For
TEXTILES &
APPAREL

**Mimaki™**

Water-based sublimation transfer inkjet printer
# TS55-1800

## Software

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

Further evolved professional use Textile RIP software with new features
**TxLink4 Lite**

Newly developed RIP software with usability and high function
**RasterLink6 PLUS**

## Specifications

### Unit

| 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 | 2 L 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 × 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 × D × H) | | 3,240 × 713 × 1,857 mm (127.6 × 28.1 × 73.1 in) |
| Weight | | 202 kg (445.3 lb) |

## Supply

| Item | | Item code | Discription |
|---|---|---|---|
| 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 10 kg  ink tank | Blue | SB610−BLT−BJ | The option "10kg ink supply unit (OPT-JO475) is necessary to set. |
| | 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

## Option

### Mini−jumbo roll unit

| 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 (11 in) /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 × 1 |
| Power consumption | | (AC 200 V) 1.0 kW or less |
| Outside dimensions (W × D × H) | | 2,773 × 998* × 602 mm  (109.1 × 39.3 × 23.7 in)  (unit only) |
| Weight | | 191 kg (421.1 lb) |

*When Φ 600 roll is installed.

### 10kg Ink supply unit

| Item | | 10kg Ink  supply unit |
|---|---|---|
| Item code | | OPT-JO475 |
| 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 × D × H) | | 824 × 1,035 × 383 mm (32.4 × 40.7 × 15.0 in) |
| Weight | | 35 kg (77.2 lb) |

### Extended heater

| Item | Extended heater |
|---|---|
| Item code | OPT-JO481 |
| 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 × D × H) | 2,336 × 108 × 236 mm (91.9 × 4.2 × 9.2 in) |
| Weight | 15 kg (33.1 lb) |

# The evolution
# of production printing

## Mimaki Global Network

# 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.

Standard model

With optional units equipped

Options 10kg ink supply unit

Options Extended heater

Options Mini-jumbo roll unit

Rear view with optional units equipped

## 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 (65 sqm/h; 699 sq.ft/h) printing, TS55-1800 achieves excellent image quality even with high speed printing.

| | | |
|---|---|---|
| MAX | 135 sqm/h (480 × 600/1P) | |
| | 115 sqm/h (360 × 360/1P) | |
| Draft | 105 sqm/h (600 × 600/1P) | |
| | 80 sqm/h (540 × 360/2P/Hi) | |
| Hi-speed | 65 sqm/h (480 × 600/2P/MAPS-enabled) | |
| | 55 sqm/h (540 × 360/3P/Hi) | |
| Standard | 50 sqm/h (600 × 600/2P/MAPS-enabled) | |
| | 38 sqm/h (720 × 720/4P/Hi/MAPS-enabled) | |
| Hi-Quality | 31 sqm/h (600 × 1,200/4P/MAPS-enabled) | |
| | 18 sqm/h (720×1080/9P/Hi/MAPS-enabled) | |

■ TS55-1800
■ TS300P-1800

0  20  40  60  80  100  120  140  160

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

＊Comparative printout speed

### Technologies for uninterruptedreliable printing operations

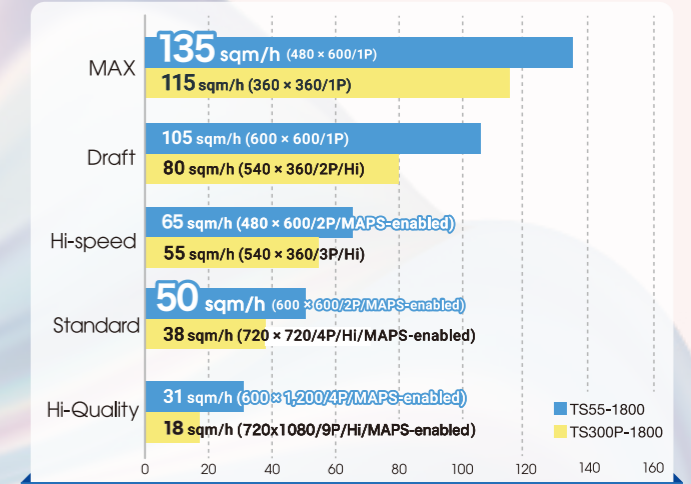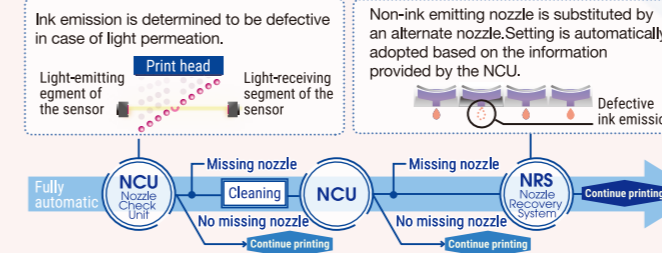#### ■ "MAPS" functionality reduces banding

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

■MAPS: **OFF**    ■MAPS: **ON**
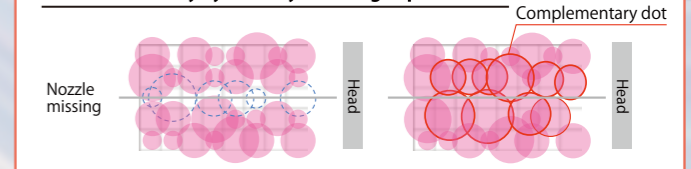
#### ■Minimization of NCU/NRS downtime

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 producion.

Ink emission is determined to be defective in case of light permeation.
Light-emitting egment of the sensor
Print head
Light-receiving segment of the sensor

Non-ink emitting nozzle is substituted by an alternate nozzle.Setting is automatically adopted based on the information provided by the NCU.
Defective ink emission

Fully automatic
NCU Nozzle Check Unit — Missing nozzle — Cleaning — No missing nozzle — Continue printing
NCU — Missing nozzle — No missing nozzle — Continue printing
NRS Nozzle Recovery System — Continue printing

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

**Nozzle Recovery system by the Single-pass mode**
Complementary dot
Nozzle missing
Head
Head

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.)

## 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.

When using smaller 150 m rolls: Set Printout Set Printout Set Printout
When using "Mimaki Vision Jet–X" mini-jumbo rolls: Set Printout

### Extended heater supporting stable operation

The extended heater attached to the lower portion of the standard heater facilitates si 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 suc cessive operations such as over-night printout sessions. The tank achieves si gnificant reductions in running cost and operation time over the standard 2 liter pack cartridges.

## 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.

Feed Comp.
Print Start [ENT]
[FUNC1]->Each Print Cond.
Each Print Cond.: ON
600×600 2p
↓ Help1

Each Print Cond:ON
**Feed correction value mode can be managed by each print .**

The respective correction value is set on selecting a different print mode.

480×600 1p → 480×600 1Pass
480×600 2p → 480×600 2Pass
600×600 1p → 600×600 1Pass

600×600 2Pass
The correction value at the print mode 600x600 2 pass

※Each Print Cond.:OFF
While the OFF is indicated, one feed correctoin value is applied to all of print mode.
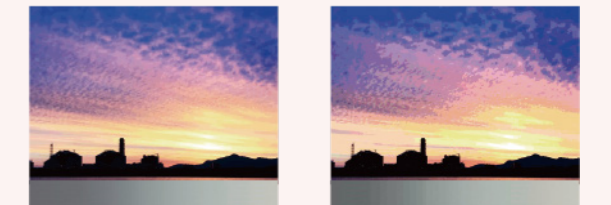
## Guaranteed beauty

### 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.

TxLink4
Job1 RIP Print
Job2 RIP Print
Time saving

TxLink3
Job1 RIP Print
Job2 RIP Print
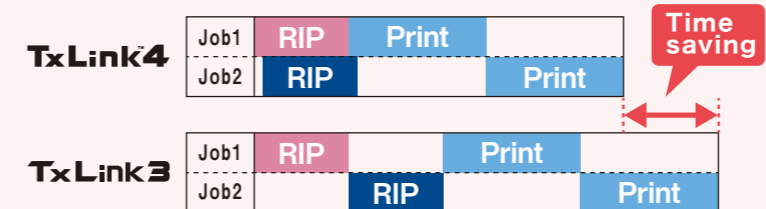
#### ■16-bit rendering achieves beautiful gradation expression

TxLink4 16-bit rendering    TxLink3 8-bit rendering

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