



For
TEXTILES &
APPAREL

Water-based sublimation transfer inkjet printer

TS55-1800

Mimaki™

Software

TxLink4 Lite Edition or RasterLink6Plus is bundled according to user's request.



Specifications

Item		TS55-1800
Print head		Head Assy Stagger layout
Print resolution		480 dpi, 600 dpi, 720 dpi, 1200 dpi
Maximum print width		1,940 mm (76.4 in)
Maximum media width		1,950 mm (76.8 in)
Rolled media weight		45 kg (99.2 lb)
Ink slot		8
Ink set		4c/6c/7c/8c
Ink	Type/Color	Sb610 (Bl/Y/M/K/Lbl/Lm/Lk/Fy/Fp)
	Capacity	2L ink pack / 10kg ink tank
Safety standard		VCCI Class A / FCC Class A / CE Marking (EMC, Low voltage, Machinery directive, RoHS) CB Report / Energy Star / RCM / EAC
Interface		USB 2.0 Hi-speed, Ethernet 1000BASE-T
Power		Single phase AC 100-120 V/AC 200-240 V x 1
Power consumption		(AC 100 V) 1.44 kW (AC 200 V) 1.92 kW or less
Operational environment		Temperature: 20-30 degC (68-77 degF) Humidity: 35-65% Rh (Non condensing)
Outside dimensions (W x D x H)		3,240 x 713 x 1,857 mm (127.6 x 28.1 x 73.1 in)
Weight		202 kg (445.3 lb)

Option

Item		Mini-jumbo roll unit
Roll media size	Max. weight: Winding 100 kg (220.5 lb) / Feeding 300 kg (661.4 lb)	
	Max. diameter: Winding 280 mm (11in) / Feeding 600 mm (23.6 in)	
	Max. width: 1,910 mm (75.2 in)	
	Max. printable width: 1,900 mm (74.8 in)	
Power		Single phase AC 200-240 V x 1
Power consumption		(AC 200 V) 1.0 kW or less
Outside dimensions (W x D x H)		2,773 x 998* x 602 mm (109.1 x 39.3 x 23.7 in) (unit only)
Weight		191 kg (421.1 lb)

*When Φ 600 roll is installed.

Item		10kg Ink supply unit
Item code		OPT-J0475
Ink set		4-colors/6-colors/7-colors/8-colors
Ink	Type/Color	Sb610 (Bl/M/Y/K/Lbl/Lm/Lk/Fy/Fp)
	Capacity	10 kg ink tank (Per color) Lk, Fy and Fp are supplied by 2L pack
Outside dimensions (W x D x H)		824 x 1,035 x 383 mm (32.4 x 40.7 x 15.0 in)
Weight		35 kg (77.2 lb)

Item		Extended heater
Item code		OPT-J0481
Power		Single phase AC100-120V/AC200-240V±10% 50/60Hz ±1Hz
Power consumption		(AC 100 V) 1.0 kW or less/ (AC 200 V) 1.0 kW or less
Outside dimensions (W x D x H)		2,336 x 108 x 236 mm (91.9 x 4.2 x 9.2 in)
Weight		15 kg (33.1 lb)

Supply

Item	Item code	Description
Sublimation transfer ink Sb610 2L ink pack	Blue	SB610-BLT-2L
	Yellow	SB610-YT-2L
	Magenta	SB610-MT-2L
	Black	SB610-KT-2L
	Light blue	SB610-LBT-2L
	Light magenta	SB610-LMT-2L
	Light black	SB610-LKT-2L
	Fluorescent yellow	SB610-FYT-2L
	Fluorescent pink	SB610-FPT-2L
Sublimation transfer ink Sb610 10kg ink tank	Blue	SB610-BLT-BJ
	Yellow	SB610-YT-BJ
	Magenta	SB610-MT-BJ
	Black	SB610-KT-BJ
	Light blue	SB610-LBT-BJ
	Light magenta	SB610-LMT-BJ
Flushing Liquid 03 Cartridge	FL003-Z-22	220ml cartridge
Flushing Liquid 03 2L pack	FL003-Z-2L	

Sb610: "ECO PASSPORT" Certification Ink
Certification No.
Blue/Yellow/Magenta/Black/Light blue/Light black: NEP1801 Light magenta: NEP1604 Fluorescent yellow/Fluorescent pink: NEP1605

●Some of samples in this catalog are artificial renderings. ●Specifications, design and dimensions stated in this catalog may be subject to change without notice for technical improvements etc.
●The corporate names and merchandise names written in this catalog are the trademark or registered trademark of the respective corporations. ●Inkjet printers print using extremely fine dots, so colors may very slightly vary after replacement of print heads. ●Also note that if using multiple printer units, colors could vary slightly from one unit to other (s) due to slight individual differences. ●The specifications described in this catalog are as of June 2022

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DB30323-07



The evolution
of production printing



Ball & Doggett

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TS55-1800

The "TS55-1800" is a revolutionary sublimation transfer inkjet printer for apparel/textile achieving high-speed printout of up to 135 sqm/h (1,453 sq.ft/h), superior functionality and convenient options suited for stable, long-term printout sessions at reduced cost.



Options 10kg ink supply unit

Options Extended heater

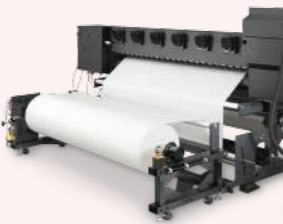
Options Mini-jumbo roll unit

Rear view with optional units equipped

Options aiming for cost reduction

Mini-jumbo roll unit corresponding to high-speed, high-volume demands

This is a feeding unit to load the "Mimaki Vision Jet-X" transfer paper with a length of about 2,500 m (8,202 ft). It reduces the cost per square meter and shortens the downtime due to media replacement, when compared with the case using the previous 150 m (492 ft) -long transfer paper.



The mini-jumbo roll, "Mimaki Vision Jet-X" featuring approximately 2,500m (8,202 ft/h) of transfer paper is announced concurrently with model "TS55-1800".

Previously using a transfer paper roll of 150m (492 ft) length to print at the maximum print speed (135 sqm/h; 1,453 sq.ft/h) of "TS55-1800", it was incapable to have a continuous printing like all-night operation without operators due to necessity of their paper replacing work. However the combination of the mini-jumbo roll, "Mimaki Vision Jet-X" and "TS55-1800" allows for extended printout sessions unattended. The mini jumbo roll also contributes to reducing the running cost of printer systems with lower per-square meter unit price in comparison to smaller rolls.



Extended heater supporting stable operation

The extended heater attached to the lower portion of the standard heater facilitates the drying of high-speed printing results.



10kg ink supply unit corresponding to extended successive printing jobs

Equipment of the large quantity of 10kg (22 lb) ink tank enables long-term successive operations such as over-night printout sessions. The tank achieves significant reductions in running cost and operation time over the standard 2 liter pack cartridges.



Providing for high productivity

Maximum printout speed mode 135 sqm/h (1,453 sq.ft/h) / Standard quality mode 50 sqm/h (538 sq.ft/h)

Adoption of the newly developed print heads ensures high-quality print even at a high speeds, achieving 130% productivity over our conventional model (TS300P-1800) with standard quality mode printing at 50 sqm/h (538 sq.ft/h). By newly enabling the use of "MAPS" function in high-speed mode (65sqm/h; 699 sq.ft/h) printing, TS55-1800 achieves excellent image quality even with high speed printing.

Technologies for uninterrupted reliable printing operations

"MAPS" functionality reduces banding

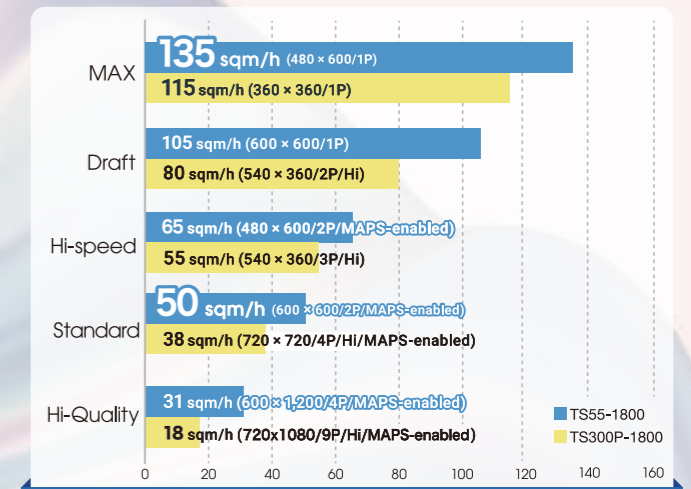
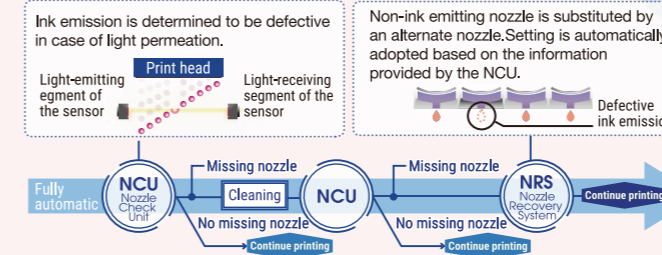
In ordinary textile printers, the straight pass boundaries often results in bandings and discoloration due to slight misalignment. The "MAPS (Mimaki Advanced Pass System)" functionality provides gradation to printed pass boundaries and maintains stable print quality by reducing banding and uneven color.

MAPS functional image



Minimization of NCU/NRS downtime

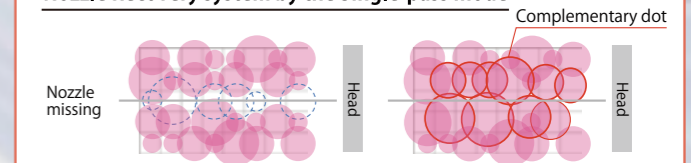
Incorporates Mimaki's unique automatic nozzle check unit ("NCU"). When the NCU detects a missing nozzle, it automatically performs cleaning to solve the problem. If the missing nozzle remains unresolved after cleaning, printing is commenced upon switching to an alternate nozzle. The print can be restarted to maintain productivity, without the need to wait for a service representative. The NRS is applied to the 1 Pass print mode, too. Even the max. print mode is very practical for the production.



Comparison of printout between same image quality requirements
Approx. 130% superior to conventional model* [standard mode]
TS55-1800 50 sqm/h 4-color 600 x 600 dpi 2P/TS300P-1800 38 sqm/h 4-color 720 x 720 dpi 4P High
*Comparative printout speed

Nozzle Recovery system by the Single-pass mode (Patent-pending)

Nozzle Recovery system by the Single-pass mode



Fill the missing nozzles by enlarging the dots of the adjacent nozzles. (It gets missing nozzle stripes inconspicuous while printing by the Single-pass mode.)

More user-friendliness !

Feed correction function by print mode

Different feed correction values can be applied to each print mode. Feed correction value for each print mode can be managed by machine setting. It is not necessary to perform feed confirmation for every mode and reduces the work of operator.

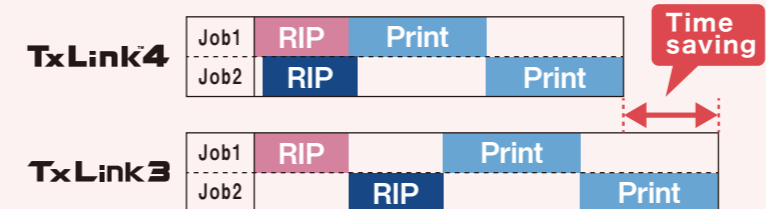
Print Mode	Feed Correction Value
480x600 1p	480x600 1Pass
480x600 2p	480x600 2Pass
600x600 1p	600x600 1Pass

Guaranteed beauty

Sophisticated Textile RIP software, "TexLink4 Lite Edition"

Parallel RIP function to improve production efficiency

The parallel RIP function is useful for multiple print job data. RIP processing of multiple jobs can be performed in parallel, resulting in a significant reduction in work time. Up to 8 jobs can be processed in parallel.



16-bit rendering achieves beautiful gradation expression



TxLink4 16-bit rendering TxLink3 8-bit rendering

8-bit rendering is used depending on the file format or color space.