

ADVANCED DIGITAL APPAREL AND TEXTILE PRINTING SOLUTIONS

DTG M-SERIES INDUSTRIAL & DTG-QM8























Only DTG Digital offers the largest range of printing areas for finished garments or fashion panels

THE RIGHT MACHINE FOR YOUR APPLICATION

BED SIZE - ACCOMMODATES MULTIPLE PLATEN CONFIGURATIONS

Designed to suit most common cut material sizes in fashion products. Heavy duty production to finished garments for greater production through-put.



1150 x 750mm



I have owned a few machines now and never experienced such good

The service is unbelievable -

and never experienced such good service, and not only good service but a genuine desire to help with problems and grow our business

> Peter Hails Illustration and Design

MAKING CUSTOMERS successful for over a decade

DTG Digital has made it its mission to help companies with the most diverse range of textile printing equipment become more profitable.

How do we accomplish this?

With innovative inkjet engineering solutions systematically designed to meet the needs of our customers.

There are more than 8,000 machines installed around the world, which is testimony to our expertise and our customer's confidence in us. As the largest manufacturer of textile printing equipment in our category we also have a global network of subsidiaries, distribution and service support centres at our disposal. This guarantees local availability, whether it's pre-sales application tests, on-site installation or service requests. This network also allows us to implement large international customer projects quickly and economically.

M-SERIES INDUSTRIAL

The DTG M-Series and the new QM8 hi-speed range of Direct to Garment Inkjet printers delivers the industries most advanced print platform engineered specifically for textile applications.

Greater resolutions and ink drop technologies are delivered through an entirely new firmware - print a completely new range of products with scalable platens from 1-12 shirts, print all over jeans, hoodies or clothing panels from one printer series! It's entirely flexible, engineered for production, and will grow with you. It's FAST.

The M-Series and QM8 outputs more without lowering resolutions or print quality - screenprinters, embroiderers, internet shops, photographers, print shops and designers all finally have a solution that's industrial and flexible! It's a different science and the M-Series delivers greater profit opportunities with an entirely new engineering.







GENUINE



INKS

At DTG Digital "we know textiles" and the right ink does make all the difference. DTG Digital works exclusively with the following ink sets:

- DTG Tex DP
- DTG P40i Sublimation [12 colours. inc. neon]
- DTG P50i Reactives [9 colours]



Our original genuine DTG Tex DP range is time served and proven around the globe since 2005.

Our first ink to work on 100% dark and light cottons and 60/40 blends.

With 2 pre-treatments available it is an ideal ink to take care of the basic users needs wherever they may be.

- Better colours
- · Less settling
- Better head conformity
- · Better wash and hand

WHAT IS YOUR TEXTILE APPLICATION?

Typical Industries

- · Fashion panels
- Soft furnishings
- Promotion
- Hi Vis workwear
- Sportswear
- Team wear
- Handicrafts
- Fashion strike off
- Internet sales
- · Sports Apparel
- Corporate wear

- · Fabric signage
- Home furnishings
- Textile displays
- Jeans
- Advertising materials
- Bedding
- · Baby clothes
- Sleepwear
- Sampling

...and many more!

Typical Materials	White Ink	
Cotton	V	V
Cotton blends		V
Polyester		V
Poly-Viscose		V
Rayon		V
Silk	~	V
Wool	~	V
Spandex		V
and many more		







WHAT MAKES US DIFFERENT

More features, more output, more colour

WIMS... "Don't be fooled cartridges are there only to lock out consumables. So called "closed loop systems" sound great but add little if anything to ink stability - it's simple 1st grade science - you can not syphon fluid without pressure, nor can you move ink from a cartridge or a bag without air in the system - it's how you manage the air in the inks and the subsequent settling which makes the difference. If you have to shake something to make it work... You really need to re-look at WIMS technology"

> Moishin Tiwana -Chemical Engineer

OnePassFast... "Double your production - In early 2009 we pioneered the One Pass process which allows both white and colour layers to be seamlessly printed by eliminating the need for two pass white and colour layers - perfect for fashion style prints and full photographic images - with the M2 you can increase your output dramatically - 2 shirts in 40 seconds with white ink!!"

> Jerry Erich -Global products manager



FEATURES & BENEFITS



With the patent pending White Ink Management System, head clogging and maintenance downtime is reduced considerably. The DTG-WIMS is the final answer to white ink prints.

By re-circulation of ink via a pressurized peristaltic pump system coupled with pressure release filters and dampers your white ink is ready to print when you are. We have reduced the maintenance and downtime currently seen in the industry and the M-Series are the best all-round white ink print systems in the world market today.



TEXLOR Platen Options - scaleable production

The M-Series is 100% flexible with a multitude of TexLoc™ platen options for kids sizes through to super wide prints.

The M-Series bed in standard configuration supports two standard shirts with a unique bridge to allow extra wide prints to a maximum of 610 x 450mm (24" x 17.7").

Big image area options - are available on the M4 and M6 with our unique platen drive swap out mechanism for multiple production up to 8 shirts need to print full length jeans, towels etc. Image areas 1100 x 2000mm (43" x 78") – you can configure your mseries to your market or grow into new markets and expand your profit options - It's flexible.



DTG One Pass Fast

A uniquely beneficial patent pending process that allows both white base and colours to be printed in just one pass. With the "One Pass Fast" you can offer faster turnarounds

with greater speeds and gain much greater control over the colour gamuts required to create truly original and fantastic colour prints to a whole host of substrates.

"Up to 50% faster prints with exceptional colours and all supported with a unique easy to use RIP."



ACPC (Active Print head Collision Protection)

By incorporating precision culminated light beam detection sensors, anything getting in the way of the print path is automatically detected, and the active drive system will

drop the pallet while printing, ensuring that head strikes are drastically reduced while still maintaining your prints.



We're green

Or try as hard as we can to be a responsible corporate company who takes our environment policies seriously. We endorse and partner with suppliers who also adopt similar principles.





Just better Science

The all new iQ Interweave technology is a core development in support of textile decoration. A new science that delivers Interweave greater flexibility and quality of print to a wider range of garments. More ink when and where you need it! IQ

Interweave prints in a wave pattern, not staggerd lines. Wave printing over grids of textiles is far superior.



Positive Damper Feed Pressure

Unlike inkjet ink used for paper printing, textile inks have a higher viscosity and surface tension and struggle with

gravity fed ink systems. Consistant ink delivery means less clogging and longer prints are available without the stress for ink replenishment to the nozzle plate. The DTG Digital range uses a pressurized damper on each individual colour with 1.2psi of constant pressure for better ink delivery ensuring consistent colour accuracy and better reliability.



DTG Training Academy

DTG Digital is the only manufacturer to provide significant after sales support and training globally with over 86 dedicated resellers. The DTG Training Academies are located in Australia,

Singapore and the UK and are textile application centres that are in support of educational facilities, supporting young designers.



Lowest Cost per Print

A low cost per print is imperative in most markets. At DTG Digital we have a selection of inks for various applications.

We also match quantity to cost per print requirements to help customers win important contracts. Contact your DTG Digital representative to discuss how quantity buy breaks will help your production price constraints.



Construction ** DecoNetwork ** Webstores

Why are some online sites booming while others aren't? It's simply all about affiliate stores, an intuitive online design process and instant SEO marketing. Deconetwork provide invaluable tools for those wanting to cash in on the online garment trading boom by providing over 15,000 webstores designed specifically for online trading. There is a host of features that ensure your web success. More details www.deconetwork.com



Download DTG Designs Value Design

It's one thing having a great website but it needs graphics that people want to buy. DDTGD sources leading street wear graphics from a host of designers globally and are available for download and pre prepared ready for DTG printing. There are over 1000 royalty free street wear designs, perfect for online and retail sales. Populate your web store today.

IQ Interweave... "Lets face it: printing on textiles isn't the same as printing on paper. All current print heads in the market work on the principle of laying ink drops in staggered parallel lines - but textiles are basically fibers in a grid pattern, so we have changed the science to lay down ink drops in a wave pattern across this grid of fiber - increasing saturation and eliminating banding which is common at lower resolutions. It's an all new science"

> Gordon Zerf -Head of Engineering

IQ RIP.. "Print quality is essentially the most important reason why DTG Digital has been the benchmark for the garment decoration industry globally - textiles are viewed up close not from a distance like a poster - most DTG machinery options support print heads that simply do not offer a microweave drop picolitre option and struggle to create an adequate or correct waveform for textile decoration. It all comes down to the colour and quality of your print that will make the difference."

> Jon Cloake -Global Tech Support







M2 Specifications



Printhead

Piezo 180 nozzles per channel



Colour

8 (Dual CMYK or 4* White plus CMYK)



Print Area

604mm x 450mm (24" x 17.7")



Drive

Processor driven conveyor



Inks

DTG inks - Piezo compatible pigments



Ink Delivery

Bottle - pressurised

CYMK
Bottle - pressurised
re-circulation - white
(WIMS)



Operating System Vista and XP or above DTG RipPro & PrintPro



Electrical

AC 110-240V, 50-60Hz, 10A Consumption - 55W or less, Standby - 5W, Off - 1W



Physical Dimensions 1210mm (W) 560mm (H) 900mm (L)



Weight

98kg (216lb) (boxed weight will vary)



DTG M2 INDUSTRIAL

The industrial class DTG M2 is the culmination of 10 years of R&D and garment printer development, it delivers the industries most advanced, user friendly and precise print platform specifically designed for textile applications, whilst retaining the revolutionary WIMS (White Ink Management System) and One Pass print technology that have made DTG Digital an industry leader.

The M2 series machine is designed with a bespoke firmware specifically created for optimal print quality at higher production speeds by adoption of greater ink droplet control and accurate placement on the garment. Simply put, the M2 outputs more without lowering print quality, it's a better science!

Print all over T-shirts, hoodies, tea towels, mouse mats, bags, jeans, cloth panels and more. The productivity, flexibility and throughput is limited only by your imagination, creating greater profit opportunities for you. The DTG M2, an industry benchmark that will grow with you!

Better engineered, ink management, brighter prints, faster production, more flexibility and easier to use without the maintenance levels currently experienced in the market, that's the DTG M2!





1000mm

1210mm











Large prints

Multiple prints

Easy maintenance

M2 Quick Facts

- Industrial all steel build IT'S TOUGH!
- Patent Pending WIMS (White Ink Management System)
- Seamless servo driven accuracy
- Bespoke firmware designed for textile Printing
- Scalable production print multiple garments at a time.
- A new way to print iQ Interweave eliminates banding at all resolutions
- Print area of 604 x 450mm (24" x 17.7")
- Print 50+ large graphics on white/lights garments and 25+ large graphics on darks per hour – Now that's FAST!
- One pass enabled, increase your production output dramatically
- 46 pcl ink drop size scalable through all resolutions.
- Intelligent integrated RIP software with patented white under-base tools











M6 Specifications			
	Printhead	Piezo 180 nozzles per channel	
	Colour	8 (Dual CMYK or 4* White plus CMYK)	
0	Print Area	1150mm x 632mm (Max 750mm)	
	Drive	Processor driven conveyor	
0	Inks	DTG inks - Piezo compatible pigments	
	Ink Delivery	Bottle - pressurised CYMK Bottle - pressurised re-circulation - white (WIMS)	
	Operating System	Vista and XP or above DTG RipPro & PrintPro	
(1)	Electrical	AC 110-240V, 50-60Hz, 10A Consumption - 55W or less, Standby - 5W, Off - 1W	
1	Physical Dimensions	1810mm (W) 1250mm (H) 1300mm (L)	
	Weight	170kg (375lb)	

(boxed weight will vary)



DTG M6 INDUSTRIAL

The DTG M6 Industrial is the culmination of 10 years of R&D and garment printer development, it delivers the industries most advanced, user friendly and precise print platform specifically designed for textile applications, whilst retaining the revolutionary WIMS (White Ink Management System) and One Pass print technology that have made DTG Digital an industry leader.

Since the development of the first M Series machine built in 2010 we have continued to develop our products. The M6 still has the same great features our users have come to expect but now we have added even more functionality including ink mist extraction as well as temperature and humidity monitoring to ensure even greater control.

The M6 can still produce the same all over t-shirts, hoodies, tea towels, mouse mats, bags, jeans and more but can also do full all over bespoke panel prints for just in time production.

The DTG Digital M6 supports the latest 4-2-1 platen system that gives a massive 1150cm x 632cm (extendable up to 750mm) which gives the user the ability to print 12 medium, 6 large, 3 XL and 1 super size XXL garments plus full bed panel printing!





1250mm

1810mm

1300mm











4-2-1 Platen System



Dynamic machine interface

M6 Quick Facts

- Industrial all steel build IT'S TOUGH!
- Patent Pending WIMS (White Ink Management System)
- Seamless servo driven accuracy
- Bespoke firmware designed for textile Printing
- Scalable production print multiple garments at a time.
- A new way to print iQ Interweave eliminates banding at all resolutions
- Print area of 1150mm x 632mm (Max 750mm)
- Ink misting extraction protection system
- One pass enabled, increase your production output dramatically
- 46 pcl ink drop size scalable through all resolutions.
- Intelligent integrated RIP software with patented white under-base tools
- Consistent repeatable prints, day after day
- 4-2-1 Platen System:12 Medium / 6 Large / 3 XL / 1 Super Size XXL













+SHIRTS DTG Series builds on over a decade of remarkable success in the finished garment decorating markets. With over 8000 installed printers globally for direct to garment applications. We've brought all that combined

experience together to create the world's fastest industrial garment and fashion panel printer.

We have learnt a lot over our time and helped thousands of successful garment printing businesses grow and succeed. What we do hear loud and clear is that an incredible growing number of printers now require a faster production process.

So in the past few years we have been prototyping and refining a new series of printers that were designed with one thing in mind... SPEED.

Naturally we wanted to continue with IQ Interweave and superior ink drop sizes for high resolution prints that have made DTG Digital the most recognized and used. It was also imperative that we used the same inks and print heads that have generated all that success so far.

To build on this legacy our engineering team had to start from ground up in designing a printer that will deliver on all fronts... the DTG-QM8.

DIRECT GARMENT

If your market is t-shirts, fashion, bags, hoodies, apparel manufacture or any wearables then our inks and advanced print heads will make production "easy". All at a very affordable price.









QM8 Specifications



Printhead

Piezo 180 nozzles x 8 lines/head



Colour

2 x 4 CMYK (Speed) or 8 Colour (Gamut)



Print Area

1900mm x 650mm



Drive

Processor driven 4 belt conveyor



Ink Type & Volume

DTG inks - Pigment, 1000/2000ml per colour



Ink Usage

22 - 34ml/m² Image/fabric dependent



Operating System

Vista and XP or above DTG RipPro & PrintPro



Electrical

AC 100-120V/AV. 200-240V @ 50-60Hz Consumption - 200W, Standby - 38W/30W <3.8W



Physical Dimensions

2970mm (W) 1500mm (H) 1290mm (D)

Weight

650kg (1433lb) (boxed weight will vary)









Intelligent Features

- New QM print engine A quad (4) staggered head printer array with 32 channels of variable 3.5 pcl to 48 pcl drop sizes across all resolutions for rapid penetration and extreme colors. Lower viscosity ink controls for a finer drop placement and faster more precise under-basing and registration. Better colors and more saturation.
- 300+ White shirts/panels per hour with an A4 image (8" x 11") at 720 x 720 dpi. Images are incredibly sharp and the color gamut supported far exceeds any printer in the market.
- Dual CMYK 16 channel dedicated color print heads with increased pressurization and larger pressure release manifolds at the print head – no ink replenishment issues – there's always the correct ink delivery ready to print 24/7 – all shift.
- The DTG-QM8 workflow follows traditional multi head embroidery and screen-printing loading systems for easier integration onto the shop floor. An operators best friend.
- The DTG-QM8 is a hi-speed production ready garment printer that brings cost effective ink management with superior color to mass decoration volume requirements. It delivers all the unique features that the DTG range has previously, but in a highly affordable in-line print production station with features that set it apart. It prints faster than any previous model. Requires less maintenance and has the lowest consumable and service cost in the market... truly industrial.

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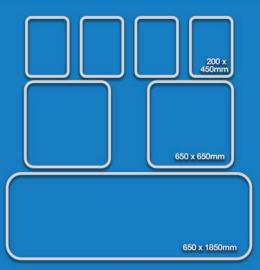
Platen options available for single or all over prints



4-6-8 Pallets and large field 650 x 1800mm panel options

CUT PIECE, PANELS AND FINISHED GARMENTS

PLATEN OPTIONS





4 head - QM print engine



Interchangeable platens



Print quality and features within a RIP – do make a difference to your overall design – if color and knock out graphics are important to you and your customers, then the new IQRip for the DTG-QM8 will leave you breathless.





Specifcations

Print Technology	Drop-on-demand Micro Piezo Inkjet Technology
Print Head	4 (staggerd setup)
Nozzle Configuration	180 nozzles x 8 lines/head
Drop Mass Range (pl)	4.5 to 45.9
Head Heights (mm)	>5 +/-
Colour Set-up	2 x 4 CMYK (speed set-up) or 8 colour (gamut set-up) CMYKOrRdViGr
Media Specifications	
Max. Print Width	1900mm (74.8")
Max. Print Depth	650mm (25.6")
Max. Media Thickness	Platen dependent
Ink Specifications	
Ink Type	Pigment
Ink Volume	1000/2000ml per color
Average Ink Consumption	22 - 34ml/m² Image/fabric dependent

Quality per shirt	(720 x 720dpi) 300+ white
Production per shirt	(360 x 720dpi) white 500+ (Dual CMYK
Maximum Speed	204.3 m²/h
Power Consumption	
During Printing	200W
Stand-by/Sleep/Power Off	38W / 30W / < 3.8W
Power Supply (Printer only)	AC 100-120V/AC 200-240V @ 60/50Hz
Noise (dB)	± 69.8 (printing) / ± 60.5 (standby)
Recommended Working En	vironment
Temperature	22°C - 30°C with Δt: max. 2°C/h
Humidity	40% - 60% (non condensation) with Δ RH: max. 5 % RH/h
Machine Measurements	
Width x Depth x Height (mm)	2970 x 1290 x 1500 (117" x 70" x 59")
Weight [Box weight may vary]	650kg





Coatings/Pre-treats

Pre-Treat #1 (Dark Cotton)

Pre coat agent that can be applied by aerosol or compressor. For white ink textile printing to dark cotton and lights.



Foil decoration

A simple foil application allows for stunning new effects allowing you to offer your customers a point of difference. Widely available in most countries, please contact your DTG dealer for further information on foil application.



We do not guarantee print results or adhesion. Trial print tests must be undertaken prior to production and inks must be used in accordance with local government guidelines.







Typical Materials	White Ink	
Cotton	V	V
Cotton blends	~	V
Polyester	~	V
Poly-Viscose	~	V
Rayon	~	~
Silk	V	V
Wool	~	V
Spandex	V	V
and many more		

INKS

At DTG Digital "we know textiles" and the right ink for your application does make all the difference.

We understand that it is imperative for fashion, promotional and production printers to provide great colour, wash fastness with a superior hand. We understand that price and performance is critical as well to your ongoing success. And this all starts with superior print head reliability, repeatable colours batch after batch and less maintenance downtime from a better ink with prices matched to your market requirement – the genuine **DTG Digital** inks simply excels.

The new DTG Tex DP series has less white ink settling, typically lower viscosity and surface tensions enabling continual repeatable prints. There's less air in the ink delivery to nozzle plates, so you get more printing without the maintenance levels currently seen in the market

Great colours consistently, our DTG Tex DP series delivers all common colour gamuts required for correct colour matching. A unique formulation with latex derivatives provides stretch and a non cracking formulation that is consistent in colour and reliability over extended batch manufacturing. Typically the DTG Tex DP textile series are superior in colour as they do not fade in curing as most common pigment textile inks. It's a great ink!





SOFTWARE

Kothari Print Pro o

Choosing quality printer hardware is only half the equation, choosing a simple to use, colour managed RIP software will make your prints come to life. DTG Print



Pro is the original direct to garment software specifically designed to automate the creation of white ink underbase and high-lights, preset templates and print queue management. DTG Print Pro offers features essential for professional grade reproduction of images onto textiles all within an intuitive simple to use application.

It's template managed interface allows you to simply drag and drop a design in place, apply a preset colour managed profile and output to print on all colour textiles. The seamless step and repeat print queue ensures that production run prints are repeatable time and again.

DTG Print Pro's "Black Textile mode" recognises all black elements within a graphic file and will create the white layer as "shades and gradations" therefore eliminating the need to print black ink in the colour layer. This significantly reduces ink consumption, increases print speeds and results in an incredibly soft hand feel to the printed garment.



DTG Print Pro is intelligent enough to allow you total control over ink droplet deposits on your garment. Simply put, you can print as little or as much ink as you like. Whether you are a fashion printer using subtle shades or you print promotional garments with colours that really "pop" be assured that DTG Print Pro will exceed your expectations.



Print quality and features within a RIP do make a difference to your overall design - if colour and knock out graphics are important to you and your customers, then the new iQ RIP for the M-Series and QM8 will leave you breathless.

Compatible with most file types - jpg, psd, tiff, png, tga, gif, bmp, pcx, dib. Colours are sharp and accurate - edge definition detail is sharp, user intervention is limited because the new iQ RIP supports more features

for industrial decoration than any other RIP for a DTG application.

White layers are auto generated with complete scalability and creates the perfect undertones for maximum presentation - precise calculation while printing to dark garments - your iQ RIP sees a black shirt as an under base colour and corrects accordingly - sharper prints faster whilst using less ink.



DTG Print Pro Features

Colour Management

- Print Pro is an ICC aware colour managed application
- Uses embedded ICC profiles in the image files or assign default profile to RGB and CMYK images
- · Integrated CMM
- Uses CIE L*A*B* as profile connection space
- Supports D50 and D65 Illuminant for profile connection space
- · Device Profiling
- Support colour profile generation for printing with white ink on coloured textile
- Uses coloured textile background as an ink

Device linearization

- · Ink Limiting
- Custom GCR/UCR settings
- · Intuitive grey balancing
- Monitor calibration
- Spectrophotometer support for profile creation (seperate plug in tool)

Halftoning

- · Extended support for variable drop printing
- Sophisticated dithering for highly smooth image output

Image Handling

- Reads and writes BMP,PCX,GIF,PNG,JPG, TGA and multi channel file formats TIFF and Photoshop
- PSD file transparency support enabled
- TWAIN compatible scanner/camera support
- Memory management module for large image files
- Versatile image adjustment with colour correction filters
- Image transformation, crop, rotate, flip etc
- Transparency generator tool

Print Queue manager

- Simultaneous RIP and print
- · RIP once print many
- Job order changing, deleting, holding for production workflow enhancement

Port Manager

- Support File, USB TCP/IP, parallel and serial port
- Print through windows print queue both on local machine or network printer

Garment Specific

- · Automatic patented white underbase generator
- Choke feature for white underbase
- White highlight generator

System Requirements

- . Microsoft® Windows® XP or later
- Processor: requires a PC based on Quad Core (2.2 GHz) technology or higher
- · RAM: 2GB DDR2 or more
- Hard Disk: Hard Drive with SATA interface and 100 GB free disk space
- Monitor: SVGA or better with resolution of 800 x 600 or better. 16 Bits or more colour support recommended.
- · Ports: 2 x USB recommended



















All Over Prints









Rhinestone and foil combinations









Fine Detail







Print on Black



Jeans









Print on Seams

Soft Furnishing









CONTACT:

Impression Technology Europe

Sovereign House, Sovereign Way Mansfield, Nottinghamshire NG18 4LQ England

T: +44 (0)1623 861173 F: +44 (0)1623 863345

E: info@impressiontechnologyeurope.com W: www.impressiontechnologyeurope.com



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