An abundance of textile inks to choose from.
Textile pigment ink and sublimation dye ink can be loaded at the same time

Depending on the type of application and fabric, 5 different type of inks can be choose from*[1]. It is now possible to choose textile pigment ink (TP400) and sublimation dye ink (Sb420) at the same time*[2], making possible to print with only one machine on cotton, hemp, polyester and similar textile.

Ink type	Product name	Color	Features	Applicable fabric
Sublimation dye ink	Sb420	Bl, M, Y, K, Lbl, Lm	Sublimation ink for direct printing. No transfer paper is required.	Polyester
Disperse dye ink	Dd400	C, M, Y, K, R, Gray, Violet, Pink	Inks are fixed by heating and have high durability.	Polyester, nylon, acetate, and other fibers
Textile pigment ink	TP400	C, M, Y, K, Bl, R, Lk	Simple post-printing process. No steaming, washing and drying processes are required. Inks are fixed by only heating. *[1]	Cotton, hemp, and other fibers
Reactive dye ink	Rc400	C, M, Y, K, Bl, R, Or, Lk	Inks produce vibrant colors, reproduce a wide gamut of colors, and have water resistance, light-fastness, and rub-fastness because of dyestuff molecule bonding with the fibers.	Cotton, hemp, silk, rayon, and other fibers
Acid dye ink	Ac400	C, M, Y, K, Bl, R, Or, Lk	Inks produce vivid and brilliant colors on animal fibers and synthetic protein fibers such as nylon.	Wool, leather, silk, nylon, and other fabrics

*[1] Please select an ink type depending on your intended use. The ink type cannot be changed after installation. With the hybrid function two types of inks (textile pigment and sublimation dye ink) can be loaded.

*[2] Available from June 2017. Each textile pigment ink (TP400) and sublimation dye ink (Sb420) has 4 colors (C,M,Y,K)

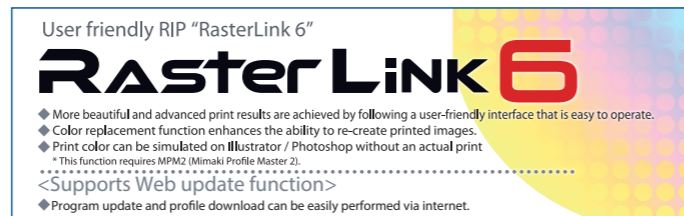*[3] Depending on the type of printing, steaming and washing may be needed.

Software

TxLink3 Lite or RasterLink6 is bundled according to user's request.

Professional software RIP for multi color separation
Software RIP for Multi Color Separation
TxLink3

◆Spot color can be assigned to each color on separation plates.
◆ICC profile creation from CMYK + spot colors.
◆Color replacement on raster data
◆A variety of paneling functions, including step-and- repeat layout, which are useful for textile designing.

User friendly RIP "RasterLink 6"
RasterLink6
◆More beautiful and advanced print results are achieved by following a user-friendly interface that is easy to operate.
◆Color replacement function enhances the ability to re-create printed images.
◆Print color can be simulated on Illustrator / Photoshop without an actual print
 * This function requires MPM2 (Mimaki Profile Master 2).
<Supports Web update function>
◆Program update and profile download can be easily performed via internet.

Specifications

Item		Tx300P-1800
Printhead		On-demand piezo head (4 in-line printheads)
Print resolution		360 dpi, 540 dpi, 720 dpi, 1,080 dpi, 1,440 dpi
Maximum print width		1,920 mm (75.6 in)
Maximum media width		1,920 mm (75.6 in)
Ink	Type/Color	Sublimation dye ink: Sb420 (Bl, M, Y, K, Lbl, Lm) Disperse dye ink: Dd400 (C, M, Y, K, R, Gray, Violet, Pink) Textile pigment ink: TP400 (C, M, Y, K, Bl, R, Lk) Reactive dye ink: Rc400 (C, M, Y, K, Bl, R, Or, Lk) Acid dye ink: Ac400 (C, M, Y, K, Bl, R, Or, Lk)
	Package size	2L Ink pack
Media thickness		1.0 mm or less
Rolled media weight		40 kg (88 lb) or less Please note that the above maximum weight applies on a printed roll including ink weight.
Certifications		VCCI class A, FCC class A, ETL UL 60950-1 CE Marking (EMC, Low voltage, Machinery directive, and RoHS), CB, REACH, Energy Star, and RCM
Interface		USB 2.0 Hi-speed/Ethernet 1000BASE-T
Power supply		Single-phase AC100-120 V / AC200-240 V
Power consumption		AC100 V: 1.44 kW / AC200 V: 1.92 kW
Operational environment		Temperature: 20-30°C (68-86°F) Humidity: 35-65% Rh (Non condensing)
Dimensions (W x D x H)		3,200 x 965 x 1,857 mm (126 x 38 x 73 in)
Weight		255 kg (562.2 lb)

Options

Item	Product number	Note
Mist catch unit	OPT-J0396	
Small relay box	OPT-J0370	Interlock controller between a main unit and an external heater
Relay box2	OPT-J0407	
1 inch holder unit	OPT-J0399	Feeder unit for 1 inch-core media
Slip sheet holder unit	OPT-J0405	Holder unit using for prevention of ink set-off

Supplies

Item		Product number	Note
Sublimation dye ink Sb420	Blue	I-SB420-BLD-2L-1	2L ink pack ECO PASSPORT™ Acquired Certification (CertificateNo. NEP1606)
	Magenta	I-SB420-MD-2L-1	
	Yellow	I-SB420-YD-2L-1	
	Black	I-SB420-KD-2L-1	
	Light blue	I-SB420-LBD-2L-1	
	Light Magenta	I-SB420-LMD-2L-1	
Disperse dye ink Dd400	Cyan	I-DD400-C-2L-1	2L ink pack
	Magenta	I-DD400-M-2L-1	
	Yellow	I-DD400-Y-2L-1	
	Black	I-DD400-K-2L-1	
	Red	I-DD400-R-2L-1	
	Violet	I-DD400-V-2L-1	
	Pink	I-DD400-P-2L-1	
	Grey	I-DD400-G-2L-1	
Textile pigment ink TP400	Cyan	I-TP400-C-2L-1	2L ink pack
	Magenta	I-TP400-M-2L-1	
	Yellow	I-TP400-Y-2L-1	
	Black	I-TP400-K-2L-1	
	Red	I-TP400-R-2L-1	
	Blue	I-TP400-BL-2L-1	
	Light black	I-TP400-LK-2L-1	
Reactive dye ink Rc400	Cyan	I-RC400-C-2L-1	2L ink pack
	Magenta	I-RC400-M-2L-1	
	Yellow	I-RC400-Y-2L-1	
	Black	I-RC400-K-2L-1	
	Light black	I-RC400-LK-2L-1	
	Red	I-RC400-R-2L-1	
	Blue	I-RC400-BL-2L-1	
	Orange	I-RC400-OR-2L-1	
Acid dye ink Ac400	Cyan	I-AC400-C-2L-1	2L ink pack
	Magenta	I-AC400-M-2L-1	
	Yellow	I-AC400-Y-2L-1	
	Black	I-AC400-K-2L-1	
	Light black	I-AC400-LK-2L-1	
	Red	I-AC400-R-2L-1	
	Blue	I-AC400-BL-2L-1	
	Orange	I-AC400-OR-2L-1	
Flushing liquid 03		C-FL003-Z-22-1-KA	Flushing liquid for head cleaning 220 ml cartridge
Flushing liquid 03		C-FL003-Z-2L-1-SA	Flushing liquid for ink replacement
Flushing liquid 12		FL012-Z-22-1	Dedicated flushing liquid for TP400 ink 220 ml cartridge
Mist catch filter		SPC-0810	Filter for optional mist catch unit

●Some of sample images in this brochure are simulated. ●Specifications, designs and dimensions stated in this brochure may be subject to change without notice (for technical improvements, etc). ●All product and company names in this brochure are trademarks or registered of the respective companies. ●The printhead ejects extremely fine dots for printing, and therefore printed colors may vary after replacing the printheads. ●When using multiple printer units, printed colors would be different slightly because there is a slight difference among those units. ●Depending on image files used for printing, the print quality would be affected when printing in a low-resolution mode with the lowest number of passes. ●The specifications described in this catalogue are as of Apil 2019.

For **TEXTILES & APPAREL**

Direct Textile Inkjet Printer

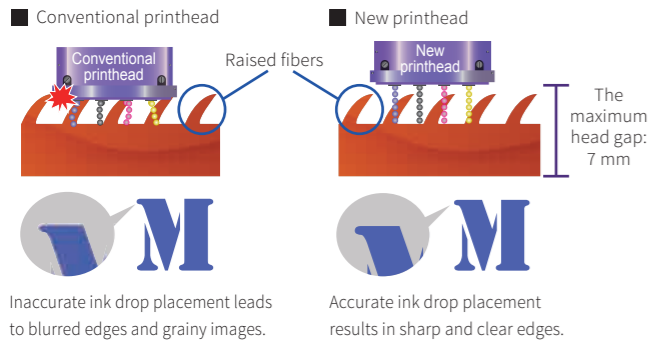# Tx300P-1800

Mimaki™

NEXT IS
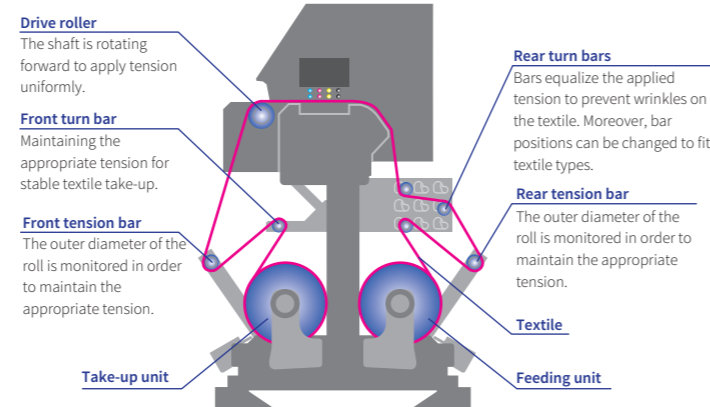## TO THE ULTIMATE ON-DEMAND PRODUCTION

New printhead allows printing on various types of textile

While printing on raised fiber surface textiles, a high head gap setting is required to prevent contact between the printhead and the nap. In conventional models, such gap conditions reduce the accuracy of ink droplet placement. However, the new printhead ejects ink droplets at a high speed to maintain the straightness of the droplet direction, and accordingly accurate ink droplet placement is achieved.
This enables high-quality printing on napped textiles.

■ Conventional printhead
■ New printhead

Conventional printhead | Raised fibers | New printhead

The maximum head gap: 7 mm

Inaccurate ink drop placement leads to blurred edges and grainy images.

Accurate ink drop placement results in sharp and clear edges.

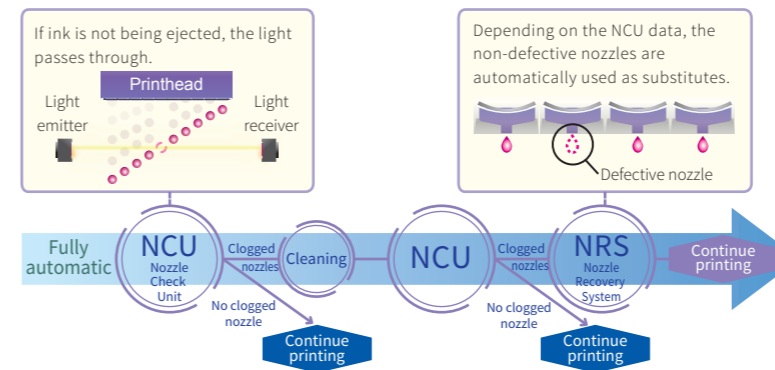## Reliable textile feeding mechanism ensures stable printing

Stable textile feeding and transportation are crucial for direct textile printing. The tension applied to the textile during printing is varied according to changes in the outer diameter of the front and rear rolls. The Tx300P-1800 monitors the applied tension and uniformly applies the optimum tension using the front and rear tension bars. Thus, high-quality printing is achieved during high-speed printing or even when using a large textile roll.

Drive roller
The shaft is rotating forward to apply tension uniformly.

Front turn bar
Maintaining the appropriate tension for stable textile take-up.

Front tension bar
The outer diameter of the roll is monitored in order to maintain the appropriate tension.

Take-up unit

Rear turn bars
Bars equalize the applied tension to prevent wrinkles on the textile. Moreover, bar positions can be changed to fit textile types.

Rear tension bar
The outer diameter of the roll is monitored in order to maintain the appropriate tension.

Textile

Feeding unit

Uninterrupted printing solutions

Continuous operation support pack minimizes the downtime

The Nozzle Check Unit (NCU) detects nonfunctioning nozzles and automatically cleans them. If the nozzles fail to operate after cleaning, defective nozzles are replaced by non-defective ones until a technician arrives, and printing is continued. This feature enables uninterrupted print operations and continuous productivity.

If ink is not being ejected, the light passes through.
Printhead | Light emitter | Light receiver

Depending on the NCU data, the non-defective nozzles are automatically used as substitutes.
Defective nozzle

Fully automatic → NCU Nozzle Check Unit → Clogged nozzles → Cleaning → NCU → Clogged nozzles → NRS Nozzle Recovery System → Continue printing

No clogged nozzle → Continue printing

No clogged nozzle → Continue printing

Standard features of MBIS3 and UISS deliver continuous printing for a long time.

Large two liter ink packs are installed in MBIS3[*1] for long-time continuous printing to reduce operating cost.
As soon as one ink container is empty, UISS[*2] automatically provides ink from another container without any interruption to printing.
These systems supply ink continuously to ensure unattended continuous printing.

*1 MBIS3: Mimaki Bulk Ink System3
*2 UISS: Uninterrupted Ink Supply System

Tx300P-1800

NEXT Ts

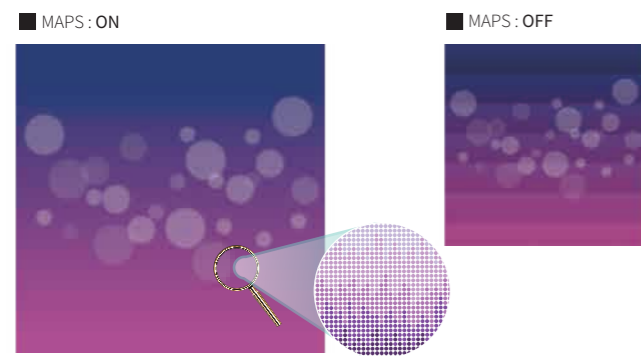Create your own design fabric!
Owing to the widespread use of the Internet, the number of orders for personalized/customized design products has been increasing. To meet the latest market needs, Mimaki developed the Tx300P-1800. This entry-level model fits perfectly in places with limited floor space, such as design studios or school facilities. The Tx300P-1800 delivers high-quality printing on a wide range of textiles.

Eye-catching soft signage

Tx300P-1800

Seat fabrics

Durable printing is fit for outdoor recreation equipment

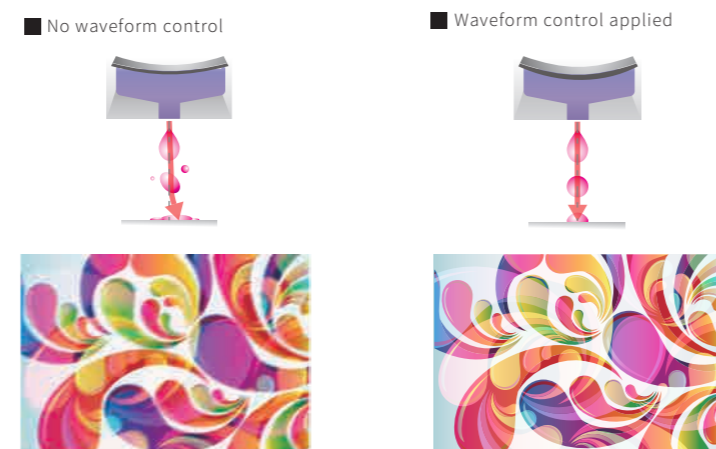Luxury apparel

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Mimaki's print technologies

Mimaki Advanced Pass System 4 (MAPS4) reduces banding

Mimaki's unique anti-banding technique MAPS4 is an advanced version of MAPS3. To prevent banding, swath boundaries are overprinted, whereas boundaries prone to banding are printed with fewer ink droplets.
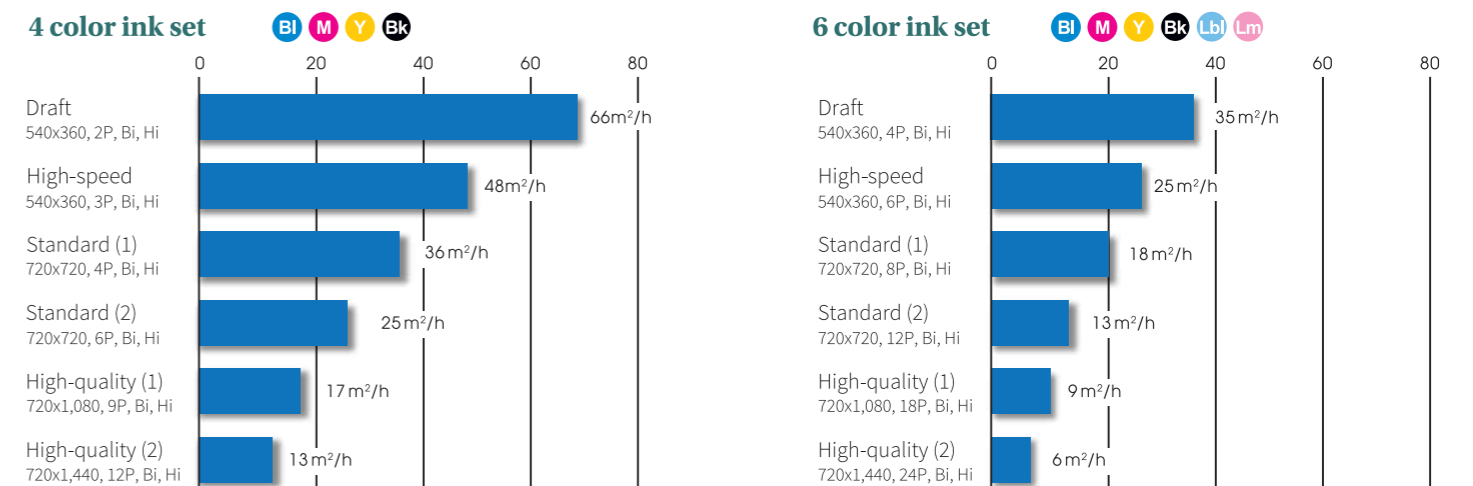
■ MAPS : ON
■ MAPS : OFF

Superior inkjet technology

Mimaki's superior inkjet technology accurately places the ink droplets without losing their perfect circularity. This ensures that texts, lines, and edges are clearly and sharply printed.

■ No waveform control
■ Waveform control applied

Maximum print speed (66 m²/h) *achieves high productivity
*When printing with Sb420 dye sublimation ink.

The Tx300P-1800 optimizes the printing speed and quality to produce the desired print results. For this purpose, it provides a wide range of printing modes, from the draft printing mode (which operates at the maximum speed of 66 m²/h) to high-quality printing mode.

4 color ink set (Bl M Y Bk)

Mode	Speed
Draft 540x360, 2P, Bi, Hi	66 m²/h
High-speed 540x360, 3P, Bi, Hi	48 m²/h
Standard (1) 720x720, 4P, Bi, Hi	36 m²/h
Standard (2) 720x720, 6P, Bi, Hi	25 m²/h
High-quality (1) 720x1,080, 9P, Bi, Hi	17 m²/h
High-quality (2) 720x1,440, 12P, Bi, Hi	13 m²/h

6 color ink set (Bl M Y Bk Lbl Lm)

Mode	Speed
Draft 540x360, 4P, Bi, Hi	35 m²/h
High-speed 540x360, 6P, Bi, Hi	25 m²/h
Standard (1) 720x720, 8P, Bi, Hi	18 m²/h
Standard (2) 720x720, 12P, Bi, Hi	13 m²/h
High-quality (1) 720x1,080, 18P, Bi, Hi	9 m²/h
High-quality (2) 720x1,440, 24P, Bi, Hi	6 m²/h

*When printing with Sb420 dye sublimation ink. DD400,TP400, Rc400 inks cannot print in draft mode.