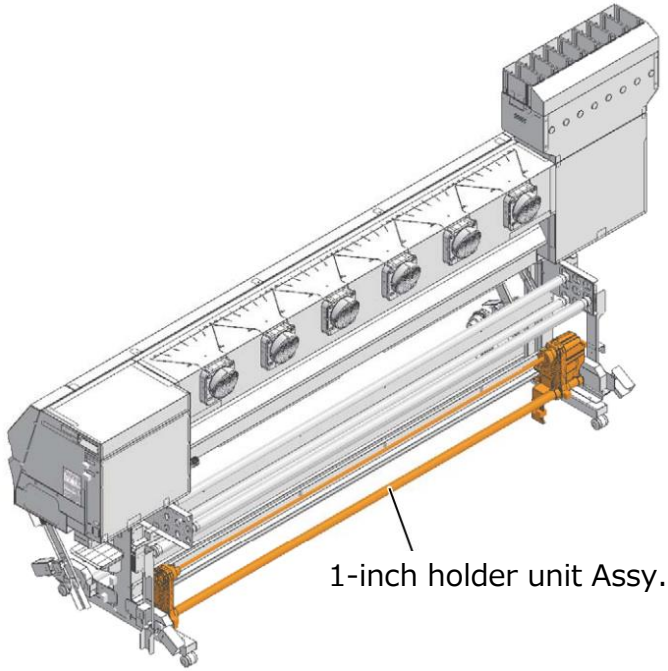
[Mist catch unit working image]



・In textile direct priming, ink mist is generated by flattering media and residual ink that went through fabric.
The ink mist stuck on print surface or print head might cause defective print and machine trouble.
. This unit helps avoid defective print and machine trouble by circulating air inside printer and catch ink mist by filter.

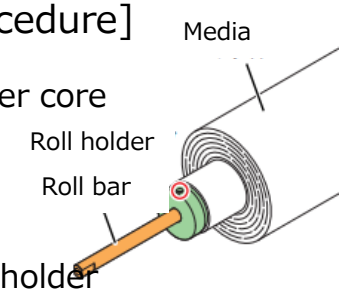
OPTION 2 : 1-INCH HOLDER UNIT

- Optional adaptor for 1-inch paper core.
  With a use of this folder, the textile supplied with 1-inch paper core is loadable to printer.
- Applicable to other paper core with larger diameter (1.5-inch/2-inch/3-inch)

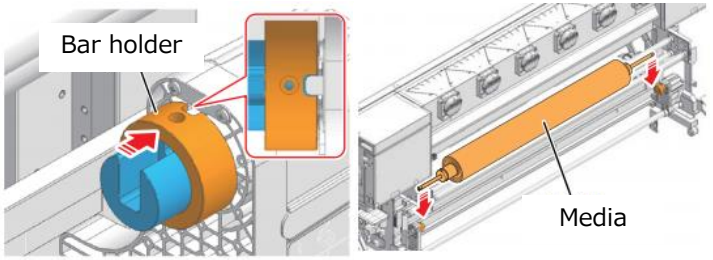


[1-inch holder unit setting procedure]

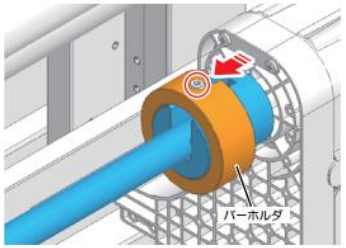
1. Attach suitable roll holder to paper core and fix core



2. Set media prepared by 1 on bar holder



3. Slide bar holder and fix





Roll holder S
(For 1-inch to 1.6 ir

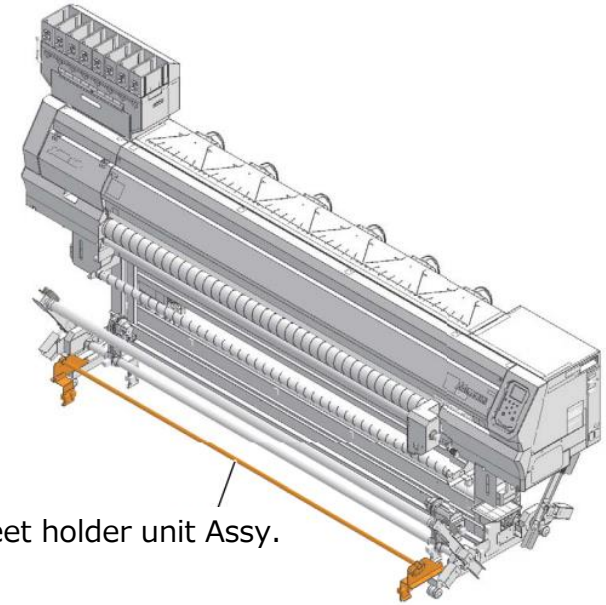


Roll holder L
(For 2-inch to 3 inch)

* Notes for 1-inch holder
- Center media setting only. (Right offset setting is not supported.)
- Maximum media width varies depending on paper core when option is used (1-inch : 1,850mm (34kg) 、1.5-inch : 1,930mm (34kg))

OPTION 3 : SLIP SHEET HOLDER UNIT

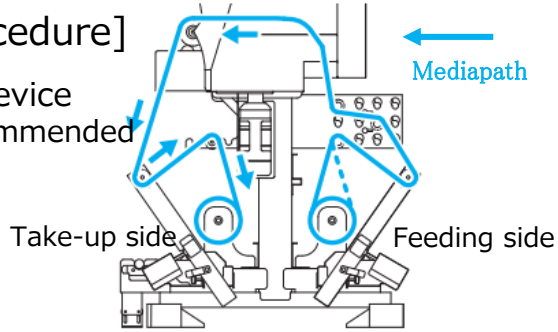
- The use of slip sheet is helpful to avoid ink transfer to the back of media.
  When large amount of ink is used for printing, ink on the print surface is likely to transferred to the back of the media. The slip sheet and media can be winded together with the use of insertion paper holder to avoid ink transfer
- Slip sheet holder can be set in take-up side



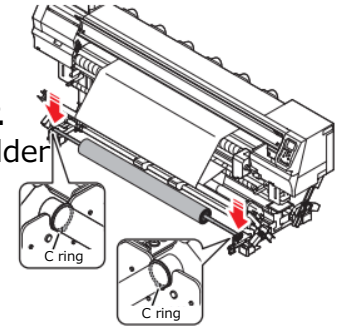
Slip sheet holder unit Assy.

[1-inch holder setting procedure]

1. Set media on take-up device
   * Inward winding is recommended

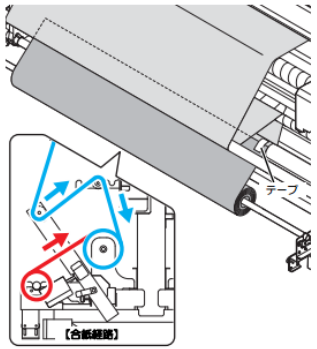


2. Set slip sheet bar to
   Slip sheet roll core.
   Load them on slip sheet holder.
   * Locate C ring inward of the holder



C ring

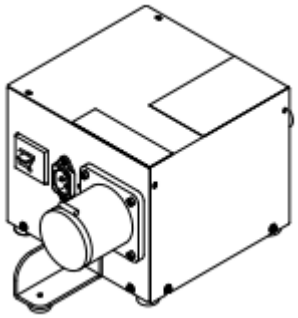
3. Take-up media and
   slip sheet together



[Note]
- The use of slip sheet with long media may cause skew.
- If skew occurred, please reset media or slip sheet.

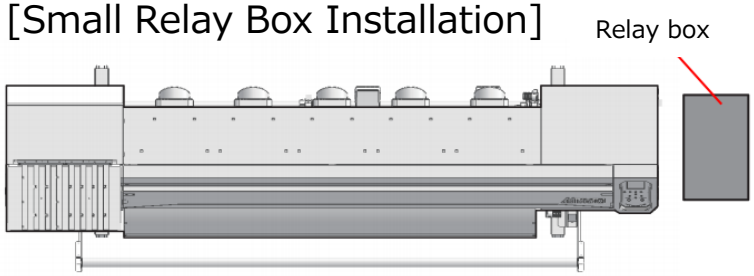
OPTION 4: SMALL RELAY BOX

- Please use relay box when attaching heater unit for promote drying ink
- Relay box stops power supply to heater when printer stopped



Synchronize power supply to external heater and printer by connection this relay box

[Small Relay Box Installation]



- Please install on floor beside printer's operation panel

[Specifications]

Items	Specifications	Remarks
Power requirements	Single-phase AC100-120V/12A AC200-240V/8A	Depend on heaters
Power consumption	1440VA / 1920VA or less in total	Depend on heaters
Heater power allowance	1440VA / 1920VA or less in total	
Compatible heater type	Electric type heater with use of resister or lamp	Heater must be turned on/off in power supply side
Installation environment	Conforms to printer specs.	
Weight	10kg or less	Exclude options
Dimensions	190(W)×280(D)×160(H) mm	Exclude options

[Notes]
- Connection of relay box and external heater must be carried out by qualified electrical engineers
- External heater must be turned on/off by power supply
  (Other means such as software control is not supported)
- Do not use the heater which does not meet required specifications to avoid malfunctions and fire
- Mandate the use of relay box to prevent fire from touching heater and media when printer stopped

Effective operation by TxLink3　Color Tool ①

Effective color management by various tools

Useful color tools are incorporated in one RIP, TxLink3 Lite.

- **Profile creation**

Profile creation is a standard feature.
Profiles for customer's media can be created easily by simply following wizard. (print chart and measurement)



ICC Profile not used



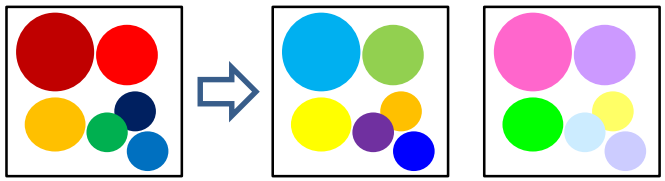
ICC used

- **Color replacement**

Color replacement allows to replace color without changing color in design software.

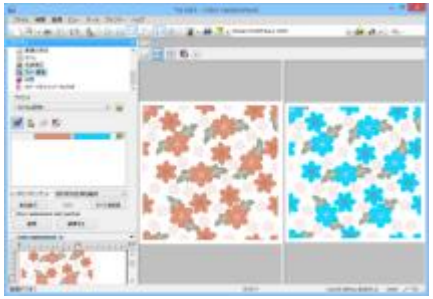
[Color assignment change]

【Original data】 【Replaced】 【Replaced】



Same design but different colors

【Color replacement screen】



[Reproducing specific color]

MIMAKI ⇨ MIMAKI

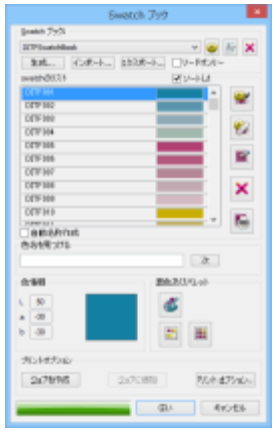
Easy reproduction of corporate Logo is possible.

- Color replacement of Raster data, and RGB data which required frequently in textile design is easily made
- Replacement color can be defined also by using spectrophotometer and color chip.

MIMAKI

Effective operation by TxLink3　Color Tool ②

● Color replacement by Swatch book / Named color



Frequently used color can be registered in a list.

①Swatch book registers Lab value with a name
Color replacement can be made just by selecting the name.

②Density value can be managed by name
By giving a name, which is same as Named color, for the spot color in the image, color replacement is automatically done just by opening image on RIP.

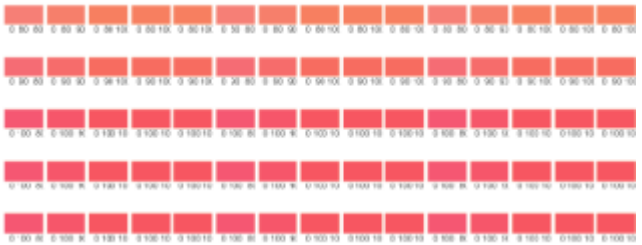
● Color chart printing

Both Swatch book and Named color have “Print similar colors” function.
By using this function, the similar colors with the color selected by Swatch book or Named color are printed as a chart.
This allows for finding replacement color easily.

【Chart by Swatch book (Lab value)】



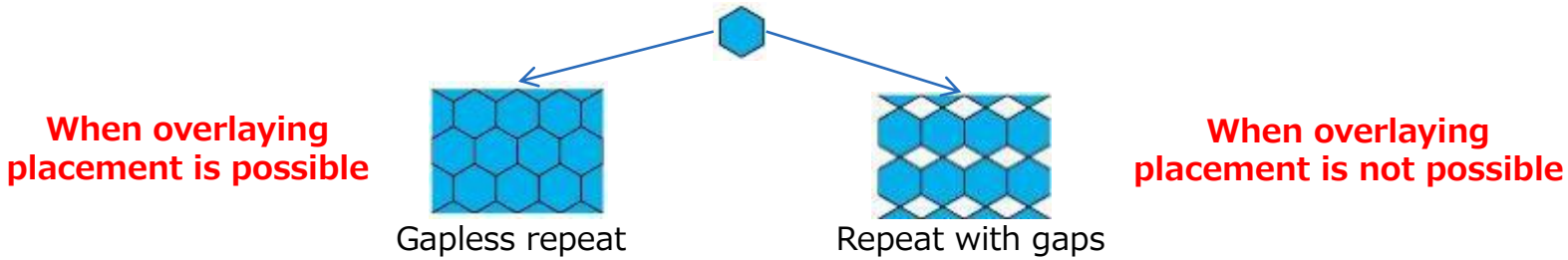
【Chart by Named color (Ink density value)】

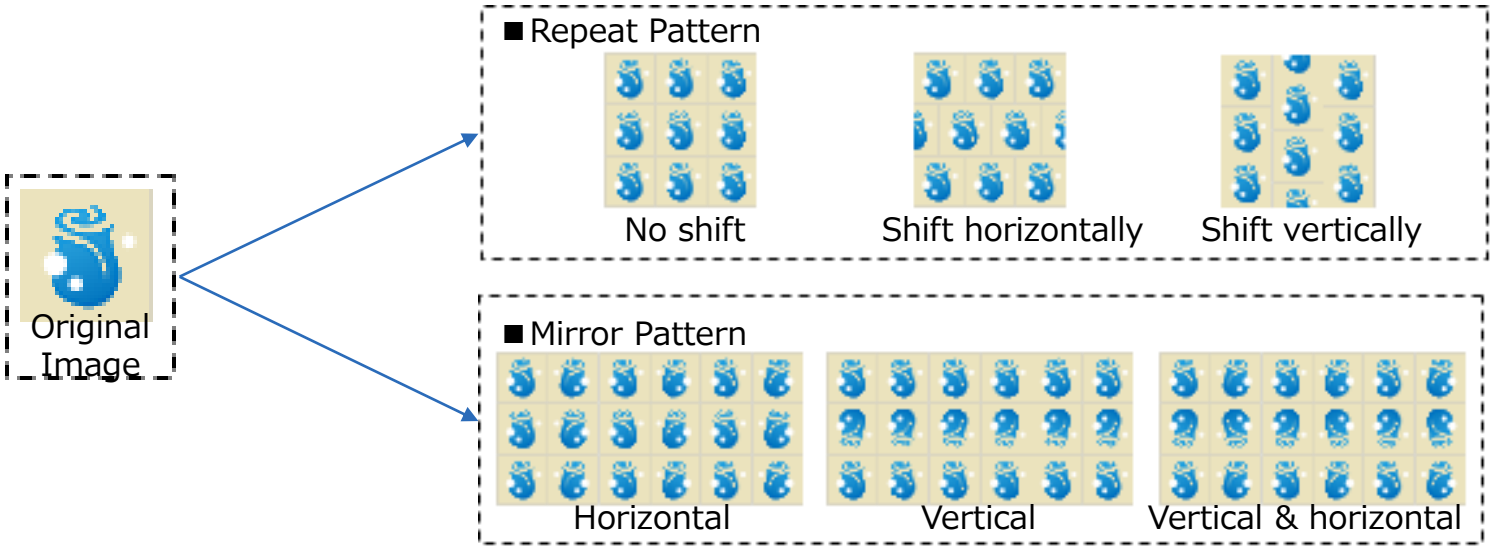


Effective operation by TxLink3 Convenient Features①

● Step&Repeat

Various paneling enables flexible placement of images
- Horizontal/Vertical Shift, Rotation, and Mirror for flexible layout
- Overlaying placement of images is possible.
  Hexagonal shape images can be repeated without gaps





Effective operation by TxLink3 Convenient Features②

- Color management of the printer
  - Using ColorQPC, color difference against target color can be checked By using this function periodically, the color change can be managed.
  - The color of the printed image can be previewed on the monitor*

    *Monitor which supports color management is separately required.

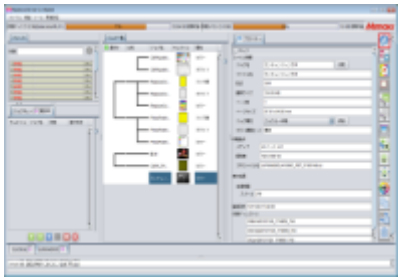
- **Printing management**

  Print Client archives print history
  - Ripping and printing progress are shown
  - Printed job in the past can be printed again
  - Printed date and consumed ink amount are recorded

Intuitive operation by RasterLink6

RasterLink6

【Intuitive Operation】



1
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.



2
The visual icons on the right side of the screen allows for the easy and quick setting of the print condition.



3
Frequently used setting can be registered as “My Favorite”.
Up to 30 settings can be registered.

【Useful functions】

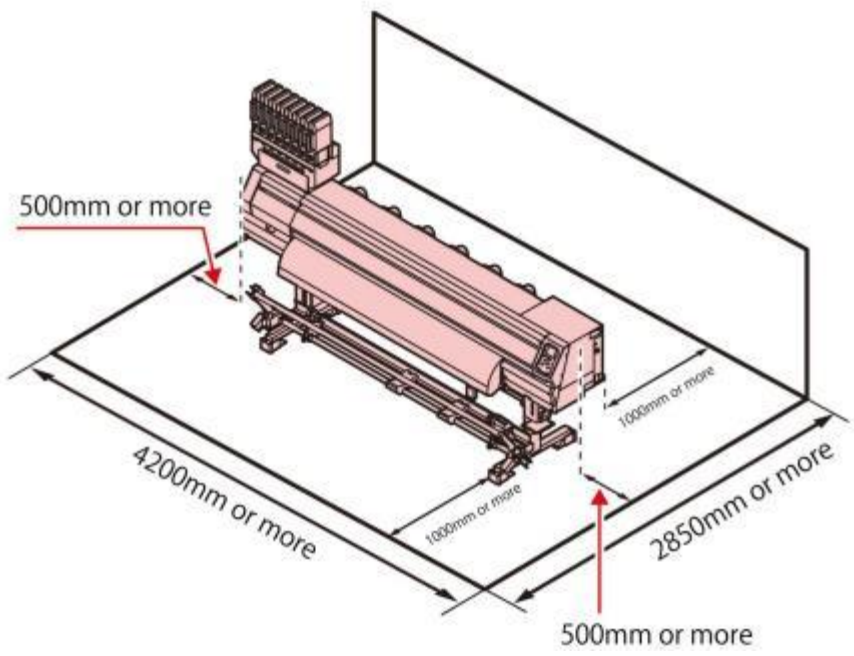
- Color chart creation
  The color charts of RGB／CMYK／Spot color can be created easily
- Profile batch printing
  The best profile can be found easily when trying to print on media which has never been used before.
- Step & Repeat function
- Print finish time calculation
- Ink amount calculation
- Print progress display
- Automatic nesting function
- Web update function

Packing and Installation

【Packing】

Model	Width	Depth	Height	Weight	Manpower for installation	Per Container
Tx300P-1800	3,305mm	750mm	1,175mm	341kg	4 people	20ft:3-unit 40ft:9-unit 40ftHQ:18-unit

【Installation】



*Installation space for PC is required separately

● 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.

Specifications

Printhead	On-demand piezo head (4 in-line printhead)
Print resolution	360 dpi, 540 dpi, 720 dpi, 1080 dpi (Supported resolution depends on ink type)
Drop size	Minimum 6pl, Maximum 24pl (Varies depend on ink type)
Head height	Manual adjustment (2.0mm~7.0mm) *Standard:3mm
Ink type	Sublimation dye ink:Sb420 , Disperse dye ink:Dd400 , Textile pigment ink:TP400 , Reactive dye ink:Rc400 , Acid dye ink:Ac400
Ink colors	4 colors, 6 colors, 8 colors
Ink capacity	2L ink pack
Core diameter	2-inch / 3-inch * Needs 1-inch holder unit when loading 1-inch core
Max. media width	1,920mm (Max print width : 1,920mm) / 1-inch core: 1,850mm (Maximum print width : 1,850mm)
Media thickness	1.0mm or less
Media type	Natural fiber (cotton, silk, hemp etc.) Chemical fiber (polyester, nylon etc.) * exclude stretchable media
Roll weight	40kg or less/ 34kg or less when 1-inch holder unit is used with 1,800mm width *Maximum weight after printing
Media cut	N/A
Dimensions(Printer)	3,200mm(W) x 965mm(D) x 1,857mm(H)
Weight(Printer)	255Kg
Weight(Packing)	341kg
Power supply	Single phase (AC100～120V/200～240V ±10%)×1 50/60Hz±1Hz
Power consumption	(AC100V) 1,440W×1, (AC200V)1,920W×1
Interface	For print data: USB 2.0 Hi-speed / Ethernet 1000BASE-T For e-mail: Ethernet 10BASE-T / 100BASE-TX / 1000BASE-T
Safety standard	VCCI Class A / FCC Class A / UL60950-1ETL / CE Marking(EMC, Low voltage, Machinery) CB report / RoHS / REACH / EnergyStar / RCM

FAQ

#	Questions	Answers
1	Is there a merit of not using the tension bar?	You can easily set media. Also, you can print with minimum media. However, we recommend using the tension bar basically.
2	Pulling Roller Do you need periodic replacement for the cloth wound around the outer circumference?	Basically, no exchange is necessary. However, since it can be prepared as a maintenance part, it can be exchanged if it becomes anxious, such as ink smearing.
3	Do you always set the ink spacer?	Yes. Always be sure to install it to prevent media stains due to ink mist.
4	Do you always set the presser foot?	Please basically set. However, please do not use it when overprinting.
5	Is it possible to exchange ink?	Ink change is possible.If executed by users themselves, nozzle clogging may occur. When replacing the ink, be sure to contact our service.

FAQ (hybrid)

#	Questions	Answers
1	What should I use for the maintenance cleaning liquid when using TP and SB ink?	Please use cleaning liquid 12.
2	Can I print TP and SB ink at the same time?	Simultaneous printing is not possible.
3	Can TP / Sb ink be used simultaneously for mixed fabric (polyester, cotton)? Because it is to increase the color density.	Can not do it. To raise the density, please print with 2 Layer or more print settings.
4	Which FW version is supported?	Tx300P: Ver.3.00 and over Tx300P-B: Ver.2.00 and over
5	What is the arrangement of the nozzles?	The color order is Sb: MBlYK TP: MCYK from the left.
6	Which driver version is supported?	There is no specific designation, please use the latest version.
7	Which RIP version is supported?	RasterLink6: Ver.5.14 and over TxLink3: Ver.3.1.7 and over
8	Is there a way to obtain a profile?	It is available for download from the Mimaki website.
9	Want to remodel existing machine to hybrid, but have parts to replace?	Depending on the condition of the machine, it may be necessary to replace parts. Basically, there is no necessary replacement part in ink exchange.
10	Is there a procedure manual to change the existing machine to a hybrid?	There is not it. Replace the ink in the same way as normal ink change.