

**Mimaki**  
AUTHORISED PARTNER

# TxF300-75

Heat Transfer Inkjet Printer

## Sustainable Fabric Printing Solution

DIRECT-TO-FILM  
DTF PRINTER



**810MM**

شركة النجم الرقمي للألات و المعدات  
DIGITAL STAR MACHINERY AND EQUIPMENTS

# SOURCE OF DIGITAL SOLUTIONS

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Welcome to Digital Star, your trusted partner in the world of cutting-edge printing solutions. As a leading printing machines, materials, and ink authorized dealer in Riyadh – Saudi Arabia (KSA), we pride ourselves on delivering state-of-the-art technology that empowers to achieve unparalleled levels of efficiency and quality.

At Digital Star, we understand the pivotal role that printing machinery plays in the success of your operations. With a commitment to innovation and excellence, we curate a diverse range of top-tier printing machines to meet the unique needs of our clients. Our product line-up reflects the latest advancements in the industry.

As a responsible printing machines supplier, we prioritize sustainability. Our commitment to eco-friendly practices is reflected in the products we offer, promoting energy efficiency and environmentally conscious manufacturing processes. When you choose Digital Star, you're not just investing in cutting-edge technology – you're partnering with a company that values the planet as much as your success.

***Best A Grade Quality &  
Innovative Products***

# DTF Printer TxF300-75



## Unique features



**DEGASSED INK PACKS:** A common issue with current DTF printers in the market occurs when air inside the ink bottle reaches the print head, causing ejection issues.



**WHITE INK CIRCULATION:** Another common issue with current DTF printers in the market is white ink clogging, causing ink supply issues.



**NOZZLE DROP-OUT DETECTION:** A continuous process which checks & detects for clogged nozzles and starts a cleaning cycle to recover them.



**ECO PASSPORT CERTIFICATION:** Mimaki's PHT50 pigment ink has acquired OEKO-TEX® ECO PASSPORT certification.

## SECURED SAFETY - MIMAKI GENUINE HEAT TRANSFER PIGMENT INK PHT50\*

Aluminum pack for degassed ink, implements stable ink ejection by reducing gas contamination of the ink and preventing nozzle defect. The use of plastic can be reduced compared to ink bottles, which also reduces environmental impact



PHT50, Mimaki's first heat transfer pigment ink, has already acquired the "ECO PASSPORT" certification. ECO PASSPORT is an international standard for the safety of textile products. The "Eco Passport" is an international standard for the safety of textile products, and the safety of the ink is certified by a third-party organization. PHT50 is a safe and secure ink that reduces environmental impact.

## A SAFE AND STABLE MACHINE FOR YOUR DTF PRINT TRANSFER SHEETS

The all new TxF Series, including the recently released TxF300-75\* and TxF150-75, are Mimaki's first DTF (Direct-to-Film) printers. Packed with Mimaki technology, they have been designed to overcome the common ink ejection and ink sedimentation issues of current DTF printers in the market. Using genuine Mimaki heat transfer pigment ink, which acquired ECO PASSPORT certification, it assures skin friendly printing at the highest image quality. This unique combination ensures a highly reliable and stable DTF print workflow, and is combined with Mimaki's guaranteed ongoing service and after purchase support.



**INTRODUCING THE ALL NEW TxF300-75\*** – While both printers in the series offer the same superior Mimaki technology, the recently released TxF300-75\*, with 2 staggered printheads, delivers new levels of productivity with speeds up to 3x faster than the TxF150-75 (one printhead), helping to expand opportunities in the market.

### Lineup of two models in series with different productivity

Pro-model and Entry-model – 2 models are available for customers to choose according to the productivity & investment amount.

\*Print condition : H 280 mm x W 360 mm print graphics are printed on W 800 mm DTF film side by side



Pro-model  
**TxF300-75**



Entry-model  
**TxF150-75**



**Large T-shirts 66 pcs/h**

Production mode 720×720 6P 7.5 m<sup>2</sup>/h

**Large T-shirts 22 pcs/h**

Production mode 720×720 10P 2.6 m<sup>2</sup>/h

### HEAT TRANSFER PIGMENT INK

The TxF Series uses Mimaki's genuine DTF ink PHT50.

PHT50 is a dedicated ink to print directly on DTF-specific film.

It is then hot-melt powdered and heat-treated to create transfer sheets.

The ink, available in 5 colours (CMYK + White), offers high density and vivid colours while printing the smallest details.

Mimaki's guaranteed ink quality standards, in combination with the available colour profiles for the RIP, ensures a constant and predictable image quality for the long run.





# A safe and stable DTF Printer with Mimaki's core technologies

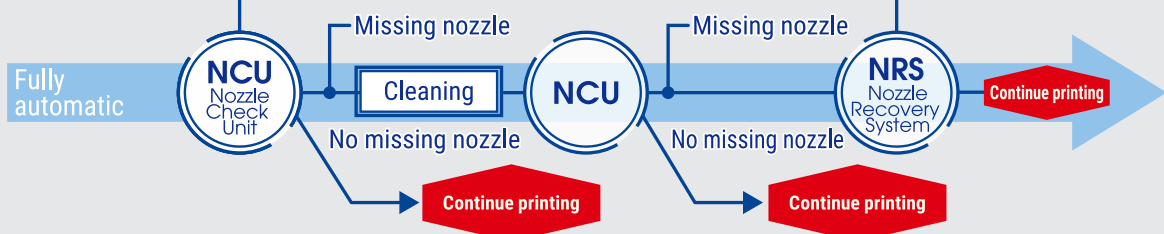
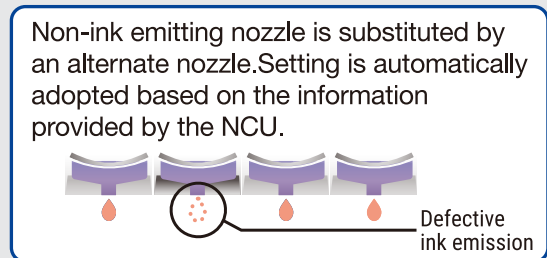
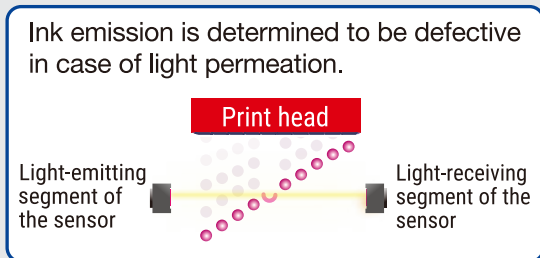
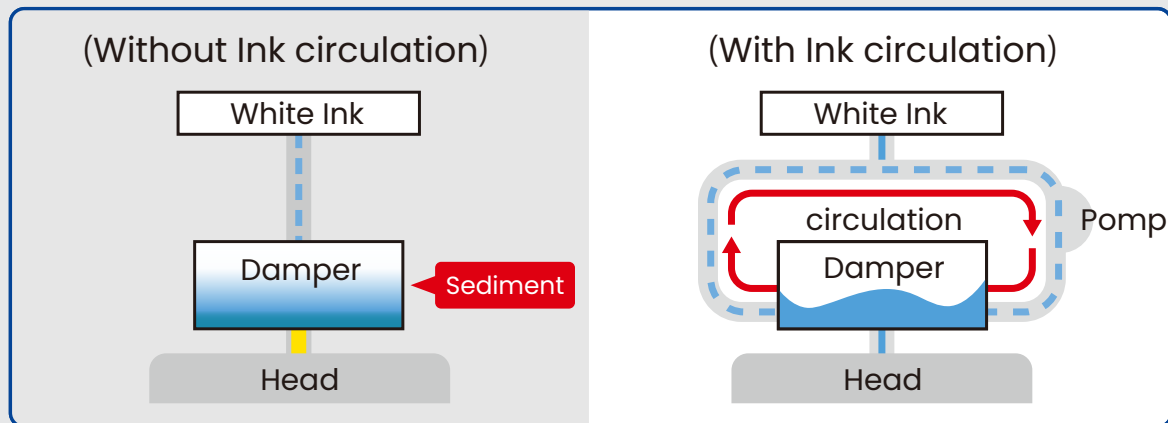
TxF300-75, A DTF printer with Mimaki's core technologies for reliable production. Equipped with functions to support stable operation. Quality work can be easily performed by anyone, regardless of the skill level of the operator. We provide ongoing support for your work



## MIMAKI'S CORE TECHNOLOGIES FOR STABLE OPERATION

### MCT Version2 (Mimaki Circulation Technology Version2)

Circulation through out ink route including damper\*, supports stable white ink ejection for reducing frequent nozzle cleaning & ink waste.





**DTF (Direct to Film) method eliminates the need for fabric selection, plate making and pre-treatment, thereby increasing product efficiency**

DTF Method may be utilized for various fabrics, such as blended fabrics, polyester and cotton. Also capable for denser color print on T-shirts including dark colored ones. Moreover, weeding for rubber transfer method is unnecessary therefore production efficiency increases dramatically. The adoption of DTF printer solves the various problems that have been a site challenge to now, all at once.

## Comparison of silk screen, heat transfer rubber sheet, DTG and DTF methods

**Silk screen method**



Need a plate.  
Difficult to print in full color.

**Heat transfer rubber sheet method**



Takes time for weeding

**DTG method**



Manual handling by the operator at each printing step

**DTF method**



No plate is needed. No weeding. Printing processes can be operated unattended



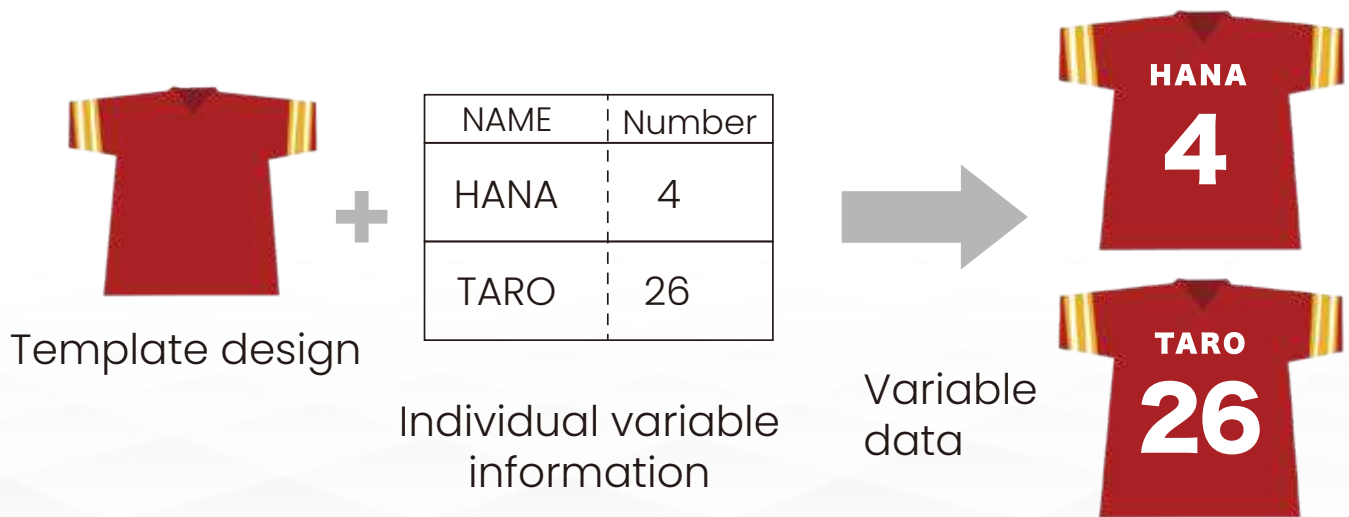
## FOR EVEN MORE CONFIDENCE

### our inks are OEKO-TEX® certified

Mimaki inks PHT50 are OEKO-TEX® certified. ECO PASSPORT by OEKO-TEX® is a mechanism by which textile chemical suppliers demonstrate that their products are suitable to print skin-friendly clothing and other textiles for end users. This certificate therefore constitutes an important decision-making element when purchasing inks for textile production.

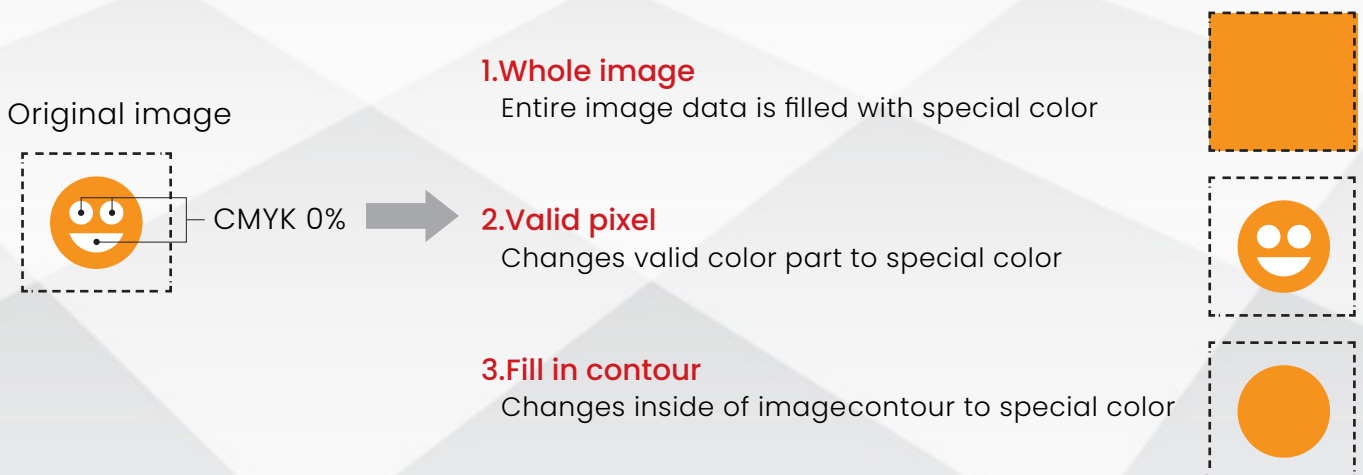
# Raster Link 7

More useful and functional  
Variable print function - one items in uniform



## Special color plate generation

The new [Fill in contour] option for reliable operation in DTF print Vector data and CMYK=0% object to be converted to special color plate EPS, PS, PDF formats are supported.



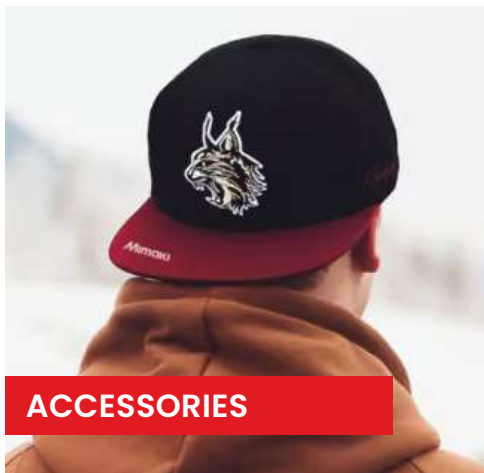
# Product Samples



TRANSFER SHEETS



T SHIRTS



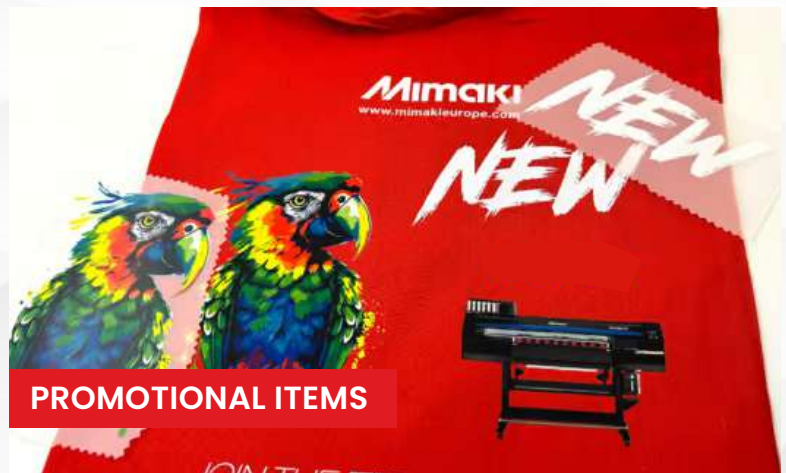
ACCESSORIES



LABELS



SPORT SHIRTS



PROMOTIONAL ITEMS

Product Samples



# DTF POWDER SHAKER

Width:60CM/80CM Optional (OEM Service Optional)

Powder Control System  
More Energy Saving

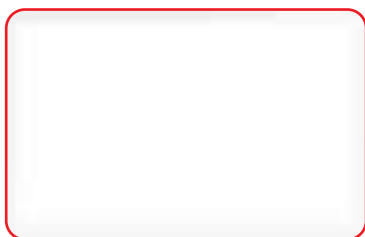
Optional Powder Return Function



NEW



## Unique features



**TWO POWDER STORAGE TANKS :** Additional configuration of a second powder storage box allows the falling powder to completely fall into the storage box. Two powder storage boxes are used alternately, effectively avoiding waste.

**CONSTANT TEMPERATURE OF POWDER BOX:** There is a temperature sensor under the powder box. When the temperature does not meet the standard, the powder box will automatically heat up, ensuring that the powder remains dry and the pressing effect is not affected by the powder. Especially in humid areas in the south, the effect of automatic heating is particularly evident.



**POWDER CONTROL SYSTEM:** A brand new powder control structure, with added baffles on both sides, allows all falling powder to fall into the powder box, avoiding powder loss, and the design of the baffles can significantly improve the utilization rate of powder.



**INTELLIGENT TEMPERATURE CONTROL :** Added the function of heating up and down simultaneously. The new design enables the material to be heated more fully. Thus, the pattern does not deform during film detachment and eliminates the phenomenon of oil return, leaving the pattern in its most perfect state.

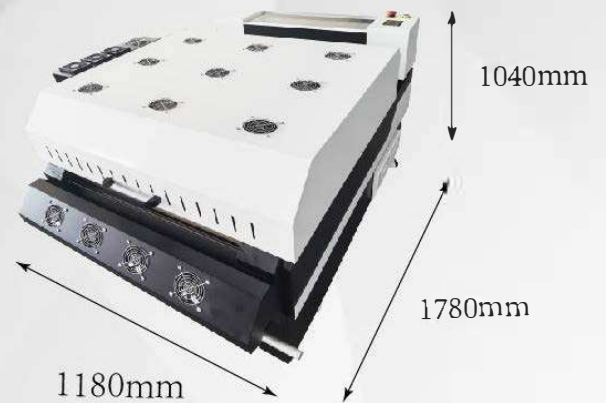
**TENSION BAR MEDIA TAKE UP DEVICE:** The new machine has added the function of tension paper winding, making the winding more neat.



**BUILT-IN OIL FUME FILTER AND PURIFIER:** This new improvement provides customers with the opportunity to choose configurations. The powder shaker equipped with a purifier can automatically remove smoke and powder, which is more convenient and effective in saving workers' operating time and costs.



Built-in smoke purifier



Without smoke purifier

# Specification

<b>Model</b>	<b>TxF 300-75</b>	
Print Head	2 heads (staggered)	
Print Resolution	720dpi, 1,440dpi	
Ink	Type/ Color	Heat transfer pigment ink PHT50 (C, M, Y, K, W)
	Capacity	600ml Ink pack x 1 (500 ml for white only x 4)
Circulatory function	Available only for white ink	
Maximum drawing width	800mm (31.5 inches)	
Media	Max. Width	810mm (31.9 inches)
	Thickness	1.0mm or less
	Roll Weight	45kg (99lb) or less
Interface	Ethernet 1000BASE-T, USB2.0 Hi-speed	
Power	Body: Single-phase AC100-120V/AC200-240V±10%, 50/60 Hz±1Hz×1	
Power consumption	AC 100 V: 1 kW or less   AC 200 V: 1.3 kW or less	
Certifications	VCCI class A, FCC class A, ETL IEC 62368-1,	
	CE Marking (EMC, Low voltage, Machinery directive, and RoHS)	
	CB, REACH, Energy Star, RCM, KC	
Dimensions (W×D×H)	1,965mm × 700mm × 1,392mm (77 × 27 × 39 in)	
Weight	126kg (277.8 lb)	

\*Specifications are subject to change without prior notice, all rights reserved

## Ink specifications • Ink array

Ink name	PHT50
Ink color	5 colors (C, M, Y, K, W)
Packing form	Aluminum pack
Capacity	600ml (C, M, Y, K), 500ml (W)
Certification	Eco Passport

**Ink color set:**



Note: Mimaki offer product in printer, ink and RIP software.

Please consider the film, hot melt powder post-processing machine, and heat press transfer machine required for the system configuration after sufficient prior evaluation by the customer.

Model	Shaking Powder and Color Fix Machine	
Media Width	0-60CM / 0-80CM	
Applicable Medium	Nylon, Chemical Fiber, Cotton, Leather, Swimwear, Wetsuit, PVC, EVA etc.,	
Heating & Drying Function	Multi-Stage heating System, Drying, Cold air fan function	
Rewind Function	Automatic Induction Winding	
Electrical Parameters	Rated Voltage: 220V Rated Current: 20A Rated Power: 3.42KW Power Consumption: 1KW -2.5KW	
Powder Shaker Size	60cm: 1780 * 980 * 1040mm	80cm: 1780 * 1180 * 1040mm
	60cm: 1780 * 1100 * 1040mm (Built-in smoke filter)	80cm: 1780 * 1100 * 1040mm (Built-in smoke filter)

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## SYSTEM REQUIREMENTS (PC's)

Operating System*	Windows 10 (64 Bit) or Later
Processor	i7 - 2.6 GHz or faster
Memory (RAM)	Min. 8GB or More
Video Card and Monitor(VGA)	1280x1024 or Higher Resolution is Recommended
Working Hard Disk Space	1 TB SSD or more recommended
Graphics Card	2GB or more (Optional)
Optical drive	DVD-ROM
Other requirements	Ethernet connection for network capable printers
	Available USB ports and PCIE Slot
Recommended Brand	Lenovo / Dell

\* Note: You can use a laptop or desktop computer

\* Use the original operating system and software. If you are using pirated operating system or software, we are not responsible for any damage to Machine workings, and also the warranty terms will become void.

## POWER REQUIREMENTS

Voltage Regulator	5000W Stabilizer
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## Terms and Conditions

01. Payment to be made in SAR currency.
02. Payment Terms : As mentioned in Quotation.
03. Bank Charges: Any bank charges relevant to the above transactions will be to your account.
04. Any charges, duties, taxes or levies at the ports of entry will be to our account.
05. The charges of loading, boarding and local conveyance of the technician will be to our account.
06. Any required electrical, mechanical and civil site preparation should be done by the customer according to our engineer's requirements.
07. Digital Star Machinery and Equipments will not be held responsible for delays caused by any damage in the equipment due to shipment, unloading accidents & any related reasons, which is beyond our control.
08. Warranty will be 12 months from the date of installation from Digital Star Machinery and Equipments. Wear and tear, consumables are exempted and warranty can be claimed only if you use the Inks and Services from Digital Star Machinery and Equipments.
09. Service will be free of cost within 12 months from the date of installation.
10. Any claim will be invoice directly to you then we will send for claiming procedure which will take 45-60 days, if the claim got approved credit note will issued directly.
11. Delivery: As mentioned in quotation

## شركة النجم الرقمي للألات و المعدات DIGITAL STAR MACHINERY AND EQUIPMENTS

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