

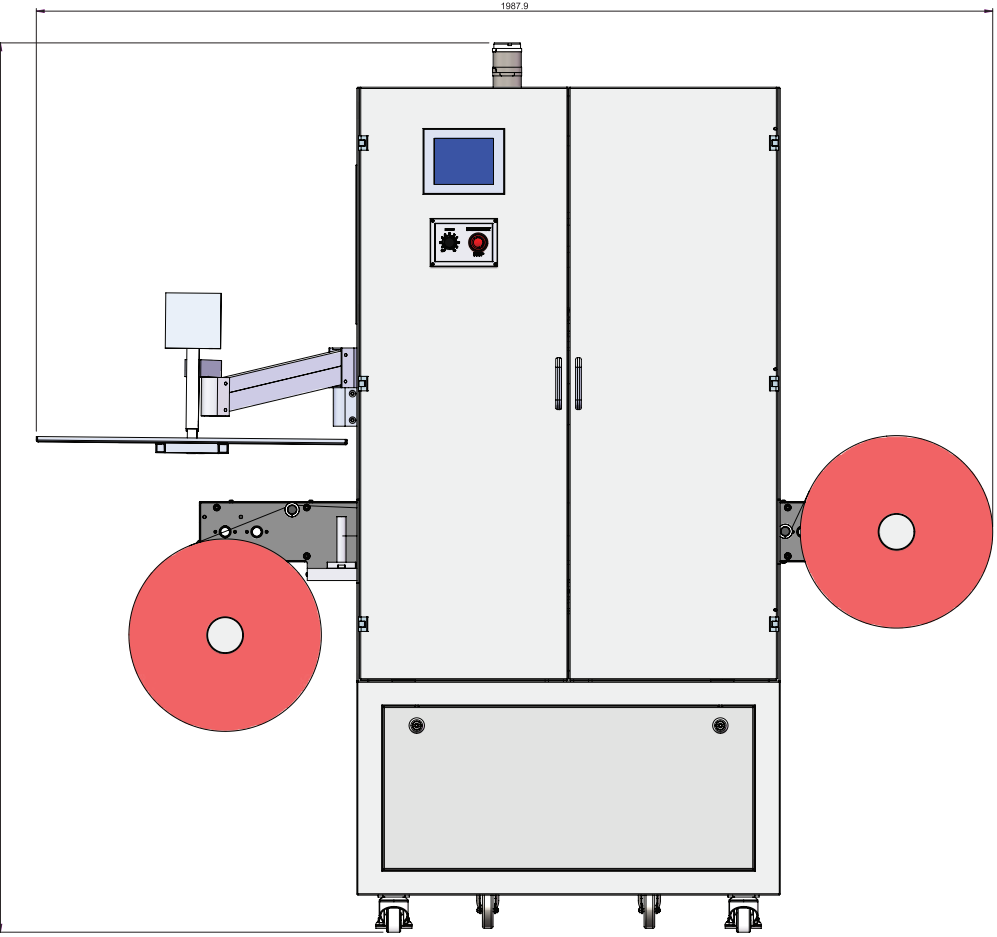
APPLICATIONS:

10 Labels or 100,000 labels...Low or High volume printing , personalised printing, high resolution graphics, security labels , variable information, sequential numbering, bar codes, variable bar codes, identification products, retail applications.

d-TeX ADVANTAGES:

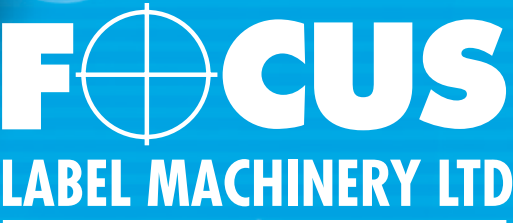
Entry level systems provide realistic level of investment. These systems can sit alongside traditional printing equipment, No printing plates, quick set up, no click charges, no expensive service contracts, only pay for the Inks you use.

d T E X S P E C I F I C A T I O N S		
STANDARD HiQ PRINT ENGINE SPECIFICATIONS		
	dTex (2 Col-MK)	dTex (4 Col-CMYK)
Web Width	150mm	150mm
Ink Jet Engine Print Width (mm) Options)	74 or 149mm	74 or 149mm
No of Heads per Colour	1 or 2	1or 2
Resolution KM1800i	600 x 600 : 600 x 1200 dpi	600 x 600 : 600 x 1200 dpi
Grey Scales	4 : 2	4 : 2
Colour options	Black – Red (white-future option)	Black-Red- Cyan- Yellow (white-future option)
Print Speeds	30 Mts/min : 60 Mts/min	30 Mts /min: 60 Mts/min
SOFTWARE		
PC, Front end Software + RIP Included	Global Inket Systems , Full Real time data Transfer	
Optional Software	Colourgate (automated colour management), PAKZ (File manipulation & colour management)	
File Formats	BMP,JPG,TIFF,PDF,CSV	
OPTIONS		
Roll to Roll, Ultrasonic label Cutting , Flexo Pre-Coat, Flexo Post-Coat , LED UV drying, Heat-Steam Drying UV Inks, LED UV Inks, Dye Sublimation Inks, Water Base Inks		



Take a closer look

Digital print & finishing systems
for textile ribbons,
Garment-Apparel labels.



Focus d-Tex... click & print...

INTRODUCTION:

Production is under increasing pressure to deal to smaller volumes of orders, with less time to process & less time to deliver the finished product. Buyers order less labels at more regular intervals with closer deadlines and have a close eye on keeping costs down. A number of digital possibilities for the label producer currently exists, from desk top thermal transfer printers to high end clean room print only solutions.

The new d-Tex concept is the first equipment designed specifically for this application. The dTex is a practical Industrial production machine, an effective method of producing short run digitally printed garment & apparel labels based on proven technology developed over several years by Focus in its packaging & paper division.

The launch of the Focus d-Tex concept equipment coincides with emerging Inkjet single pass print technology which will deliver quality & industrial performance suitable all label manufacturers who want to capitalize on fast changing market habits for shorter runs, high quality and variable data applications.

10 labels or 100,000 labels the d-Tex delivers effectively with a digital print solution, combining an entry level 2 colour (MK) or full colour (CMYK) inkjet system.

Typical running speeds of up to 30-60 mts/min are achievable with high end software that will handle small orders, variable data and high resolution graphics.

Do you want to become a partner in this revolution? Then visit our web site and register now.

d-TEX SYSTEMS PROVIDES:

- > Print & supply on demand.
- > Variable data information printing
- > HiQ 1800dpi resolution.
- > 2 Colour or Full colours (CMYK) option
- > Integrated label cutting system (Optional)
- > Reduced waste with a single pass manufacturing operation
- > Lean manufacturing
- > High end print driver software & RIP
- > Ink available from a selection of approved third party sources
- > Printable on a variety of Apparel substrates (subject to testing)



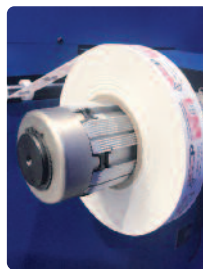
HMI OPERATOR CONTROLS

A simple menu systems provides full control of the machines functions. A Remote Service and diagnostics is available from Focus, as is remote monitoring for company production & management staff across different sites to collect production data.



TURN BAR:

An adjustable Turn bar allows printing on both sides of the ribbon without the need of a second set of Print Heads. When selected to print both sides, the available width is reduced by 50%.



REWIND& UNWIND

The Dtex has Pneumatic Tension control with precision air Cores . This ensure rolls a presented at the perfect tension for any additional processes to minimize waste. Elastics require a special tension system supplied as an option.



GRAPHICS INTERFACE:

Jobs can be prepared off-line or on-line for maximum flexibility for 'On-Demand' production. The software can handle a selection of Graphics formats with the ability to split into 4 colours for Photo quality output. Variable data, sizes, Bar Codes, sequential numbers are printed seamlessly... no need to stop the press. Usage & Costings of Ink can be calculated accurately before you even print a label.



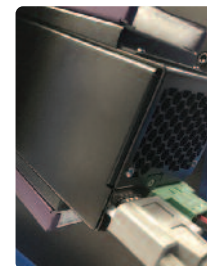
HI-RES PRINT HEADS

Print widths are 74mm or 149mm. Each print head has a 1800 DPI resolution, HiQ Heads are capable of handling the smallest of Text/graphic point sizes. Drop sizes can be controlled precisely for different graphics types & textile finishes. We are supplying 2 Colour or 4 Colour variants



TRANSPORT SYSTEM

Focus has 40 years experience in Print transport systems across a wide range of Presses. The key to high quality is the stability and accurate control of the transport system. The dTlex has the most advance system with precision encoders & Servo drives ensuring Print Quality & register is highly controlled across a range of Textile types.



DRYING SYSTEMS

Focus offers 4 types of drying LED UV, UV, IR or Steam depending on the Application & Ink types.



PRINTED RIBBONS

The dTex can handle a variety of applications & ribbon types. Suppliers are introducing a number of new products developed specifically for digital printing. The maximum Ribbon with is 150mm, with Print engine options of 74 or 149mm.

HOW IT WORKS:

Ink jet is non-contact printing technology, making use of tiny droplets of Ink driven by electrical signals through an ink chamber array onto the substrate, which is transported just below the print head.

The deposited drops have to spread spontaneously and form the image, before being cured under a suitable drying system. The technology needs no printing plates or screens and provides major saving in set up times. Jobs can be changed over in a matter of seconds. Labels can even carry variable information or images. Single pass inkjet printing is gaining in popularity in the manufacture wide web textiles applications, to facilitate high speed, short run production.

However, roll-to-roll inkjet printing differs from conventional methods used for label decoration and careful selection of substrates and/or coatings will need to be considered.

INKS, SUBSTRATES & COATINGS:

The number of materials , Inks & coatings is growing with manufacturers eager to take advantage of this technology.

A variety of Ink types are in development in digitally printed textiles including Dye sublimation, UV & LED UV, Dyes & Pigments.

Selection depends on the application /type of Fabric and each Ink system requires a different drying system. The ideal inkjet ink for roll-to-roll applications of any kind is one that will wet out properly and adhere to a wide range of materials. For this to work, the ink must exhibit low surface tension, and the substrates must exhibit high surface energy.

However, in reality the wetting and flow requirements are very different. These differences make it challenging to print digitally with sufficient quality on the same range of substrates compared to analogue printing. These challenges can be overcome by formulation, surface treatment, and judicious selection and testing of substrates.

