PRODUCT GUIDE



TxF Series

15-04-2026

SUSTAINABLE DTF PRINTERS PACKED WITH RELIABLE MIMAKI TECHNOLOGY

1.61EU

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PRODUCT INFO

- Concept & Key Features
- Configuration
- Print Speed
- Main Functions

TxF Series | Concept

- TxF series includes the entry-level TxF150-75, the high-speed TxF300-75Plus and the large TxF300-160 to meet all DTF printing needs.
- Each TxF model uses advanced Mimaki technology and ECO PASSPORT-certified ink to ensure high-quality, skin-friendly prints while solving common DTF problems such as ink leakage and sedimentation.



1. RELIABLE

- Packed with the market-proven Mimaki technologies.
- Innovative functions such as nozzle control system and white ink circulation for stable and long-term production without interference and with minimum maintenance.

2. SUSTAINABLE

- ECO PASSPORT by OEKO-TEX ink certification combined with reusable ECO cases completes the overall sustainable package of the TxF Series.

3. EASY TO USE

- The TxF Series includes Mimaki's powerful RasterLink 7 RIP software, for an extremely easy way to produce professional quality prints with just a few clicks.

TxF Series |Key features

- **Versatility and productivity**
  - Available in three sizes:
  - TxF150-75: Printable width up to 800mm; print speed up to 3,3 m^2/h at 720x720dpi*.
  - TxF300-75Plus: Standard with 8 white cartridge slots, printable width up to 800mm; print speed up to 10m^2/h at 720x720dpi*.
  - ***NEW!*** TxF300-1600: Printable width up to 1,610mm; print speed up to 13.6m^2/h at 720x720dpi*.
- **Print quality**
  - TxF150: 1 print head and TxF300: 2 print heads.
  - Resolution up to 1,440dpi.
  - Variable dot printing, starting from 7pl droplet.
  - MAPS4 pass masking system.
  - The new PHT50 pigment heat transfer ink.
  - Available as C, M, Y, K and W color set in a degassed aluminum 600ml pack.
  - OEKO-TEX ECO PASSPORT certified ink.
- **Print stability**
  - Nozzle control system, NCU and NRS
  - Pre-, Print- and Post-heaters
  - Built in white ink circulation system
  - Media jam sensor protects print heads against a head strike or media jam
- **Professional RIP software**
  - Redesigned, powerful RasterLink 7 is standard included
  - Variable data print and creation of white layer
  - Position adjustment between color and white layer



*The maximum speed might differ depending on media and expected print result.

TxF Series | Applications

Garment



Bags



Hats



Promotion



Footwear



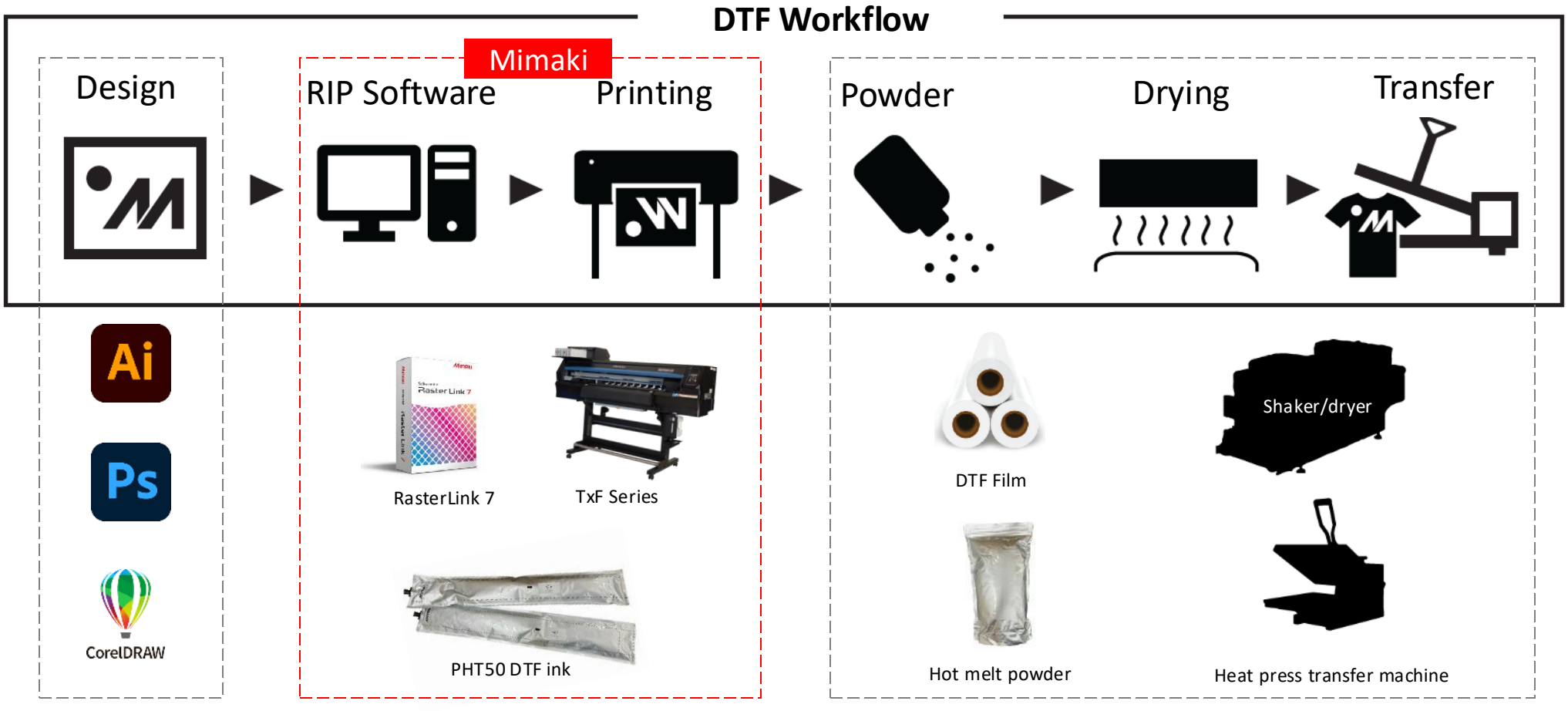
... and more

TxF-1600 specialty: In-print



TxF Series | What is DTF

- DTF, or "Direct-To-Film," is a printing method where a printer applies ink directly onto specialized DTF film.
- It then adds a melt powder as adhesive and uses heat for drying.
- The resulting transfer sheet is heat-pressed onto fabrics like cotton, polyester, or blends.
- Mimaki provides one of the TxF Series DTF printer, RIP software, genuine ink, and support through authorized EMEA partners.



TxF Series | DTF solution from the Mimaki brand



Genuine Printer

Genuine ink





Genuine RIP

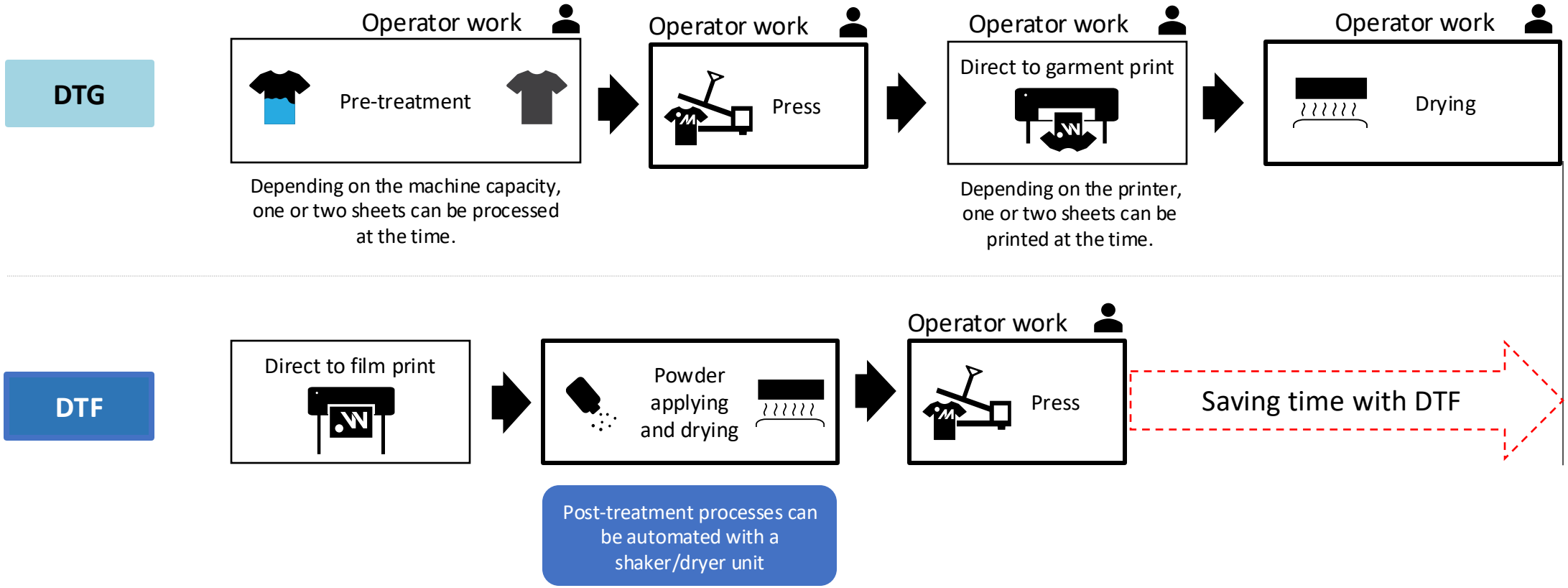
Mimaki Technical Support*



*Available through Mimaki Authorized Partners

TxF Series | DTF vs DTG technology

- Direct-to-Garment (*DTG*) is a printing technology that jets the ink direct onto garment.
- DTG is a labor-intensive process that includes additional pre-treatment of the fabric.
- DTF is a simpler process that can be automated by using a shaker/dryer unit to apply the melt powder and dry it.



TxF Series | DTF vs DTG technology



	Direct-to-Film	Direct-to-Fabric
Fabrics choice	• All kind of fabrics	• Limited to cotton
Pretreatment of fabrics	• Not required	• Required
Labor intensity	• Average	• High
Production capacity	• Large	• Small
Print Quality	• High on all fabrics	• Less on colored fabrics
Touch feel	• Plasticized	• Smooth

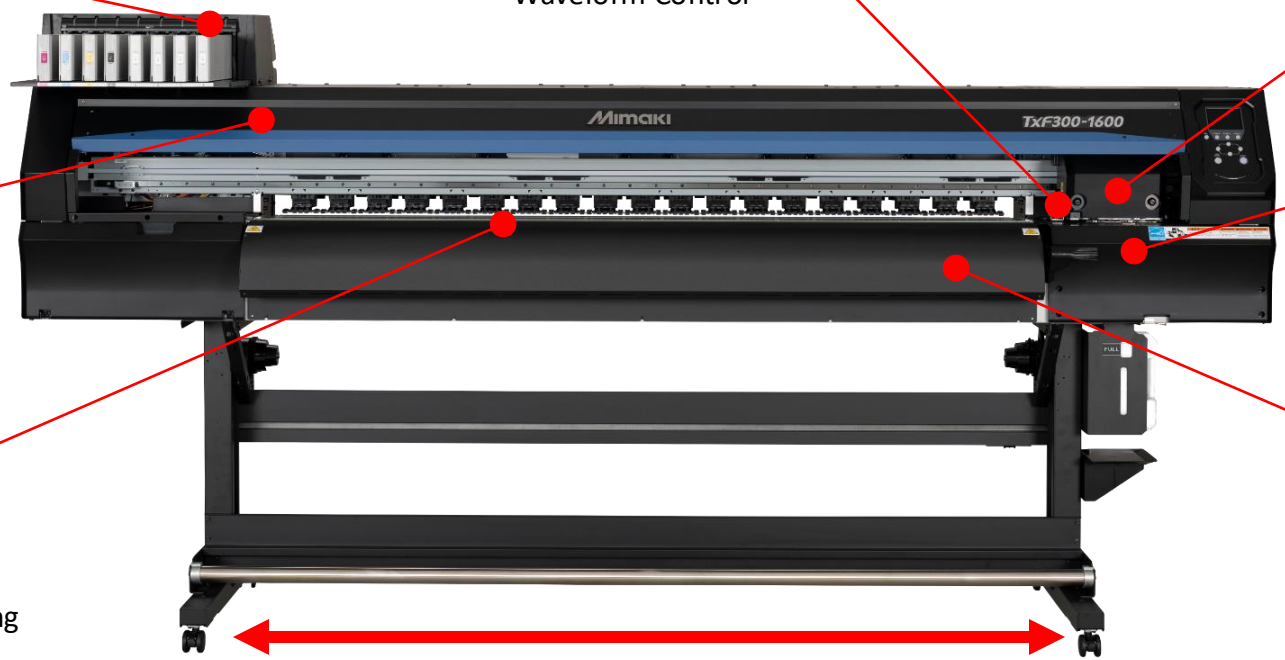
TxF Series | Product Overview

SUSTAINABLE INK SYSTEM
- Reusable ECO Cases
- Degassed aluminum packs
- Available in 4C+W

INK CIRCULATION
- White ink circulation
- Prevents ink sedimentation
- Stabilizes ink ejection

PINCH ROLLERS
- ON/OFF function
- Optimized for DTF Film printing

HIGH IMAGE QUALITY
- Variable Dot Control (7pl)
- MAPS4
- Waveform Control



PRINT HEAD
- 1 Head / 8 Nozzle rows (TxF150)
- 2 Heads / 16 nozzle rows (TxF300)
- 1440 nozzles
- Nozzle row length of 1-inch

STABLE OPERATION
- Nozzle Check Unit
- Nozzle Recovery System

INTELLIGENT HEATER SYSTEM
- 3-way heath principle
- Optimal dot size control
- Individually adjustable temperature

TxF150-75	Print width: 800mm
TxF300-75 Plus	Print width: 800mm
TxF300-1600	Print width: 1,610mm

TxF Series | System configuration

Standard configuration

***TxF* Series**



&

Raster Link 7

Output / Status

USB 2.0*
Ethernet*



Mimaki Cloud Technology PICT

Including:
- TxF Series printer
- RasterLink 7
- ECO Cartridge Cases 8pcs

To order:
Inks:
- DTF Pigment ink “PHT50”
- Ink colors: C, M, Y, K, W
- Supply: Color 600ml,
  White 500ml

Minimum recommended PC configuration

CPU:	Core i5 2.8GHz
Memory:	8GB
HDD:	1TB
I/F :	USB2.0/3.0
Network:	1000BASE-T
Compatible OS :	Windows 11 Pro (64bit)
Monitor:	1366x768



Mimaki Remote Access App

Design software

Ai Ps CorelDRAW

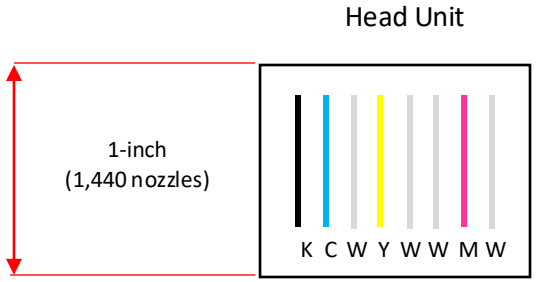
PS,EPS,TIFF,BMP,JPEG,PDF

GET IT ON Google Play
Download on the App Store

*A direct Ethernet connection between the PC and the printer is recommended.
*Connection via router is not supported.
*Recommended to use at least a Category 6 (Cat6) network cable.
*Up to 4 printers can be registered.

TxF150-75 | Print Head Technology

Amount of Heads	1
Nozzle Configuration	1,440 nozzles arranged in 8 lines
Print Resolution	Up to 1,440dpi
Droplet Size	Starting from 7pl



Variable Dots

- Higher Image Quality
- Low grains
- Excellent gradients

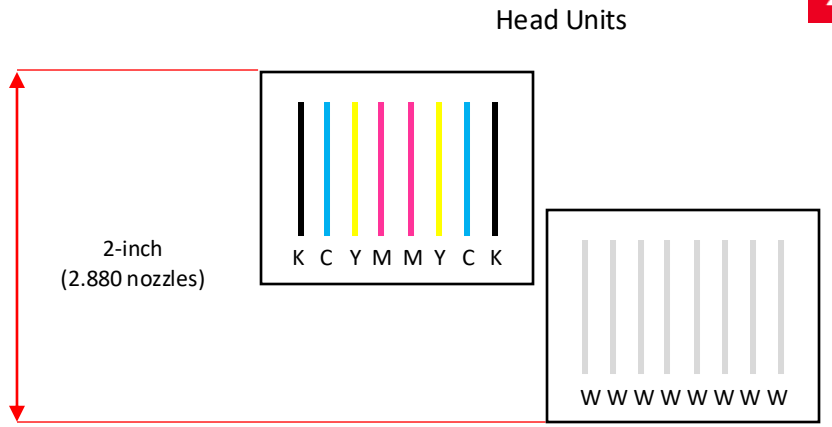
High Durability

- Industrial Graded Print Head
- Piezo technology
- Low long-term costs



TxF300-75/1600 | Print Head Technology

Amount of Heads	2
Nozzle Configuration	2.880 nozzles arranged in 16 lines
Print Resolution	Up to 1,440dpi
Droplet Size	Starting from 7pl



Variable Dots

- Higher Image Quality
- Low grains
- Excellent gradients

High Durability

- Industrial Graded Print Head
- Piezo technology
- Low long-term costs



TxF Series | Ink configuration

- Ink type: PHT50 Thermal Heat Transfer Pigment ink.
- Color sets:
  - 5-C (C, M, Y, K, W)

Printer	Ink	Colours	Supply	Color set (cartridge side)											
TxF150-75	PHT50	5-C (C,M,Y,K,W)	Aluminium bag	M	C	Y	K	W	W						
TxF300-1600				M	C	Y	K	W	W	W	W				
TxF300-75Plus								W	W	W	W	W	W	W	W

- Ink supply:
  - Color 600ml aluminum bag
  - White 500ml aluminum bag



PHT50 ink package



PHT50 ink bag

TxF Series | Print speed

TxF150-75

Print mode	Print Condition	Print Speed (m^2/h)
DRAFT	720x720 8pass Bi Hi	3,3
PRODUCTION	720x720 6pass Bi Hi	2,6
HIGH QUALITY	720x1440 12pass Bi Hi	1,5

TxF300-75Plus

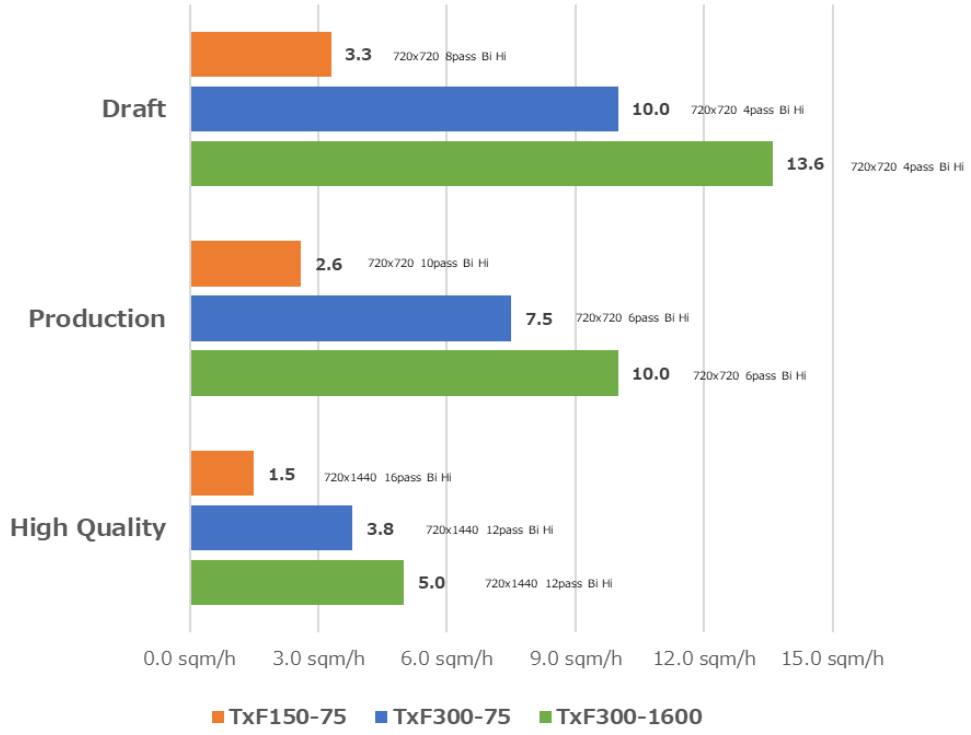
Print mode	Print Condition	Print Speed (m^2/h)
DRAFT	720x720 4pass Bi Hi	10
PRODUCTION	720x720 6pass Bi Hi	7,5
HIGH QUALITY	720x1440 12pass Bi Hi	3,8

TxF300-1600

Print mode	Print Condition	Print Speed (m^2/h)
DRAFT	720x720 8pass Bi Hi	13,6
PRODUCTION	720x720 6pass Bi Hi	10
HIGH QUALITY	720x1440 12pass Bi Hi	5

The print modes shown in this document are the performance of the printer itself.
The profiles are created selectively depending on the media type. When the profile is not available, use MPM3 to create the profile for the media.

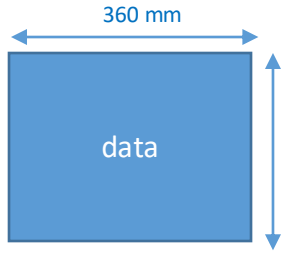
TxF series Speed comparison



TxF Series | Productivity in production mode

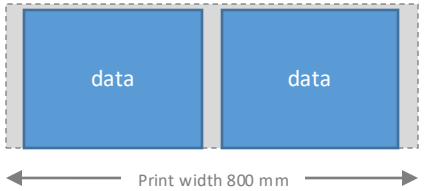
Based on 8hrs/day operation

Data size

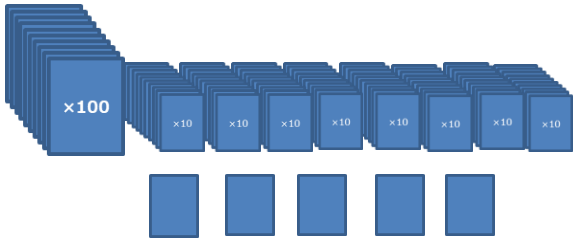




TxF150-75



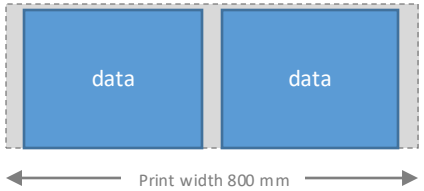
■ **Production mode**
720×720 10P **2.6sqm/h**



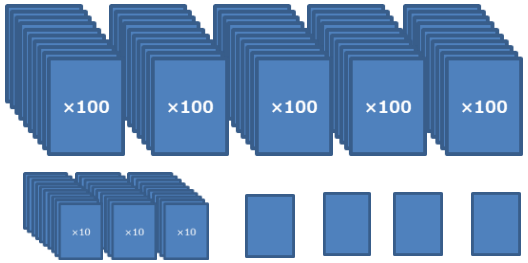
Number of sheets created per day：

approx.185 sheets

TxF300-75Plus



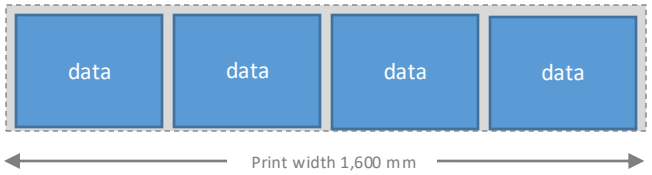
■ **Production mode**
720×720 6P **7.5sqm/h**



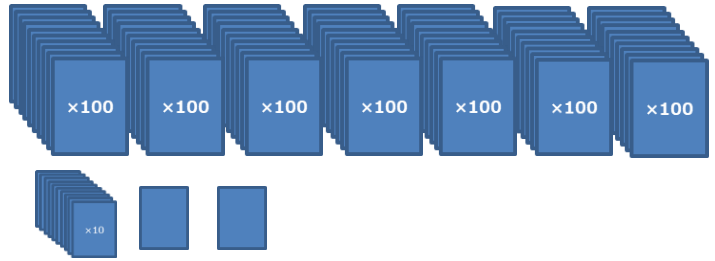
Number of sheets created per day：

approx.534 sheets

TxF300-1600



■ **Production mode**
720×720 6P **10.0sqm/h**



Number of sheets created per day：

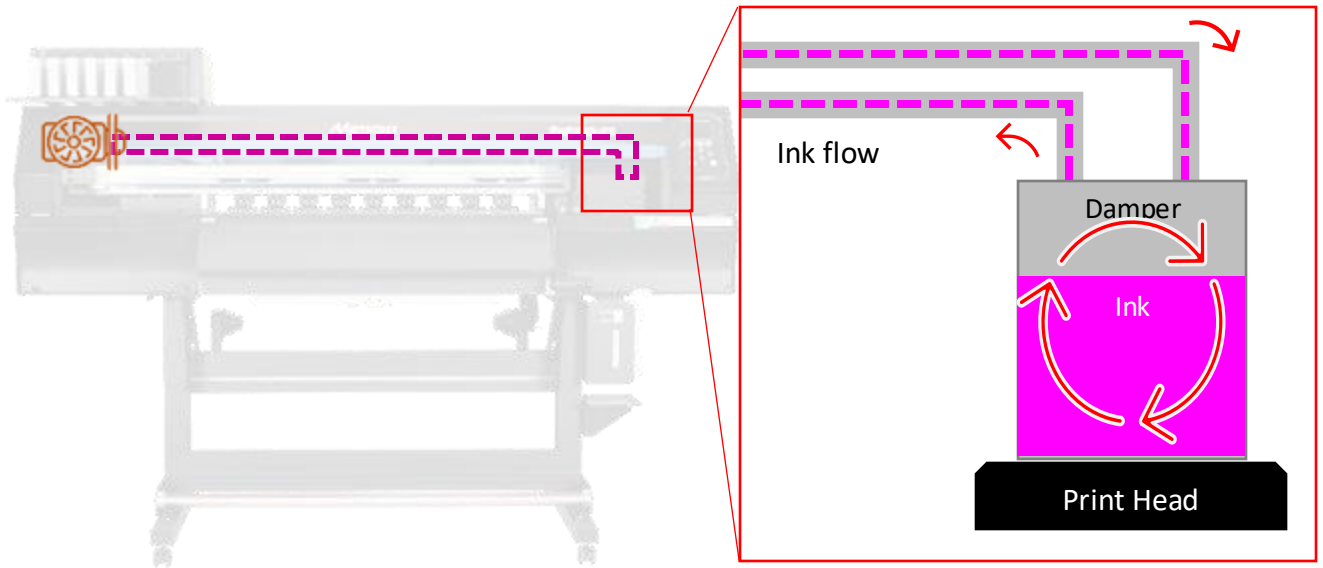
approx.712 sheets

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

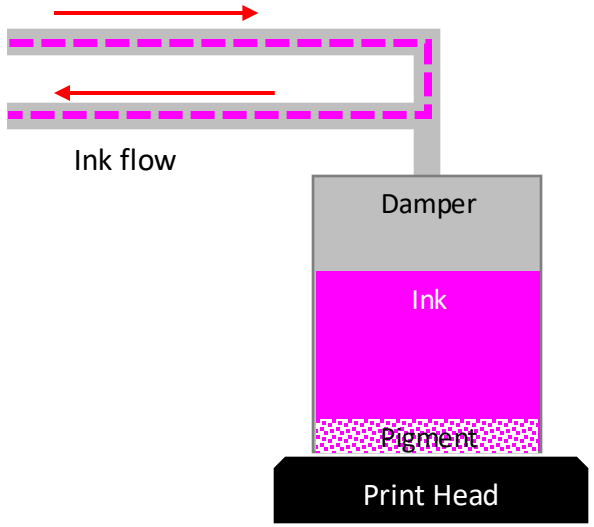
TxF Series | Ink circulation system

- Improved performance and reduced maintenance
  - Mimaki Ink Circulation System (*MCT2*) reduces the need for extensive cleaning methods, improving productivity and reducing wasted time and material.
  - MCT2 allows ink to circulate through the damper, keeping ink particles from settling and providing an eco-friendly and economical approach to special color printing.
  - Without MCT, when special colors such as white is used, pigment deposition can lead to nozzle blockage and reduced print quality.

Mimaki Ink Circulation (MCT2)



Standard Ink Circulation System



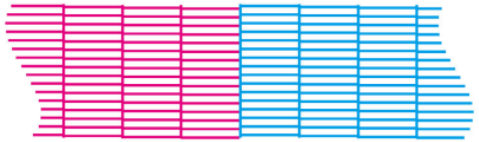
TxF Series | Degassed ink pack

- Ecology & Economy with Degassed aluminum pack:
  - Utilizes a degassed aluminum pack to ensure stable and efficient ink supply.
  - Proven technology with over 10 years of successful use by Mimaki.
- Advantages:
  - Prevents oxygen and other gases from contaminating both color and white inks.
  - Reduces the risk of instabllenozzles (nozzle cloggs) by maintaining ink purity.

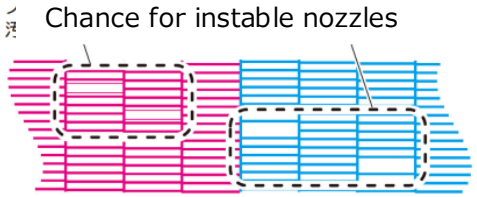


PHT50 ink aluminum pack

Degassed ink
Stable nozzles



Non-degassed ink
Chance for instable nozzles



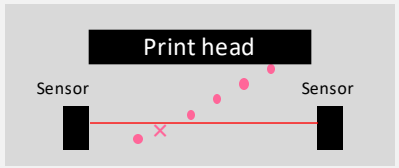
TxF Series | NCU and NRS

- Automatic nozzle control system for uninterrupted printing
  - Continuous unattended operation by interlocking the Nozzle Check Unit (*NCU*) and Nozzle Recovery System (*NRS*).
  - Requires less checking time and less media waste, compared to competitors.

Nozzle Check Unit (*NCU*)

Automatically detects nozzle clogging. When clogging is found, the nozzles are automatically cleaned.

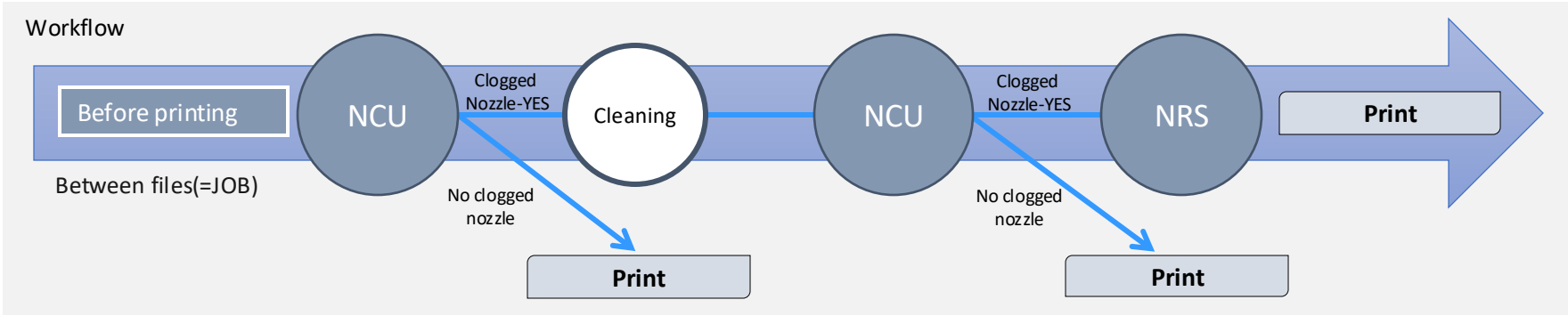
Infrared light detects missing ink droplet(s)



Nozzle recovery system (*NRS*)

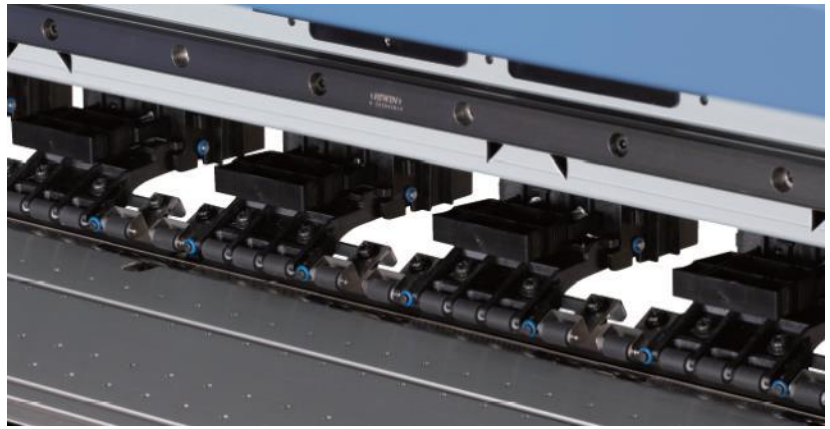
When the clogged nozzle is not resolved by cleaning, the defective nozzle is substituted by working nozzles automatically.

2 ways of NRS
- Manual input by operator: Max. 10 nozzles per 1 nozzle line.
- Automatic input by NCU: Max. 16 nozzles per 1 nozzle line.

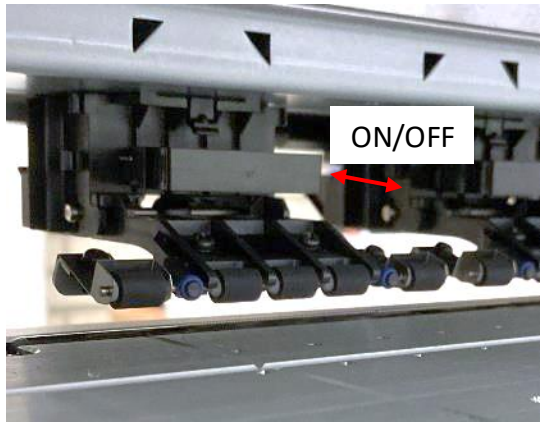


TxF Series | Pinch roller system

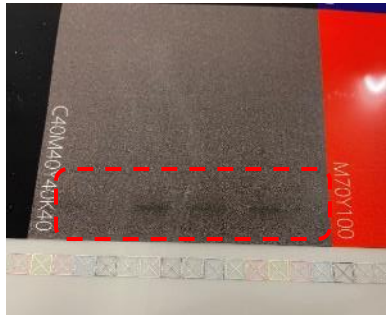
- Improved film transport system
  - New type of pinch rollers: lighter pressure and ON/OFF function prevent marks on the film.
  - Optimized grit roller improves media feeding accuracy and prevents film slippage.



TxF Series low pressure pinch rollers

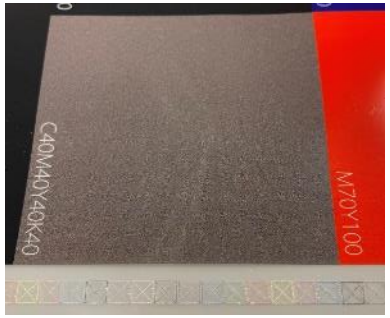


Individual pinch rollers ON/OFF function



Conventional pinch rollers leave the tracks

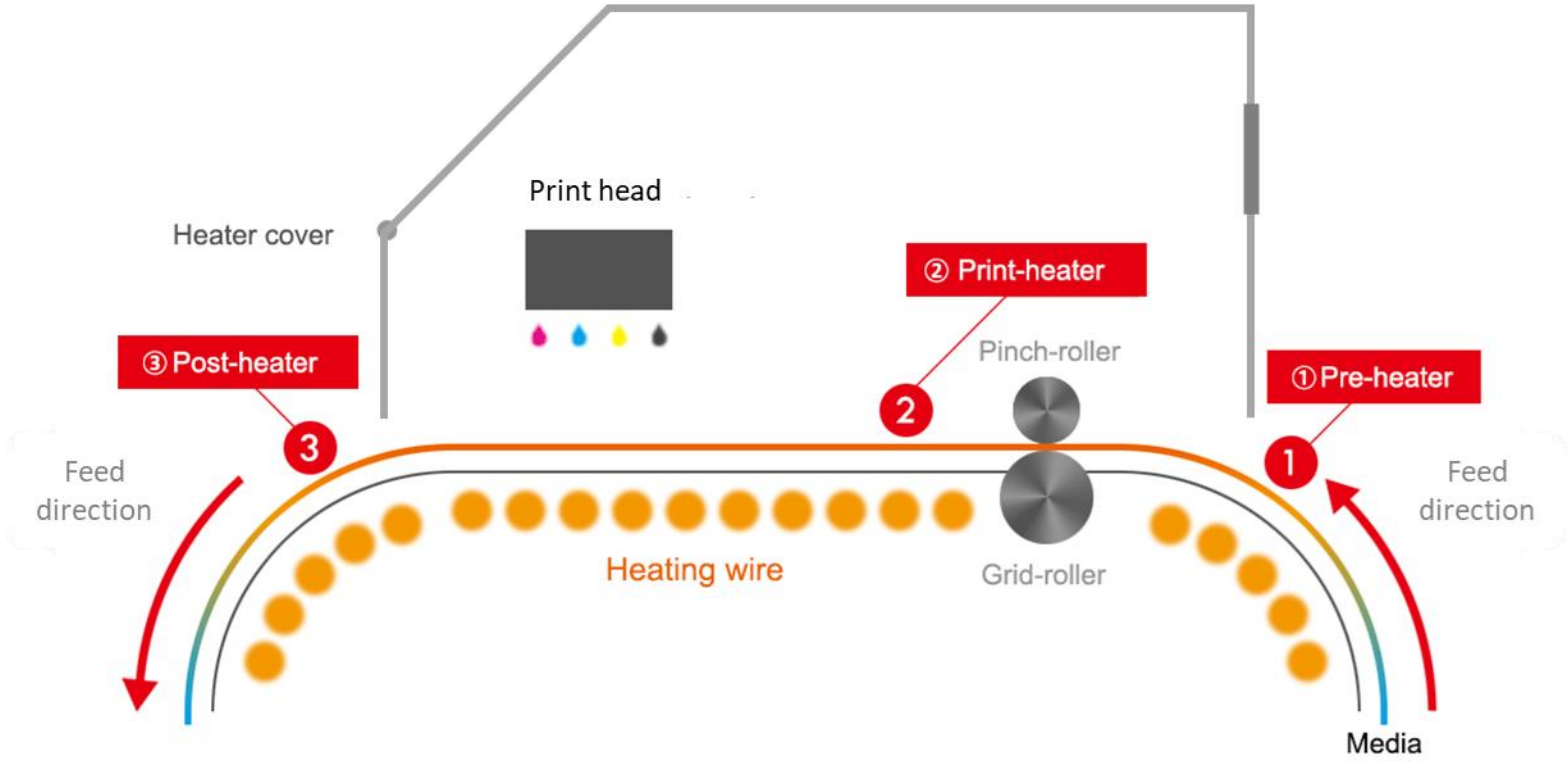
Improvement



TxF Series inch rollers leave no tracks on film

TxF Series | Heaters

- 3-way intelligent heating system
  - Pre-heater: Heats media to the optimum temperature before printing.
  - Print heater: Dries ink after it lands on media before it bleeds, improving droplet stability.
  - Post-heater: Enhances ink drying and achieves stable powder applying.



3-way Intelligent Heater patent No.

Japan	4889059
USA	8.444.262
China	ZL 200910222559.8

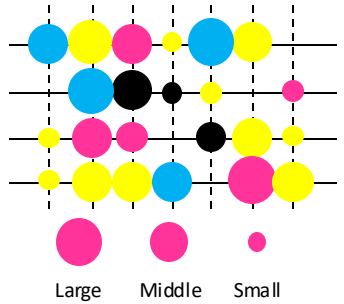
TxF Series | Variable dots

- Variable dots: Grainy appearance reduction system
  - The image is printed with the mix of 3 different print dots (Small, Middle and Large), with smallest print dot starting from 7pl.
  - Optimal combination depends on image color and print mode, resulting extremely fine details and realistic photographic expressions.
  - Grainy appearance is further reduced by using the 1,440dpi high resolution print mode available for high quality printing.



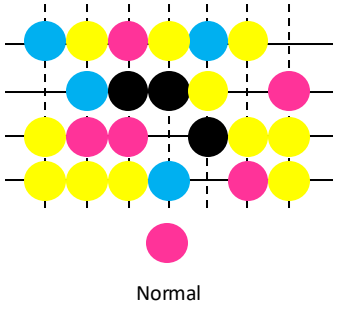
Variable dots





Normal dots





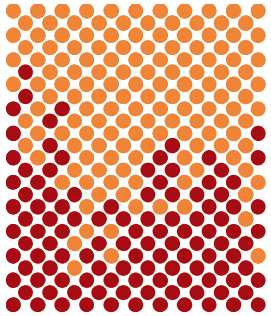
TxF Series | MAPS4

- MAPS4 for printing without banding
  - Standard print process with straight lines causes a slight misalignment between boundaries because of banding or uneven color printing.
  - Mimaki Advanced Pass System (*MAPS4*) reduces banding and uneven color printing applying blurred boundaries between passes like gradation printing.



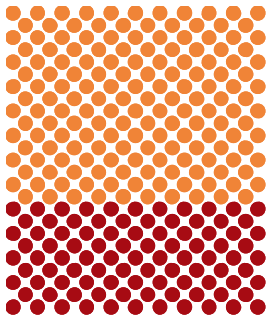
MAPS4 ON
Smooth and invisible boundaries between passes





STANDARD (MAPS4 OFF)
Visible boundaries between passes

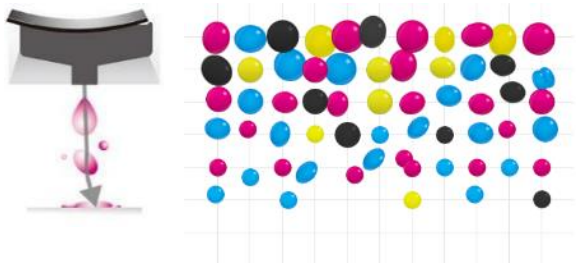




TxF Series | Waveform control

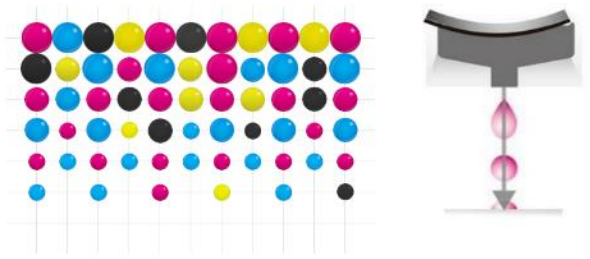
- Waveform control to achieve precise placement of ink droplets
  - The best waveform is automatically selected for each print mode to provide the best quality.
  - This results in sharper lines, text and image.

No waveform control
Ink droplets jetted in as deformed circles





With waveform control
Ink droplets are jetted in as nearly perfect circles



Ink dots overlap
↓
Grainy appearance with blurred edge

High accuracy dot placement
↓
Sharp finish without grainy appearance

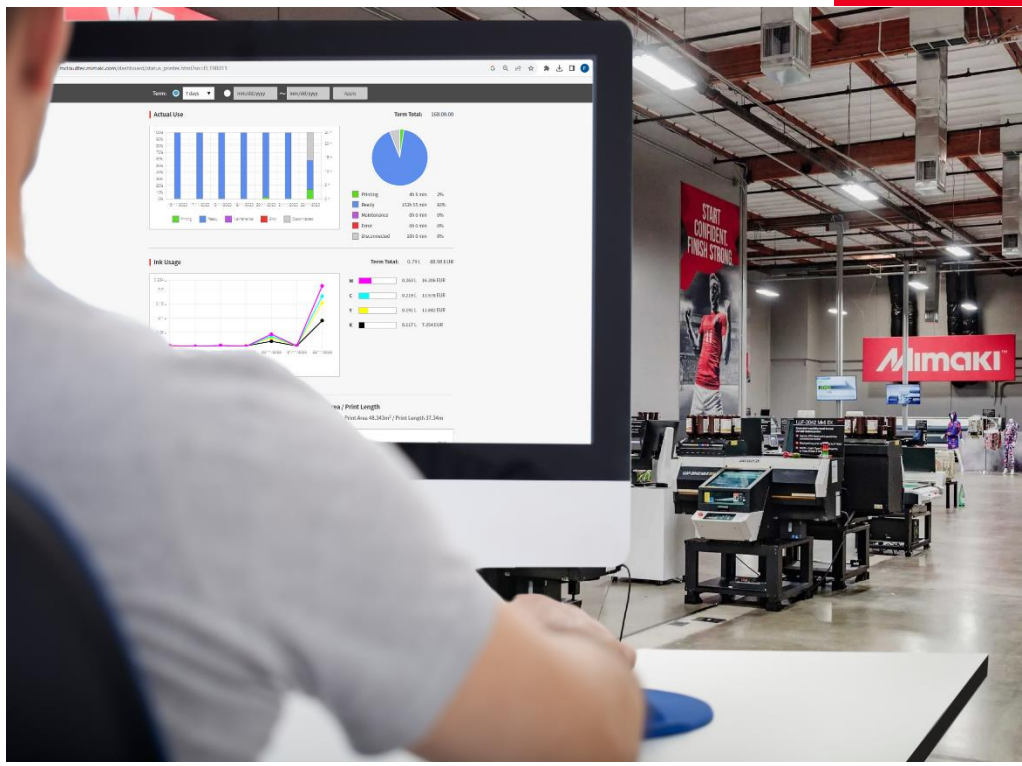
SOFTWARE

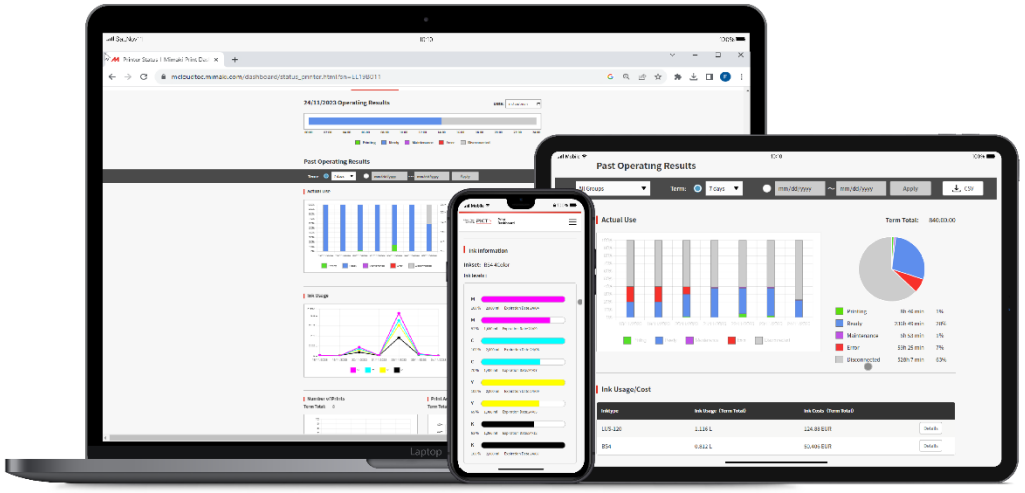
- PICT Cloud Service
- Remote Access App
- RasterLink7

TxF Series | PICT online cloud

- PICT (*Printer Information Cloud Technology*) offers an advanced solution for optimizing print operations and production management for Mimaki customers.

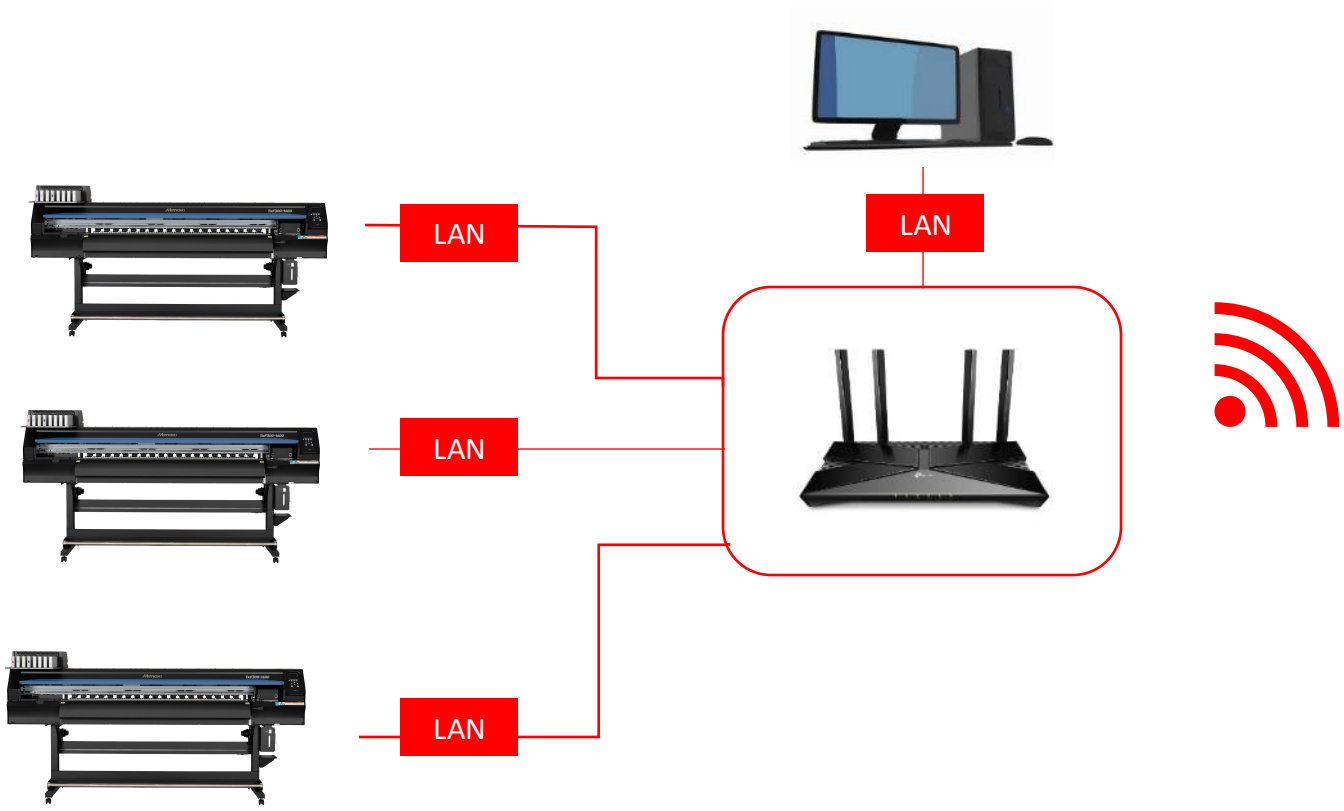
- **Remote Monitoring:**
  - PICT allows real-time monitoring of Mimaki printers from any device, ensuring flexibility.
- **Data Precision:**
  - Captures detailed printer operation and ink usage data for informed decision-making.
- **Grouped Management:**
  - Enables efficient oversight by grouping printers based on custom criteria.
- **Ink Efficiency and Maintenance:**
  - Enhances ink inventory management and facilitates proactive maintenance planning.

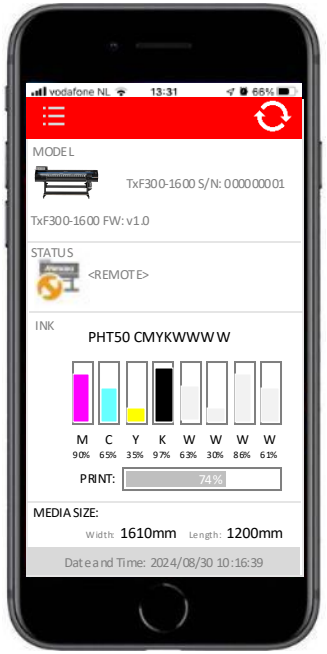




TxF Series | Remote access

- Remote Production Control with Smart Remote Access App
  - Mimaki Remote Access App makes remote control and operation of TxF Series series easy and efficient.
  - Receive status updates as well as remotely manage production, test printing, and cleaning functions.
  - This allows the operator to multitask, dramatically increasing work efficiency.





MIMAKI Remote Access App

GET IT ON Google Play

Download on the App Store

RasterLink 7 | Advanced Printing Software

- Usable functions in RasterLink 7
  - Variable Data streamlines the production of customized print runs.
  - Different Special Layer options for white support layer creation.
  - Layer position adjustment for high accuracy prints.
  - Color Calibration: Ensures accurate and uniform color across prints.

- Easy to use
  - Simple resizing, cropping, nesting or tailing.
  - Easy workflow operation, even for beginners.
  - 30 favorite print presets as Hot Folders.
  - Up to 4 printers can be controlled from a single PC.

- Professional print quality
  - Smooth gradation with 16-bit rendering.
  - Ability to replace the colors.
  - True PANTONE® Spot Color matching and replacing.
  - Accurate ink consumption calculation.



RasterLink 7 | Variable Data Print

- Personalization of designs at scale
  - Variable data printing function in RasterLink 7 allows the merging of prepared files in CSV format with up to one thousand lines into predefined design templates.
  - The dynamic printing of various applications, such as stickers, product labels, employee names, and others, is simple as they are done on the go.



TEMPLATE

CSV DATA

	A	B	C
1	**Name**	**Nr.**	
2	James	7	
3	John	21	
4	Diana	11	
5	Ralf	7	

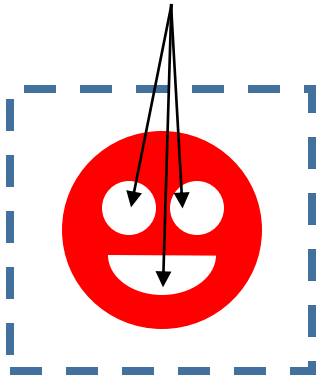
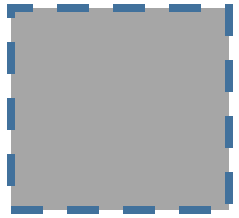
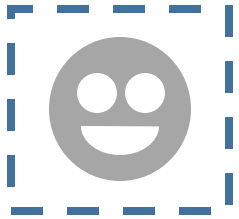
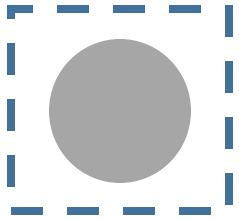
Raster Link 7

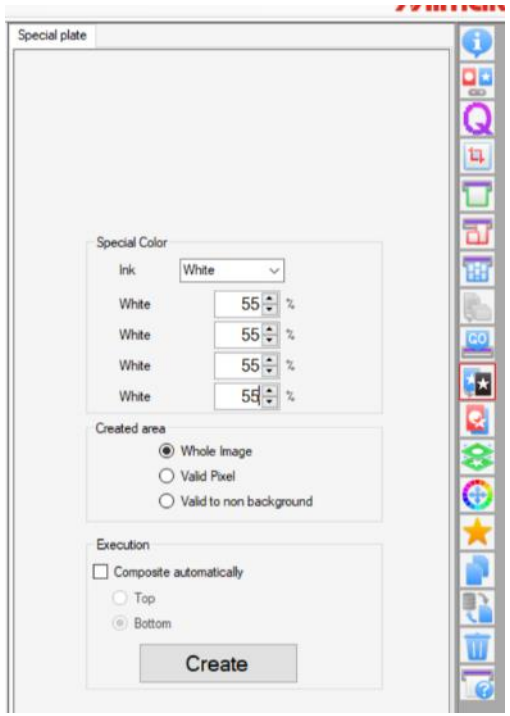


VARIABLE DATA PRINT OUTPUT

RasterLink 7 | Special layer creation

- Special Plate function creates the white layer under the color image.
- The "Valid for non background" setting is a new function in layer creation options.
- New function fills the outline of a vector graphic with a color value of CMYK=0%.

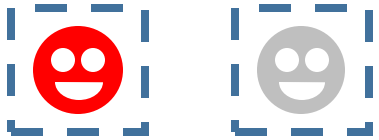
No	Original image	Area Specification	Created Layer	Remarks
1	CMYK 0% 	Whole Image		Prints the entire rectangle space of the original image using the special color ink.
2		Valid Pixel		Prints the special color ink only where there is color in the original image.
3		Valid to non background		Prints the special color ink in whole contour of the image, incl. CMYK=0%



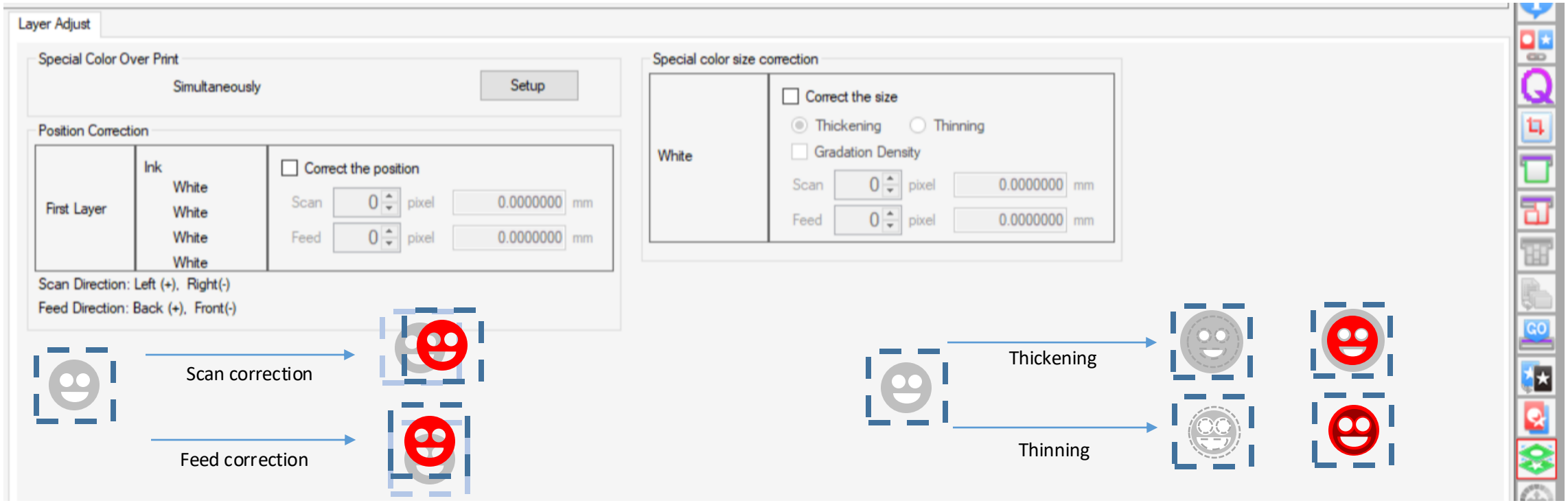
Creation details

RasterLink 7 | Layer adjustments

- Fine-tuning the size and position of the white layer if the color and white layers do not completely overlap.
- **Size correction:** adjust the size of white layer.
  - Thickening: expand the size of white layer.
  - Thinning: shrink the size of white layer.
- **Position correction:** adjust the position of white layer.
  - Scan: move white layer left or right.
  - Feed: move white layer up or down.



Color layer White layer



RasterLink7 | Color Calibration

- Consistent color output
  - Maintaining consistent color output from the printer*1.
  - Printer color consistency can be maintained by measuring color differences with a colorimeter*2.
  - The detected color differences are easily corrected to the specified values.

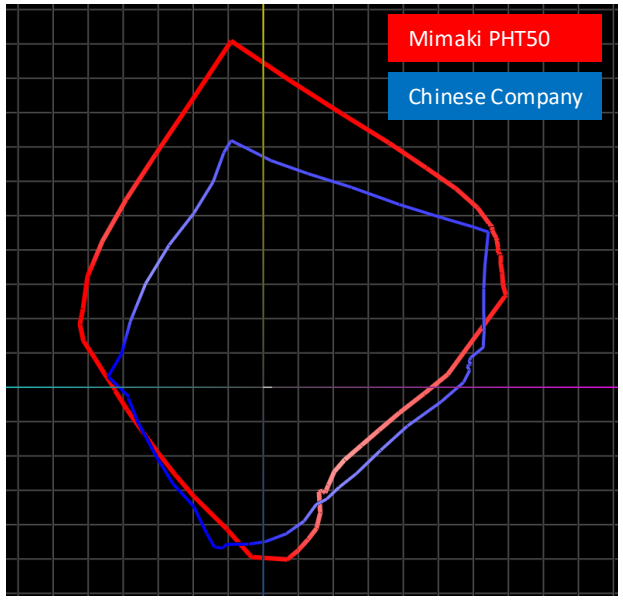


Raster Link 7 Color Calibration Tool

*1: It is necessary to measure color chart at the time of installation
*2: Colorimeter must be prepared by the customer

TxF Series | PHT50 ink specifications

- PHT50 ink is a genuine Mimaki hot transfer pigment ink specially designed for TxF series to print on DTF film.
- Available in 5 colors: Cyan, Magenta, Yellow, Black and White.
- Color brightness and vividness is equal to or better than the competition.
- Ink is OEKO-TEX certified.
- Available in degassed aluminum bag of 600 ml (white ink in 500 ml).
- Reusable ECO cartridge cases.



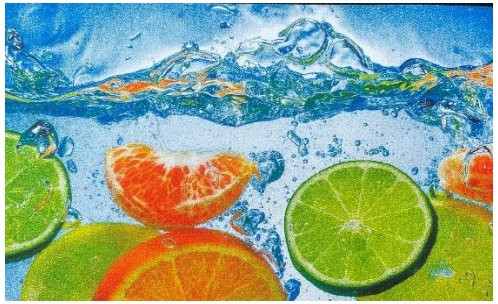
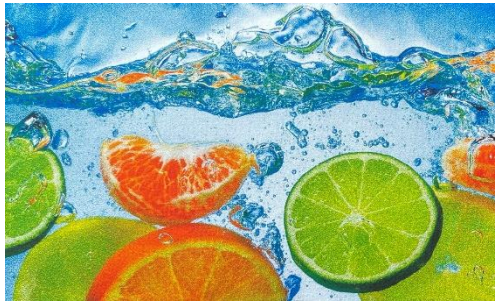


Aluminum ink pack + **Reusable ECO cartridge case** = **Complete ink pack assy**

OEKO TEX®
ECO PASSPORT

TxF Series | Color comparison

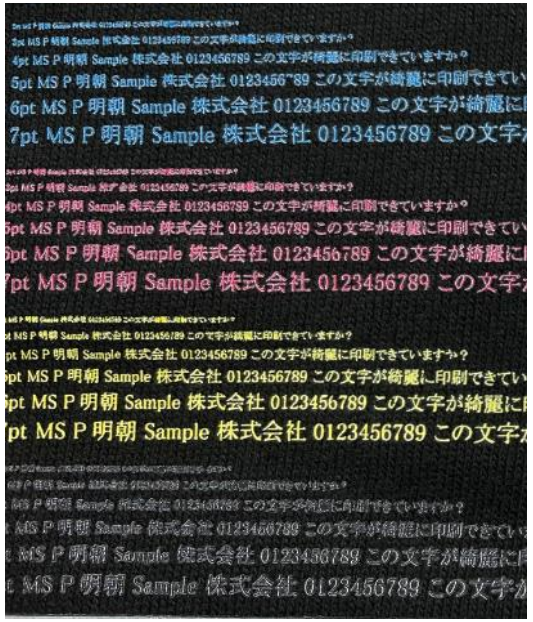
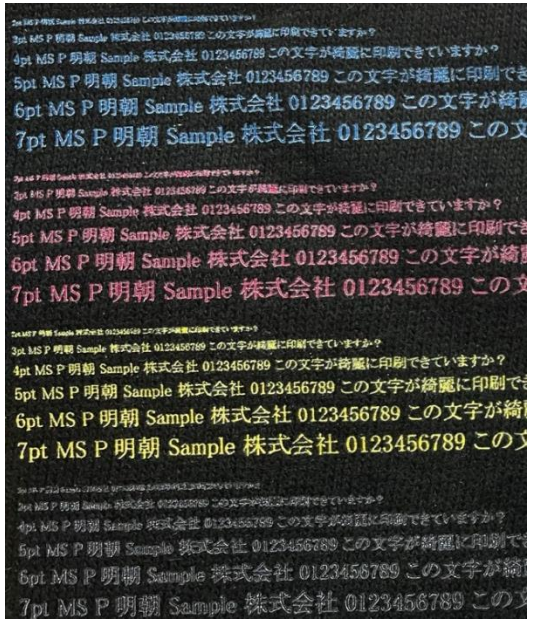
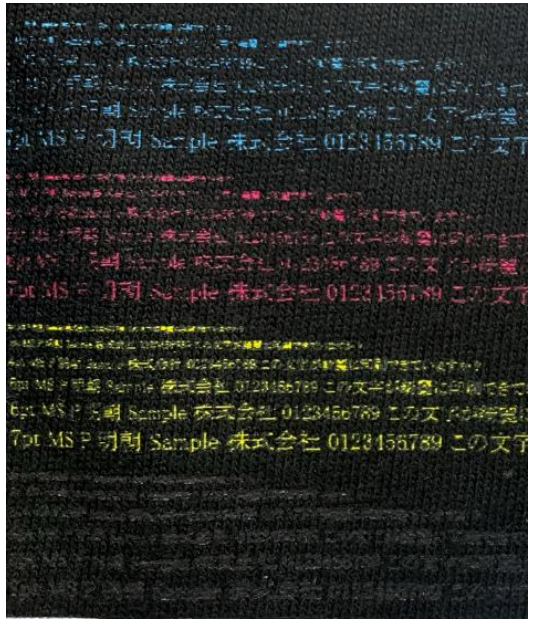
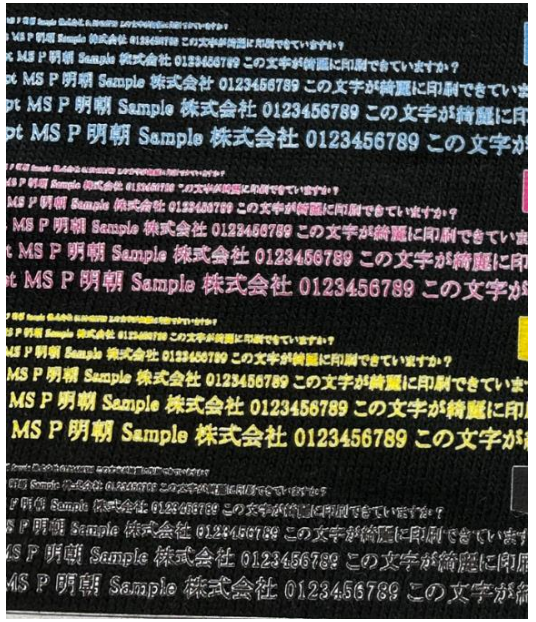
- PHT50 ink produces higher density and higher color vividness compared to ink from other DTF companies.

TxF150-75	TxF300-75Plus / 1600	DTF printer of company A	DTF printer of company B
			
Vivid, high-density solids can be expressed		The solid colors are light and flat	
			
Vivid and sharp colors raise the image quality to photographic level		The overall color impression is light and dull	

* The output result varies depending on the combination and compatibility of the film and powder used. Pre-testing is recommended
* The above results are based on Mimaki's internal evaluation and Mimaki does not guarantee the content.

TxF Series | Fine details comparison

- PHT50 ink produces sharp edges without color fading, even in solid areas of color combined with the text.

TxF150-75	TxF300-75Plus / 1600	DTF printer of company A	DTF printer of company B
			
Good color reproduction and sharp expression of fine text		In some places the text is faded, and it is difficult to express details	

* The output result varies depending on the combination and compatibility of the film and powder used. Pre-testing is recommended.
* The above results are based on Mimaki's internal evaluation and Mimaki does not guarantee the content.

TxF Series | PHT50 ink fastness details

Item	Tests			PHT50				
				Cyan	Magenta	Yellow	Black	White
Washing	ISO 105 C06B1S	Discoloration		4	4	4-5	4	4
		Staining	Acetate	4-5	4-5	4-5	4-5	4-5
			Cotton	4-5	4	4	4	4-5
			Nylon	4-5	4-5	4-5	4-5	4-5
			Polyester	4-5	4-5	4-5	4-5	4-5
			Acrylic	4-5	4-5	4-5	4-5	4-5
			Wool	4-5	4-5	4-5	4-5	4-5
Perspiration	ISO 105 E04 Acid	Discoloration		4-5	4-5	4-5	4-5	4-5
		Staining	Acetate	5	4-5	5	4-5	5
			Cotton	5	4-5	5	4-5	5
			Nylon	5	4-5	5	4-5	5
			Polyester	5	4-5	5	4-5	5
			Acrylic	5	4-5	5	4-5	5
			Wool	5	4-5	5	4-5	5
	ISO 105 E04 Alkali	Discoloration		4-5	4-5	4-5	4-5	4-5
		Staining	Acetate	5	4-5	5	4-5	5
			Cotton	5	4-5	4	4	5
			Nylon	5	4-5	5	4-5	5
			Polyester	5	4-5	5	4-5	5
			Acrylic	5	4-5	5	4-5	5
			Wool	5	4-5	5	4-5	5

Item	Tests			PHT50				
				Cyan	Magenta	Yellow	Black	White
Water	ISO 105 E01	Discoloration		4-5	4-5	4-5	4-5	4-5
		Staining	Acetate	5	4-5	5	4-5	5
			Cotton	5	4-5	5	4-5	5
			Nylon	5	4-5	5	4-5	5
			Polyester	5	4-5	5	4-5	5
			Acrylic	5	4-5	5	4-5	5
			Wool	5	4-5	5	4-5	5
Dry cleaning	ISO 105 D01 Perchloro-ethylene	Discoloration		4-5	4-5	4-5	4	4-5
		Staining	Acetate	5	5	5	4-5	5
			Cotton	5	5	5	4-5	5
			Nylon	5	5	5	4-5	5
			Polyester	5	5	5	4-5	5
			Acrylic	5	5	5	4-5	5
			Wool	5	5	5	4-5	5
Friction	ISO 105 X12	Dry		4-5	4-5	4-5	4-5	4-5
		Wet		4-5	4-5	4-5	4-5	4-5

* The output result varies depending on the combination and compatibility of the film and powder used. Pre-testing is recommended.
* The above results are based on Mimaki's internal evaluation and Mimaki does not guarantee the content.

Evaluation conditions
Model: TxF150-75
Print conditions: 720x720 10pass BiHi
Profile: Europort DTF TF04H (Input: DeepColorNatural)
DTF film: Europort DTF TF04H
DTF powder: Europort DTF PWD03
Drying temperature/time: 110°C / 90s
Press temperature/time: 140°C / 10s-5s
Fabric: Cotton 100%

TxF Series | Optional white cartridges



*Additional 4 cartridges for white ink support

- **Standard on TxF300-75Plus**
- **Enables continuous operation for 8-9 hours, approximately twice the duration of standard models.**
- **Supports uninterrupted machine operation, even during overnight long-length production.**

With a standard 8-cartridge system, extended printing jobs that consume significant ink can deplete the white ink in 4 to 5 hours.



Additional 4 cartridge option	
Supported Machine	TxF300-1600 (*TxF150-75 is not supported)
Supported Inks	PHT50 White 500 ml ink pack
External dimensions (W×D×H)	771x610x299mm
Weight	11kg

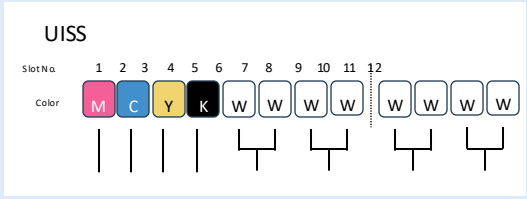
Features UISS for seamless operation.

White ink replacement is possible during printing, boosting efficiency.



UISS (Uninterrupted Ink Supply System)

When one ink cartridge runs out, the system seamlessly switches to another, ensuring uninterrupted ink supply.
Cartridges can be replaced during operation, enabling continuous overnight printing without delays.
Each set includes two cartridges, allowing automatic switching when one is depleted, ensuring smooth printing.
Unused cartridges can be inserted or removed during printing, making it easy to replace white ink without halting production.



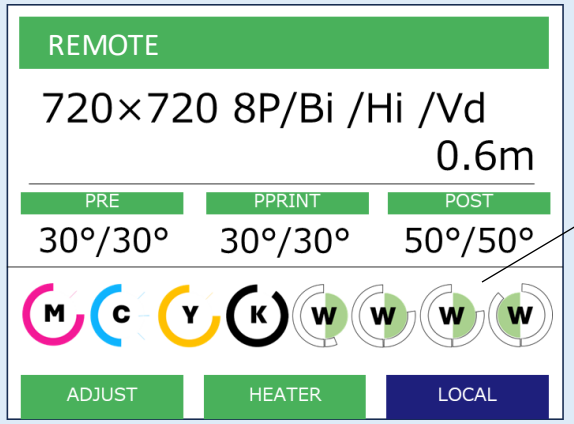
TxF Series | Optional white cartridges

- The active cartridge is clearly indicated.

When all white ink levels are adequate

The active cartridge is indicated by a blue LED light.



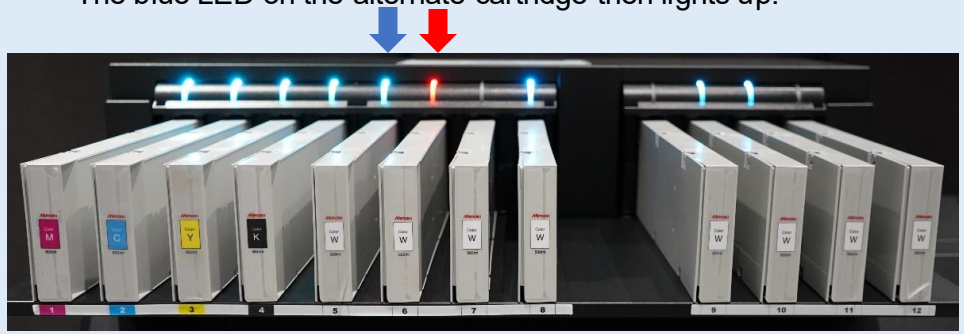


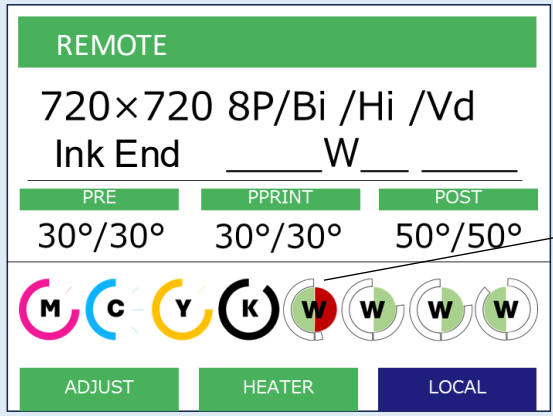


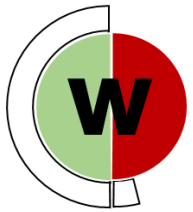
The operation screen shows the active cartridge with a green semicircle indicator.

When the ink runs out

The red LED illuminates when the ink is running low.
The blue LED on the alternate cartridge then lights up.







When the ink runs out, a red semicircle appears, and the remaining cartridge is shown in green.

Required items | DTF film

- Recommended specifications for DTF film
  - Surface receiving layer: thin, uniform with few unevenness.
  - Tends to peel off easily during heat pressing and has higher fastness.
  - Width between 210 and 810mm.



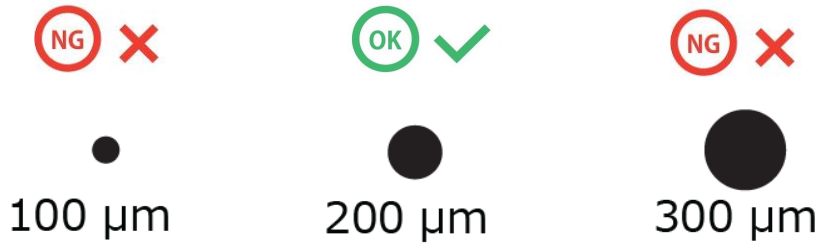
Surface of DTF film



* The above recommendation is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

Required items | Hot melting powder

- Recommended specifications for Hot melt powder
  - Composition: Polyurethane PU.
  - Particle size: 200µm.
  - It should adhere well to a variety of fabrics, with a good texture.
  - Should be easy to post-handle so that particles are less likely to adhere to unprinted areas.



Particle size of hot melt powder

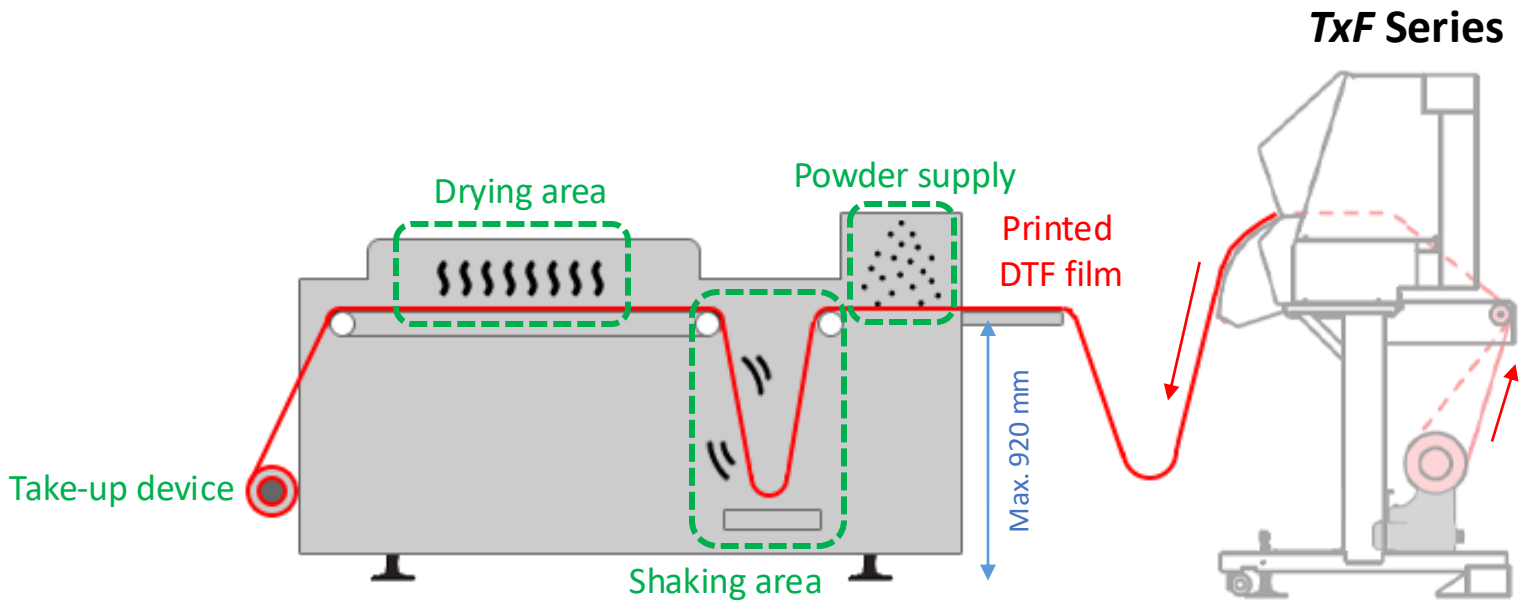




* The above recommendation is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

Required items | Powder shaker and dryer

- Specifications for powder shaker and dryer
  - Drying oven temperature setting range: 100 to 130°C.
  - Drying time setting: 90 seconds or longer.
  - The film insertion slot of the post-processing machine is 920mm or less from the ground.
  - A sensor that automatically controls the feeding amount during film transport.
  - Cooling fan to cool the heat of the film.
  - Take-up device for weights over 18kg.
  - Exhaust equipment of 2~4m^2/min or more.



* The above recommendation is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

Required items | Heat press

- Specifications for Heat press transfer machine
  - Transfer temperature (cotton fabric): 140°C or higher.

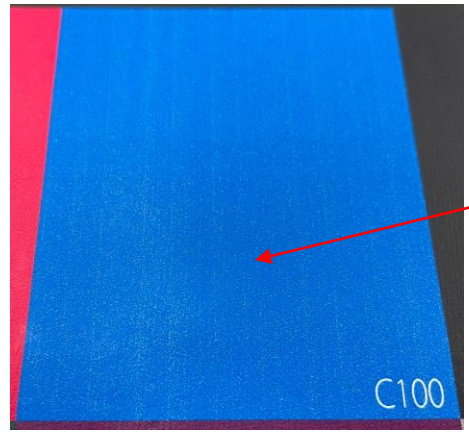


* The above recommendation is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

Precautions when using DTF film and powder

1. Protect the DTF film from exposure to air

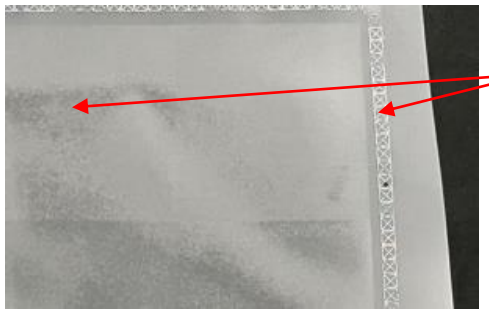
- Air can affect the quality of DTF film.
- To keep the DTF film in good condition, it is necessary to wrap it in air-protective plastic bag when not in use.



The air affected surface of the film with uneven print quality

2. Check the DTF film surface after transfer

- No ink should remain on DTF film after transfer to fabric.
- If ink particles remain on the DTF film after transfer, the DTF film may not be compatible with the ink and should be replaced with another type.



Bad receiving layer
Ink remains on DTF film



Good receiving layer
Ink does not remain on DTF film after transfer

3. Safety precautions DTF powder

- DTF uses a fine powder that can cause damage if splashed on face or eyes.
- Always follow the instructions on the MSDS sheets of the DTF powder for proper handling and safety precautions.



APPENDIX

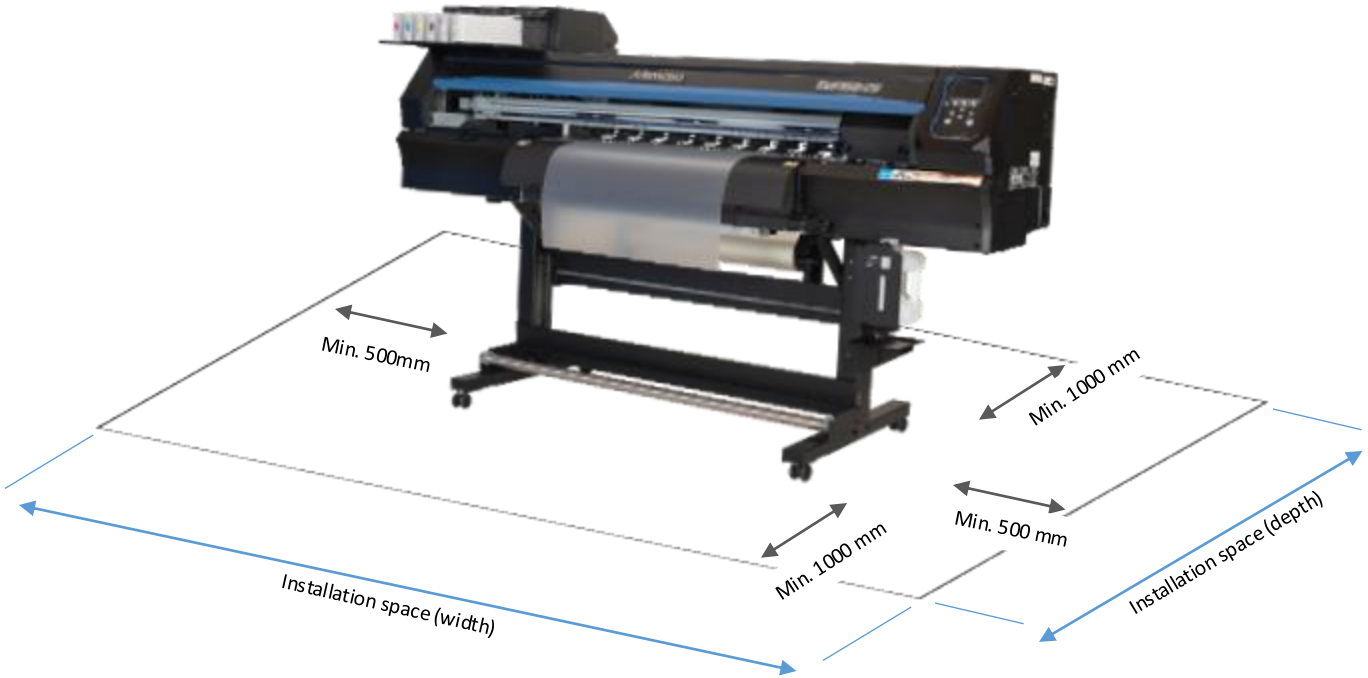
- Specifications
- Certificates
- Maintenance recommendations
- Supplies
- Options

TxF Series | Specification of main unit

Item		TxF300-1600	TxF300-75Plus	TxF150-75
Printhead	Number	2-heads (staggered)		1-head
	X,Y resolution	X:720, 1,440 dpi; Y: 720, 1,080, 1,440 dpi		
Ink	Supported inks	Heat Transfer Pigment ink PHT50　5C (CMYK+W)		
	Ink supply	600ml degassed aluminum pack CMYK x1 500ml degassed aluminum pack W x4		600ml degassed aluminum pack CMYK x1 500ml degassed aluminum pack W x2
Media	Max. media width	1,620 mm	810 mm	
	Maxi. printing width	1,610 mm	800 mm	
	Print Margin	Left / Right: 15 mm (Min. 5 mm) Front: 120 mm, Back: 150 mm		
	Max. roll weight and diameter	45 kg or less		
	Max. roll diameter	Φ250mm or less		
	Paper tube inner diameter	2 inches, 3 inches		
	Media Cutter	Installed		
Other	Heater	Pre/Print/Post (Temp. up to 50℃)		
	Head gap	Manual, 3 positions (2.0/2.5/3.0 mm)		
	Maintenance cartridge	Available		
	Nozzle recovery system	Installed		
	White ink circulation function	Installed		
	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/200～240V±10%, 50/60Hz±1Hz		
	Power consumption	AC200～240V: 1,750W or less x1	AC200～240V: 1,300W or less x1	AC200～240V: 1,200W or less x1
	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;		
	RIP Software	RasterLink 7		

TxF Series | Packing and installation

- Required installation space



Installation environment

1. Make sure to use in a ventilated environment
   Environmental temperature: 20˚C ~ 30˚C
   Quality assurance temperature: 20˚C - 25˚C
   Humidity: 35 - 65%Rh (no condensation)
   Temperature gradient: +/- 10˚C/h or less
   Dust: 0.15mg/m^2 (comparable office)
2. Do not install on carpets, etc. because those are easy to be charged and it can affect the image quality
3. Please use the printer in a well-ventilated environment.
4. Do not install in the place were using a photograph fixer or the place with acid steam like acetic acid, hydrochloric acid

	Dimensions	Width	Depth	Height	Weight	Manpower for installation
TxF150-75 TxF300-75	Outside dimension	1,965mm	700mm	1,392mm	126kg	A minimum of four (4) persons are required to lift the printer during installation.
	Installation space	2,965mm	2,700mm			
TxF300-1600	Outside dimension	2,783 mm	700 mm	1,392 mm	166 kg	
	Installation space	3,783 mm	2,700 mm			

TxF Series | Certificates

- OEKO-TEX® ECO-PASSPORT Certification for textile inks
  - Mimaki ink PHT50 is ECO PASSPORT certified.
  - ECO PASSPORT by OEKO-TEX® is a mechanism by which textile chemical suppliers demonstrate that their products are suitable to print skin-friendly clothing and other textiles for end users.
  - This certificate therefore constitutes an important decision-making element when purchasing inks for textile production.

- RECYCLABLE INK PACKAGE
  - In September 2015, the United Nations launched the 17 Sustainable Development Goals (SDGs) for the 193 member states of them as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity, by 2030.
  - An important part of the overall environmental performance is the recyclability of used consumables. PHT50 ink is supplied in an eco-friendly packaging consisting of 4% plastic and 96% recyclable cardboard container. This packaging can be recycled in accordance with local recycling regulations.

TxF Series | Recommended maintenance frequency

Maintenance item	TxF Series
White ink shaking	Less than 72 hours since last stir: Stir at least 40 times. More than 72 hours since last stir: Stir at least 100 times.
Maintenance frequency	Once a day
Maintenance time	Approx. 15 min
Maintenance areas	• Around the head (back of carriage) • Wiper • Cap

Cleaning frequency	• During printing: normal cleaning 1 time each 2h
	• Sleep mode: normal cleaning 1 time each 6h
	• When environment changes:
	  • Normal cleaning 1 time each 10℃-step change
	  • Nozzle cleaning: 1 time each 2 days



Gently shake white ink cartridges once a day for at least 40 times

Note about white ink

- White ink can sediment in DTF printers, potentially causing nozzle clogs and uneven shading.
- Gently shake the cartridge from side to side while wearing gloves.
- Avoid excessive shaking to prevent damage or ink leakage.
- If ink levels are low, tilt the cartridge vertically for adequate agitation.

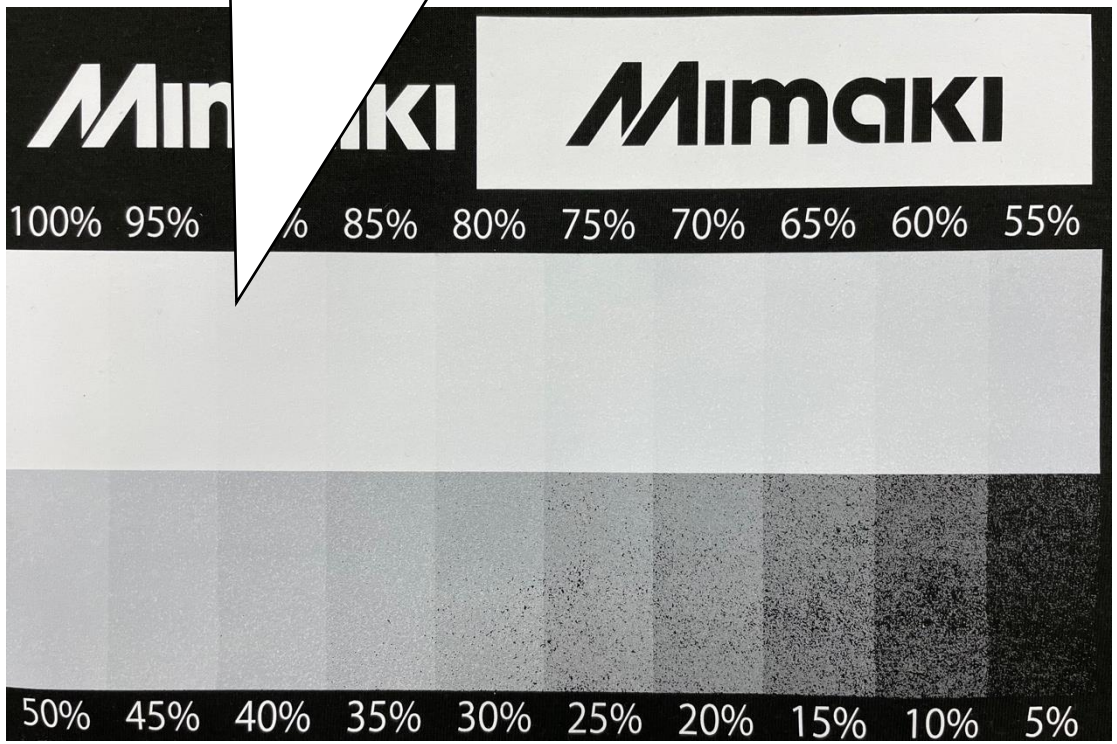
* The above recommendation is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

TxF Series | White ink stirring

The benefits of regular ink stirring:

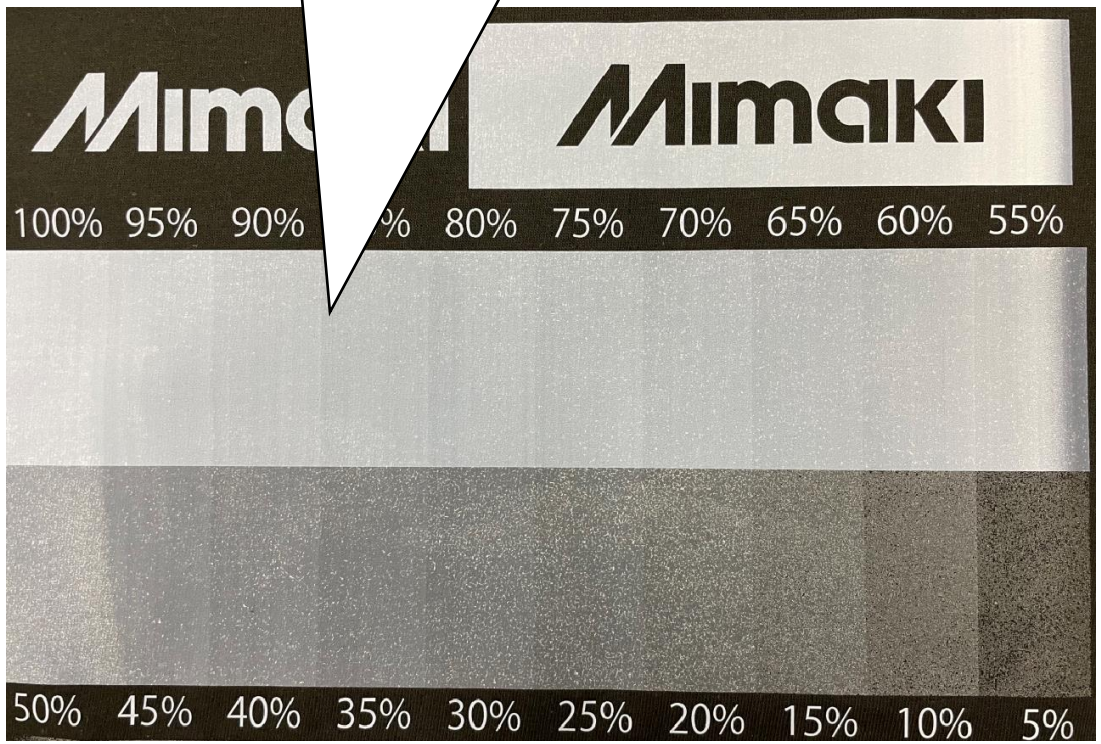
- Regularly stirring the ink daily maintains high ink quality, ensuring optimal performance.

Clear gradation and high opacity for full covering of fabric color.



Proper daily stirring of 40+ times a day

Thin white ink with uneven density reveals the fabric color due to weak concealment.

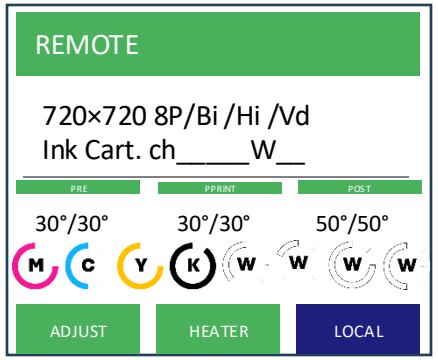


Printing after not stirring for a week

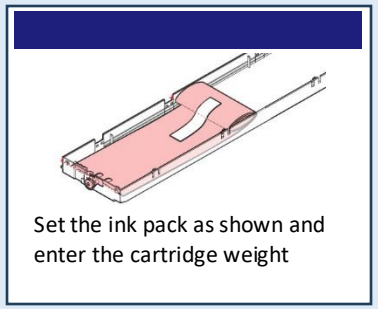
* The result is based on Mimaki's internal evaluation and Mimaki does not guarantee the content. Pre-testing is recommended.

TxF Series | Ink cartridge check

If Ink cartridge check is displayed



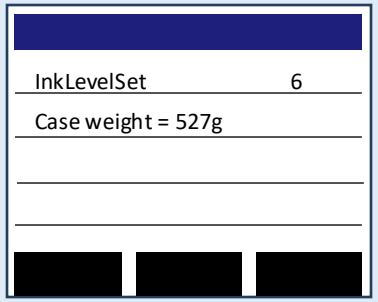
1



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



2



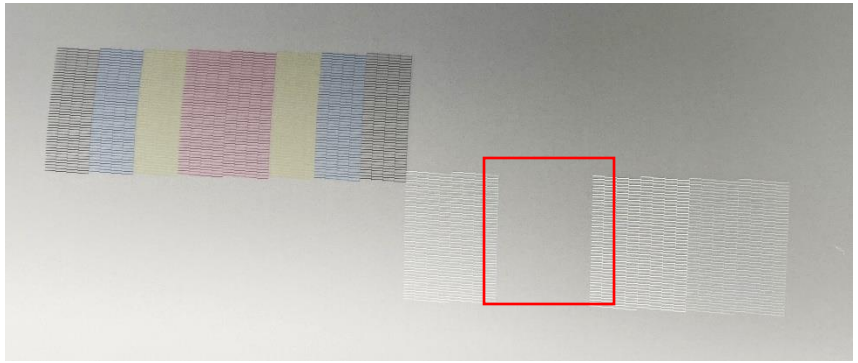
Measure the weight of the entire eco cartridge including the ink pack and enter the measured weight and press the [ENTER] key.



Attention

When printing continues without folding the ink pack...

There is a risk that ink may not be dispensed.



Ink cartridge check：This is a warning message that appears when the ink remaining in the cartridge is below 100ml.

TxF Series | Ink supply

Part No.	Description	Volume	Packaging	Remarks
PHT50-x-60	Pigment Heat Transfer Ink PHT50 color	600ml	Bag	x = M, C, Y, K
PHT50-W-50	Pigment Heat Transfer Ink PHT50 white	500ml	Bag	White ink
FL003-Z-22	Flushing Liquid 03	220ml	Cartridge	For machine maintenance

TxF Series | Consumables

Part No.	Description	Remarks
SPA-0107	Media cutter blade	1 piece
SPC-0527	Cleaning Stick for Head Surrounding	50 sticks
SPA-0134	Wiper Kit 33S	10 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
SPA-0354	PR-TxF	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

TxF Series | Options

Part No.	Description	Remarks
OPT-J0572	Additional 4 cartridge option	TxF300series only

Revision history

Version	Date	Content	Drafter
1.0EU	03-04-2023	1st release	Product Management EMEA
1.3EU	26-09-2023	Added TxF300-75 model to the presentation. P31: New Slide P41: New recommendations maintenance frequency. P42: New Slide	Product Management EMEA
1.5EU	10-09-2024	Added TxF300-1600 model Added PICT and Remote Access software	Product Management EMEA
1.6EU	02-12-2024	P39-40: Optional white cartridge for TxF300 P52: Ink cartridge check procedure P55: Options	Product Management EMEA
1.61EU	15-04-2026	Added model TxF300-75Plus	Product Management EMEA

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