EQUIPMENT
Specifications

PicoColour
UV Inkjet Digital Label Press

Print Technology	Xaar 1003 TF Technology
Resolution	360 x 360, 360 x 240
Ink Type	Dantex Formulated Inks
Ink	CMYK
Number of Greyscales	8
Minimum Droplet Size	6pl
Web Width	230 mm
Print Width	210 mm
Print Speed	35 m/min. at 360 x 240
Substrate Support	Standard self-adhesive label substrates
Substrate Thickness	100-300 µm (Thickness dependent on material properties)
Unwind/Rewind (Max. Capacity)	70 kg weight
	630 mm diameter, 76 mm inner core
Die Cutting	10 - 17" Cylinders available (1/8 pitch increments)
Press Dimensions (L x D x H)	330 cm x 170 cm x 180 cm
Power	32A 3 Phase + Neutral + Earth
Compressed Air	100 psi (5 to 6 bar) at 300 litres per minute
PicoColour Standard Features	- Intuitive colour management system - Recirculating ink system - Web Cleaner - Individual Colour Pinning
PicoColour Optional Extras	- White Ink - Black Ink Only - Corona Unit - Chiller System (for thermal substrates only) - Full Rotary Die Cut Station & Matrix Remover - Variable Data (from Q1 2017) - Additional mark sensors - Digital Varnish (CMYK and Black options)

SOFTWARE
Tools & Integration

PRINTING
Technology

The MaxPrint software system provides operators with a digital front end which has been specifically designed to compliment the unique characteristics of the Dantex PicoColour Press. It has been developed to deliver high quality, colour accurate prints, quickly and consistently, all from within an intuitive and operator-friendly interface.

PicoColour uses the latest Xaar 1003 printhead, which delivers exceptionally smooth print tones and solid areas, which are perfect for printing amazing life-like images, pin sharp text and bold colours with an extended colour gamut. PicoColour is designed to work with Dantex's specially formulated inks; high quality results can be achieved even on the most challenging design. This ink formulation ensures a thin and even coverage without any loss of quality, integrity or colour density.

The MaxPrint - RIP
Colour, Ink and media are all managed via the software. This provides operators with the facility to access and configure jobs from within a single application environment.

Workflows are quickly and easily defined, controlled and monitored. Press ready files are processed automatically via hot folders with the resultant high resolution and colour managed data optimised for output.

The Dantex PicoColour uses a vivid inkset and the software takes full advantage of this via a powerful spot colour matching facility.

Multi-colour shade allows for a dynamic range of spectral data, such as brand colours and industry standard colour libraries to be input, reproduced and optimised.

A report, detailing the accuracy of the colour match can also be exported for internal and external communication.

PicoPilot - Front End Controller
Pico Pilot enables you to simply take the colour managed bitmap file and position for printing.

The PicoPilot software includes simple step and repeat functions to include basic imposition templates, registration control, rotate & crop and label counting/batch printing feature.
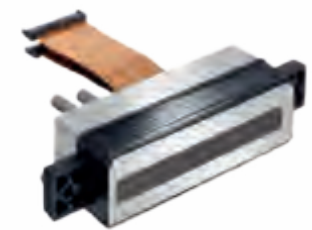
During printing the PicoPilot has the unique feature of being able to turn colours on and off during the run.

Key Features
- Accepts all standard file formats.
- Advanced spot colour library functions.
- Superior colour management.
- FM Screening for fine details.
- Ink Cost Calculation.

Outstanding Print Quality
Optimised Geometry nozzles deliver greater drop placement accuracy and consistent drop volume, even with heavily pigmented and high viscosity fluids. This gives even colour density across the printhead and the entire print width.

The Print Head
This printhead is designed to deliver maximum production uptime with minimum intervention and ensures high output. TF Technology™ (ink recirculation) and unique Hybrid Side Shooter™ architecture, ensure continuous ink flow at a high rate directly past the back of the nozzle during drop ejection. This means that any air bubbles and unwanted particles present in the fluid are carried away, radically improving reliability, even in the harshest industrial environments.

TF Technology™ ensures that the printhead is self-priming; therefore maintenance cycles are short and start-up is instantaneous.

Individual Colour Pinning
After each colour the ink is pinned to the substrate with UV LED lamps before UV Main exposure. This prevents the ink from spreading and gives improved print quality, excellent overprint of colours and excellent colour management & print repeatability.

Single Pass White
White ink allows greater design flexibility and printing on a wider variety of substrates including paper, film, foil and speciality stocks. PicoColour offers excellent white ink coverage, density and opacity.

Key Features
- Colours – C,M,Y,K (Standard)
- Pinning after each colour.
- White – High opacity (Optional)
- Recirculating ink and head system.
- Wider colour gamut than normal inks.
- No need to prime substrates prior to printing.
- Excellent chemical, light & rub resistance.
- Blue wool CMYK 6+
- No post varnishing/laminating required.

DIGITAL
High Flexibility

SHORT-RUNS
Meet the Challenge

By introducing PicoColour to your workflow you can produce high quality labels, fast. Print jobs that would be unprofitable on your flexo press can be easily and efficiently diverted to your digital production workflow.

PicoColour poduces extemely high quality labels, whilst offering fast make-ready, high up-time, ease of use and low maintenance.

Product Image
Product image is now a priority item and interactive packaging is increasing in popularity.

PicoColour can offer vivid colour, sharp text down to small sizes and clear, as well as the means to produce:

- Shorter runs.
- Intelligent labels and packaging.
- Frequent information changes.
- Large variety of product designs.
- Regular redesigns.
- Variable and personalised information.
- Special offers.
- Limited editions.
- Brand protection.
- Anti-counterfeiting measures.
- Security and consumer safety.
- Fast turnaround.
- Traceability.

PicoColour will enable you to produce the shorter-run jobs your customers demand, and free up capacity on your conventional presses.

This solution offers fast production, high quality print, and increased versatility.
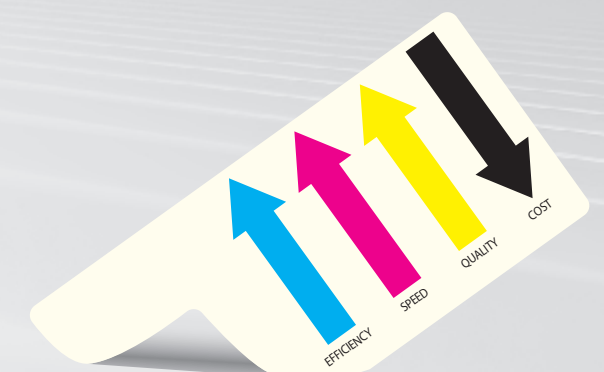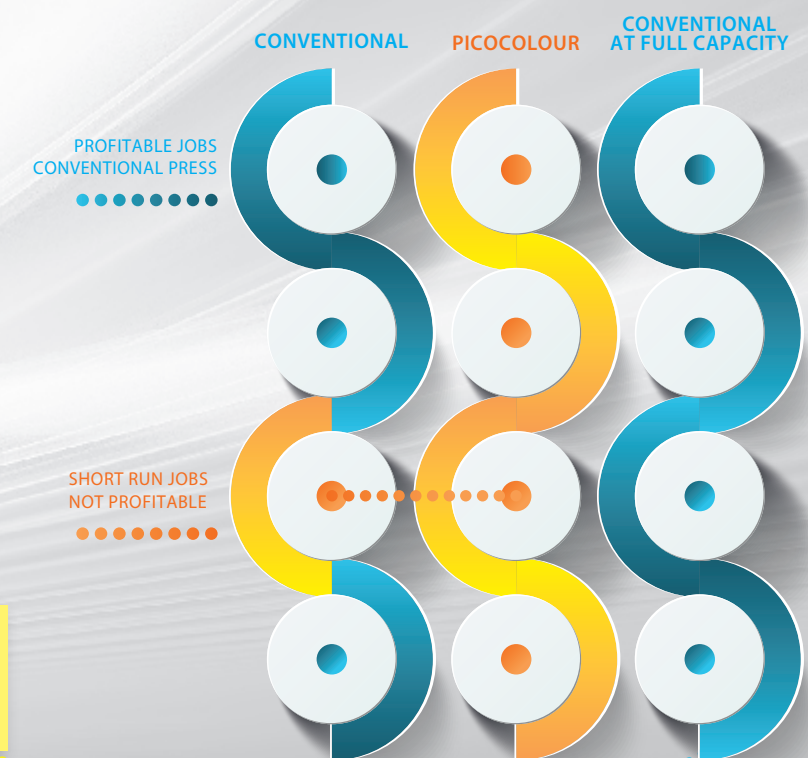
Conventional Flexo Press
Short run work is not profitable to produce on a conventional press due to the lengthy and costly pre-press processes involved, the press set-up time required for each job and the substrate and ink waste created.

Digital Press
If a digital press is introduced into the production environment, all short run work can be transferred to it. This increases the production capacity of the conventional press and reduces the downtime of the machine.

Additional Capacity
Both presses can then be run at full capacity, which maximises profitablilty and allows the printer to take on more work, both short run and long run.

CONVENTIONAL PICOCOLOUR CONVENTIONAL AT FULL CAPACITY

PROFITABLE JOBS CONVENTIONAL PRESS

SHORT RUN JOBS NOT PROFITABLE

EFFICIENCY SPEED QUALITY COST

DISCOVER
PicoColour

PicoColour® UV inkjet digital press is a versatile, small footprint label printing system offering superb printed results at a competitive price. PicoColour is suitable for short and long run jobs and offers all the benefits of digital printing for today's demanding production environment – no minimum quantity, no waste and super fast turnaround.

Productive and Flexible
The PicoColour is able to accommodate a printing width up to 210 mm and has the flexibility to print on a variety of different substrates.

It can print on thicknesses of 100 microns up to 300 microns. It can also achieve a maximum print speed of 35 m per minute.

With no plate making, no press make-ready and with every copy perfect from the very first label, PicoColour improves profitability of the job run, whether long or short.

Built to Last, here to Stay
PicoColour is built to last, simple to operate and easy to maintain. This press is designed and manufactured by Dantex in the UK, with an emphasis on operational efficiency, robust precision engineering and durability.

Puts you in Control
PicoColour offers digital inkjet printing with simple operation, that puts you in control. PicoColour allows you to prioritise your work according to run length and material for maximum efficiency and the highest possible up-time.

Job setup requires minimal time and offers ultra-fast turnaround, so that you can give your customers the fast-turnaround service they demand.

Dantex fully supports PicoColour through its extensive applications, service and support network.

Discover labels at the touch of a button!

Key Features
- High quality.
- Increased productivity, fast make-ready.
- Short run capability.
- High up-time.
- Simple to use operator interfaces.
- Intuitive colour management system.
- Low maintenance.

INCREASE
Production Efficiency

In addition to traditional plate materials and consumables, Dantex now offers a digital inkjet system, because we see the need for both technologies; they complement each other and give printers more choice and flexibility. With no plate making, no press make-ready and with every copy perfect from the very first label, PicoColour improves profitability of the job run, whether long or short.

Shorter runs, more flexibility
Increasing pressure from print buyers to offer shorter runs with greater flexibility makes PicoColour an ideal solution. PicoColour offers high speed, high quality consistency and increased productivity.

Advantages for the Printer
Brand owner/suppliers need to tailor their label and packaging requirements to suit the market environment by holding minimum stock quantities. It is common practice today to create new advertising/branding with ever changing designs to test market acceptance.

PicoColour offers this tremendous capability - whether a job is 500 or 50,000 labels, you need a platform which is capable of producing long runs, equally competitively as short runs.

Puts you in Control
Optimise your production efficiency by adding digital print to your offering. The transition from design work to print is seamless with no time-consuming manual processes such as plate making or press make-ready.

PicoColour literally offers-
Labels at the touch of a button!

PicoColour Workflow
DESIGN   PRE-PRESS   PRINT & FINISHING

Conventional Workflow
DESIGN   PRE-PRESS   PLATEMAKING   MAKE-READY   PRINT   FINISHING