X443





A flexible, digital solution to add value, creativity and improve profitability

The Xaar Versatex Printbar, powered by Xaar Nitrox printheads, enables flexible packaging and label integrators and OEMs to upgrade their silk screen printing processes or other analogue methods to a digital inkjet solution. Benefit from Xaar's industry-leading printheads and technologies, as well as the advantages of digital inkjet printing to achieve added value for your application and improve profitability.



Apply creativity and innovation easily for added value

A flexible system to add high opacity white, variable data or embellishments to your process that can be installed anywhere along your web-based system.



Exploit Xaar's industry-leading printhead technologies

Featuring Xaar Nitrox printheads, take advantage of our ImagineX platform, high reliability and market-leading technologies including Ultra High Viscosity Technology, High Laydown Technology and TF Technology.



Get a fast return-on-investment with digital

Reduce your development time and costs with a ready-to-integrate digital inkjet solution, that overcomes the challenges of screen printing and take advantage of the benefits of digital inkjet.



Appulations

Designed for a range of industry standard self-adhesive label and flexible packaging substrates including coated paper, polypropylene, polyethylene and shrink sleeves in any sector such as personal care, food and beverage and pharmaceutical.

High opacity white



Digital cold foiling



Spot varnish



Textures with specialist substrate replacement



Variable data



Mass customisation



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Achieve a screen like opacity with digital inkjet

Xaar's Ultra High Viscosity Technology breaks the status quo in jetting highly viscous fluids, jetting up to 100cP at jetting temperature, as well as significantly higher particulate loading of up to 40%.

With this capability, you can achieve a high opacity of 85% at 50 meters per minute for the most brilliant whites and other solid colours.

Only through jetting higher viscosity fluids can you improve the efficiency of your process and also add more functionality as well as improved benefits to the end use application

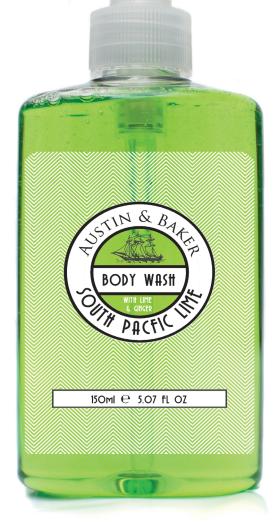
Integrator advantages that can reduce process time and energy costs:

- Shorter exposure time
- Reduced dot gain
- Less penetration
- Reduced pinning requirements



End use advantages that can improve durability of the print:

- Higher scratch resistance and toughness
- Increased adhesion
- No yellowing
- Flexibility
- Improved colour gamut



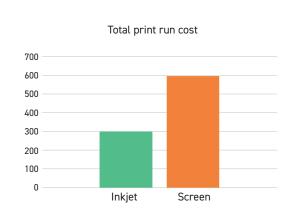


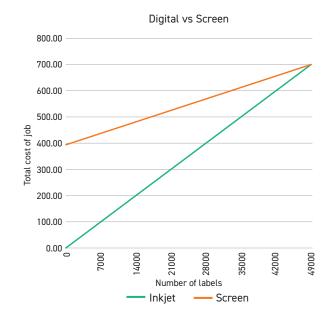
Improve profitability with digital

Shorter setup times and a higher utilisation rate of on average 30%, compared to screen printing, can often result in small run jobs being completed before screens are even setup.

	Inkjet	Screen
Number of labels	25,000	25,000
Setup time (mins)	5	40
Media width (mm)	410	410
Print speed (m/min)	75	65
Total job time (mins)	23.5	50
Label size (mm)	100 x 100	100 x 100

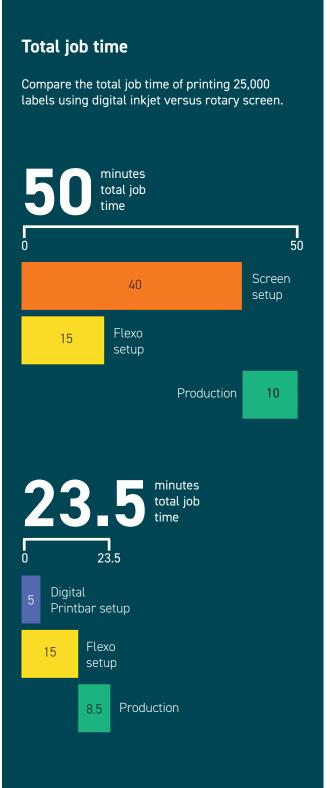
Lower overall cost of production





Increased profit margins on short run jobs

- Lower overall cost of production
- Lower setup costs
- Increased production rates
- Faster make-ready



Produce high build effects more efficiently with High Laydown Technology

Embellishments provide the added value that bring labels to life. With the Xaar Versatex Printbar you can deliver a digital embellishment capability to label converters that boosts their profit margins and provides a competitive edge when pitching to brand owners.

Xaar's High Laydown Technology with its high discharge rate delivers very high volumes of fluid in a single pass, enabling high build varnish for a wide array of tactile effects that can be produced more efficiently.

With the Xaar Versatex Printbar, you can create high build varnish effects at a thickness of up to 120 microns at 25 meters per minute in high laydown mode.

The Xaar Versatex Printbar complies with European standards for tactile warning triangles on labels, without the complexity of screen printing.



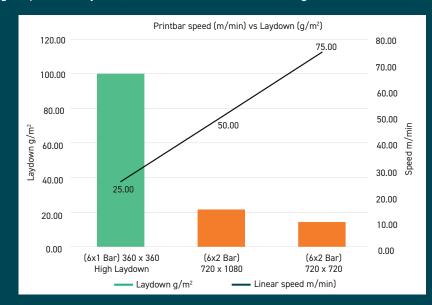
Screen-like quality with the flexibility and efficiency of digital

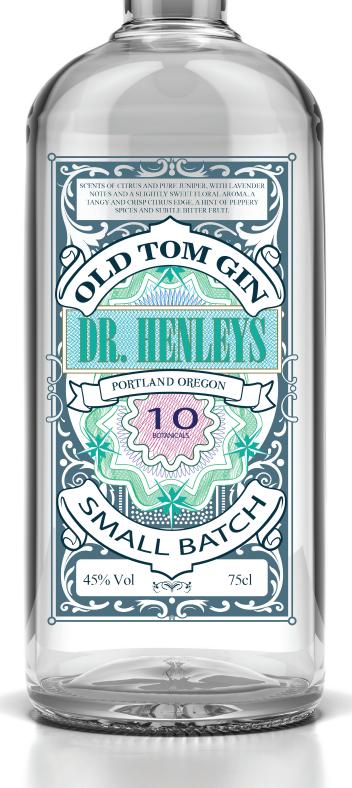
With the Xaar Versatex Printbar, you can avoid the costs and challenges of rotary screen printing and achieve the same quality and opacity at a higher productivity rate, lower costs and reduced wastage.

The 720dpi high resolution output of Xaar Nitrox printheads provide outstanding print quality on small text, fine details and effects at twice the availability and uptime due to short job changeovers resulting in higher operational availability.



Scan to learn more about High Laydown Technology





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Introduce mass personalisation and variable data printing

Keep up with demand for mass personalisation and use short runs to your advantage, making every item different for a more premium, unique feel and increased profitability.

With brands looking to create closer and more interactive relationships with consumers, packaging and labels can be a unique way to add names, run competitions, share brand values or show support of an event.

With the Xaar Versatex Printbar, you can add high resolution serialisation, variable text, QR codes to your labels and packaging whilst keeping up with the fastest production environments, up to 100 meters per minute at 720dpi.

The Xaar Versatex Printbar is suitable for labelling in the pharmaceutical, electronics and FMCG industries, where legislation requires traceability for products and packaging that are rub and scratch resistant.





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Take a look inside the Xaar Versatex printbar

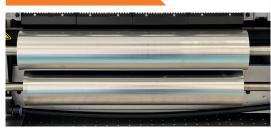
Xaar Nitrox printheads



Powered by Xaar Nitrox printheads combining the best of Xaar's technologies to deliver outstanding uniformity, productivity and performance. Printing up to 48kHz* and delivering speeds of up to 100m/min at 720dpi print resolution, the Nitrox offers speed whilst maintaining perfect uniformity.

*at 2 grey levels





The built-in skate and encoder ensures the highest possible printing accuracy and quality; alongside the substrate handling, this provides precision printing every time. The substrate handling mechanisms, irrespective of the type of press the printbar is mounted on, allows the printbar to accept the substrate and deliver it to the printheads closer than 0.8mm, ensuring maximum drop placement accuracy of the printed dots and a high quality print as standard.



Dynamic synchronisation technology provided within the software/workflow ensures maximum uptime and quick registration with pre-printed substrates. A sync to mark reader built into the product can be moved into any position across the web to read marks, and once running can be in full registration within three to four image repeats.

Sync to mark



LED pinning & mist extraction



Integrated LED pinning offers users maximum flexibility for the final cure where required for the desired application. The power of pinning can also be fully controlled offering even more flexibility. A vacuum is included to extract any ink mist associated with printing, improving print quality by removing unwanted ink particles before they contaminate the substrate.



Ink supply system



Our high flow recirculating ink supply system with exact temperature control and precise nozzle meniscus pressure control (ink flow rate) ensures optimal jetting operation.

Control cabinet



The Versatex Printbar includes a fully integrated and flexible control cabinet that houses all the necessary electronics and controls to drive the printbar and can be easily moved up to five metres away from the printbar.

Maintenance



Versatex Printbars are fitted with a fully integrated maintenance station to ensure maximum uptime and lowest possible "make ready" time. As standard the Printbar has an auto maintenance module that applies suction to each printhead between job printing and with no manual invention from the operator. The recirculating ink system can also be left in standby mode in any printing breaks, to enable agility and flexibility within shifts.

Support

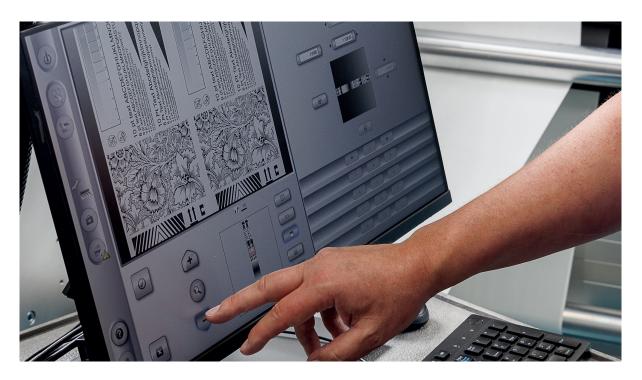


Whilst the Xaar Versatex Printbar has been designed for low maintenance and easy servicing, full technical support and service offers you peace of mind for when you do need assistance. Take advantage of our hands-on, practical training which can be on-site or at Xaar, technical manuals and documentation provided in a variety of output formats and languages, an online knowledge base, spare parts support, emergency breakdown servicing and remote technical assistance, including remote connection to equipment.

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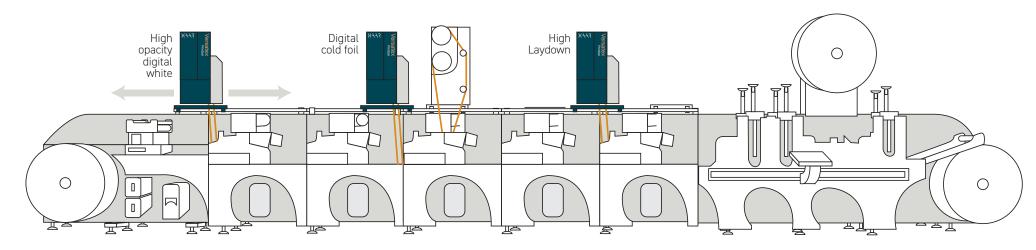
Workflow

To make sure the printing process runs as seamlessly as possible, the Xaar Versatex Printbar comes with a 'TIFF catching' workflow as standard. The operator can simply drop a printable job into the software and make amendments on the fly. It can also be fully integrated with industry standard workflows such as Esko to send the output directly to print for maximum efficiency.



Ready-to-integrate solution to get to market quickly

Take advantage of proven ready to market inkjet technology without the development overheads. Integrate seamlessly onto new configurations or retrofit onto existing installs at any point on the press.



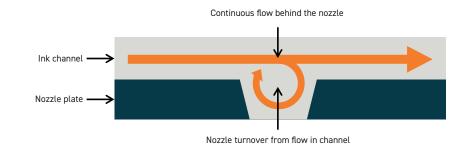
TF Technology fluid recirculation delivers unrivalled reliability

TF Technology fluid recirculation with a very high flow rate keeps the fluid in constant motion at all times, ensuring the pigment does not settle.

The fluid directly passes the back of the nozzle and in the nozzle itself, to keep the printhead continuously primed and preventing any sedimentation or blocked nozzles.

Any air bubbles and unwanted particles in the fluid are carried away, radically improving reliability, even in the harshest industrial environment.

Heat is removed by the recirculating fluid, reducing temperature variation across the printhead virtually eliminating print density variations.







Scan to learn more about TF Technology

Minimise maintenance and downtime with Sure Flow self-cleaning mode

With Xaar's TF Technology ink recirculation, a regularly maintained printhead is extremely unlikely to block. However, external factors and challenging applications can create exceptionally harsh operational environments for inkjet printing.

Sure Flow enables users to clear and prevent nozzle blockages without the need to remove the printhead, maximising operational print time for optimum productivity.

Enabled by software, users simply activate the mode from the GUI. This drives each channel to work at maximum power and frequency to create ultrasonic waves that produce controlled vibrations of the channel walls without pausing production.





Scan to learn more about Sure Flow



Up to 100m/min	
Up to 410mm	
Up to 430mm	
720dpi	
Xaar Nitrox	
Up to 85% (White)	
UV curable CMYK, high opacity fluids, black, varnish, spot colours & low migration	
Optimised for coated/ uncoated paper, supported/unsupported film (PP, PE, PET) and foil	
40μm	
250µm	
Recirculating system	
TIFF catcher DFE workflow and jobs database. Suitable for integration to wide variety of digital workflow systems including Esko Automation engine	

