

New generation output software with 16 bit rendering (a standard item)

The high performance RIP software is designed to fully enable all advanced features of the TS3-1600 and TS5-1600 AMF printers



RasterLink Pro 4 TA

- 16 bit rendering eliminates tone jump and produces fine colour reproduction
- Different images can be laid out freely on the RIP
- Versatile editing functions such as tiling, trimming, scaling, and rotating are provided
- Able to network in environments where Windows and Macintosh co-exist

Specifications

Item	TS5-1600 AMF	TS3-1600
Print head	On-demand Piezo head (array of 4 staggered print heads)	On-demand Piezo head (180 nozzles x 8 lines x 1 head)
Maximum printing width	1,620 mm (63.7")	1,610 mm (63.3")
Printing resolution	540 dpi, 720 dpi, 1440 dpi	540 dpi, 720 dpi, 1440 dpi
Print Mode (Scan x Feed)	720 x 540 dpi: bi-directional & uni-directional 540 x 900 dpi: bi-directional & uni-directional 540 or 720 x 720 dpi: bi-directional & uni-directional 540 or 720 x 1080 dpi: bi-directional & uni-directional 720 x 1440 dpi: bi-directional & uni-directional 1440 x 1440 dpi: bi-directional & uni-directional	720 x 540 dpi: bi-directional & uni-directional 540 x 900 dpi: bi-directional & uni-directional 540 or 720 x 720 dpi: bi-directional & uni-directional 540 or 720 x 1080 dpi: bi-directional & uni-directional 720 x 1440 dpi: bi-directional & uni-directional 1440 x 1440 dpi: bi-directional & uni-directional
Ink	Type	Dye sublimation ink : Sb51 ink, Sb52 ink
	Supply	Automatic change of double ink cartridges
Capacity	4-colour mode : 440 cc cartridge x 4/colour, 1760 cc/colour	4-colour mode : 440 cc cartridge x 2/colour, 880 cc/colour
	6-colour mode : 440 cc cartridge x 2/colour, 880 cc/colour (M,B,L : 440 cc cartridge x 4/colour, 1760 cc/colour) *with the bulk ink system TS5-1600AMF can hold up to 16 x 2L bags (4 colours)	6-colour mode : 440 cc cartridge x 1/colour, 440 cc/colour *with the bulk ink system TS3-1600 can hold up to 8 x 2L bags (4 colours)
Media	Type	Transfer papers
	Size	Maximum 1,630 mm (64.1")
	Thickness	Less than 1.0 mm
	Roll weight	Less than 38 kg (83 lbs.)
	Printing surface	Face out
	Roll diameter	Outside: less than 250 mm (9.8") Inside: 76 mm (3")
Media cutting	Cutting in Y direction by cutter at the head	Cutting in Y direction by cutter at the head
Media heater	3 way intelligent heater (pre/print/post)	3 way intelligent heater (pre/print/post)
Media take-up device	Roll take-up device (standard), inside/outside selectable	Roll take-up device (standard), inside/outside selectable
Nozzle checking unit (NCU)	Laser system (class 1 or below)	N/A
Print gap	1.5 mm to 7 mm, step-less & user setting (automatic detection of media thickness)	2, 3, 4 or 5" mm (adjustment by technician is required)
Interface	USB 2.0	USB 2.0
Applicable standard	VCCI class A, FCC class A, UL60950, CE Marking (EMC Directive, Low Voltage directive), CB report, RoHS	VCCI class A, FCC class A, UL60950, CE Marking (EMC Directive, Low Voltage directive), CB report, RoHS
Power source specifications	AC 200V to 240V ± 10%, 50/60 Hz ± 1 Hz 15 A or below	AC 100V to 120V ± 10%, AC 220V to 240V ± 10%, 50/60 Hz ± 1 Hz
Power consumption	3,600 VA or below	1,440 VA or below
Operating environment	Usable temperature: 20°C to 35°C, Humidity: 35% to 65%Rh (no condensation)	Usable temperature: 20°C to 35°C, Humidity: 35% to 65%Rh (no condensation)
Dimensions (W x D x H)	3,120 x 850 x 1,540 mm (122.9" x 33.5" x 60.7")	2,538 x 739 x 1,424 mm (99.9" x 29.1" x 56.1")
Weight	Less than 398 kg (877 lbs.)	160 kg (353 lbs.)



DYE SUB

1630 MM

1440 DPI

4/6 COLOURS

40 M²/H HIGH-SPEED

Bulk Ink System

Auto Nozzle Checking

Automatic Media Feeder



Ultra high speed and quality – with Mimaki reliability

Mimaki's Sublimation Printers for Apparel

Print and transfer to polyester based fabrics



TS5-1600 AMF

Maximum printing width
1,620 mm



TS3-1600

Maximum printing width
1,610 mm

• 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 • Composer's errors reserved

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MARKET
TEXTILES & APPAREL

Expanding business opportunities with innovation

Mimaki's dye sublimation transfer printers offer print companies great creative potential and new revenue opportunities. They are especially suited for personalised and on-demand jobs for apparel applications, such as sports- and swimwear, workwear, jackets, scarves, ties, and furnishing type of applications.



Ultra High Speed and Quality — with Mimaki Reliability

- Ultra high speed for on-demand business (TS5: 40 m²/h)
- Long unattended print runs with UISS (Uninterrupted Ink Supply System) and MBIS (Mimaki Bulk Ink System)
- Fast drying and high density dye sublimation ink (4 and 6 colours)
- Automatic nozzle failure detection and recovery system (TS5)
- Feed heavy rolls of transfer paper and thin and flimsy media securely with the automatic media feeder (TS5)

Dye Sublimation Printing

In dye sublimation transfer printing, the image is printed onto transfer paper. The type of paper depends on your printer, your ink and the output you need. A high speed printer such as the TS5-1600 requires a fast drying transfer paper. After printing, a heat press or a calendar is needed to fix the image onto the substrate. This process causes the dye particles of the image to sublimate.

Dye Sublimation Ink

Mimaki's sublimation prints give high durability, even after washing and dry cleaning. Select the type of dye sublimation ink you need: SB51 ink for photographs and SB52 for brilliant colour expression, including high density black printing for sportswear and apparel.



Long Print Runs

Uninterrupted Ink Supply System (UISS)

When an ink cartridge runs out, another cartridge automatically begins to supply ink. Ink cartridges can be changed during printing and unattended overnight continuous printing is made possible. The UISS can be used in 4 colour mode.



Mimaki Bulk Ink System (MBIS)

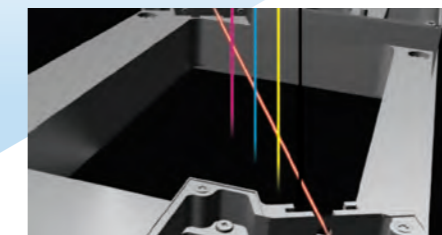
The Mimaki Bulk Ink System (MBIS) ensures long continuous printing.

- The TS3-1600 can hold a maximum of 8 x 2L bags (4 colours)
- The TS5-1600AMF can hold a maximum of 16 x 2L bags (4 colours)



Automatic Nozzle Checking (TS5)

The automatic nozzle failure detection monitors the ink discharge of the print head and detects and cleans clogged nozzles.



Head Height Adjustment

The thickness of the media is automatically detected (TS5) and the head height can be adjusted in three (TS3) or four steps (TS5) from 2 mm up to 5 mm for TS3-1600 and up to 7 mm for TS5-1600AMF to suit media thickness and to ensure smooth media handling.

Automatic Media Feeder

The TS5-1600AMF is equipped with a feeding and take-up system (AMF) that enables smooth media handling for heavy rolls of transfer paper and thin and flimsy media up to 38 kg. The TS3-1600 is equipped with a standard take-up device that can hold media up to 25 kg.



Automatic Media Feeder



High quality at an affordable price

TS3-1600

TS3-1600

Enter the apparel sublimation market with the high quality and affordable TS3-1600 sublimation printer.



Ultra high speed

TS5-1600AMF

TS5-1600AMF

TS5-1600AMF apparel sublimation printer for production with ultra high speeds.



Printing and Cutting in One Machine

Printer Cutter for Sports Apparel TPC-1000



Mimaki also offers a one-metre wide Print & Cut solution for transfers onto t-shirts, workwear, polo shirts, sportswear, swimsuits, baseball caps, interior design and more.

* The TS3-1600 can reach a top speed of 17.5 m²/h (540 x 720 dpi, 4 pass)

Speed

4-colour mode

TS5-1600AMF	540 x 1080 dpi	6 pass / high	Bi-directional	40.1 m ² /h
TS3-1600	540 x 1080 dpi	6 pass / high	Bi-directional	12.3 m ² /h

6-colour mode

TS5-1600AMF	540 x 1080 dpi	12 pass / high	Bi-directional	20.7 m ² /h
TS3-1600	540 x 1080 dpi	12 pass / high	Bi-directional	6.3 m ² /h