



Sophisticated RIP software maximizes the performance of Tx300P-1800

Professional software RIP for multi colour separation
Software RIP for Multi Color Separation
TxLink 3 Lite

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

Specifications

| Item | Tx300P-1800 | |
|-------------------------|--|---|
| Printhead | On-demand piezo head (4 in-line printheads) | |
| Print resolution | 360dpi, 540dpi, 720dpi, 1,080dpi, 1,440dpi | |
| Maximum print width | 1,920mm | |
| Maximum media width | 1,920mm | |
| Ink | Type/Colour | Sublimation dye ink: Sb420 (B, M, Y, K, Lbl, Lm) |
| | | Disperse dye ink: Dd400 (C, M, Y, K, R, Grey, Violet, Pink) |
| | | Textile pigment ink: TP400 (C, M, Y, K) |
| | | 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 | 1.0mm or less | |
| Rolled media weight | 40kg (88 lb) or less | |
| Certification | VCCI class A, FCC class A, ETL UL 60950-1 CE Marking (EMC, Low voltage, Machinery directive, and RoHS), CB, REACH, Energy Star, RoHS | |
| Interface | USB 2.0 Hi-speed / Ethernet 1000BASE-T | |
| Power supply | Single-phase (AC100 - 120V / AC200 - 240V) | |
| Power consumption | AC100V : 1.44kW / AC200V : 1.92kW | |
| Operational environment | Temperature: 20 - 30 °C (68 - 86 °F) Humidity: 35 - 65% Rh (Non condensing) | |
| Dimensions (WxDxH) | 3,200 x 965 x 1,857mm | |
| Weight | 255kg | |

**AC400 will be available in the future

Options and Supplies

| Item | Product No. | Remarks |
|----------------------------|---------------|--|
| Sublimation dye ink: Sb420 | Blue | I-SB420-BLD-2L-1 |
| | 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 |
| | Magenta | I-DD400-M-2L-1 |
| | Yellow | I-DD400-Y-2L-1 |
| | Black | I-DD400-K-2L-1 |
| | Red | I-DD400-R-2L-1 |
| | Grey | I-DD400-G-2L-1 |
| | Violet | I-DD400-V-2L-1 |
| | Pink | I-DD400-P-2L-1 |
| | Cyan | I-TP400-C-2L-1 |
| | Magenta | I-TP400-M-2L-1 |
| Textile pigment ink: TP400 | Yellow | I-TP400-Y-2L-1 |
| | Black | I-TP400-K-2L-1 |
| | Cyan | I-RC400-C-2L-1 |
| | Magenta | I-RC400-M-2L-1 |
| | Yellow | I-RC400-Y-2L-1 |
| | Black | I-RC400-K-2L-1 |
| Reactive dye ink: RC400 | Blue | I-RC400-BL-2L-1 |
| | Red | I-RC400-R-2L-1 |
| | Orange | I-RC400-OR-2L-1 |
| | Light black | I-RC400-LK-2L-1 |
| | Cyan | |
| | Magenta | |
| Acid dye ink: AC400** | Yellow | |
| | Black | |
| | Blue | |
| | Red | |
| | Orange | |
| | Light black | |
| Flushing liquid 03 | FL003-Z-22 | Flushing liquid for head cleaning. 220ml cartridge |
| Flushing liquid 03 | FL003-Z-2L | Flushing liquid for head cleaning. 2L pack |
| Flushing liquid 12 | FL012-Z-22 | Flushing liquid for TP400 ink. 220ml cartridge |

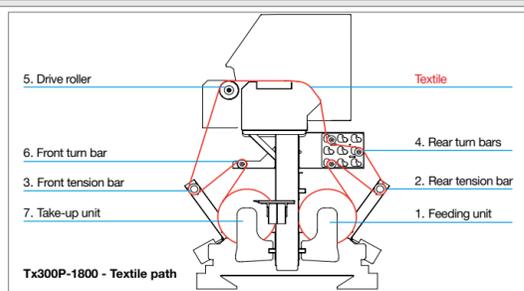
Tx300P-1800



ADVANCED TEXTILE FEEDING MECHANISM FOR OPTIMUM FABRIC TENSION

Stable feeding and transportation is crucial for high quality, accurate direct-to-textile printing. Advanced technology on the Tx300P-1800 achieves this while maintaining optimum tension as a result of Mimaki's unique and reliable techniques, based on years of textile inkjet printer research and development.

- Feeding unit**
- Rear tension bar**
- Front tension bar**
 - Sensors monitor outer diameters of front and rear textile rollers and maintain the appropriate tension during printing.
- Rear turn bars**
 - Bars equalize tension to prevent wrinkles on textile.
- Drive roller**
 - The shaft rotates forward to apply uniform tension.
- Front turn bar**
 - Maintains the appropriate tension for stable textile take-up.
- Take-up unit**



• Some of the samples in this folder are artificial renderings • Specifications, design and dimensions stated in this folder may be subject to change without notice (for technical improvements, etc.)
 • The corporate and merchandise names written on this folder are the trademark of the respective corporations • Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printer units, colours could vary slightly from one unit to other unit due to slight individual differences • 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 • Composer's errors reserved

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Direct-to-Textile inkjet printer...



Mimaki

The world imagines... Mimaki delivers



Mimaki

A high quality, versatile, direct-to-textile inkjet printer...

Mimaki's undisputed expertise in the digital textile sector is reflected in the innovative new Tx300P-1800 with its capability to print direct onto almost any type of natural or man-made fabric. Effortlessly combining quality and high speed, Tx300P-1800 is ideally suited to applications such as fashion, furnishing, soft signage and exhibitions.

Tx300P-1800 delivers ...

- Maximum print speed of 66m²/h (when printing with Sb420 sublimation dye ink)
- Sublimation, disperse, reactive & acid dye and textile pigment inks
- Advanced Textile Feeding Mechanism for optimum fabric tension
- Mimaki Bulk Ink System (MBIS) and large volume ink packs
- Latest Mimaki Advanced Pass System (MAPS) to reduce banding
- Nozzle Check Unit (NCU) ensures reliable continuous print operation
- High head gap setting for thick and woven textiles
- Unique dual ink capability to simultaneously load textile pigment and sublimation dye inks on one printer

- 1,920mm MAX PRINT WIDTH
- 66m²/h MAX. SPEED
- 1,080DPI MAX RESOLUTION
- UNATTENDED CONTINUOUS OPERATION
- HIGH PERFORMANCE TEXTILE RIP SOFTWARE



Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks and cutting blades.

From outdoor signage and billboards to interior decoration and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

KEY TECHNICAL FEATURES ...

5 Ink types for a range of applications and textile types*

| Ink type | Product name | Colour | Features | Application | Applicable fabric |
|-----------------|--------------|-----------------------------------|---|---|---|
| Sublimation dye | Sb420 | Bl, M, Y, K, Lbl, Lm | Sublimation ink for direct printing. No transfer paper is required. | Soft signage | Polyester |
| Disperse dye | Dd400 | C, M, Y, K, R, Grey, Violet, Pink | Inks are fixed by heating and have high durability. | Industrial textile, Luxury apparel, Home furnishing | Polyester, nylon, acetate, and other fibres |
| Textile pigment | TP400 | C, M, Y, K | Simple post-printing process. No steaming, washing and drying processes are required. Inks are fixed only by heating. ⁽¹⁾ | Apparel, Home furnishing | Cotton, hemp, and other fibres |
| Reactive dye | Rc400 | C, M, Y, K, Bl, R, Or, Lk | Inks produce a wide and vibrant gamut of colours, and have water resistance, light-fastness and rub-fastness, as dyestuff molecules bond with the fibres. | Apparel, Home furnishing | Cotton, hemp, silk, rayon, and other fibres |
| Acid dye | Ac400 | C, M, Y, K, Bl, R, Or, Lk | Inks produce vivid and brilliant colours on selected natural or synthetic fibres. | Apparel, Home furnishing | Wool, leather, silk, nylon, and other fabrics |

Select an ink type depending on your intended use. The ink type cannot be changed after installation.

⁽¹⁾ Depending on your print requirements, washing may be recommended.

Unique dual ink capability

With the innovative dual ink capability, Tx300P-1800 can simultaneously load both textile pigment and sublimation dye inks. This enables the use of a single printer to print directly on a wide range of textiles without the need to change out ink systems.

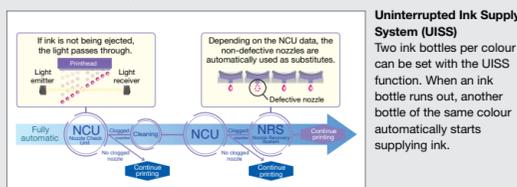
Mimaki's TP400 textile pigment ink and Sb420 sublimation dye ink do not generally require steaming and washing in the post-treatment process, so there is no need for a large space, a huge quantity of water, or special expertise in handling the printed fabric. All that is required is the printer and colour fixing equipment.



Continuous Uninterrupted Printing Features

Nozzle Recovery Function

In the event of a nozzle malfunction not being repairable by the use of the maintenance function, printing can continue by the use of another nozzle, without any loss of productivity or a reduction in image quality.



Uninterrupted Ink Supply System (UISS)

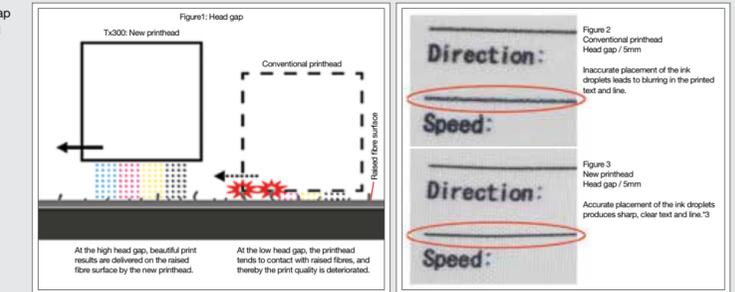
Two ink bottles per colour can be set with the UISS function. When an ink bottle runs out, another bottle of the same colour automatically starts supplying ink.

HIGH HEAD GAP SETTING FOR THICKER TEXTILES

While printing on raised fibre surface textiles, a high head gap setting is required to prevent contact between the printhead and any raised fibres. (FIG.1)

On more conventional models, restricted head gap reduces the accuracy of ink droplet placement. (FIG.2)

The new Tx300P-1800 employs a new advanced printhead with a high head gap to ensure accurate ink droplet placement, thereby enabling high-quality printing on a wide variety of fabric types. (FIG.3)

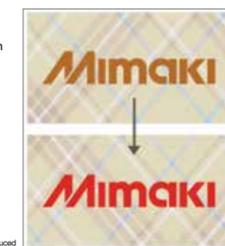


¹⁾ Optimum head gap varies depending on print conditions.
Ink / Sb420 ink
Recommended head gap / 3 mm

HIGH PERFORMANCE TXLINK3 LITE RIP SOFTWARE

1) Colour replacement

1. Create desired colours
When the printed colour differs from that expected, the colour replacement function enables a user to specify the desired printing colour as the target colour. This function is useful for reproducing corporate colours.



Target colour is reproduced

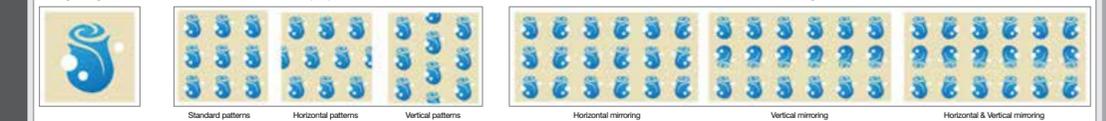
2. Easy to create different colour data
With TxLink3 Lite, colours are easily replaced on vector and raster data.



Easy colour replacement on raster data

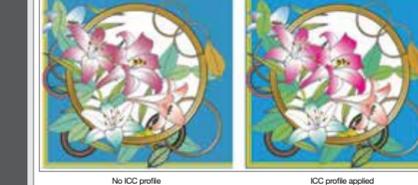
2) Step and repeat

Large seamless patterns can be produced from a single image, including repeat and mirror patterns.



3) Multicolour ICC profile creation

ICC profiles can be created simply to match a target colour by following the wizard.



COLOUR PROFILE CREATION PROCEDURES

1. Specify the ink colour for each ink slot.
2. Set the total ink limit
Print the ink limit chart, then set the maximum ink volume.
3. Measure the ink density error
(Adjustment of ink density gradation) Each ink density is measured. Density is automatically calculated and adjusted.
4. ICC profile creation
Measurement of the configuration chart printed from Colour GPS. The profile is automatically created.