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Printer Cutter for Sports Apparel

TPC-1000

Mimaki

Q What types of ink can I use for TPC-1000?

A You can use either dye sublimation ink or solvent ink at install.

Q How can I transfer printing with dye sublimation ink?

A You can transfer printing by heat-pressing a transfer paper on a polyester-based material.

Q Does the sublimation print lose color after being washed?

A No, it doesn't. Mimaki's sublimation print shows high durability against washing and dry-cleaning.

Q Can I use TPC-1000 for other fabrics besides polyester?

A Yes, you can. Compatible with solvent inks, TPC-1000 can transfer prints using a heat transfer vinyl.

Q Can I be free from stress of doing a large volume of prints?

A Yes, you can. TPC-1000's concept is "Speed & Automation" designed to satisfy your need.

Q What do I use a cutting plotter for?

A You can use TPC-1000's cutting plotter when you want to cut complex shapes, i.e. letters and precise contour shapes.

Q Is it easy to change from the printing mode to the cutting mode?

A Yes, it is. TPC-1000 is equipped with Automatic Media Clamp Function, which leads to substantial reduction of manual operation.

Print Cut

Save manpower, space and time
A dual role "fashionable" printer cutter

TPC-1000 is a cutting-edge printer cutter evolved through needs of the present day. With its smaller size, TPC-1000 has achieved reduction of operation time while enabling unattended operation from printing to cutting. With TPC-1000's dual role, your creative & "fashionable" ideas will come true!

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TPC-1000, A Dual Role Printer Cutter for Your Creativity

"I want to make more fashionable sportswear and apparels!" TPC-1000 is the best match to your needs! TPC-1000 combines two functions in one single machine, an accurate inkjet printer and Mimaki's cutting technology. Powered by Mimaki's printer cutter, your fashionable design will create new business opportunities in the sportswear and apparel industry.

Selection of dye sublimation ink **Sb51 / Sb52**

Sb51 ink, with its focus on color balance, is a perfect fit for a full-color image print such as photographs. With its brilliant color expression and high density in black ink, Sb52 ink is suitable for printing sportswear and apparels.

High speed continuous printing **UISS** (Uninterrupted Ink Supply System)

TPC-1000's UISS (Uninterrupted Ink Supply System) makes it possible to change ink cartridges during printing. It will enable continuous printing and free an operator from worrying about inks running out.

Substantial reduction of manual operation **Automatic Media Clamp Function**

You can adjust the number of pinch rollers and clamp pressure with RIP software. Clamp pressure will then be automatically changed according to the type of media. With this function, TPC-1000 will enable unattended operation from printing to cutting.

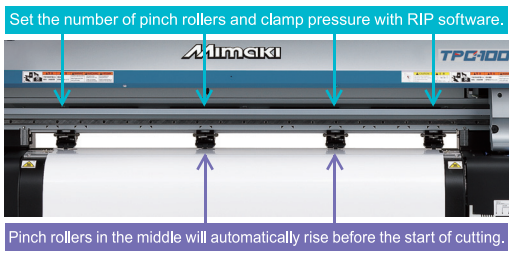
High speed & high quality **Max 15.1 m² / h & 1440 dpi**

One of TPC-1000's renowned characteristics includes its high speed: 15.1 m²/h*1 at the high-speed printing mode and 10.3 m²/h*2 at the standard mode. Together with maximum resolution of 1440 dpi and three variable dots, TPC-1000 is poised to achieve a high speed and high quality print.

*1 : 540 ×720dpi (4 colors)　*2 : 540 ×1080dpi (4 colors)

Precise contour cutting **Continuous crop mark detection**

Continuous Crop Mark Detection automatically reads the registration marks on the print to precisely position the cutter. It will enable accurate cutting of materials like a heat transfer vinyl and free an operator from attending in the cutting process.



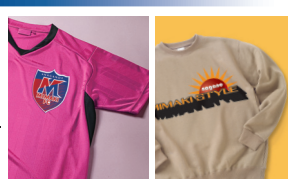
Two types of ink for transfer paper and heat transfer vinyl

Perfect for swimwear & mugs! **Dye sublimation ink**

Dye sublimation ink are suitable for various polyester materials, such as uniforms, swimwear, and mugs. It has a wide range of applications and helps create more business opportunities.

For Print & Cut of transfer papers **Solvent ink**

The first step is to print an image with solvent inks. The second is to cut the image, and the final step is to heat-press it on a fabrics. The transferred image is durable against washing.



■ Specifications

Item		Specifications
Maximum print/cut width		1,020 mm
Print resolution		540 dpi, 720 dpi, 1440 dpi
Print mode (Scan x Feed)		540 × 720 dpi, 540 × 900 dpi, 540 × 1080 dpi
		720 × 540 dpi, 720 × 720 dpi, 720 × 1080 dpi, 720 × 1440 dpi
		1440 × 1440 dpi
Ink	Type (Select either dye sublimation or solvent ink)	Dye sublimation ink: Sb51 ink, Sb52 ink Solvent ink: SS21 ink, ES3 ink
	Capacity	4-color mode: 440 cc cartridge × 2/color, 880 cc/color
		6-color mode: 440 cc cartridge × 1/color, 440 cc/color
Media	Size	Up to 1,030 mm
	Thickness	Less than 1.0 mm
	Roll weight	Less than 25 kg (55 lbs.)
	Roll diameter	Inside: 2 inch, 3 inch / Outside: Less than ϕ180 mm (7.1")
Maximum cutting speed		30 cm: 11.8"/s （42 cm: 1 6.5"/s at the angle of 45）
Cutting force		10-350 g
Applicable tools		Cutter, Water based ball-point pen, Oil based ball-point pen
Media cutting		Cutting in Y direction by cutter on the head
Media heater		Pre/print/post heater
Media take-up device		Roll take-up device (Standard), inside/outside selectable
Command		MRL-III、MGL-IIc2
Interface		USB 2.0
Applicable standard		VCCI class A, FCC class A, UL60950, CE Marking (EMC directive, low voltage directive), CB report
Power		AC100V～240V, Less than 1,380VA
Operation environments		20℃～35℃, 35～65%Rh（No condensation）
Dimensions (W × D × H)		1,934 x 739 x 1,424 mm (76.1" x 29.1" x 56.0")
Weight		130 kg (286 lbs)

■ Options

Item	Item No.
Drying and exhaust unit 100	OPT-J0176
Static cling prevention net	OPT-J0186
Front cover 100C	OPT-J0184
Sheet basket 100	OPT-J0190

■ Supplies

Item		Item No.
Sb51 dye sublimation ink	440 cc	SPC-0493Y/M/BL/K/LM/LBL
Sb52 dye sublimation ink	440 cc	SPC-0584Y/M/BL/K/LM/LBL
SS21 solvent ink	440 cc	SPC-0501Y/M/C/K/LM/LC
	220 cc	SPC-0504W-2
ES3 eco solvent ink	440 cc	SPC-0440Y/M/C/K/LM/LC
Wiper kit 33S	10 pcs	SPA-0134
Waste ink bottle (2L)	1 pc	SPA-0117
Cutter blade assy	1 pc	SPA-0107
Head cleaning cartridge (for dye sublimation ink)	220 cc	SPC-0188S
MS cleaning cartridge (for solvent ink)	220 cc	SPC-0294
Cutter holder (standard accessory)	1 pc	SPA-0001
Cutter holder	1 pc	SPA-0090
Blade for vinyl and paper	3 pcs	SPB-0001
Standard blade for vinyl	3 pcs	SPB-0030
Blade for small character	3 pcs	SPB-0003
Blade for reflective sheet	2 pcs	SPB-0006
Blade for fluorescent type vinyl	3 pcs	SPB-0007

3 types of software are included as standard according to user's experience and skill.

Easy-to-operate Print & Cut software
Simple StudioTA

Professional plug-in cutting software
FineCut 7 for Illustrator for Windows / Macintosh

Continuous printing & cutting
RasterLink Pro 4 TA

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

Mimaki®

PT. MIMAKI INDONESIA

Sales office, Technical Support & Showroom :
Jl. Danau Sunter Barat Blok A.3, No 13,
Jakarta Utara 14350
TEL +6221 6530 7942　FAX +6221 6530 7943

Hotline:
+62 8111 046 340 (Technical Support)
+62 8111 046 341 (Sales & Marketing)
info@mimaki.co.id | www.mimaki.co.id

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