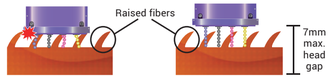
TX300P features-at-a-glance

- Direct-to-textile inkjet printer.
- Employs a new print head for accurate, sharp high gap imaging on various types of textiles.
- Uses Mimaki Sb420 ink.
- Bulk 2-liter ink pack delivery system.
- Print resolutions up to 1080 dpi.
- 76.7-inch media width.

THE LATEST TEXTILE PRINTING TECHNOLOGY

New, accurate imaging high gap print head.

When direct printing on raised fiber textiles, a higher head gap is required in order to prevent potential head strikes. Conventional high-gap heads often produce uneven results. The TX300P printer employs a new print head that ensures accurate ink droplet placement with a high head gap, enabling high quality printing on napped textiles.

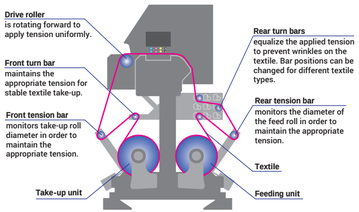


Conventional high gap print head ink placement

Newly developed high gap print head with high speed ink placement

Stable media feeding and take-up.

Stable textile feeding and transportation are crucial for direct to textile printing. The Automatic Media Feeder (AMF) mechanism continually adjusts media tension at both the feed and take-up rolls for optimal high-speed printing. This automatic tensioning also eliminates textile wrinkling for accurate imaging and less waste.

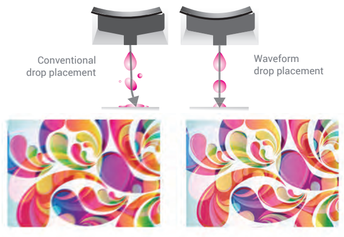


Mimaki Advanced Pass System 4 (MAPS4) technology reduces the appearance of banding.

MAPS4 applies ink in gradations over several passes using a blending mask pattern. This unique imaging technology facilitates higher speed bi-directional printing by reducing banding created by uneven ink drying.

Superior inkjet technology provides precise, consistent high quality imaging.

Mimaki's proprietary Waveform inkjet technology controls the shape of the ink drop to an almost perfect sphere for precise placement. This results in sharper lines, text and image edges even at high speeds.



INK VERSATILITY

Five ink types for printing to natural and synthetic fibers.

Mimaki original inks are specifically designed for exceptional color reproduction on either natural or synthetic fibers for producing flags, banners, fashion textiles, performance sportswear, interior décor and more.

M Bl Y K LBl LM **Sb420 Ink Set**

Mimaki Bulk Ink System 3 (MBIS3) and UISS deliver extended, continuous printing.

The MBIS3 accepts high capacity 2-liter ink packs for longer unattended printing and lower ink costs. In 4-color mode Mimaki's automated Uninterrupted Ink Supply System (UISS) can be implemented to automatically switch from an emptied ink pack to the full ink pack for continuous unattended operation.

AUTOMATED QUALITY ASSURANCE

Real-time reliability.

TX300P printers are equipped with Mimaki's Nozzle Check Unit (NCU) that automatically detects and cleans clogged nozzles while the machine is printing. The Nozzle Recovery System (NRS) compensates for any nozzle which fails to clear. If for any reason the printer experiences nozzle drop out, rather than stopping, the printing operation can continue by registering with NRS that a particular nozzle has experienced a drop out.

With Nozzle Recovery System

Without Nozzle Recovery System

CHOICE OF SOPHISTICATED RIP SOFTWARE MAXIMIZES PERFORMANCE

RasterLink6

Intuitive and user-friendly operation

Simplify RIP operations.
The "Register as Favorite" feature saves regularly used RIP layouts and operations in a single window for quick retrieval.

Color replacement function.
This feature enhances the ability to re-create printed images.

Web software update function.
Program updates and profiles can be downloaded via the Mimaki USA website.

TxLink3

For digital textile applications

Color replacement function.
The color replacement function enables a user to specify the desired printing color as the target color – useful for reproducing corporate colors and creating colorways.

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

Multiple ICC profile creation.
Quick and easy procedure for creating new ICC ink profiles.

TX300P-1800 SPECIFICATIONS | INKS

Item		Specifications
Print Head		On-demand piezo head (4-heads, inline)
Print Speeds (4 color mode)		Draft (2-pass): 732 SqFt (68 SqM) / Hr. Standard (6-pass): 398 SqFt (37 SqM) / Hr. High Quality (9-pass): 194 SqFt (18 SqM) / Hr.
Print Resolution		360, 540, 720, 1080 dpi
Ink	Textile Ink	Sb420: 4-color (Bl, M, Y, K) 6-color (Bl, M, Y, K, LBl, LM)
	Ink Supply System	2L packs
Drop Size		Min: 5pl Max: 25pl
Print Head Height		Manual adjustment: 2mm ~7mm Standard: 3mm
Maximum Print Width		75.5 in. (1,920 mm) on a 2- or 3-inch core
Media – Textile	Maximum Width	75.5 in. (1,920 mm) on a 2- or 3-inch core
	Thickness	0.1 mm or less
	Roll Weight	88 lb. (40 kg) or less
	Print Aspect	Outside
Media Take-Up Device		Roll take-up device, inside/outside selectable
Interface		USB2.0 / Ethernet
Applicable Standard		VCCI class A, FCC class A, UL 60950-1ETL, RoHS, REACH, EnergyStar CE Marking (EMC, low voltage and machinery directive), CB report, RCM
Power Specification		Single-phase AC 100~120V / 220~240V, ±10% 50/60Hz±1Hz
Power Consumption		AC100V: 1440W AC200V: 1920W
Operational Environment		Temperature: 64°F - 86°F
		Humidity: 35% - 65% Rh (non-condensing)
Dimensions (W×D×H)		126" x 38" x 73"
Weight		562.2 lbs. (255 kg)

Ink Type	Colors	Features / Fabric
Sb420 Sublimation dye ink	Bl, M, Y, K, LBl, Lm	Sublimation ink for direct printing. No transfer paper is required. Polyester
Dd400* Dispers dye ink	C, M, Y, K, Bl, R, Lk, Gr	Inks are fixed by heating and have high durability. Polyester, Nylon, Acetate and other fibers
TP400* Textile pigment ink	C, M, Y, K, Bl, R, Lk, Gr	Simple post-printing process. No steaming, washing or drying processes required. Inks are fixed by only heating. Cotton, Hemp and other fibers
RC400* Reactive dye ink	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
AC400* Acid dye ink	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

*Future availability.

Print speeds are based on factory tests. Total throughput depends upon front-end driver/RIP, file size, printing resolution, ink coverage, network speed, etc. For best performance, always use Mimaki original inks. Specifications subject to change without notice.

Inkjet printers print using extremely fine dots, so colors may vary slightly after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to another due to slight individual differences.

Some of the samples in this brochure are artificial renderings. Specifications, design and dimensions stated may be subject to change without notice (for technical improvements, etc.).

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TX300P

Mimaki TX300P-1800 Textile Printer

High speed, dedicated direct-to-textile printer.

Mimaki

HOME DECOR

SOFT SIGNAGE

A world of direct-to-textile printing.

The TX300P printer includes many features found in high-end direct-print models, but with a lower cost-of-ownership model suitable for users creating samples or short-run pieces. Custom fashions, runway designs and quick-response orders can all be economically produced on a wide variety of natural and synthetic fabrics.

FABRIC BACKLITS

CUSTOM APPAREL

CUSTOM TEXTILES

Direct-to-textile printing.

The **Mimaki TX300P-1800** direct textile inkjet printer is driving new levels of quality and productivity for digital textile applications. Specifically engineered for the textile printing industry, the TX300P printer revolutionizes printing on fabrics, while maintaining extremely high quality output. New Mimaki engineered technologies, including vibrant Sb420 textile inks, a clutched media take-up system with automatic feed compensation, and high force variable drop piezo print heads deliver improved print production yields, unattended runs, and exceptional image quality. The TX300P printer provides the confidence to step up your direct-to-textile production, increase your throughput, reduce waste and return profit directly to your bottom line.

BUILT-IN 2-LITER BULK INK DELIVERY SYSTEM

Mimaki's Bulk Ink System, with its 2-liter ink packs and automated Uninterrupted Ink Supply System, reduces operational costs by facilitating longer print runs. So you reduce operator intervention and increase printer utilization and operational output.

MORE ACCURATE HIGH GAP PRINT HEAD

Textiles come in all shapes and nap heights. The TX300P printer includes new printh eads for printing on various materials including thin or thick textiles, plus woven patterns or raised fiber surfaces. You'll get quality print reproduction from broadcloth to brocade.

AMF MEDIA STABILIZER

High-speed direct-to-textile imaging requires accurate textile feed and take-up. The Automatic Media Feeder mechanism maintains consistent textile tension and minimizes the possibility of wrinkling enabling continuous high-speed printing of heavy, rolled textiles. A textured front drive roller ensures stable fabric transport through the print zone.

VIBRANT DIRECT-TO-TEXTILE INKS

Mimaki original inks for direct-to-textile printing deliver exceptional color reproduction on either natural or synthetic fibers. Depending on your fabric and the application, select from a variety of inks including sublimation dye, disperse dye, textile pigment, reactive dye or acid dye.

WORKFLOW ENHANCEMENTS

The TX300P printer can be connected to a network via Ethernet (or USB 2.0) connection, for flexibility in setting up the workflow. Via the Remote Event Notification feature, it can relay status information such as start, finish or error messages to a mobile phone or computer.