

# TheMagicTouch®

Direct To Film (DTF) Transfer Printing

Summer 2022 – DTFMagic®



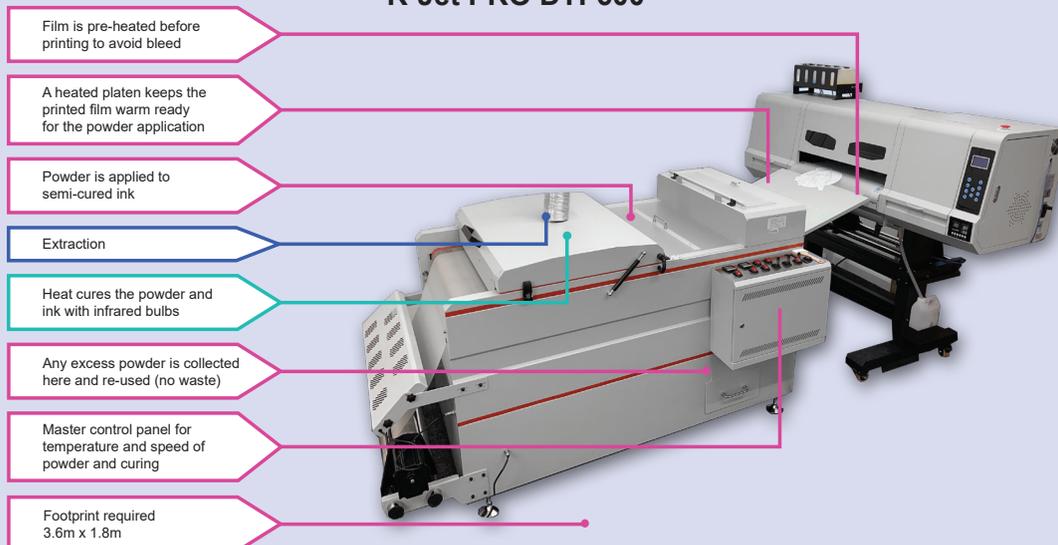
TheMagicTouch based in Dunstable, England, have since 1992 pioneered the digital image transfer process. The company offer a range of transfer technologies including toner-based transfers, dye sublimation and established HTV and “Print & Cut” solutions. We now introduce the latest innovation with the arrival of DTFMagic transfer technology.

## What is Direct to Film (DTF) Transfer Printing all about?

The DTFMagic transfer process uses water-based textile ink printed onto specially coated PET film. The printed film is lightly dusted with a hot-melt adhesive powder and cured using direct heat. The completed transfers are then ready for application to any colour garment or textile.

The company offers two 60cm print width options for DTF transfer production.

### R-Jet PRO DTF600



Dual-Head 60cm printer offers speeds up to 15sqm per hour. Used with the roll-fed automatic finishing unit the printed and cured transfers are ready for application or distribution immediately.

### Desktop Mutoh DTFVJ-628D



Single-Head 60cm printer offers production up to 300 A3 transfers a day. Perfect with the manual powder and curing process.

Using the bulk ink adaptors the 8 slot ink configuration of C, M, Y, K, LC, LM, W and W offers image quality and soft feel beyond expectations.

## **What is the application time for the DTFMagic transfer?**

DTFMagic transfers are applied to most garments and textiles using a traditional heat press at 150°C, 12 - 15 seconds, using medium pressure and cold peel. However, garments and fabrics susceptible to scorching can be applied as low as 120°C with a longer press time up to 20 seconds.

## **What garments and fabrics can be decorated?**

DTFMagic transfers are suitable for almost any garment or fabric regardless of colour. This includes nylon and polyester along with cotton, pique fabrics, softshell, denim, leather, canvas and much more.

## **What is the print speed of the DTF Printers?**

The R-Jet PRO DTF600, Dual-Head 60cm printer offers speeds up to 15sqm per hour. Used with the roll-fed automatic finishing unit the printed and cured transfers are ready for application or distribution immediately.

The Desktop Mutoh DTFVJ-628D, Single-Head 60cm printer offers production up to 300 A3 transfers a day. Perfect with the manual powder and curing process.

## **How much do full colour transfers cost to produce?**

The cost per transfer is dependent on size and ink requirement. The PET film on the 60cm roll allows up to 58cm print width and up to 100m roll length so realistically each roll will offer approximately 450 A3 sheets giving an average total print cost between £0.90-£1.10. Sheets with multiple logos makes the process the most cost effective digital transfer process available.

## **What kind of ink is used in the DTF Printers?**

For the R-Jet PRO DTF600 premium DTFMagic inks (C, M, Y, K & W) are water based pigment inks, they differ from the traditional DTG inks in being similar to latex inks offering better wash durability and unique stretching properties. The bulk ink system holds a total of 5 litres of ink and features an automatic stirring and circulation system for the white ink to avoid any requirement for regular shaking. The inks are totally odourless and safe.

The Desktop Mutoh DTFVJ-628D uses water based pigment inks manufactured by STS in the USA. All inks supported with eco passport and OEKO-TEX certification. 8 x Bulk Ink Adaptors, C, M, Y, K, LC, LM, W and W, DTF inks (all inks 1 litre, white 900ml). High colour density, wide colour gamut, outstanding colour saturation, non-toxic and environmentally friendly.

Proven air-tight sealed bulk ink pouches ensure no contamination and minimal maintenance or print-head issues. Automatic cleansing and maintenance cycles are controlled by the dedicated software. As above the inks offer incredible stretch and durability properties.

## **What does the RIP do?**

The RIP is a powerful piece of software used to drive larger output devices. Using the RIP together with the inks and unique colour profiles enables the transfers produced to be vibrant with exceptional colour matching from the increased colour gamut being available. Features like automatic image nesting, colour replacement and pre-production transfer cost are all included.

## **What file format works best?**

The RIP will accept vector files like EPS and SVG, also PDF, PNG, PSD, JPG and most bitmaps. Please note the USB connection for the PC to the printer must be within 2m. Not suitable for Mac.



Performance Fabrics



Bags & Holdalls



Hoodies



Caps & Hats



Pique & Wicked Fabrics



Cotton & Polyester

## **Why is DTFMagic better in production than DTG, “Print & Cut” and toner options?**

There are many reasons why the DTF process offers more than the DTG process. Most importantly there is no pre-treatment required, no cutting or weeding as with “Print & Cut” and transfers can be produced for distribution or application at a later date. The DTF transfers can be applied to a host of fabrics and garments that are not practical to be decorated with most DTG printers, these include softshell, nylon and polyester workwear and most performance polyester fabrics. Another bonus is being able to apply transfers easily to sleeves, collars, shoulders, facemasks, hats, bags and a whole lot more. The high resolution options offer detailed print for garment labels as never seen before.

## **So how much does it all cost?**

The R-Jet PRO DTF600 printer and finishing unit is £16,995.00 plus VAT, including ground floor delivery (mainland UK). This includes the RIP for all print and colour management, 1 x roll of 60cm PET film, 1 x litre of all C, M, Y, K, and W inks, 1 x kg of hot-melt powder, installation and training. One year warranty and support.

The Mutoh DTFVJ-628D complete system is £8,995.00 plus VAT, including ground floor delivery (mainland UK). This includes the RIP for all print and colour management, curing oven, 1 x roll of 60cm PET film, 1 x Bulk Bag of C, M, Y, K, LC, LM, W and W inks, 2 x kgs of hot-melt powder, installation and training. One year warranty and support.

## **Can the package be financed?**

Finance is available from our finance partners Kennet Equipment Finance. As an example, the full R-Jet PRO DTF600 system £16,995.00, financed over 3 years, would typically cost around £600.00 per month. The Mutoh DTFVJ-628D system £8,995, financed over 3 years, would typically cost around £320.00 per month. Remember, you can claim tax relief on these payments.

## **What does the powder do?**

The powder is a solvent-free polymer adhesive that has been developed for the DTF process. With its low melting temperature it ensures soft, flexible transfer production with perfect adhesion to the garment and superb washing performance.

## **Can I use the R-Jet PRO DTF600 without the automatic finishing unit?**

The automatic finishing unit can be added at a later date as the printers can function without it, however the roll fed unit that applies the curing and the hot melt powder dramatically reduces the labour requirement. Plus the correct level of powder and curing time is perfect on every occasion.

The Mutoh DTFVJ-628D is better suited to the manual finishing process due to the lower print speed.

## **What is the warranty and support?**

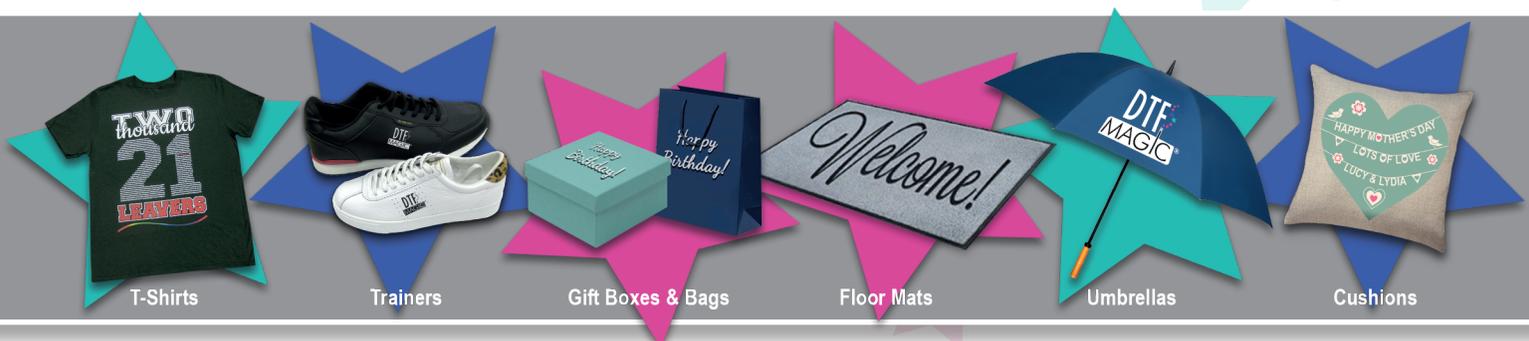
Both the R-Jet PRO DTF600 Dual-Head 60cm printer and the desktop Mutoh DTFVJ-628D Single-Head have one year warranty included. Print heads are not included in the warranty. Full details of extended warranty upon request.

## **What is the space requirement?**

The footprint for the R-Jet PRO DTF600 and the automatic finishing unit is approx. 4m x 2m.

The footprint for Mutoh DTFVJ-628D is 2m x 1m.

The R-Jet PRO DTF600 printer including the stand is 150kgs and the finishing unit is 270kgs. So please note this will not be going in the loft! Please note: minimum of 1m door width clearance is required for installation.



### ***What is the wash durability?***

In terms of durability and washing the results are outstanding. The transfers also have a unique stretch quality as never seen before. The print finish can only be compared to that of high-end digital screen printing (available for approx. £200k!!)

### ***What else can be printed other than textiles?***

To date we have successfully transferred to a vast range of paper bags/packages, a mixed range of PU surfaces including notebooks and folders and even wood and cork.

### ***Does the DTF system need any special power requirements?***

The only special requirement is 1 x dedicated 32 amp socket required (no extension leads) for the automatic finishing unit.

### ***Are there any special ventilation requirements?***

In the event that the system is operated in an enclosed or poorly ventilated area then the option of vented extraction or portable filter box next to the unit are recommended.

### ***What's the daily maintenance on the system?***

Both printers will need around 15 minutes per day to focus on routine maintenance.

### ***What about the colour gamut and colour matching?***

The installed RIP and colour management offer over double the colour gamut possible with selected DTG printers. Selecting specific colours or indeed full colour bitmap fills has never been easier.

### ***What is the shelf life of printed transfers?***

Printed transfers, when stored in humidity bags, will last for a minimum period of 12 months.

### ***Can I arrange a demonstration?***

Both DTF options are available for booked "hands on" demonstrations at our showroom in Dunstable, Bedfordshire.

### ***Can I get some printed transfer samples?***

Just simply send some artwork files to [technical@themagictouch.co.uk](mailto:technical@themagictouch.co.uk), transfers will be produced and sent back for your evaluation and input.

### ***How soon can we expect delivery?***

Due to the unprecedented demand in sales to date we are taking orders/deposits for scheduled installation for both machines.

Meet the DTF Technical team



David - Nathan - Paul - Owen



# **TheMagicTouch®**

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