

# TS500P



## Mimaki TS500P-3200 Dye-Sublimation Printer

Super wide-format, dedicated dye-sublimation inkjet printer



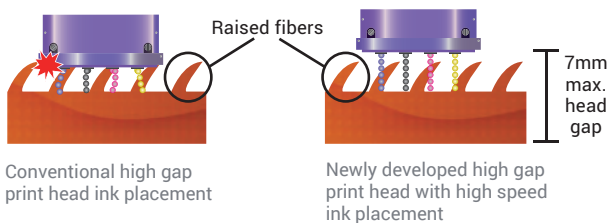
# TS500P features-at-a-glance

- Dedicated transfer paper printer
- Extra wide width of 129.9 inches (3.2 meters)
- Employs a new print head for accurate, sharp high gap imaging on thin transfer paper
- 12 print heads in a staggered configuration for productivity of up to 1937 sqft/hr.
- Uses Mimaki SB310 sublimation ink in a 4 or 6 color configuration
- Three-liter ink capacity via an external ink feeding system

## THE LATEST SUBLIMATION TECHNOLOGY

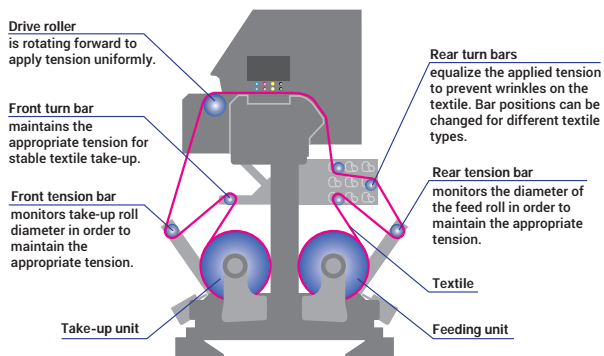
### New, accurate imaging high gap print head.

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 TS500P printer employs a new print head that ensures accurate ink droplet placement with a high head gap, enabling high quality printing on napped textiles.



### 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.

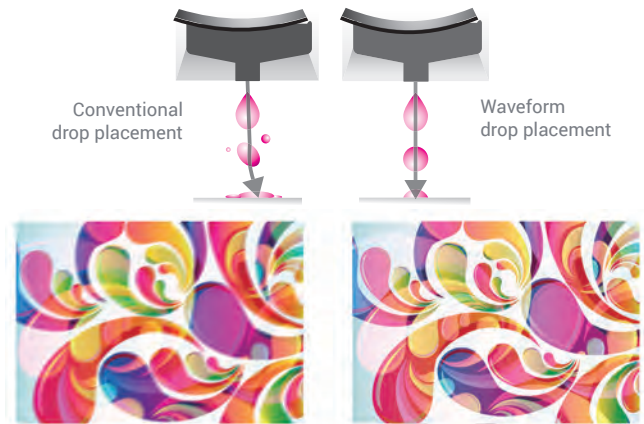


**Mimaki Advanced Pass System 4 (MAPS4) technology reduces the appearance of banding.**

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

### High performance sublimation ink

Mimaki-developed and manufactured Sb310 sublimation inks deliver the same color density and reproducibility of popular Sb310 inks, but with more vibrancy. This formulation offers superior jetability that continuously delivers high quality printing.



### Gravity method, external bulk ink for extended printing

The external 3-liter bulk ink system enables long, unattended print runs. Inks can be replenished without stopping the printer. A gravity method detects ink levels, indicated by LEDs on the ink system's front panel.

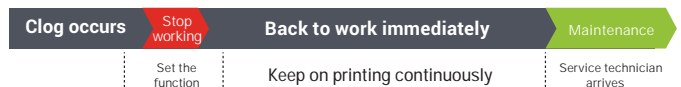
The Mimaki Uninterrupted Ink Supply System (UISS) automatically switches to a backup when one color is empty. In a 4-color set-up, UISS is activated for each color, providing a maximum of 6 liters of color for long runs.

## AUTOMATED QUALITY ASSURANCE

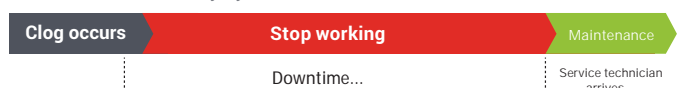
### Real-time reliability.

TS500P 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





# Super wide dye-sublimation printing

The TS500P-3200 printer is a 129.9-inch (3.2 meter) wide, dedicated transfer model developed for production transfer runs to create extra-wide textile applications such as soft signage, home furnishing and hospitality fabrics. Designed to print onto the thinnest of transfer paper, it includes a high gap print head that is unaffected by cockling that is a common occurrence when using thin media, while maintaining extremely high quality output.



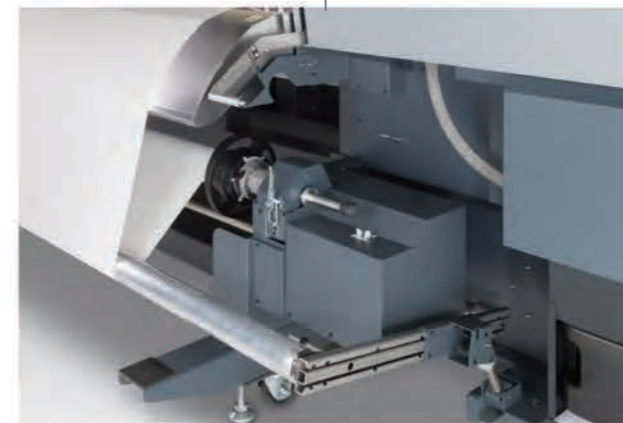
## HIGH GAP PRINT HEAD

Thin transfer papers – desirable because of more square footage per roll – are susceptible to cockling, creating media transport problems and potential head strikes. The TS500P printer employs a new print head that ensures accurate ink droplet placement with a high head gap, enabling high quality printing on thin transfer paper.



## PRODUCTION PRINT SPEEDS

With 12 print heads, the TS500P printer delivers high productivity with print speeds of up to 1937 square feet per hour in four-color mode. Print speeds of up to 1130 square feet per hour can be achieved in six-color mode.



## MEDIA HANDLING SYSTEM

The Auto Media Feeder applies calibrated tension to the media, maintaining stable and precise media feed and take-up. This also reduces telescoping during take-up and eliminates the potential for buckling or creasing during the calendar transfer process thereby accommodating long run, full roll transfers. Four independent post-print heaters reduce cockling for smoother transport to the take-up reel.



## WORKFLOW ENHANCEMENTS

The TS500P 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.





FABRIC BACKLITS

## Create custom super wide applications

The TS500P printer is ideal for transfer applications to wide fabrics for home furnishings and interior décor. Create coordinating curtains, bedspreads, carpets, accent pieces and furniture coverings and more with one high-production unit. Its 126-inch wide capacity meets today's increasing demand for soft signage applications including stretch-frame fabric graphics, trade show exhibits, backlit applications, and flags & banners. It can also be used to create longer transfer runs for custom fashion apparel.



HANGING BANNERS



FABRIC EXHIBITS

FABRIC PRODUCTION



HOME DECOR





## CHOICE OF SOPHISTICATED RIP SOFTWARE MAXIMIZES PERFORMANCE

### Raster Link 6

*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.

### TS500P-3200 SPECIFICATIONS | INKS

Item	Specifications	
Print Head	On-demand piezo head (12 heads, in 3 staggered lines)	
Print Speeds (4 color mode)	Draft (2-pass): 1937 SqFt (180 SqM) / Hr. Standard (6-pass): 753 SqFt (70 SqM) / Hr. High Quality (6-pass): 538 SqFt (50 SqM) / Hr.	
Print Resolution	360, 540, 720, 1080 dpi	
Ink	Sublimation Ink: Sb310: 4-color (Bl, M, Y, K) 6-color (Bl, M, Y, K, LBl, LM) Ink Supply System: 2L bottle / 3L ink reservoir	
Drop Size	Min: 5pl Max: 25pl	
Print Head Height	Manual adjustment: 2mm ~7mm Standard: 3mm	
Maximum Print Width	129.5 in. (3,290 mm)	
Media – Transfer Paper	Maximum Width	129.9 in. (3,300 mm)
	Thickness	0.2 mm or less
	Roll Weight	286.6 lb. (130 kg) or less (applied after printing)
	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 60950-1 ETL, RoHS, REACH, EnergyStar CE Marking (EMC, low voltage and machinery directive), CB report, RCM	
Power Specification	Single-phase AC 200~240V ±10% 50/60Hz±1Hz	
Power Consumption	6,960 W or less	
Operational Environment	Temperature: 68°F - 86°F	
	Humidity: 35% - 65% Rh (non-condensing)	
Dimensions (WxDxH)	Printer: 221" x 71" x 71" Ink supply unit: 37" x 20" x 29"	
Weight	Printer: 3307 lbs. Ink supply unit: 66 lb.	

### TxLink 3

*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.

#### Color management features.

Color QPC enables the operator to calculate and preview target color on a monitor.

Item	Color	2L Pack
Sb310 Sublimation	Blue	Sb310-BLT-2L
	Magenta	Sb310-MT-2L
	Yellow	Sb310-YT-2L
	Black	Sb310-KT-2L
	Light Blue	Sb310-LBT-2L
	Light Magenta	Sb310-LMT-2L

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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