

TX500-1800B



High volume belt-fed textile printer



TEXTILE &
APPAREL



eco

Mimaki

The world imagines... *Mimaki delivers*



ENGINEERING EXCELLENCE
AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global company with large operational bases in Asia and the Pacific, United States and Europe.

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.

... Mimaki delivers

High quality belt-fed printer for volume production of textiles ...

Featuring an automated, belt-fed conveyance system, the Mimaki TX500-1800B is able to print direct to a broad range of natural and man-made fabrics, with a unique combination of both high quality and high production speeds. Capable of delivering long print runs for the fashion and soft furnishing markets, TX500-1800B offers the perfect digital textile manufacturing solution.

TX500-1800B delivers ...

- High speed production up to 140 m²/h (in high-speed mode)
- Automated belt-fed conveyance system
- Multiple ink types to print to; Cotton, Polyester, Hemp (Linen) and Rayon
- Mimaki Advanced Pass System (MAPS) & Correct Feeding Control (CFC) reducing imperfections in high production mode
- Mimaki Degassing Module (MDM-20) enabling use of bottled inks
- Mist Removal Filter for enhanced print stability
- Media roll handling up to 400 mm diameter and maximum weight of 60 kg

REACTIVE / DYE SUB INK FOR DIRECT PRINTING
1820 mm MAX PRINT WIDTH
140 m ² /h MAX. SPEED
1200 DPI MAX RESOLUTION
8 COLOUR MODE
UNATTENDED CONTINUOUS OPERATION
BELT WASHER & DRYER
400 mm MAX. MEDIA ROLL DIAMETER



Create ... Fashion and Apparel, including scarves, dresses, shirts, upholstery, bedding and soft furnishing fabrics, Exhibition Graphics, Wall Art, Textile PoS and much more...

KEY TECHNICAL FEATURES ...

Up to 140 m²/h print speed

TX500-1800B features newly developed 6 print head technology, in staggered formation, featuring 1280 nozzles per printhead, delivering up to 140 m²/h in 4-colour high speed mode. Variable drop sizes of 7 picolitres and 21 picolitres are available.

Draft	140m ² /h (300x300HQ) dpl, 2P, B)	85m ² /h (300x300HQ)dpi, 4P, B)
High Speed	100m ² /h (300x450HQ)dpi, 3P, B)	68m ² /h (600x450dpi, 6P, B)
Standard	60m ² /h (600x900dpi, 6P, B/H)	45m ² /h (600x600dpi, 8P, B/H)
High Quality	45m ² /h (800x1200dpi, 8P, B/H)	22m ² /h (600x1200dpi, 16P, B/H)

4-colour spec

6/8-colour spec

140m²/h (4-colour spec)
85m²/h (6/8-colour spec)

(*The above speeds are achieved by turning OFF banding reduction & correction)

High definition print

Minimum drop size of 7 picolitres realizes smooth gradation and high-definition print. Image quality is further enhanced with variable dot sizes of 7 picolitres and 21 picolitres, delivering non-granular and smooth print outputs.

Variable dots

Normal dots

7pl

High quality, reliable print output

Correct Feeding Control (CFC)

This function reduces and corrects banding issues by measuring the feed rate of the fabric and automatically reducing and correcting the level differences in the joints of the conveyance belt.

Mimaki Advanced Pass System (MAPS)

When banding cannot be eliminated by feed correction, the MAPS function makes it less visible by dispersing pass boundaries. (NB: when using MAPS, the print speed depends on the selected mode)

MAPS

Normal pattern

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 reduction in image quality.

User-friendly functions

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.

Mimaki Degassing Module (MDM-20)

Equipped with MDM-20 which eliminates gasses and bubbles inside the ink, enabling the printer to use bottled inks instead of conventional degassed ink packs, thereby reducing ink costs.

MDM-20

Bottled ink Sb300

Undegassed ink

Degassing module

Degassed ink

Vacuum pump

Head

TX500-1800B

Sophisticated RIP software maximizes the performance of TX500-1800B

OPTIONAL

User friendly RIP "RasterLink 6" comes as standard

RasterLink 6

- ◆ More beautiful and advanced print results are achieved by following a user-friendly interface that is easy to operate.
- ◆ Colour replacement function enhances the ability to re-create printed images.
- ◆ Print colour can be simulated on Illustrator / Photoshop without an actual print.

*This function requires MPM2 (Mimaki Profile Master 2).

- ◆ Program update and profile download can be easily performed via internet.

OPTIONAL

Professional software RIP for multi colour specification (optional)

Software RIP for Multi Color Separation

TxLINK Pro

- ◆ 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 panning functions, including step-and-repeat layout, which are useful for textile designing.

Specifications

Item	TX500-1800B	
Print head	On demand piezo head (6 heads in staggered configuration)	
Maximum print width	1,820 mm	
Print resolution	300dpi, 450dpi, 600dpi, 900dpi, 1200dpi	
Print modes	4colour	6/8colour
	Draft	300x300HQ/2pass/BI
	High Speed	300x450HQ/3pass/BI
	Standard	600x900dpi/6pass/BI/Hi
	High Resolution	600x1200dpi/8pass/BI/Hi
Ink	Type	Sb300 (Sublimation) / RC300 (Reactive)
	Supply	8 x 2L bottles
	Degassing module	Equipped with MDM-20
Ink	Colour variation	Sublimation Sb300
	4 colour	•
	6 colour	x
	8 colour	x
Media	Size	Minimum: 210 mm, Maximum: 1,830 mm
	Thickness	Up to 5 mm
	Roll weight	Up to 60kg
	Printing surface	Inside / Outside selectable
	Roll diameter	Roll diameter: 400 mm, Inside diameter: 76 mm
Media heater	Optional External drying heater	
Media take-up device	Powered take-up device	
Print gap	1.5 mm ~ 7 mm (user selectable)	
Interface	USB2.0	
Applicable standards	VCCI class A, FCC class A, UL60950-1, RoHS directive CE Marking (EMC, Low voltage and Machinery directive)	
Power specifications	Single-phase AC 380~420 V, 20 A or under	
Power consumption	Less than 10kVA (excludes optional heater)	
Operating environment	Temperature: 20°C-30°C / Humidity: 35-65 % RH (No condensation)	
External dimensions (WxDxH)	3,830 x 2,600 x 1,800 mm (excluding ink supply unit)	
Weight	1,840kg	
Compressed Air Pressure	6-8 Bar / 40 litres / minute	
Water Requirement	50 litres / hour	

Options and Supplies

Item No.	Name	Remarks
SB300- * -BB	Sublimation dye ink Sb300 (* B/I/M/Y/K/D)	2 litre bottle
RC300- * -BB	Reactive dye ink Rc300 (* C/M/Y/K/Lk/Bl/Or/R)	2 litre bottle
FL003-Z-BB	Washing liquid 03	2 litre bottle for ink replacement
ML003-Z-K1	Washing liquid 03 Maintenance kit	For daily maintenance
SPA-0188	Maintenance kit	20 HF filters, 30 filters for intake/exhaust fan, Protective goggles, 10 clean sticks
SPA-0189	Head filter replacement kit	20 HF filters
SPA-0193	Wiper rubber replacement kit	2 wipers
SPA-0194	Cap rubber replacement kit	6 cap rubbers
SPA-0211	Supply air filter replacement kit	2 filter elements
SPA-0196	Supply ink filter replacement kit	
SPA-0197	Waste ink tank SL	(Placed in a box)
OPT-J0137	USB2.0 cable (5m)	Connector between PC for Rasterlink 6 and printer unit
SPM-005	MPMII i1ProSet	Colour management software + Colorimeter
SPC-0397	Glue for conveyor belt (1Lt Can)	

Optional heaters to further improve productivity

You can choose between two types of heaters according to your operating conditions.



• 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 • Compositor's errors reserved

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