Wide Format Inkjet Printer for Textiles & Apparel

Mimaki's New DTF Printer

TxF330-800

Product Guide



Mimaki Engineering Co. Ltd.
Global Marketing G TAM
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Ver 1.0

The information in this document is subject to change without notice

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Keep Printing. Keep Creating.



Concept

In recent years, the garment printing market has rapidly shifted toward the DTF (Direct to Film) method, which enables large-scale production. Because DTF can handle small-lot and medium-lot orders at low cost, demand continues to grow, particularly for applications ranging from small batches to mass production.

As a pioneer in textile printers, Mimaki was quick to respond to this market shift and released the DTF printer TxF series. The TxF series has been well received not only in Japan but also overseas due to Mimaki's proprietary technologies that ensure stable operation. Building on this, Mimaki has now developed the TxF300-75, and further upgraded it into the new TxF330-800.

Equipped with two high-resolution 330 engines and enhanced by Mimaki's imaging technology, this model achieves significantly higher productivity than previous machines while still delivering equal or superior image quality.

In addition, a 6-color ink set including the new Sky Blue and Pale Pink inks is now available. This enables a wide range of expression—from high vibrancy to deep density—that is especially important for T-shirt printing, resulting in even higher-quality output.
The new colors have also been certified under ECO PASSPORT, which is required for compliance with the international OEKO-TEX® standard, ensuring they can be used safely.

While inheriting the proven stability and reliability of the existing TxF series, the new model incorporates additional mechanisms that further reduce downtime, keeping production running and ensuring consistently stable operation.

Product Overview | Two options to match your work style

High Productivity

4C+W

C M Y K W

Compared to the previous TxF300-75,

more than **1.5×** higher productivity
while maintaining high image quality



Expressive Performance

6C+W

C M Y K SB PP W

Achieves everything from high color vibrancy to deep density
with a single unit

Product Overview | Feature Introduction

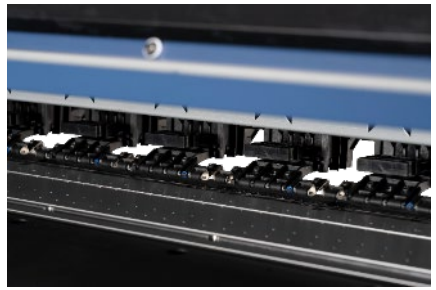


Mimaki Genuine DTF Ink PHT50

16-cartridge（Color:8/White:8）
White ink can hold up to 4 liters, supporting applications with high consumption.

TxF330 Dedicated Pinch Rollers

Improved strength and enhanced durability compared to previous models.



Rotary Rubber Wiper

Uses a rotary mechanism that makes maintenance easier.

White Ink Circulation System

Improves stability of white-ink discharge.



Front Cover

Prevents dust and DTF powder from entering the machine.

3-way Heater

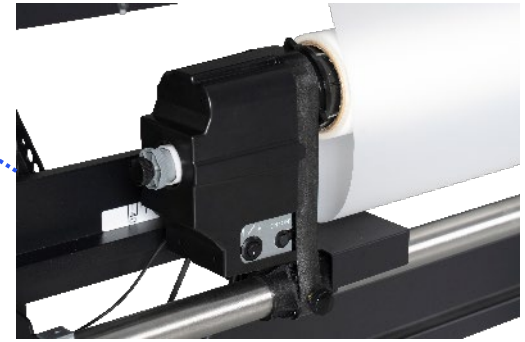
Achieves clean, non-bleeding print quality through precise heater control.

Maximum Print Width: 800 mm

MFT(Mimaki Feed tension Technology)

Default: *OFF*

Used when high-resolution output is required for high-speed and long-length printing. Feeds film in a tension-free state to maintain stable media transport.



Key Product Features



01 Over 1.5× Higher Productivity with High Image Quality

With 4C+W, achieves higher productivity than the previous TxF300-75.

02 Wide Expression Range from High Vibrancy to Deep Density

With 6C+W including the new Sky Blue / Pale Pink colors.

03 Stable production that does not stop work

Equipped with a new mechanism.

Feature

01 | 4C+W







Production mode

600x1200 6P

11.5sqm/h
(123.8sqft/h)

Over 1.5× productivity

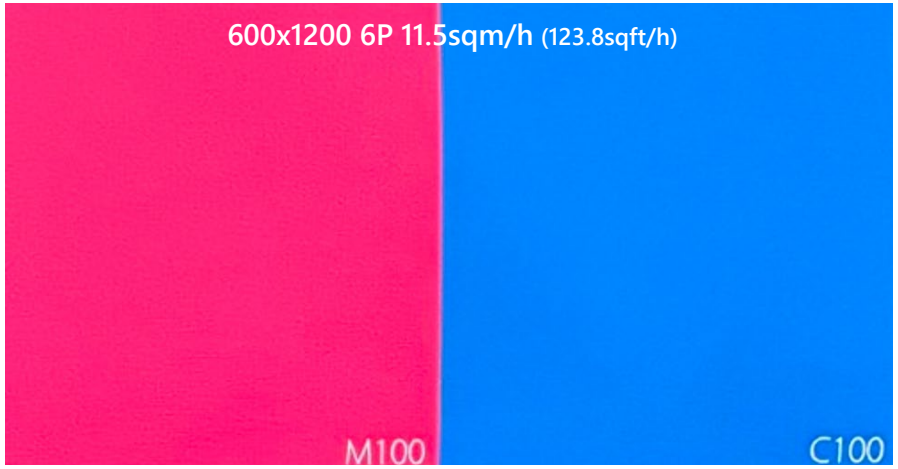
compared with
the TxF300-75

High Quality at High speeds

with 330 Technology

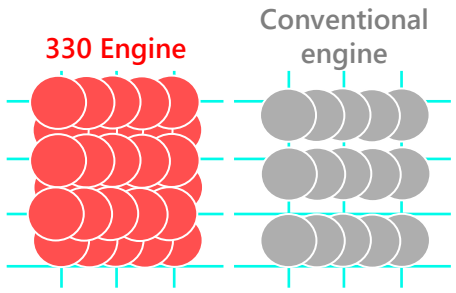
01 | High Image Quality with 330 Technology

High-density, beautiful solid color reproduction

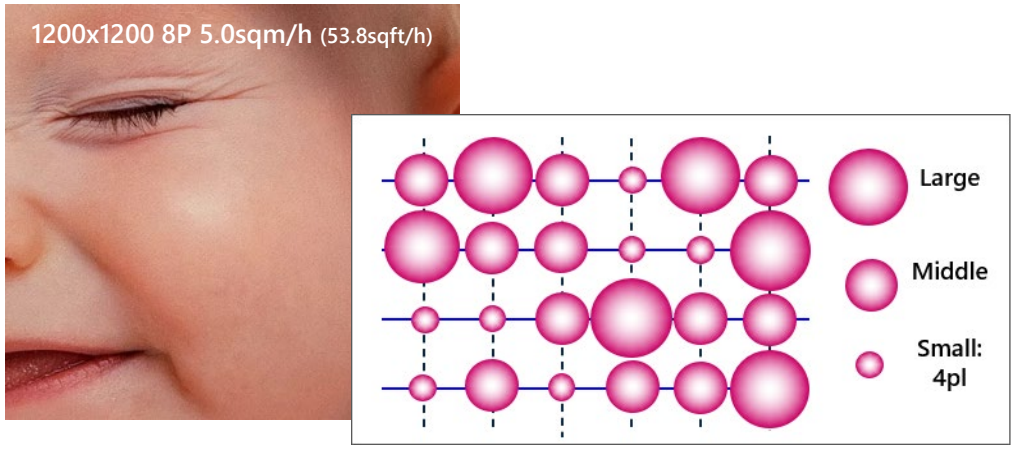


330 Engine

Higher dot density per pass enables high-density, smooth solid fills—even in high-speed modes.



Smooth image quality with minimal graininess using minimum 4-pl droplets



Variable Dot Control

Ejects different dot sizes — Small, Middle, Large. Small (4pl) dots enable finely detailed, realistic photographic expressions.

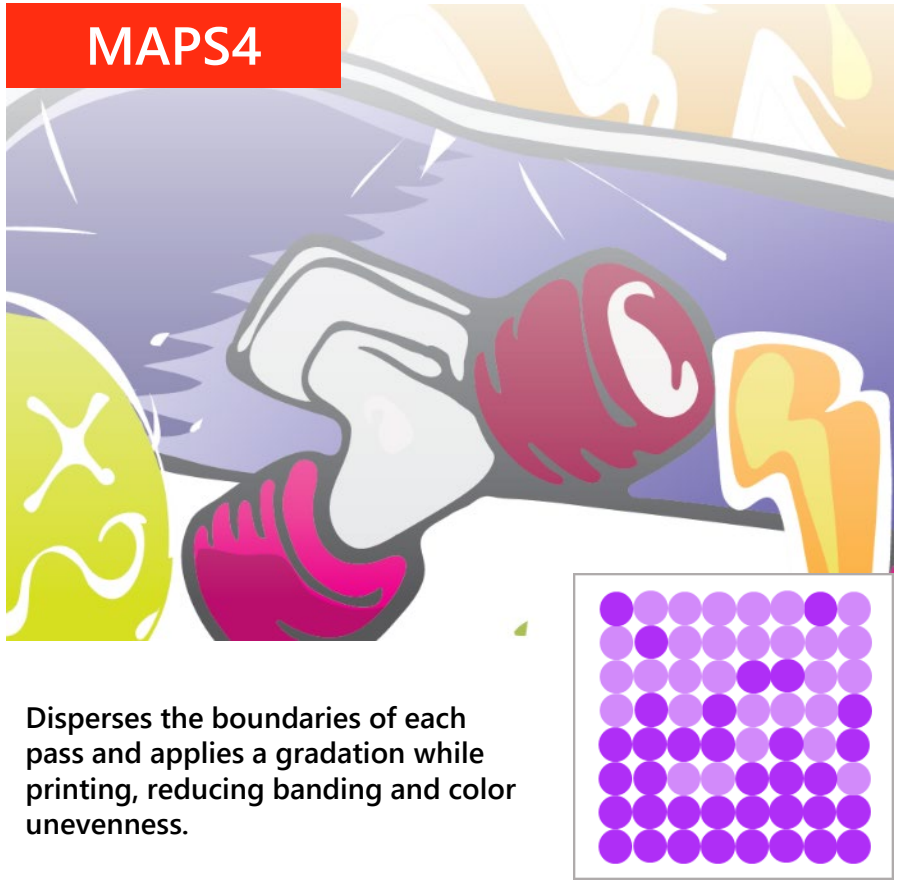
Waveform Control

Ink droplets are voltage-controlled to maintain a perfect spherical shape and land straight, preventing dot overlap and resulting in a smooth, low-grain finish.

Reduced banding and color unevenness with MAPS4

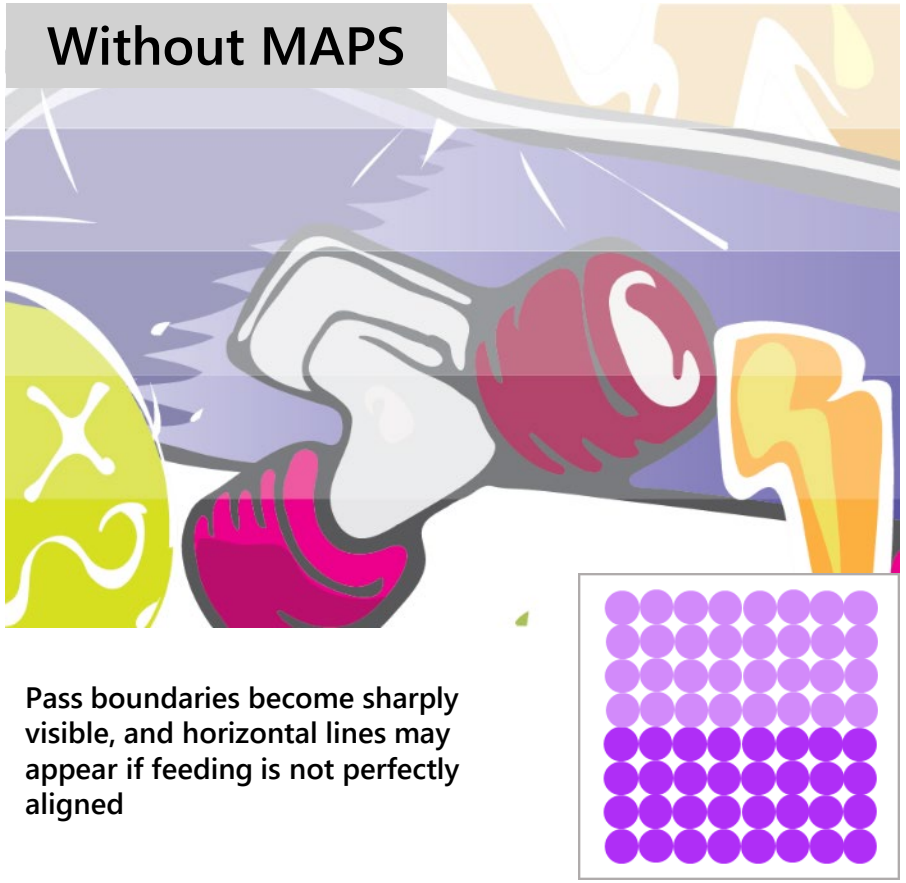
Mimaki Advanced Pass System 4

MAPS4



Disperses the boundaries of each pass and applies a gradation while printing, reducing banding and color unevenness.

Without MAPS



Pass boundaries become sharply visible, and horizontal lines may appear if feeding is not perfectly aligned

4C+W

1.5× Higher Productivity, Same High Image Quality

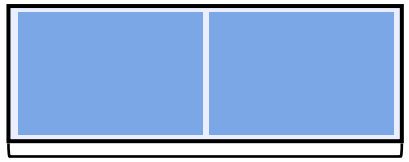
TxF330-800 600x1200 6P Bi,Hi **11.5sqm/h** (123.8sqft/h)



TxF300-75 720x720 6P Bi,Hi **7.5sqm/h** (80.8sqft/h)



Data size：300mmx400mm
Film：800mm width





1.5x productivity

[Printing Conditions] Profile: TxF330-Generic,TxF300-Generic_sp Film: China film
[Pre-heat Conditions] 115 °C (239°F), 180 sec. [Transfer Conditions] 140 °C (284°F), 1st 15 sec., 2nd 15 sec.

01 | Film Compatibility

4C+W

RB Digital



STS Inks



KODAK



Vivision



Production mode 600x1200 6P 11.5sqm/h(123.8sqft/h)

High image quality on any film

Compatible with virtually any film, giving you the freedom to choose the best option for your application. It also helps optimize running costs.

Region
- JP
- AO
- NCSA
- EMEA

No.	Region	Vender	Film Product Name	Quality
1		RB digital	RB Onyx DTF Hot peel Film	✓
2		STS Inks	Hot & Cold Peel V8	✓
3		Vivision	DTF FILM, 0.6*100M Hot peel	✓
4		KODAK	KODACOLOR FTF Film Hot peel	✓
5		B-flex	BFDTF80100HD Instant peel	✓
6		Europort	DTF-TF16H Instant peel	✓
7		XIN FLYING	Double side Hot peel	✓

01 | Print Modes / Profiles

4C+W

Mode	Resolution	Speed (sqm/h)	Speed (sqft/h)	Applications
Draft	600x600 3P	23.0	247.6	Simple Designs
High speed 1	600x600 4P	17.5	188.4	High-Speed, High-Density Output
High speed 2	600x1200 5P	13.5	145.3	Balanced Productivity & Image Quality
Production	600x1200 6P	11.5	123.8	High-Volume Production
Quality	900x1200 6P	8.5	91.5	Detailed Graphics
High Quality	1200x1200 8P	5.0	53.8	Photos & Fine Details

Profile Name	Effect
Generic	General-purpose profile; suppresses banding
Third-party	Designed considering each film's characteristics
"_sp"	Suppresses graininess
"_s"	Prioritizes color reproducibility



Draft



High Speed 1



Quality



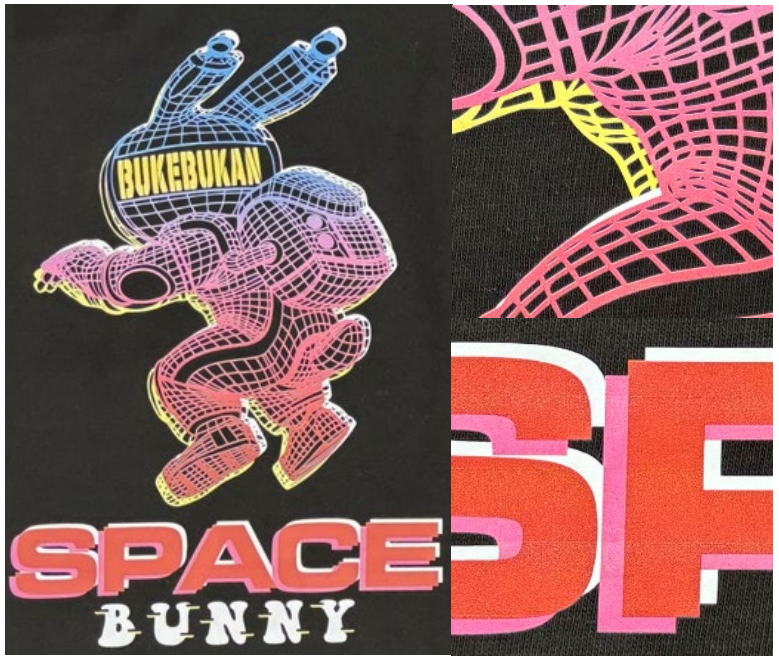
High Quality

01 | Print Modes / High Speed Mode

4C+W

Draft

600x600 3P Bi,Hi 23.0sqm/h (247.6sqft/h)



For light-color designs. Density is not easily achieved, but unevenness in solid areas is less noticeable.

High Speed 1

600x600 4P Bi,Hi 17.5sqm/h (188.4sqft/h)



Enables high-density expression even during high-speed printing. Suitable for designs that look good on dark fabrics.

High Speed 2

600x1200 5P Bi,Hi 13.5sqm/h (145.3sqft/h)



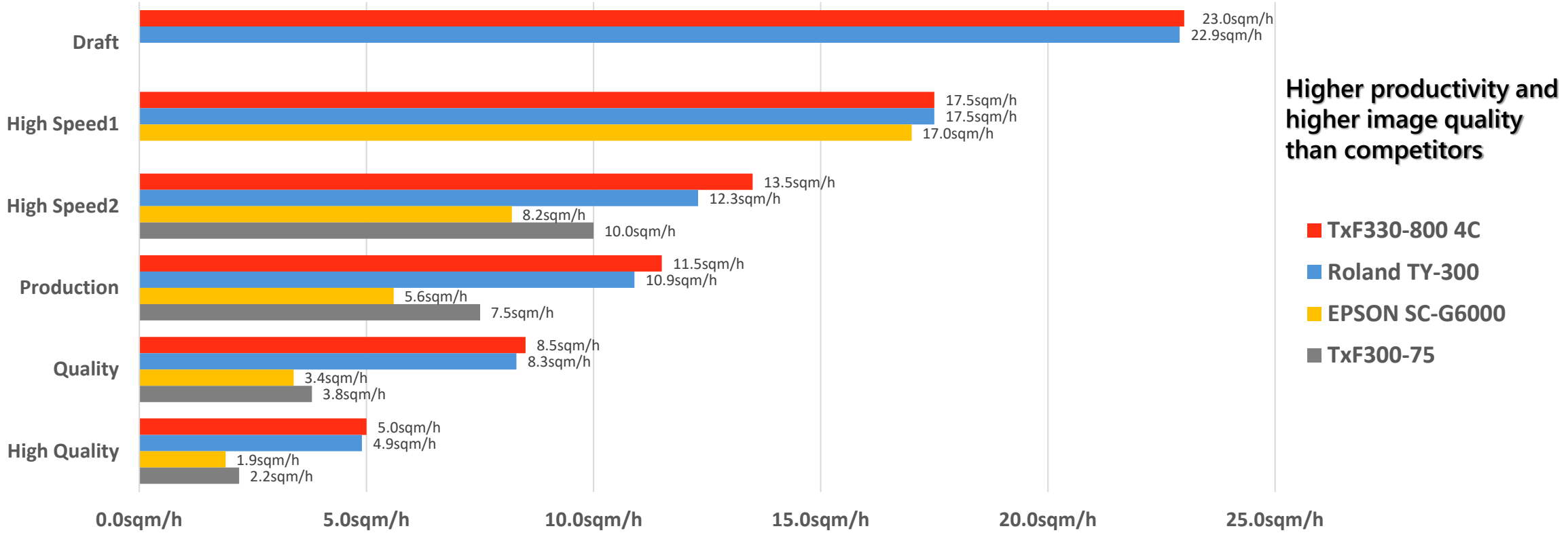
Balances high productivity with sufficient image quality. Produces vivid colors with fewer streaks or unevenness in solid areas.

[Printing Conditions] Profile: TxF330-Generic,TxF300-Generic_sp Film: China film
[Pre-heat Conditions] 115 °C (239°F), 180 sec. [Transfer Conditions] 140 °C (284°F), 1st 15 sec., 2nd 15 sec.

*Please note that test results may differ depending on printing conditions and profiles.
*Output results may vary depending on the combination and compatibility of the film and powder used. Prior testing is recommended.
*The above results are based on Mimaki's in-house evaluation and Mimaki does not guarantee the content.

01 | 4C+W Speed Comparison

4C+W



Print mode	TxF330			Roland TY-300			EPSON SC-G6050			TxF300		
Draft	600x600 3pass	23.0sqm/h	247.6sqft/h	600x600 3pass	22.9sqm/h	246.5sqft/h						
High Speed1	600x600 4pass	17.5sqm/h	188.4sqft/h	600x600 4pass	17.5sqm/h	188.4sqft/h	300x600 2Pass	17.0sqm/h	183.0sqft/h			
High Speed2	600x1200 5pass	13.5sqm/h	145.3sqft/h	900x600 4pass	12.3sqm/h	132.4sqft/h	600x600 4.1pass	8.2sqm/h	88.3sqft/h	720x720 4pass	10.0sqm/h	107.7sqft/h
Production	600x1200 6pass	11.5sqm/h	123.8sqft/h	600x1200 6pass	10.9sqm/h	117.4sqft/h	600x600 6pass	5.6sqm/h	60.3sqft/h	720x720 6pass	7.5sqm/h	80.8sqft/h
Quality	900x1200 6pass	8.5sqm/h	91.5sqft/h	900x1200 6pass	8.3sqm/h	89.4sqft/h	1200x600 10pass	3.4sqm/h	29.9sqft/h	720x1440 12pass	3.8sqm/h	41.0sqft/h
High Quality	1200x1200 8pass	5.0sqm/h	53.8sqft/h	1200x1200 8pass	4.9sqm/h	52.8sqft/h	1200x600 16pass	1.9sqm/h	20.5sqft/h	1440x1440 12pass	2.2sqm/h	23.7sqft/h

Feature

02 | 6C+W







Two New Colors Added

Sky Blue & Pale Pink

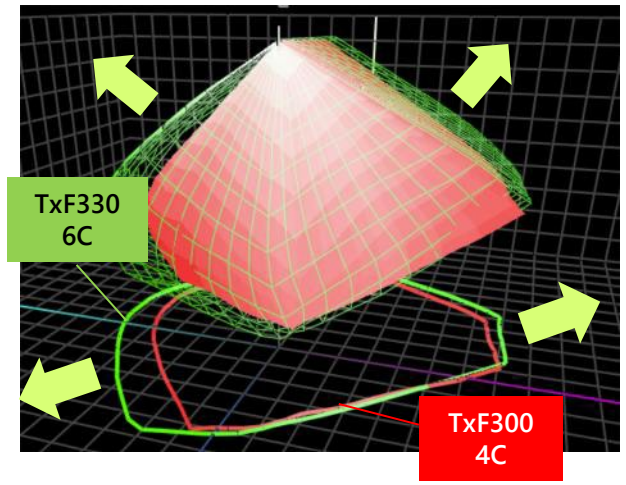
Color Gamut Expanded

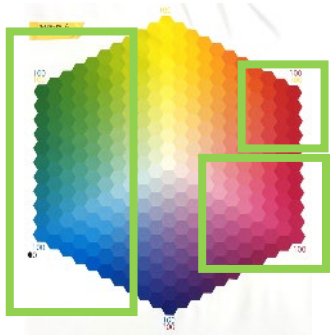
by 16%

High Saturation & High Density

with One Printer

With the addition of Sky Blue and Pale Pink, the color gamut expands by approx. 16% compared to 4C.





Vivid pinks and striking reds

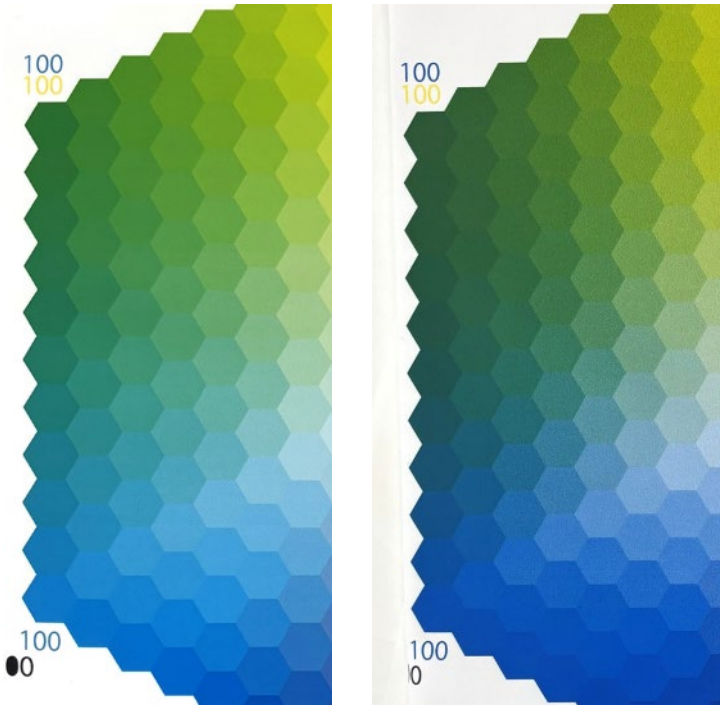
TxF330 6C | TxF300 4C



Pale Pink (PP) expands the gamut toward high saturation, enabling richer gradations.

Vivid greens and clear cyan

TxF330 6C | TxF300 4C



Sky Blue (SB) significantly widens the gamut, enabling brilliant color expression.

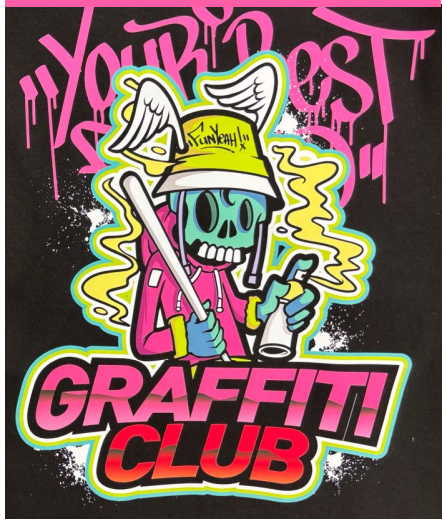
02 | High Color Vibrancy with New Colors

6C+W

600x1200 12P Bi,Hi 5.7sqm/h
(61.4sqft/h)



TxF330-800



TxF300-75



720x1080 8P Bi,Hi 5.8sqm/h
(62.5sqft/h)



Enables vivid, eye-catching pink tones
that are highly valued in T-shirt printing.

Areas that previously relied on higher ink density can now be reproduced with greater color saturation, creating more visually striking designs.

[Printing Conditions] Profile: TxF330-Generic,TxF300-Generic_sp Film: China film
[Pre-heat Conditions] 115 °C (239°F), 180 sec. [Transfer Conditions] 140 °C (284°F), 1st 15 sec., 2nd 15 sec.

02 | High Color Vibrancy with New Colors

6C+W

600x1200 12P Bi,Hi 5.7sqm/h
(61.4sqft/h)

TxF330-800

TxF300-75

720x1080 8P Bi,Hi 5.8sqm/h
(62.5sqft/h)











Achieves clear, vibrant blues that were previously difficult to reproduce.

Bright, fluorescent-like greens enhance visual impact and make designs more eye-catching.

[Printing Conditions] Profile: TxF330-Generic,TxF300-Generic_sp Film: China film
[Pre-heat Conditions] 115 °C (239°F), 180 sec. [Transfer Conditions] 140 °C (284°F), 1st 15 sec., 2nd 15 sec.

02 | High Color Vibrancy with New Colors

6C+W

Delivers sharper, more vibrant logo reproduction that strengthens brand presence and elevates overall design quality.

Original data



TxF330-800

600x1200 12P Bi,Hi 5.7sqm/h (61.4sqft/h)



TxF300-75

720x1080 8P Bi,Hi 5.8sqm/h (62.5sqft/h)



02 | Reduced Graininess / Smooth Gradients

6C+W

Photographic DTF

Achieve exceptional photo-quality reproduction with DTF.
Enhance the beauty of your subjects with rich tonal gradations.

Smooth skin transitions create seamless color blending from shadows to highlights, delivering stunningly realistic results.
Faithfully reproduces even the finest details, from individual strands of hair to delicate eyelashes.

Original data



TxF330-800

600x1200 12P Bi,Hi 5.7sqm/h (61.4sqft/h)





TxF300-75

720x1080 8P Bi,Hi 5.8sqm/h (62.5sqft/h)





02 | Reduced Graininess / Smooth Gradients

6C+W

Anime & Illustration Reproduction

Designed to meet the high fidelity standards required for anime merchandise and character-related production.

Minimizes the graininess that often appears in skin tones and facial features, while delivering smooth, natural gradations in hair color.

Original data



TxF330-800

600x1200 12P Bi,Hi 5.7sqm/h (61.4sqft/h)



TxF300-75

720x1080 8P Bi,Hi 5.8sqm/h (62.5sqft/h)





With 6C+W, achieve a higher level of print quality.

Mode	Resolution	Speed (sqm/h)	Speed (sqft/h)	Applications
Draft	600x600 6P	11.5	123.8	High-Productivity Applications
High speed 1	600x600 8P	8.5	91.5	
High speed 2	600x1200 10P	6.5	70.0	Balanced Productivity & Image Quality
Production	600x1200 12P	5.7	61.4	High-Volume Production
Quality	900x1200 12P	4.2	45.2	Photos & Fine Details
High Quality	1200x1200 16P	2.5	26.9	

Profile Name	Effect
Generic	Standard profile for general use; enables vivid color expression
Third-party	Designed considering each film's characteristics
"_d"	Enables high-density expression



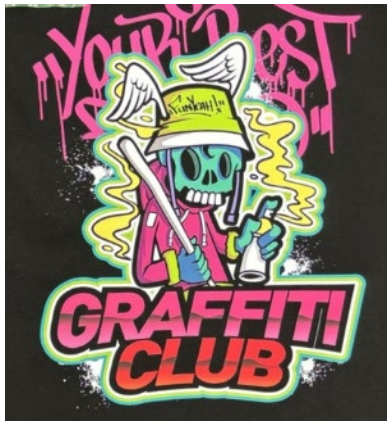
Draft



High Quality



Generic

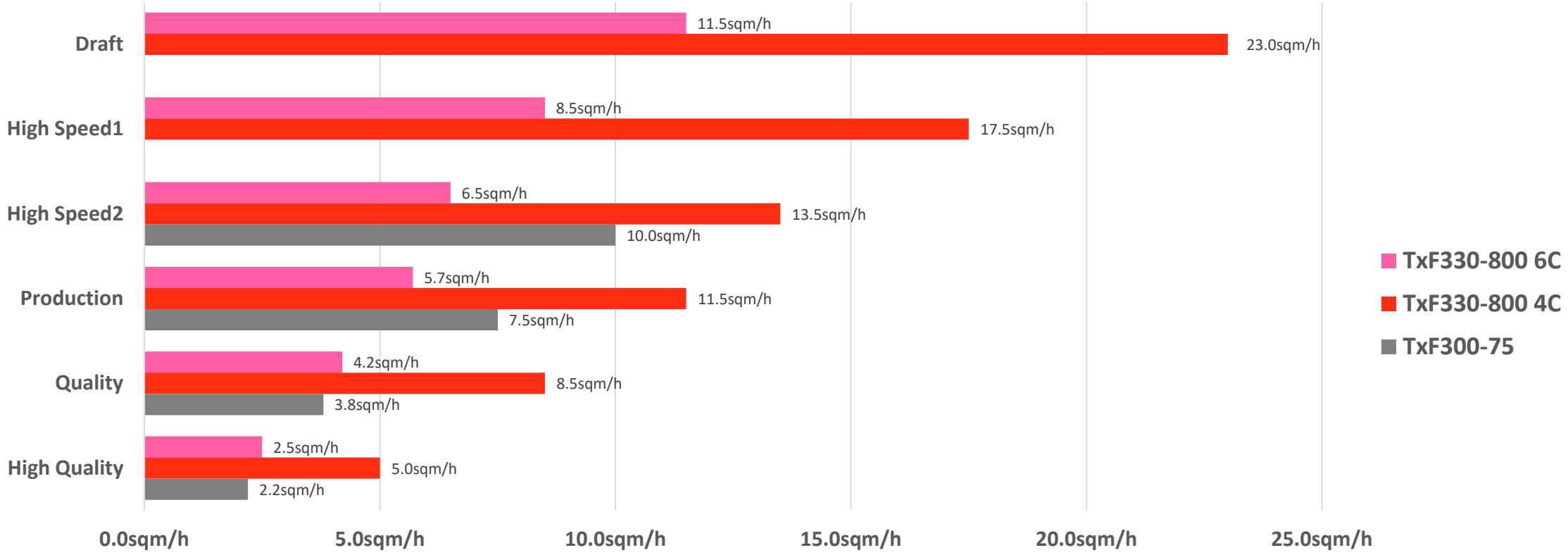


Generic_d

When deeper density is required, using the "_d" profile allows vivid and high-density output.

02 | Print Speed Comparison

6C+W



Print mode	TxF330 6C			TxF330 4C			TxF300		
Draft	600x600 6pass	11.5sqm/h	123.8sqft/h	600x600 3pass	23.0sqm/h	247.6sqft/h			
High Speed1	600x600 8pass	8.5sqm/h	91.5sqft/h	600x600 4pass	17.5sqm/h	188.4sqft/h			
High Speed2	600x1200 10pass	6.5sqm/h	70.0sqft/h	600x1200 5pass	13.5sqm/h	145.3sqft/h	720x720 4pass	10.0sqm/h	107.7sqft/h
Production	600x1200 12pass	5.7sqm/h	61.6sqft/h	600x1200 6pass	11.5sqm/h	123.8sqft/h	720x720 6pass	7.5sqm/h	80.8sqft/h
Quality	900x1200 12pass	4.2sqm/h	45.2sqft/h	900x1200 6pass	8.5sqm/h	91.5sqft/h	720x1440 12pass	3.8sqm/h	41.0sqft/h
High Quality	1200x1200 16pass	2.5sqm/h	26.9sqft/h	1200x1200 8pass	5.0sqm/h	53.8sqft/h	1440x1440 12pass	2.2sqm/h	23.7sqft/h

Feature

03

New mechanism





Keep Printing During Ink Replacement

New Features

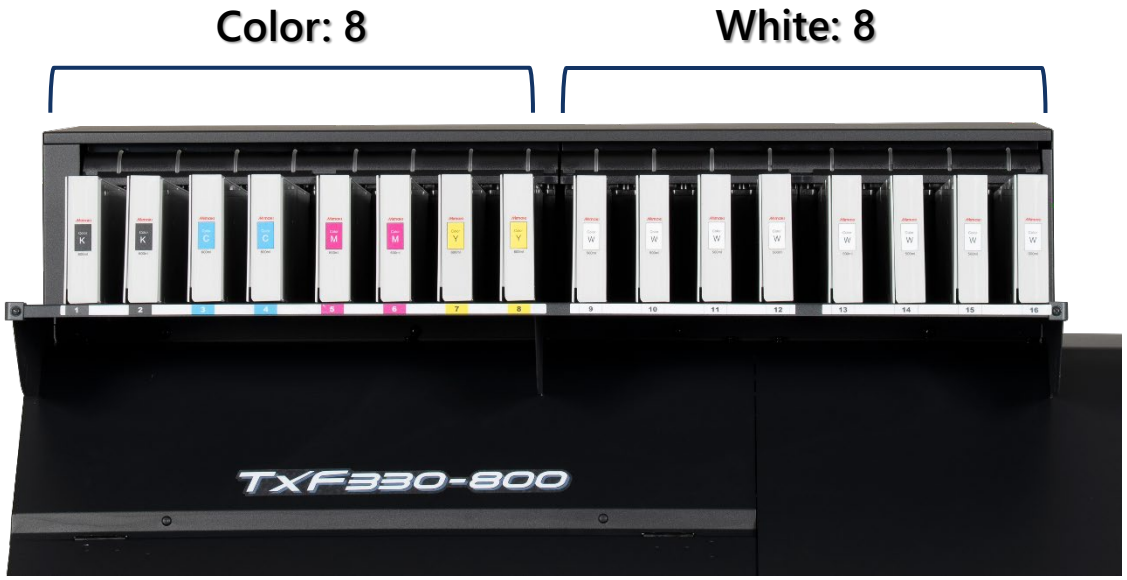
to Reduce Downtime

Feed Tension Control

Stable Quality for High-Speed, Long Runs

03 | Keep Printing During Ink Replacement

16 cartridges can be installed



Non-Stop Printing for a Full 100 m Film Roll

With up to 4 L of white ink capacity, even high-coverage jobs can be printed continuously for a full film roll. Enables uninterrupted operation, even for overnight long-run production.

Solid data

Data size: 300x400mm

Film: 800mmx100M

Print condition: 600x1200 6P 11.5sqm/h (123.8sqft/h)

Item	Value
White ink consumption per job	4.824cc
Prints per roll (300×400 mm)	666 sheets
Time to print 1 roll	6.9h
White ink consumption for cleaning during printing (once every 2 hours)	33.9cc/cycle
Total White ink consumption	3,314.5cc

03 | Keep Printing During Ink Replacement

UISS function (Uninterrupted Ink Supply System)
Ink can be replaced even during printing.

4C+W Color: UISS for all colors

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
K	K	C	C	M	M	Y	Y	W	W	W	W	W	W	W	W

6C+W Color: UISS for Magenta/Yellow only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
K	C	SB	PP	M	M	Y	Y	W	W	W	W	W	W	W	W

UISS (Uninterrupted Ink Supply System)
Since each set consists of two cartridges for color and four cartridges for White, when the cartridge in use runs out of ink, the system automatically switches to the other cartridge in the pair.

Red LED: Ink end

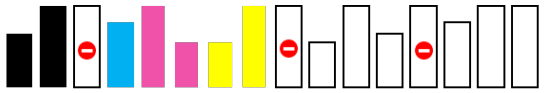
Blue LED: Cartridge in use



Remote＜Hot Peel＞

600×1200 6P/Bi /Hi /Vd

PRE	PRINT	POST
30°/30°	30°/30°	50°/50°



ADJUST HEATER LOCAL

Using

K

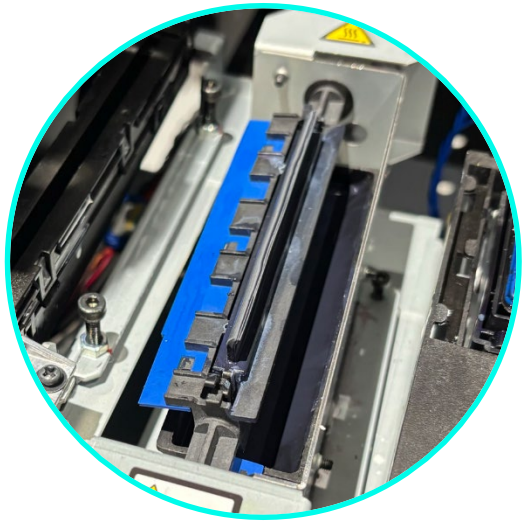
for active cartridges shown in blue

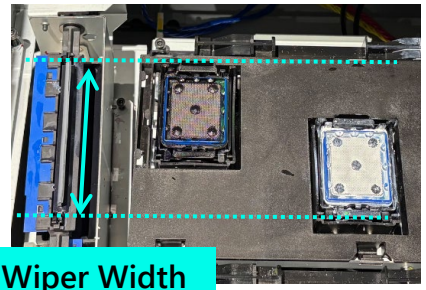
Print unavailable

when ink is depleted

Rotary Wiper for Easier Maintenance

The rotary wiper minimizes ink splatter during wiping and stays immersed in cleaning solution when not in use, reducing maintenance requirements and simplifying cleaning.

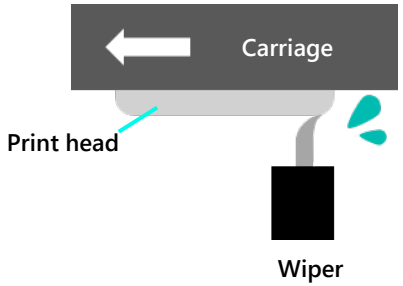




Wiper Width Covers Two Printheads

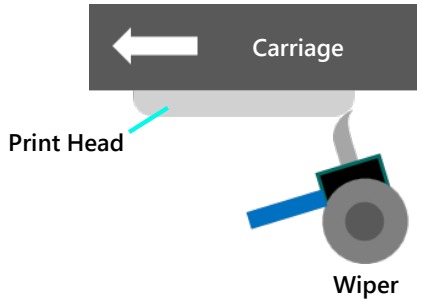
Ink Splash Reduction Mechanism

Conventional Wiper



Ink splatter during wiping can easily contaminate the carriage and maintenance station.

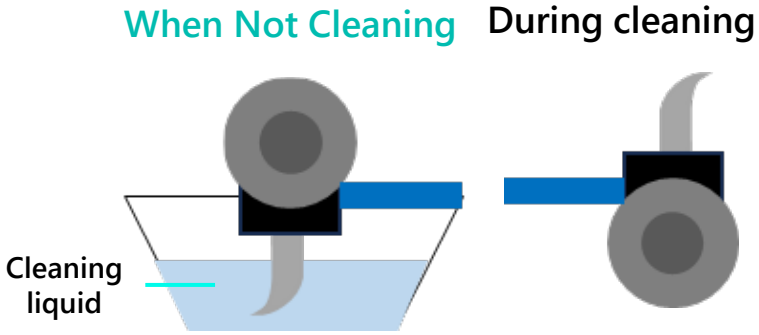
Rotary Wiper



Releasing pressure as the wiper finishes cleaning the printhead helps prevent ink splatter. This reduces carriage cleaning requirements.

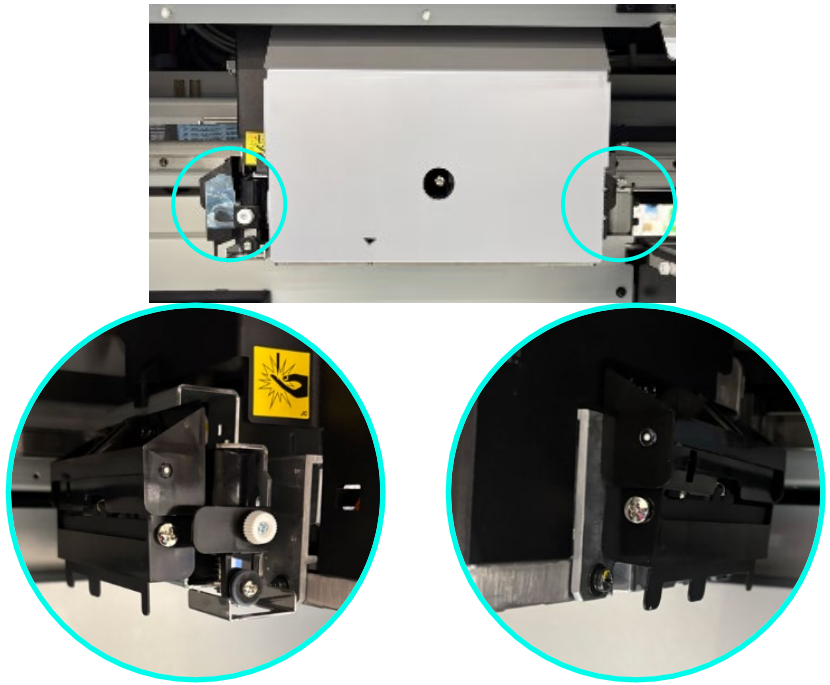
Easy Wiper Maintenance

When not in use, the wiper remains immersed in cleaning solution, making ink residue easier to remove and reducing maintenance effort.

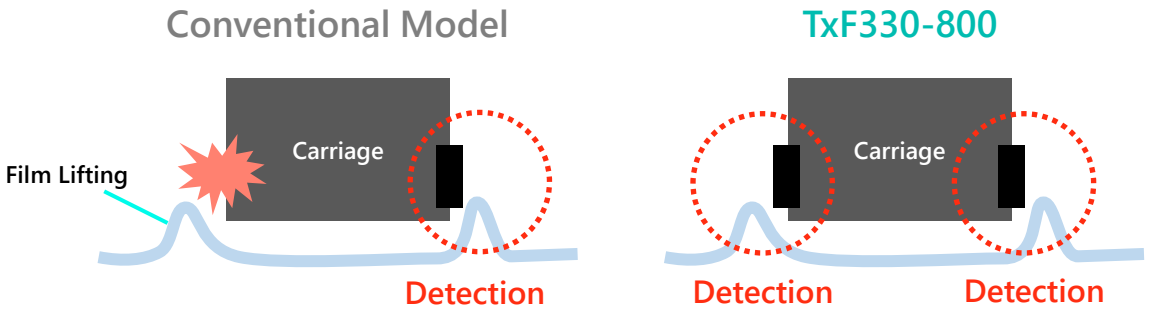


Dual Jam Sensors for Enhanced Printhead Protection

Equipped with jam sensors on both sides of the carriage. Printing is stopped before the printhead contacts the film, helping reduce the risk of printhead damage.



Detects Film Lifting from Both Sides



If film lifting occurs on the side opposite the jam sensor, it may go undetected.

Sensors on both sides enable early detection of film lifting, regardless of where it occurs.

Greater Reliability Than Competing Models

Machine	Mimaki TxF330-800	EPSON SC-G6000	Roland TY-300
Number of Jam Sensors	2	-	-

03 | Stable Quality for High-Speed, Long Runs

New mechanism

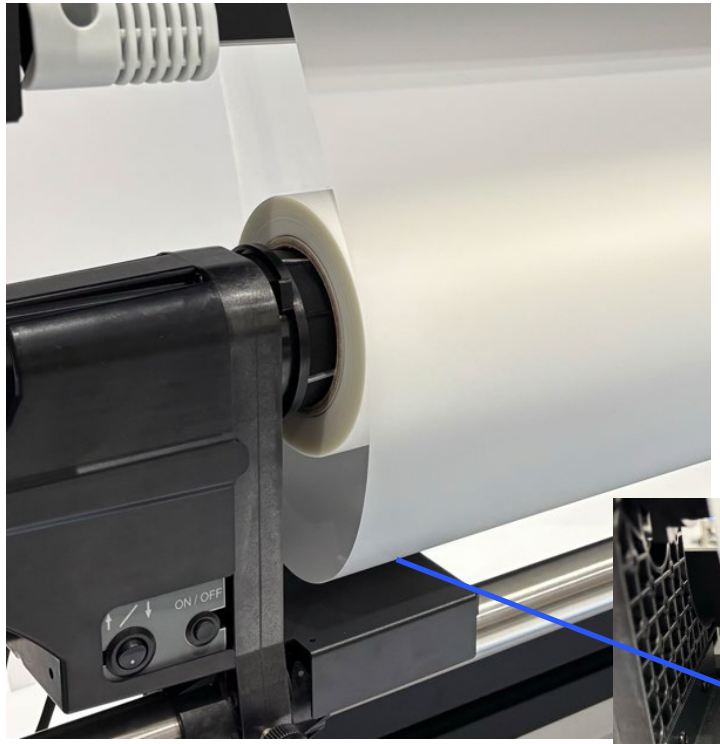
MFT(Mimaki Feed tension Technology)

Default: OFF

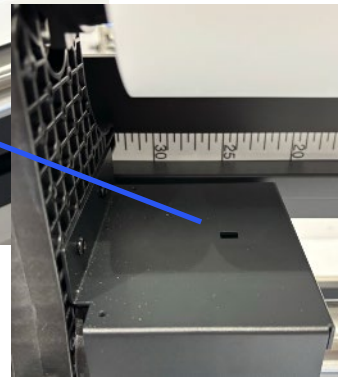


Film is transported under tension (traditional method).

MFT/ON



Film is transported without tension, using a constant feed amount.



High-speed × Long-length × Stable image quality

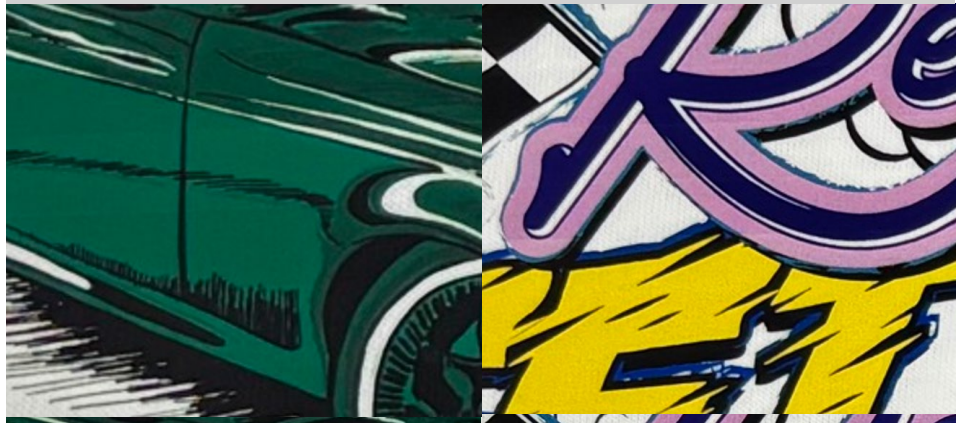
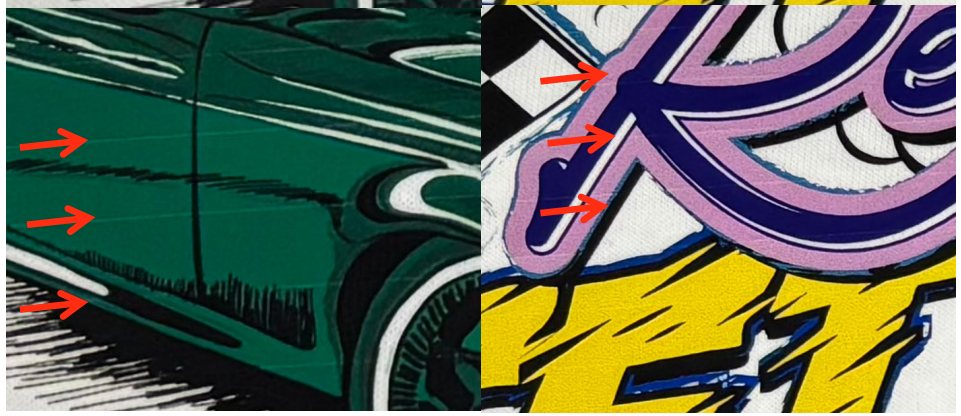
Allows film transport with a constant feed amount without applying tension.

In high-speed printing—where each feed amount tends to be large—feed misalignment is more likely to occur. However, even during long-length output, the system maintains high-precision image quality.

03 | Stable Quality for High-Speed, Long Runs



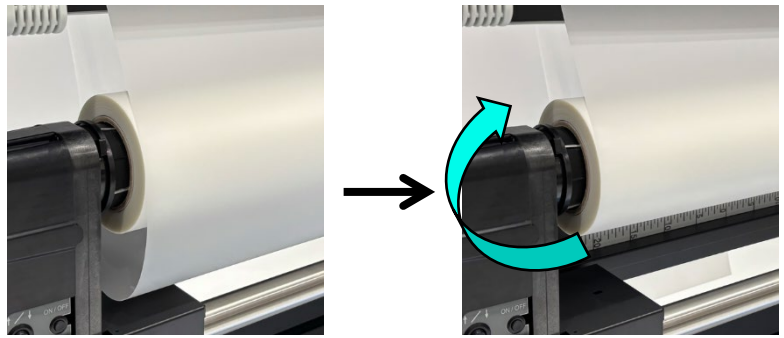
4C+W High Speed 1 : 600x600 4P Bi,Hi 17.5sqm/h (188.3sqft/h)

	MFT/OFF	MFT/ON
Start of output		
After 80 m of output		
	At the beginning of output, feed alignment is correct. Over long lengths (e.g., 80 m), small misalignments accumulate and become visible—especially in solid areas.	Film is transported with a constant feed amount. Misalignment is greatly reduced. Image quality remains stable even with long output

*Please note that test results may differ depending on printing conditions and profiles.
*Output results may vary depending on the combination and compatibility of the film and powder used. Prior testing is recommended.
*The above results are based on Mimaki's in-house evaluation and Mimaki does not guarantee the content.

Key Points for MFT | Creating a Job

In MFT Mode, Backfeed Is Applied for Each Job to Prevent Skew

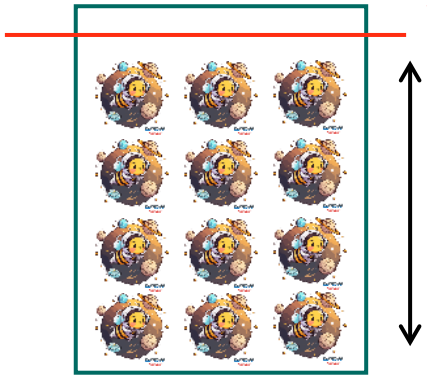


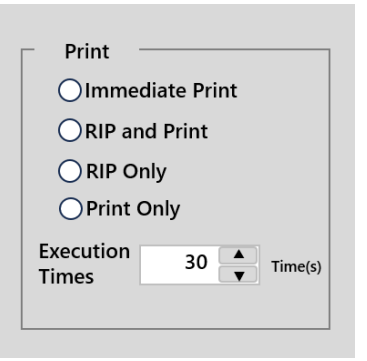
If feeding continues while film slack remains, the film may skew. Backfeed is applied to each job within 1 m to remove slack and help prevent skew.

!

Create Each Job Within a 1 m Feed Length

Because back-tension must be applied within 1 meter:
Create data with a length within 1 meter.
When outputting the same data repeatedly, control the total length by the execution times.





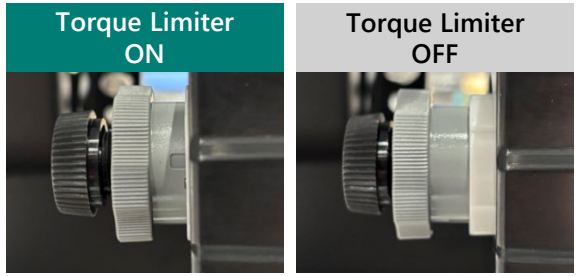
Although printing speed itself does not change, back-feed control is applied after each job, resulting in a total productivity decrease of approximately 10–20%.

*The closer each job is to 1 meter, the smaller the productivity loss.

Key Points for MFT | Setup

Use with the Torque Limiter ON for Backfeed Operation

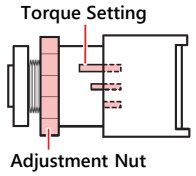
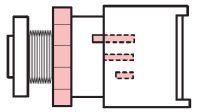
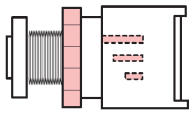
Insert fully and tighten the screw securely.



Turn the adjustment nut to adjust the torque strength.

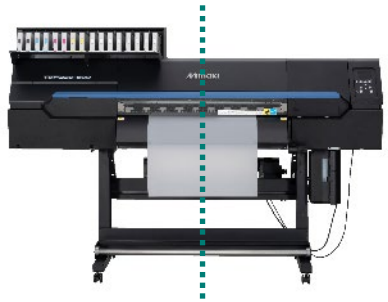
*When operating with MFT OFF (default setting), always remove the torque limiter.

*Excessive torque may prevent proper feeding and can affect print quality.

Torque Level	Low	Medium	High
Reference Torque Setting			
Usage Mode	-	MFT Mode	MFT Mode with Slippery Films

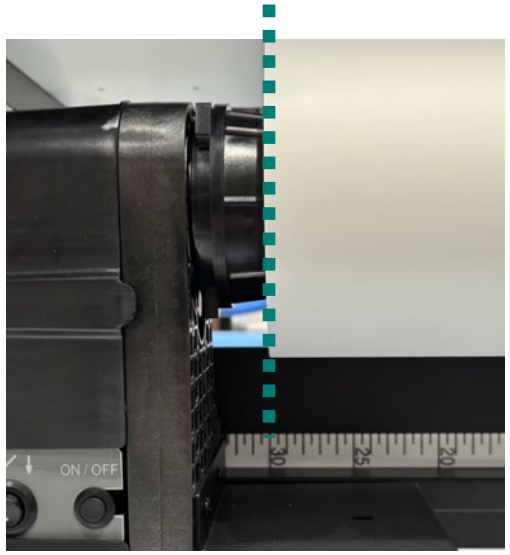
Center-set the film to reduce skewing

Centering the film ensures even pressure from the pinch rollers, helping reduce skew.



Align the film so that both edges are positioned at half the media width from the centerline.

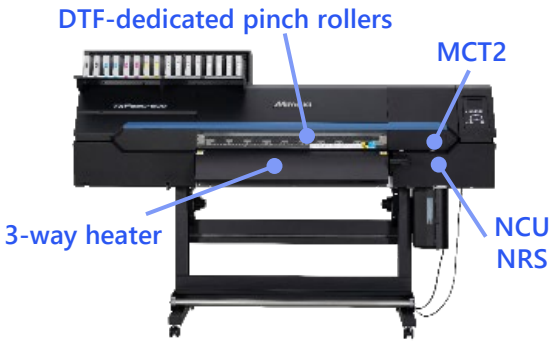
Example: For a 600 mm wide film, position the film so that each edge is 300 mm from the centerline.



Reliable Mimaki brand

Reliable & Stable Functions

Functions inherited from the TxF series for stable operation



Genuine DTF ink

Environmentally conscious, high-quality ink

OEKO TEX®



Software

Supporting efficient operation with convenient features

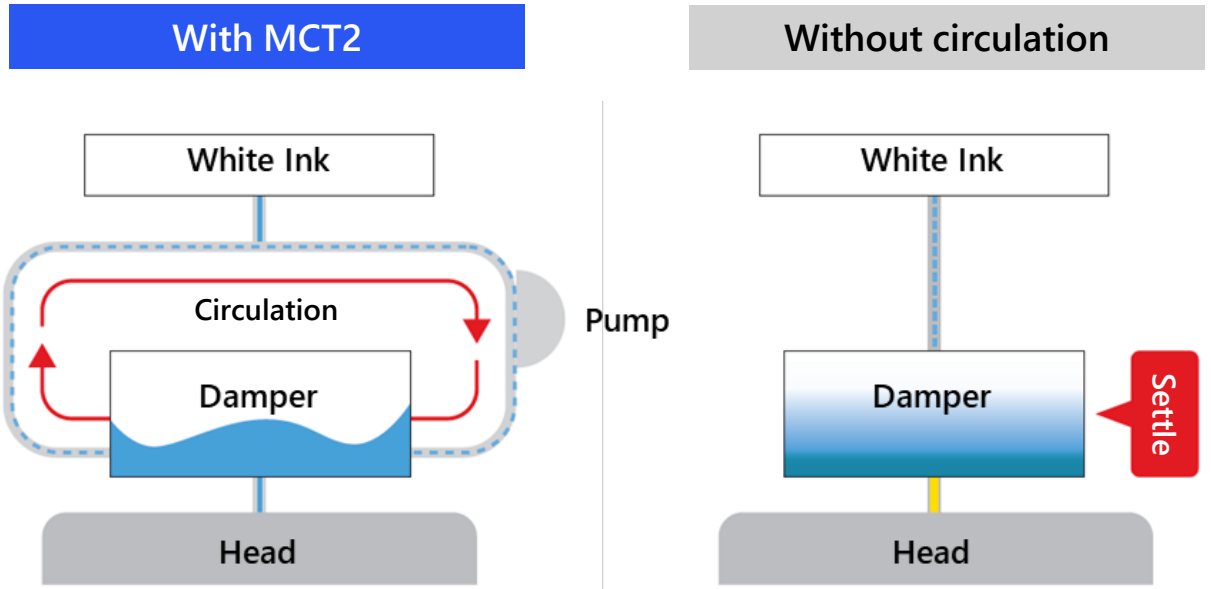
Raster Link 7

Mimaki Cloud Technology PICT

MCT2(Mimaki Circulation Technology2)

White ink easily settles and tends to clog nozzles. With MCT2 (Mimaki Circulation Technology 2), white ink is circulated up to the damper (the filter above the printhead).This keeps the ink constantly agitated so non-settled ink is supplied.

Because ink inside the damper is not discarded, waste is reduced.
Circulation extends close to the nozzles, improving discharge stability.



Non-sedimented white ink is supplied, enabling stable output.

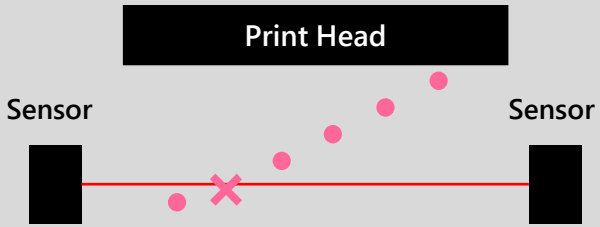
Ink sediment collects in the damper, increasing the risk of discharge failure.

Reliable & Stable Functions | NCU & NRS Coordination

NCU(Nozzle Check Unit)

Automatically detects nozzle conditions. If nozzle clogging is detected, automatic cleaning is performed to restore discharge.

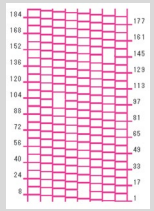
The sensor checks whether light passes through.
If light passes, it is judged that ink is not being discharged.



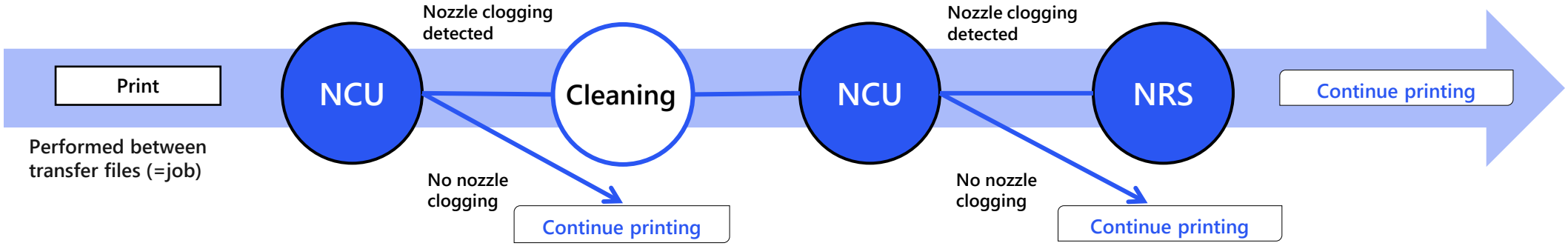
NRS(Nozzle Recovery System)

If a nozzle issue cannot be resolved even after cleaning, the system automatically substitutes the faulty nozzles with functioning ones, allowing work to continue without waiting for a technician.

Nozzles that fail to discharge are replaced with alternate nozzles. Automatically configured based on NCU readings.

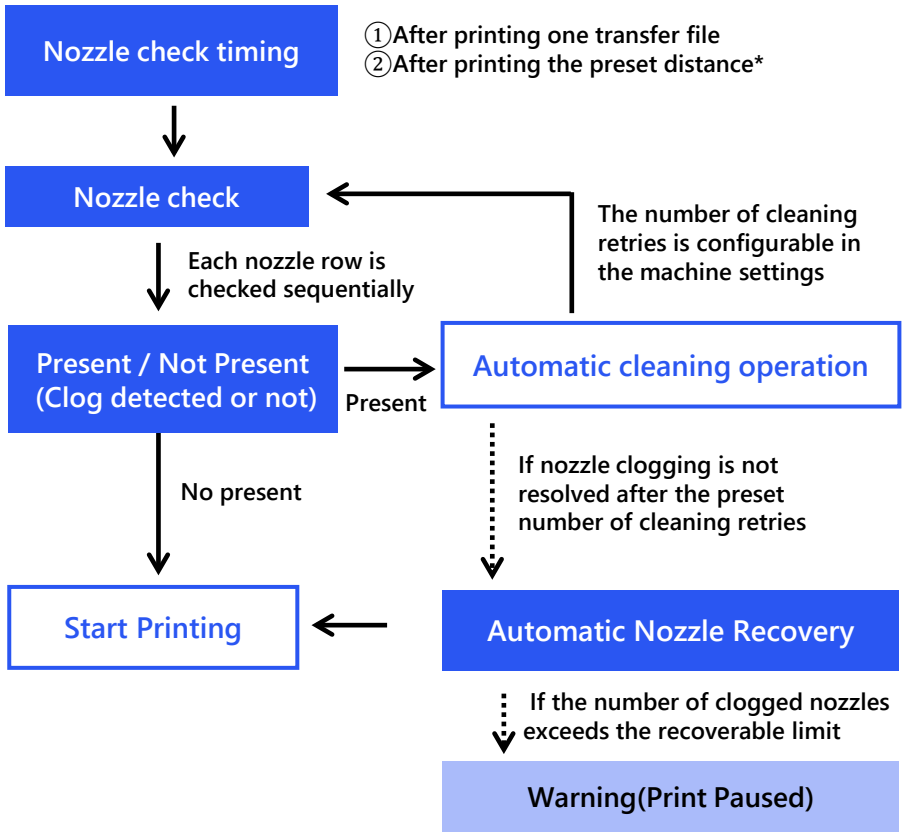


← Faulty nozzles substituted by other nozzles



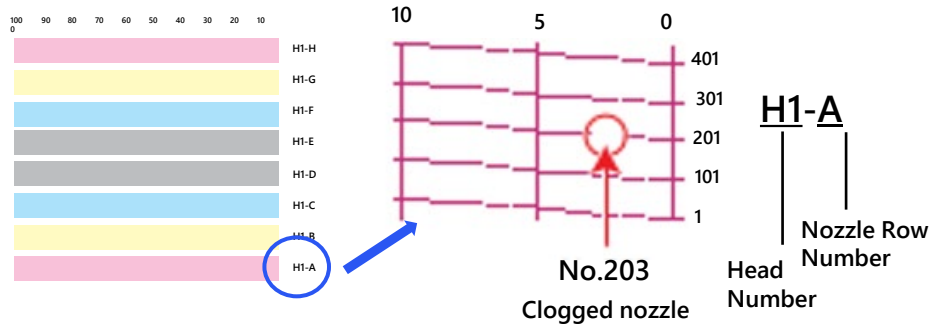
Reliable & Stable Functions | NCU & NRS Coordination

NCU Operation flow

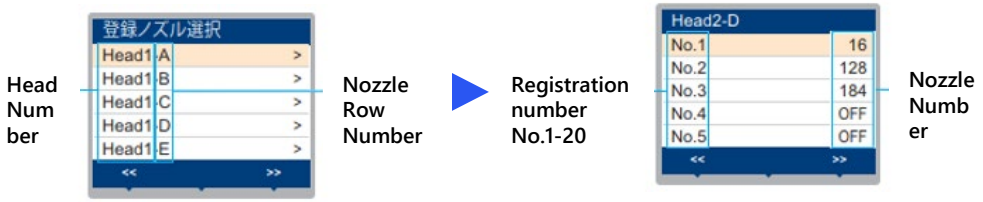


Manual NRS Registration

1 Print the nozzle-recovery pattern



2 Register the clogged nozzle numbers in the machine
（Up to 20 nozzles per row can be registered）



Registered clogged nozzles are not used;
substitute nozzles are assigned automatically

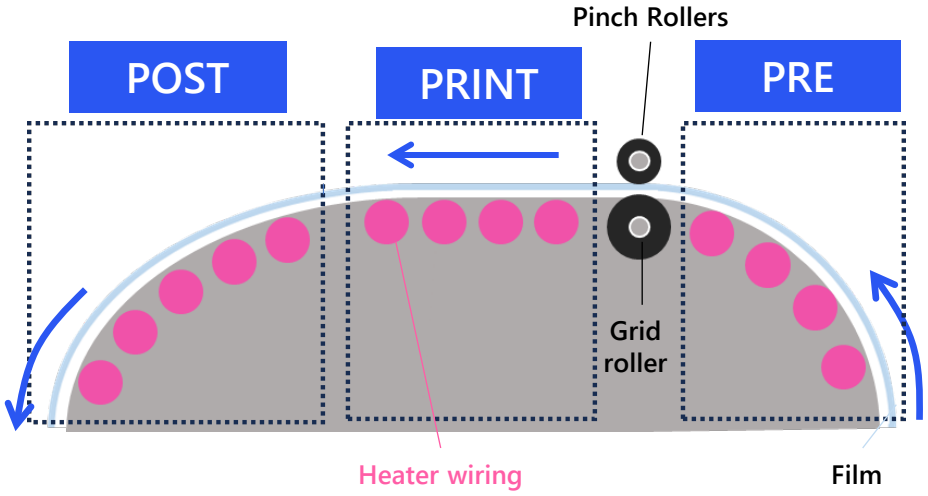
*If a check by print length is specified and the check is executed in the middle of a drawing, color variable before and after the check may occur.

Reliable & Stable Functions | 3-Way Intelligent Heater & Dedicated Pinch Rollers

3-Way Intelligent Heater

Each heater is independently controlled

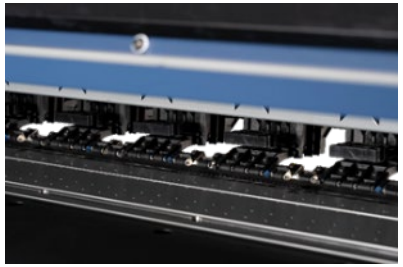
PRE: Pre-heats film to reduce sudden temperature changes
PRINT: Controls dot size and suppresses bleeding
POST: Promotes drying of printed ink



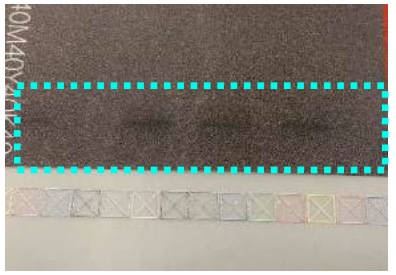
TxF330 Dedicated Pinch Rollers

DTF-specific pinch rollers have been upgraded.

They provide both light pressure and strong grip, while offering improved strength and durability. Because they do not wear down easily, they can be used for long periods (approximately five years of equivalent use).



General pinch rollers



Dedicated pinch rollers



DTF films are often thin and slippery, and using strong pressure with general pinch rollers can leave roller marks. With DTF-dedicated pinch rollers, the film is held securely without leaving marks.

Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50

ECO PASSPORT-certified Ink

All colors have obtained ECO PASSPORT certification, proving compliance with the world's highest safety standards such as the EU REACH regulation.
This ensures safe and reliable use.

OEKO-TEX®
INSPIRING CONFIDENCE
ECO PASSPORT

Environment-friendly Eco Cartridge

To reduce waste and plastic usage, an eco-cartridge system is adopted, allowing the outer cartridge to be reused while only the inner ink pack is replaced.
When the remaining ink becomes low, the ink pack can be folded so that the ink can be used completely without waste.

Mimaki Green Technology



Supply Format:
C/M/Y/K/SB/PP: 600 ml ink pack
White: 500 ml ink pack

Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50

Fastness test results

Item	Tests		PHT50						
			C	M	Y	K	SB	PP	White
Light fastness	ISO-105 B02	Color Change	6	6	6	6	6	6	6
Washing	ISO 105 C06B1S	Color Change	4-5	4-5	4-5	4-5	4-5	4-5	4
		Staining	4-5	4-5	4	4-5	4-5	4-5	4-5
Sweat	ISO 105 E04 Acid	Color Change	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Staining	4-5	4-5	4-5	4-5	4-5	4-5	5
	ISO 105 E04 Alkali	Color Change	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Staining	4-5	4-5	4	4-5	4-5	4-5	5
			5	4-5	4	4	4-5	4-5	5
Water	ISO 105 E01	Color Change	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Staining	4-5	4-5	4-5	4-5	4-5	4-5	5
Dry Cleaning	ISO 105 D01 Perchloro-ethylene	Color Change	4	4	4-5	4	4-5	4-5	4-5
		Staining	4	4-5	4-5	4-5	4-5	4-5	5
Rubbing	ISO 105 X12	Dry	4-5	4-5	4-5	4-5	4-5	4-5	4-5
		Wet	4-5	4-5	4-5	4-5	4-5	4-5	4-5

Nissenken Quality Evaluation Center Test Results

【Evaluation conditions】
Model: TxF330-800
Print mode: 600x1200dpi/12pass/BiHi/DeepColorNatural
Profile: Generic
Heater: Pre/Print/Post=40/40/40℃

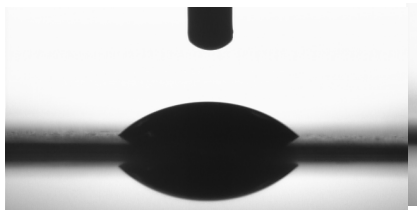
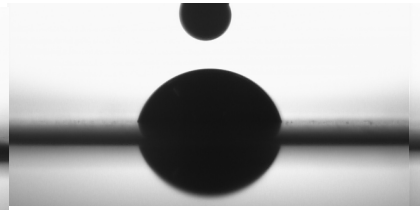
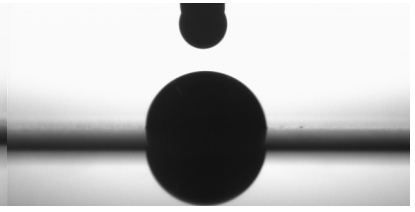
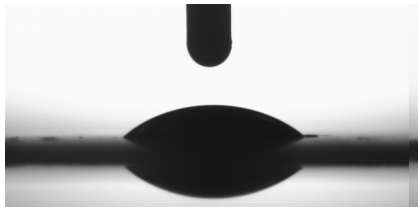
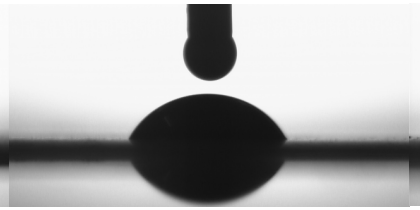
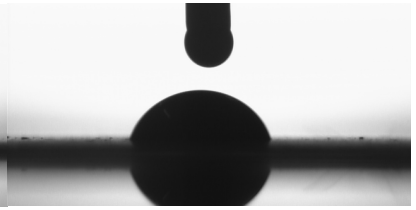
Drying temperature: 150℃, 120sec
Transfer condition: 140℃, 15s-15s
Fabric: 100% Cotton
Film: DTF TF14 (Europort)
Powder: DTF PWD03 (Europort)

*Please note that test results may differ depending on printing conditions and profiles.
*Test results will vary depending on the combination and compatibility of film and powder used, and drying/transfer conditions. Prior testing is recommended.
*The above results are based on tests conducted by the Nissenken Quality Evaluation Center, which does not guarantee the contents.

Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50

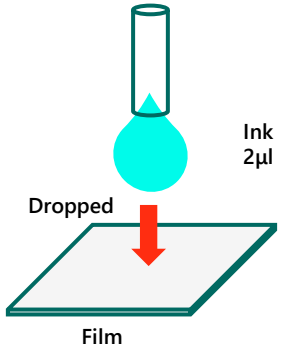
High Film Compatibility

PHT50 ink achieves excellent spreading even on films where competitive inks tend to repel.
→ This means high color density and high image quality across a wide variety of films.

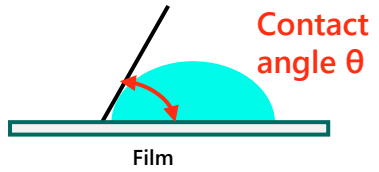
	PHT50	Company A DTF Ink	Company B DTF Ink
China Film	 θ:42.1°	 θ:71.7°	 θ:85.8°
Europort Film	 θ:38.7°	 θ:58.8°	 θ:70.4°

【Measurement Conditions】

Instrument: Automatic contact angle meter DM-701
Droplet volume: 2 μL
Temperature: Room temperature



Measurement at 11 seconds after droplet landing



Contact Angle Behavior
A smaller contact angle (θ) = ink spreads more easily → dots merge smoothly → higher color density.
A larger contact angle = ink does not spread → dots remain separate → banding appears easily, white layer becomes visible, and color looks thin.

*The above results are based on Mimaki's in-house evaluation and Mimaki does not guarantee the content.

Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50

Maintains Print Quality Even After 20 Washes

TxF330-800 4C+W

Before Washing



After 20 Washes



TxF330-800 6C+W

Before Washing



After 20 Washes



Virtually no cracking and only slight color fading were observed after 20 washes. Provides stable, consistent quality with reduced risk of quality issues.

Test Results with Various Film & Powder Combinations

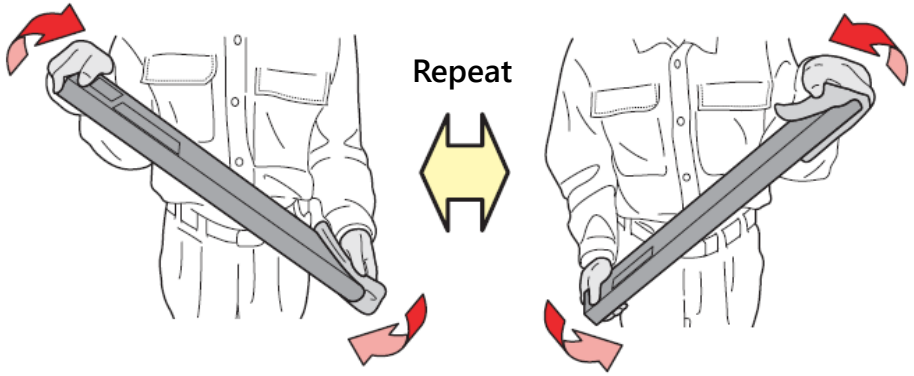
No.	Vender	Film & Powder	Quality After 20 Washes	
			Cracking	Color Fading
1	RB digital	• RB Onyx DTF Hot peel • DTF White Fine Powder	None	Slight
2	STS Inks	• Hot & Cold Peel V8 • P-6 DTF Transfer Low Migration Powder	None	None
3	KODAK	• KODACOLOR FTF Film • KODACOLOR FTF Powder	None	Slight
4	B-flex	• BFDTF60100HD Instant peel • HOT MELT POWDER GLUE	None	Slight
5	XIN FLYING (China Film)	• XIN FLYING Double side Hot peel • DTF Powder	None	None

[Printing Conditions] Profile: Generic [Machine Heater] Pre/Print/Post＝35℃/35℃/45℃
[Pre-heat Conditions] 115 °C (239℉), 180 sec. [Transfer Conditions] 140 °C (284℉), 1st 15 sec., 2nd 15 sec.
[Washing Conditions] Reference standard: JIS L 1930 / ISO 6330, Washing machine: Type C, Water temp.: 40±3℃
Detergent: JIS L 1930 standard detergent, Process: Wash 6min.→Spin 3min. →Rinse 2 times →Spin 3min.

*Please note that test results may differ depending on printing conditions and profiles.
*Output results may vary depending on the combination and compatibility of the film and powder used. Prior testing is recommended.
*The above results are based on Mimaki's in-house evaluation and Mimaki does not guarantee the content.

Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50 –Daily maintenance

Ink Cartridge Agitation



Hold firmly with a paper towel and shake slowly.

White Ink: 40times

Required when:

- 24 hours have passed since power-on
- Warning message “Shake White Cartridge” appears
- More than 3 days have passed (shake 100 times)

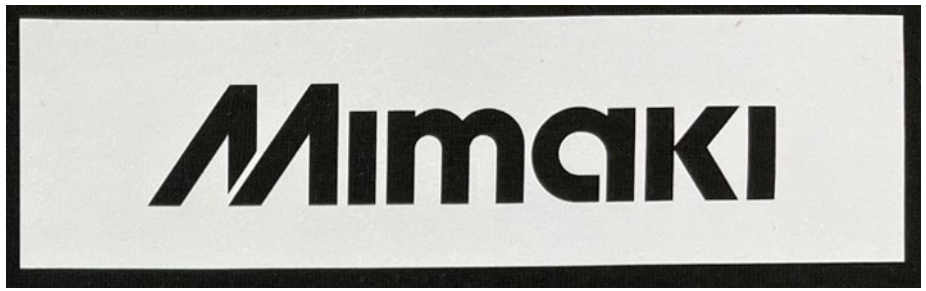
Color Ink: 20times

- Once a week before starting work

!

White ink settles more easily than other inks, and if not agitated, density irregularities are likely to occur.

When used after shaking more than 40 times



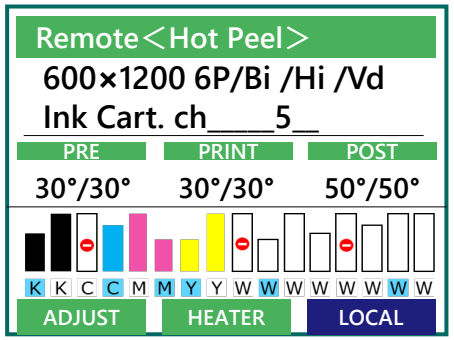
When used without shaking for one week



Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50 –Daily maintenance

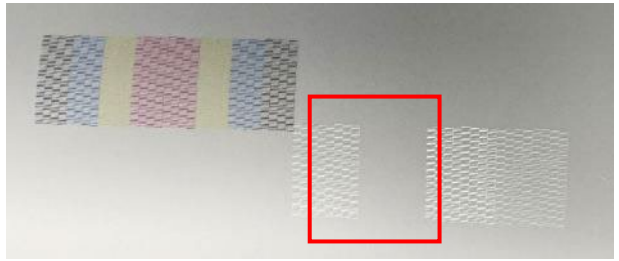
When ink in the cartridge drops below 100 ml:

Ink cartridge check is displayed

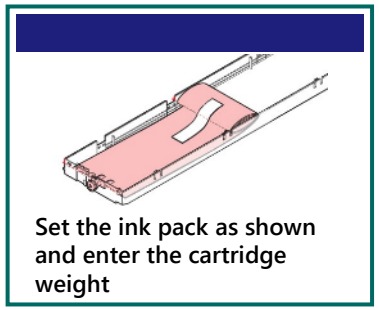


!

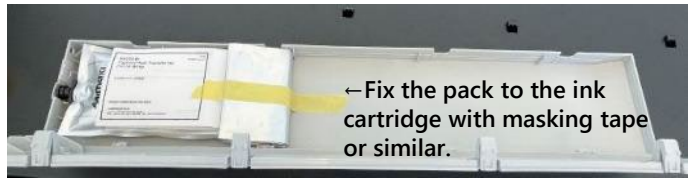
When printing continues without folding the ink pack...
There is a risk that ink may not be dispensed.

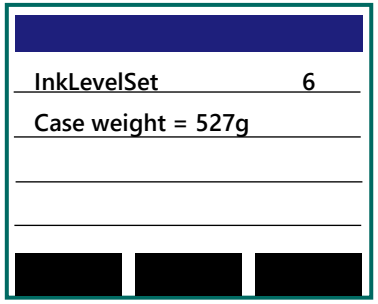


Folding the Ink Pack



1 Open the cover of the eco cartridge and fold the ink pack.





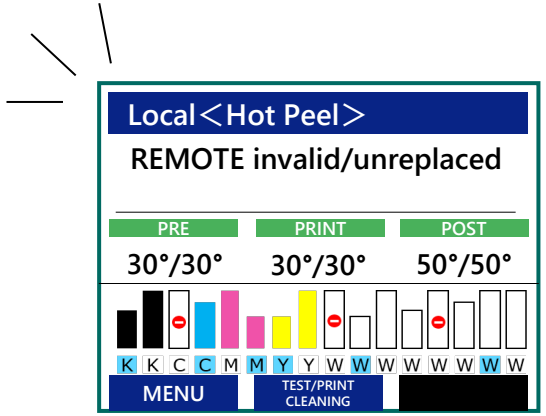
2 Measure the weight of the entire eco cartridge including the ink pack and enter the measured weight and press the [ENTER] key.



Genuine DTF Ink | Heat-Transfer Pigment Ink PHT50 –Daily maintenance

If an Unusable Ink Cartridge has not been replaced for an extended period

“REMOTE invalid/unreplaced” Message Appears



!

Ink cannot be supplied if the cartridge is left unreplaced, which may cause ink to remain in the affected ink path.

Replace the Unusable Cartridge with a New Ink Cartridge

If replacement cannot be made immediately

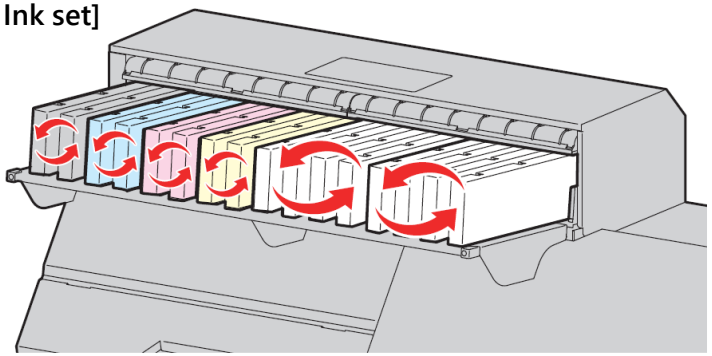
Color Ink

4C+W: Swap the left and right cartridges
6C+W: Only M and Y cartridges can be swapped

White Ink

1 Set Consists of 4 Cartridges.
Swap the warning cartridge with a normal cartridge.

[4C+W Ink set]



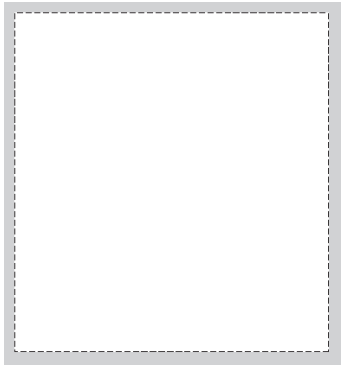
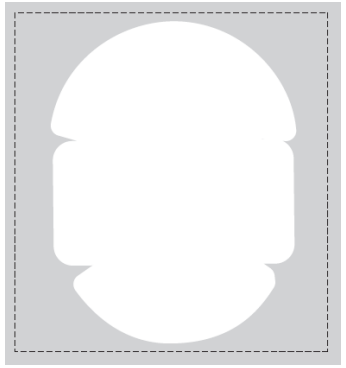
*The error will reappear after approximately one week.
Replacement with a new cartridge is recommended.

1. Spot Color Plate Generation

Even without design-side spot-color settings, spot plates can be created easily within the RIP.

Original Data



Area Specification	Whole Image	Valid Pixel	Valid to non background
	Apply spot color to entire image	Apply only where color exists	Apply only to non-background areas including white (CMYK100%)
Spot Color Plate Image			
Combined Image with the Color Layer			

*Only when the image data format is EPS, PS, or PDF and the color (including white) is specified in the data section.

2. Variable Printing

Ideal for sports uniforms where player names and numbers differ.



Just prepare:
Template data, CSV file

Name	Number
HANAKO	33
TARO	12





3. Layer Adjustments

The size and position of the white layer can be finely adjusted. Useful for correcting plate misalignment and adjusting the data.

Original Data



Size correction



Shrink:
decrease inward



Expand:
increase white layer outward

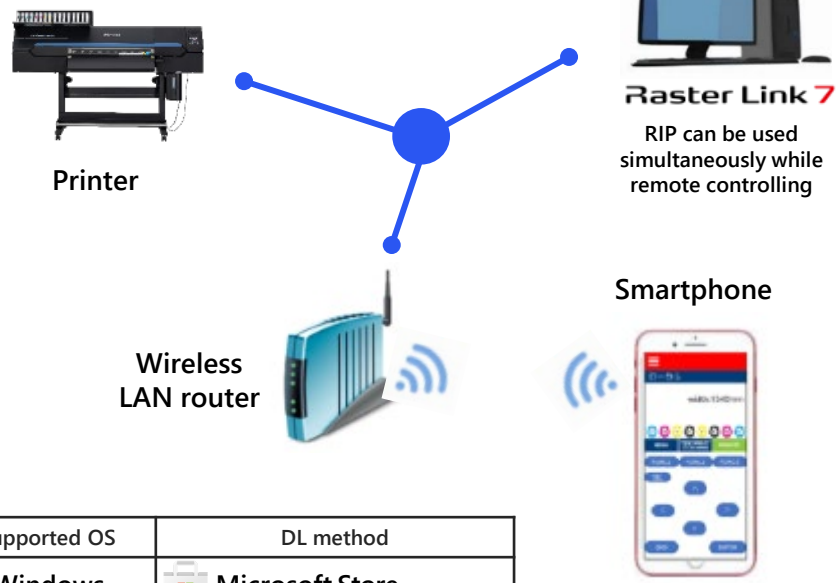
Position correction



Scan:
Increase value to move left, decrease value to move right
Feed:
Increase the value to move to the back, decrease it to the front

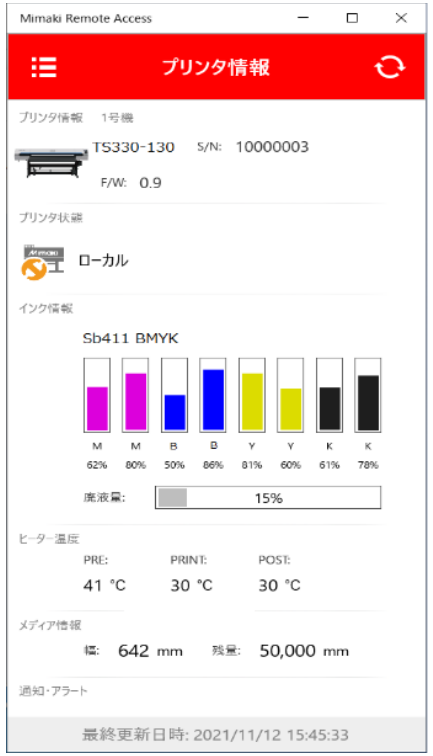
Software | Mimaki Remote Access

Remote control allows you to operate the unit from a distance



Supported OS	DL method
Windows	Microsoft Store
iPhone	App Store
Android	Play Store Ver. 1.2

Check ink levels and heater temperatures



Same UI as the actual panel

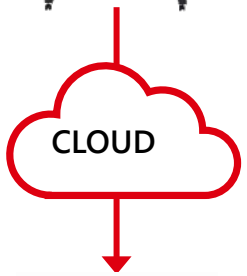


Smartphone screen display image

Mimaki Cloud Technology PICT

Monthly operation status reports to support planned operations

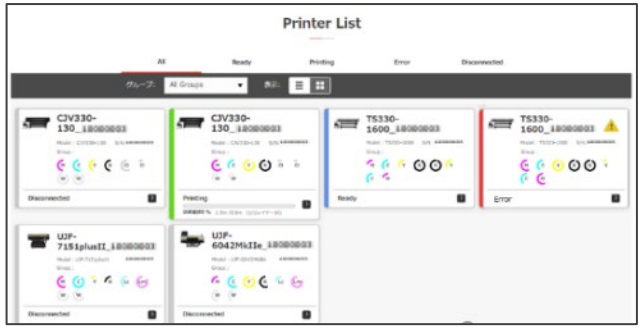


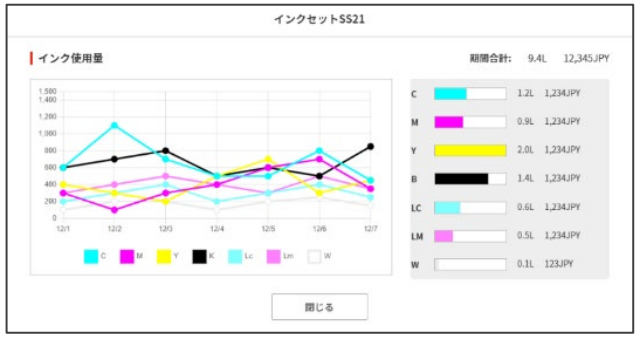




＊notification upload from printer to cloud approximately every 5 minutes.
Print start/end uploads in about 1 minute.

Visualize printer operating status and ink consumption

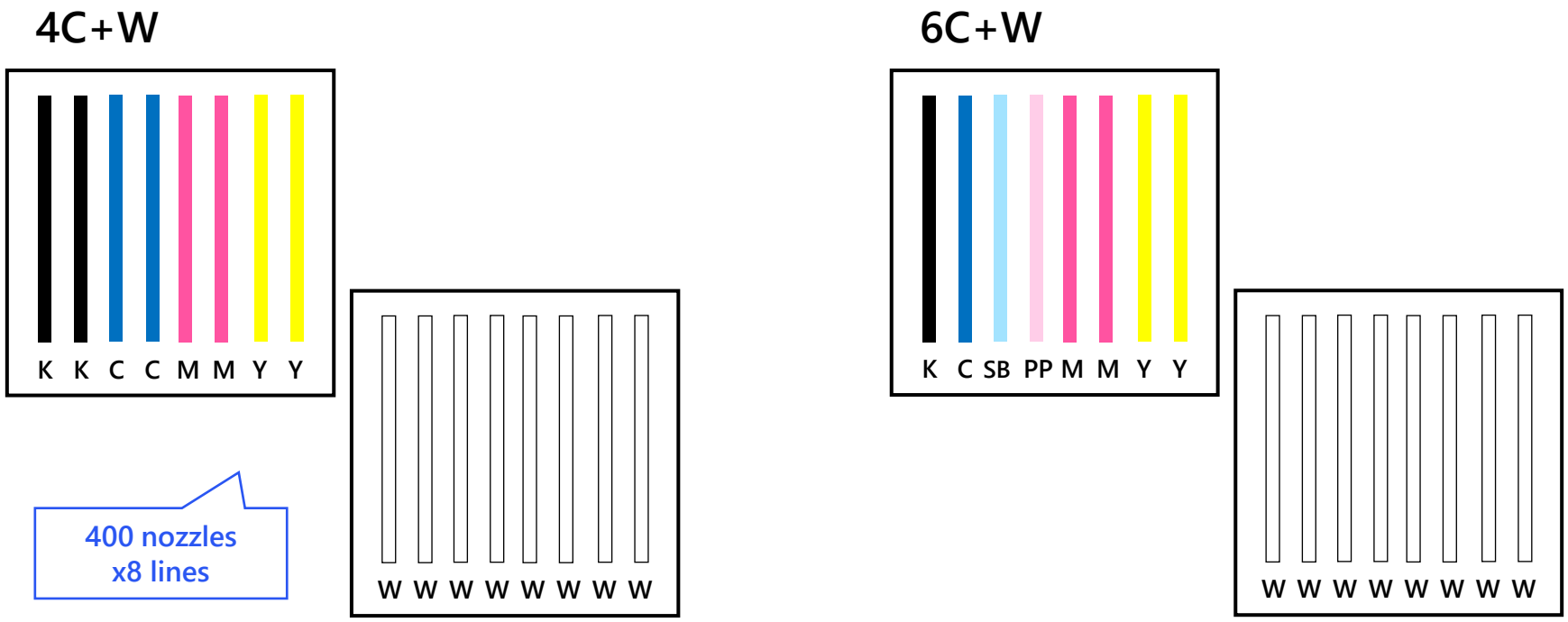




View usage records by printer or by group



Head Configuration



Supported Inks	Ink Set		Ink capacity
Thermal transfer pigments PHT50	4C+W	C/M/Y/K+W	Color: 600 ml Ink pack White: 500 ml Ink pack
	6C+W	C/M/Y/K/SB/PP+W	

System configuration

〈RIP PC〉



RasterLink7 Recommended Specs
OS: Windows 10® Pro 64bit
CPU: Intel® Core™ i5-4670K 3.4GHz
Memory: 8GB or more
HDD: 1TB or more
Interface: *Ethernet (1000BASE-T) or USB2.0

Connection
Recommended: Ethernet / (USB2.0)

TxF330-800 System configuration

＜Machine price＞
TBD

＜Standard Attachments＞
1. Printer
2. RIP Software Raster Link7
3. 16 Eco Cartridge Cases



DTF Ink

＜Ink＞
Heat Transfer Pigment ink PHT50

<Color set＞
4C+W : K/K/C/C/M/M/Y/Y/W/W/W/W/W/W/W/W
6C+W : K/C/SB/PP/M/M/Y/Y/W/W/W/W/W/W/W/W

＜Supply＞
Eco cartridge Aluminum pack　Color: 600ml　White: 500ml





Design software



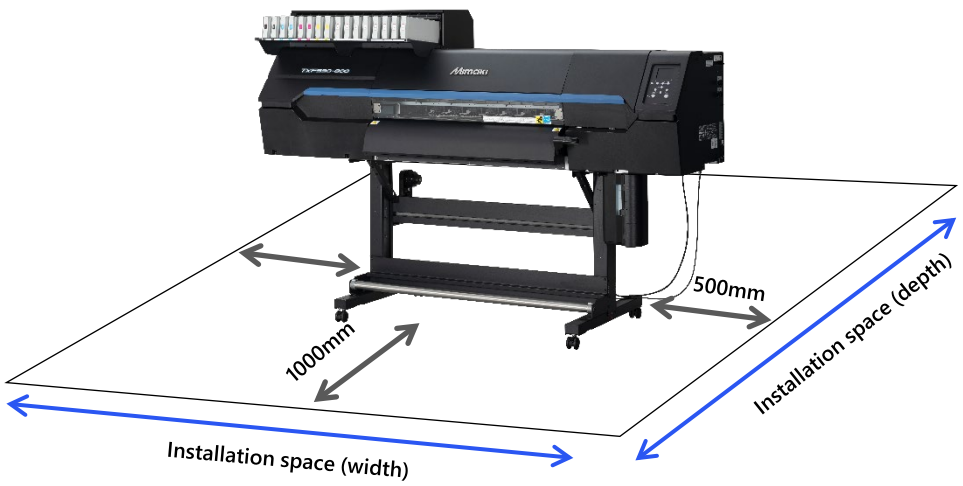




PS,EPS,TIFF,BMP,JPEG,PDF

*Please use at least a category 6 (Cat6) network cable.
*Connection via a router is not supported.
*When connected via USB, the printing speed may decrease depending on the output data. Ethernet connection is recommended.
*To print via Ethernet, the printer and the PC must be connected to the same network (a direct connection between the PC and the printer is recommended).
*When using a switching hub, please use a 1000BASE-T compatible device.
*Up to 4 printers can be registered, but printing may stop depending on the network environment.

Installation space/Operational environment



Item	Width	Depth	Height	Weight
Installation space	3,084 mm	2,700 mm	1,389 mm	161 kg
Outside dimension	2,084 mm	700 mm	1,389 mm	161 kg
Packing size	2,240mm	922mm	986mm	204kg

Operational environment	Temperature/Humidity
Usable environment	20~30 °C (68~86 °F) 35~65% Rh (No condensation)
Accuracy guaranteed	20~25 °C (68~77°F)

Precautions

- Do not install this machine in locations where dust or powder is present. Failure or printing defects may result (e.g., nozzle clogging, deflection) if dust gets inside the machine.
- Do not install this machine in locations exposed to drafts (e.g., from air conditioning) or dust or powder may get inside the machine.
- Do not install this machine in unstable locations or locations subject to vibration. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to direct sunlight.
- Do not install this machine in locations subject to sudden temperature changes. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to excessive noise from large machinery.

Main unit specifications

Item		TxF330-800	
Print head	Number	2head（staggered）	
	X,Y resolution	X:600, 1,200 dpi　Y: 600, 900, 1,200 dpi	
Ink	Supported Inks	Heat Transfer Pigment ink PHT50	
	Ink capacity and supply type	Eco cartridge Color: 600ml White: 500ml	
	Ink set	4C+W (C/M/Y/K+W)	6C+W (C/M/Y/K/SB/PP+W)
	Supply	Color: 2 slots per color White: 8 slots	Color: 1 slot each for C/K/SB/PP, and 2 slots each for M/Y White: 8 slots
Media	Max. media width	810 mm	
	Max. printing width	800 mm	
	Print Margin	Left / Right: 15 mm（Min. 5 mm）Front: 120 mm, Back: 150 mm	
	Max. roll size	Maximum 45 kg　Maximum Φ250 mm	
	Paper tube inner diameter	2 inches, 3 inches	
	Winding	Not available	
	Media Cutter	Installed	
Other	Heater	Pre/Print/Post（Maximum 50℃）	
	Head gap	Manual, 3 positions(1.5/2.0/2.5 mm)	
	Maintenance cartridge	○	
	Nozzle recovery system	○	
	White ink circulation function	○	
	Interface	Ethernet 1000BASE-T, USB2.0 Hi-speed	
	Noise	Standby: 45dB or less　During Print: 65dB or less	
	Compliance standards	VCCI Class A / FCC Class A / IEC 62368-1 compliant ETL / CE marking (EMC Directive, Low Voltage Directive, Machinery Directive) /CB Certification / ROHS / REACH / Energy Star / RCM (Australia) / KC (Korea)	
	Power specifications	Single phase AC100-120V±10%/8A、Single phase AC200-240V±10%/4.5A、50/60±1Hz	
	Power consumption	AC100～120V: 800W or less, AC200～240V: 1,100W or less	
	Facility environment	Operating temperature: 20～30℃　Humidity: 35～65%RH (No condensation)　Dust: 0.15mg/㎥ (Office equivalent) Guaranteed accuracy temperature: 20～25℃　Temperature gradient: ±10℃/H or less　Dust: 0.15mg/㎥ (Office equivalent)	
	RIP Software	RasterLink7	

Ink/Supply lists

Type	Production Code	Product name	Standard price	Comment
Ink	PHT50-C-60	Pigment Heat Transfer Ink PHT50 600ml pack C		600 ml Aluminum pack
	PHT50-M-60	Pigment Heat Transfer Ink PHT50 600ml pack M		
	PHT50-Y-60	Pigment Heat Transfer Ink PHT50 600ml pack Y		
	PHT50-K-60	Pigment Heat Transfer Ink PHT50 600ml pack K		
	PHT50-SB-60	Pigment Heat Transfer Ink PHT50 600ml pack SB		
	PHT50-PP-60	Pigment Heat Transfer Ink PHT50 600ml pack PP		
	PHT50-W-50	Pigment Heat Transfer Ink PHT50 500ml pack W		500 ml Aluminum pack
Flushing liquid	FL003-Z-22	Flushing Liquid 03 Cartridge		220ml Cartridge

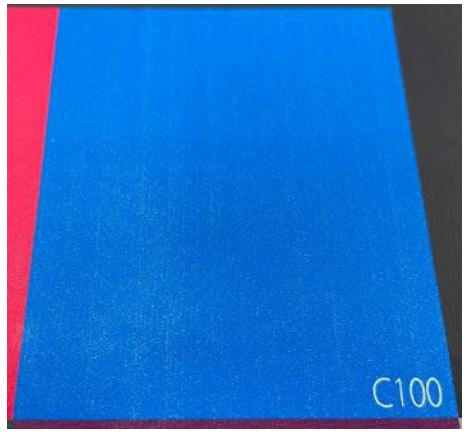
Type	Production Code	Product name	Standard price	Comment
Supply	SPA-0107	Media cutter blade		1 piece
	SPC-0527	Cleaning Stick for Head Surrounding		50 sticks
	SPA-01026	Wiper Kit 2H		5 pieces
	ML003-Z-K1	Washing liquid 03 Maintenance kit		200 ml bottle
	A101437	BEMCOT M-3		100 sheets
	A101438	Swab 6-axis "S"		1,000 sticks
	SPA-0207	Kimwipe S-200		200 sheets
	SPA-0246	Square waste ink tank 2L		1 piece
	SP-01027	PR-CMC		Pinch roller x27pcs, Replacement shaft x9pcs、O-ring x18pcs
	SPA-0248	Exhaust BOX		3 pieces
	SPA-0249	Exhaust BOX Filter		9 sheets
	SPC-0774	300 Fan Filter		10 sheets
	SPA-0257	CP Pad Set 2		1 set

Notes | DTF Film

Mimaki does not provide genuine DTF film, but please pay attention to the following points.

DTF Film Storage

Some DTF films are sensitive to environmental conditions. After use, remove the film from the machine and store it inside a plastic bag with a desiccant, keeping the coated printing surface away from outside air and out of direct sunlight.



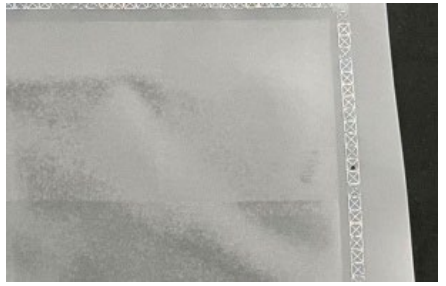
If the surface is left exposed, external conditions may affect the coating and cause issues such as streaks or unevenness during printing.

Checking the Coating Layer Condition



The coating layer (receptive layer) that receives the ink may be unstable on some films. If the coating is unstable, the ink may transfer unevenly, appear mottled, or fail to release cleanly. Please check the condition of the receptive layer before use and choose film with stable coating.

Unstable coating



Ink remains on the film during transfer → uneven transfer

Stable coating



Film releases cleanly → ink transfers uniformly

Notes | DTF Powder

Mimaki does not provide genuine DTF Powder, but please pay attention to the following points.

Handling DTF Powder

Be sure to read and fully understand the SDS and handling instructions of the DTF powder you use.
Depending on particle size, the powder may scatter during application.
Scattered powder may get into the eyes or be inhaled, which could be harmful. We recommend wearing protective glasses, gloves, and a mask.



Use Powder Appropriate for the Transfer Material

DTF powder acts as an adhesive, and various types exist. Durability and versatility differ depending on the powder. If the material is delicate, successful transfer may be difficult depending on the powder used. Please perform prior testing before production.



Cotton blends | Polyester | Nylon

Disclaimer / Notes

■Disclaimer

- Mimaki engineering (hereinafter referred by the Company) is not liable for any direct or indirect damages caused by using this unit regardless of TxF330-800 (hereinafter referred to as the machine) is out of order.
- We are not responsible for any direct or indirect damages caused to the products created by the machine.
- Use of devices other than those recommended by the Company may result in fire or damage to the machine. In such cases, the warranty does not apply. The Company assumes no responsibility for any direct or indirect damages resulting from such use.
- Please use our genuine ink and maintenance cleaning liquid. If you use any other type, the print quality may deteriorate, and the machine may be damaged. In this case, the warranty does not apply. The Company is not responsible for any direct or indirect damages resulting from such use.
- Do not refill the ink aluminum pack. In such case, the warranty does not apply. the damage it could occur to the machine. The Company is not responsible for any direct or indirect damages resulting from such use.
- We do not sell genuine DTF film or powder. Please read and understand the SDS and precautions for the product you are using and use it in an appropriate environment. The Company is not responsible for any direct or indirect damages resulting from such use.

■Precautions for maintenance

- Clean the machine regularly. If you use this machine for many years, dust and dirt will accumulate on the electrical parts. Leakage may cause the machine to malfunction, get an electric shock, or cause a fire.
- Do not clean by blowing air (such as air blowers). Scattered dust and dirt may enter the electrical components and cause a malfunction, electric shock, or fire. Soak a soft cloth in a neutral detergent diluted with a neutral detergent, squeeze it tightly, and then wipe the dust off. Alternatively, use a vacuum cleaner to remove the dust.
- Do not allow liquids to get inside the machine. It may cause a malfunction of the machine, electric shock, or fire.