

# XAAR Versatex Printbar



**Unlocking new capabilities, and boosting profitability**

**Bring digital embellishment, variable data and white underprint to your label production**

# Designed and built for print owners Powered by Xaar

The Xaar Versatex is a high performance digital printbar, designed to expand digital capability across a wide range of analogue label presses and finishing lines.

Designed to meet label producers needs, Versatex is powered by Xaar's industry-leading inkjet technology, delivering exceptional productivity, application flexibility and minimal maintenance. This means Versatex is the ideal digital upgrade for converters and printers of labels and flexible packaging.

## Exceptional reliability and minimal maintenance

Xaar's Patented printhead technologies maximises OEE by maintaining printhead readiness. While the fully integrated maintenance station minimises make ready times while maximising uptime therefore delivering maximum productivity.



**Print speeds**  
Up to 75m/min



**High Laydown capability**  
Up to 50m/min



**Media flexibility**  
Supports flexible substrates up to 250µm thick



**Configurable direction**  
Available for both label presses and finishing lines



**Selectable print modes**  
Select from a range of different preconfigured print modes

# Applications

The Xaar Versatex enhances your analogue press or finishing line with the speed, precision and versatility of digital.

## Spot varnish



## Braille



## Creativity varnish



## Digital cold foiling



## High opacity white



## Variable data



## Achieve precise, high-density impactful finishes

Embellishments provide the added value that bring labels to life, creating a premium look and feel. With the Versatex printbar you can deliver a digital embellishment capability that boosts profit margins and provides a competitive edge when pitching to brand owners.

### The Xaar **Versatex** includes a number of pre-configured print modes

**High productivity** (printing at 75m/min at approx. 11.5µm)

**High quality** (printing at 50m/min at approx. 15.5µm)

**Variable build** using Xaar's unique High Laydown Technology

**Braille** (printing up to 200µm high)

**High creativity** - Allows the printing of **BOTH** High build and standard varnish laydown at the same time, with the same fluid.

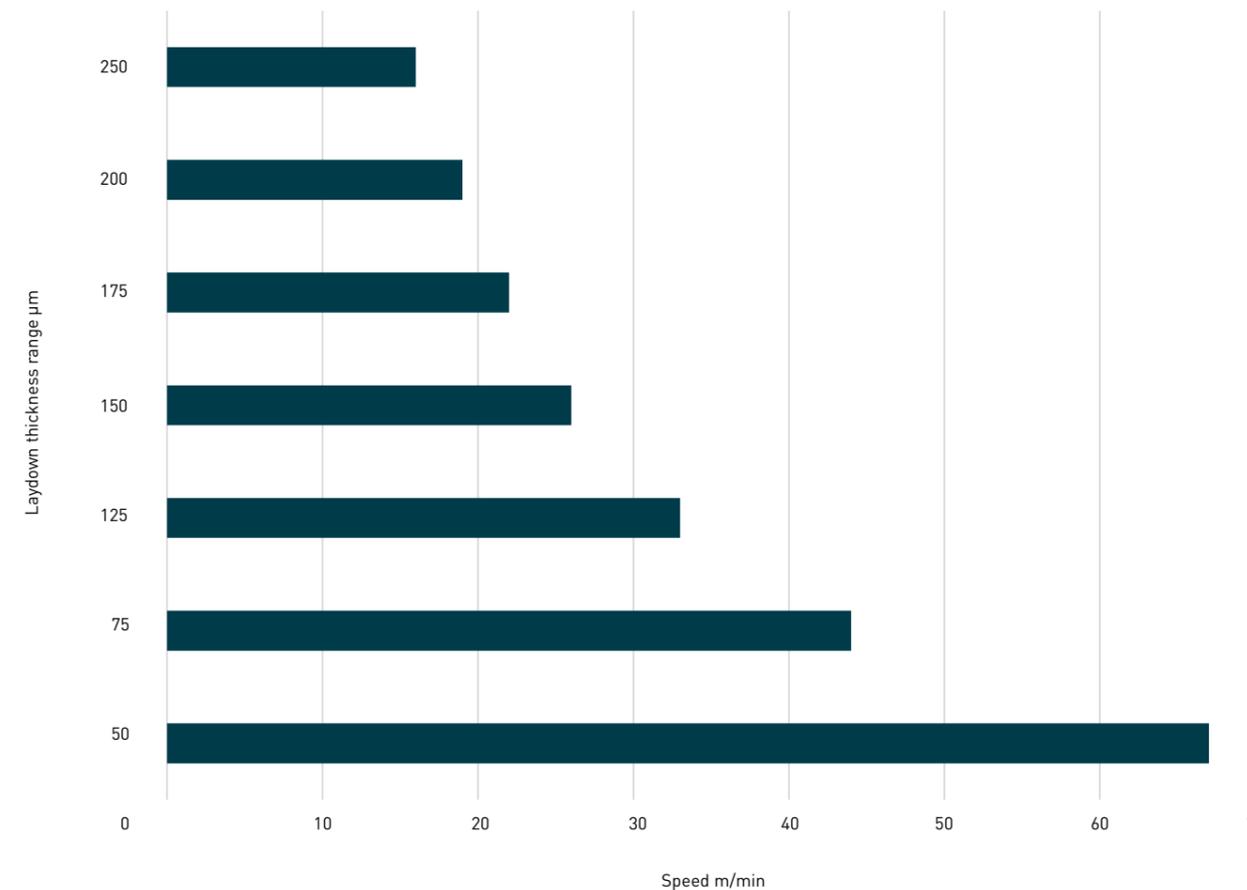


## Screen-like quality with the flexibility and efficiency of digital



Xaar's High Laydown Technology delivers exceptionally high fluid volumes in a single pass, enabling the production of high build varnish and a wide range of tactile effects more efficiently than traditional methods.

With 720 dpi high resolution output, Xaar Nitrox printheads provide outstanding print quality on small text, fine details, and decorative effects. Their rapid job changeover capability doubles availability and uptime, resulting in greater overall operational efficiency.



Scan to learn more about High Laydown Technology

# Precision Braille printing that meets every need

The Versatex printbar solves the challenge of producing Braille that is both highly readable and fast to print, offering two dedicated modes tailored to different production needs.

Both modes consistently deliver clean, repeatable Braille characters, making Versatex ideal for pharmaceutical, packaging, and labelling applications where accessibility and speed are critical.

## Print modes

The Versatex printbar comes pre-programmed with two modes for printing Braille:

### High-Build mode – Optimized for readability

Dot Height: 200µm – rated most readable by blind users in testing.

Speed: 12m/min – ideal for applications where quality matters most.

Precision: Consistent 2.5mm spacing and 1.6mm diameter for crisp, well-formed dots.

### High-Speed mode – Built for throughput

Dot Height: Above ISO 17351's 160µm minimum.

Speed: ~25m/min – perfect for pharmaceutical, packaging, and labelling sectors.

Compliance: Meets Marburg Medium standards while maintaining dot integrity.



Scan to learn more about  
Implementing Braille printing



# Achieve high opacity white underprint and detailed text printing

Xaar's Ultra High Viscosity Technology breaks new ground – enabling the printing of fluids with viscosities of up to 1000cP\*, and allows the use of a significantly higher particulate loading resulting in higher opacity whites.

With more pigment Versatex printbars can deliver an opacity of 85% at 50 metres per minute for the most brilliant whites whether this is for underprinting or printing detail on clear or dark substrates.

\*100cP at jetting temperature

## Print modes

The Versatex printbar comes pre-programmed with two modes for printing whites:

### High opacity mode

Opacity of 85%

Speed up to 50m/min

720\* 720dpi, 1dpd

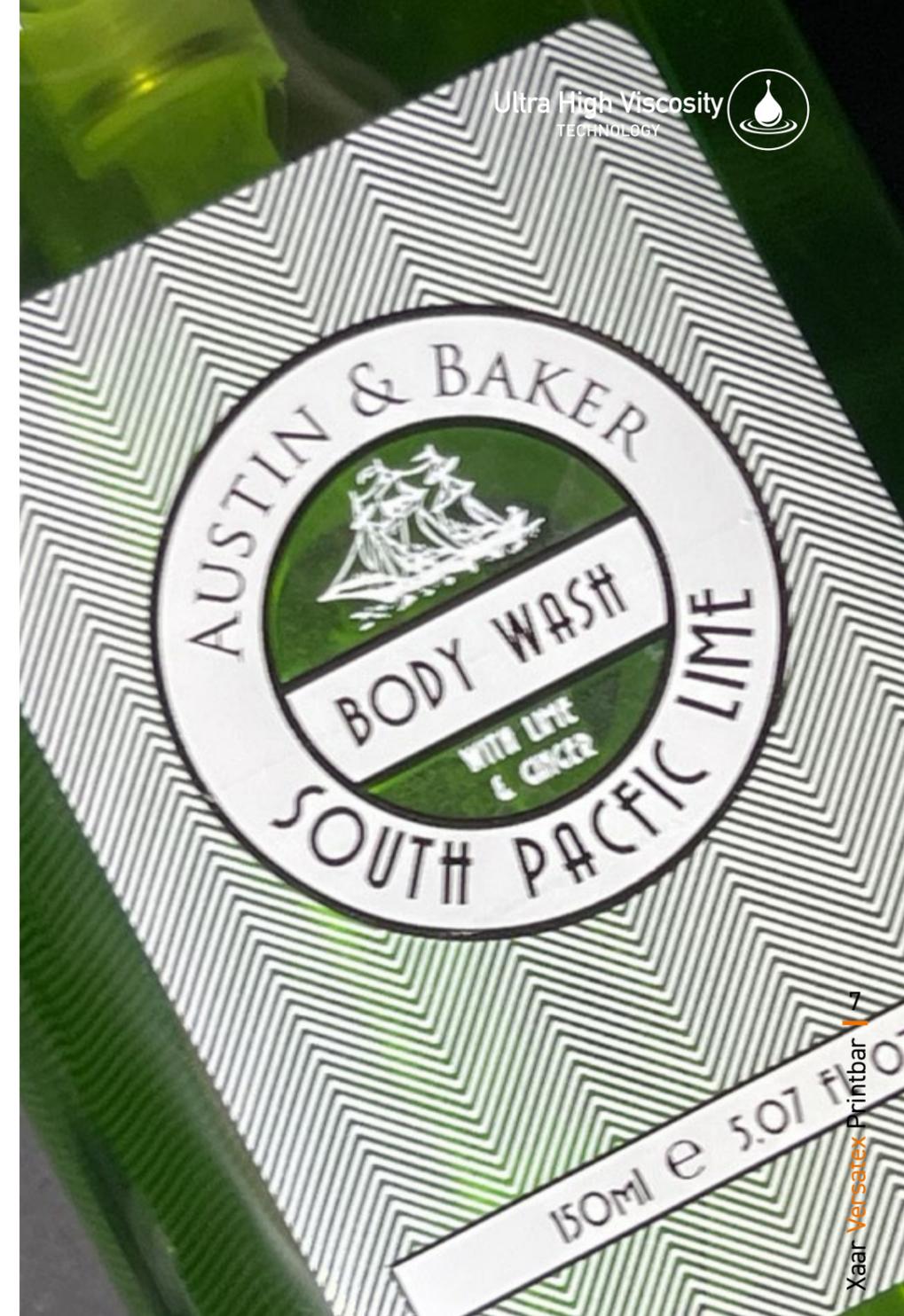
### High productivity mode

Speed up to 75m/min

720\* 720dpi, 1dpd



Scan to learn more about  
Ultra High Viscosity Technology



## Bring your labels to life with Creativity mode

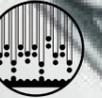
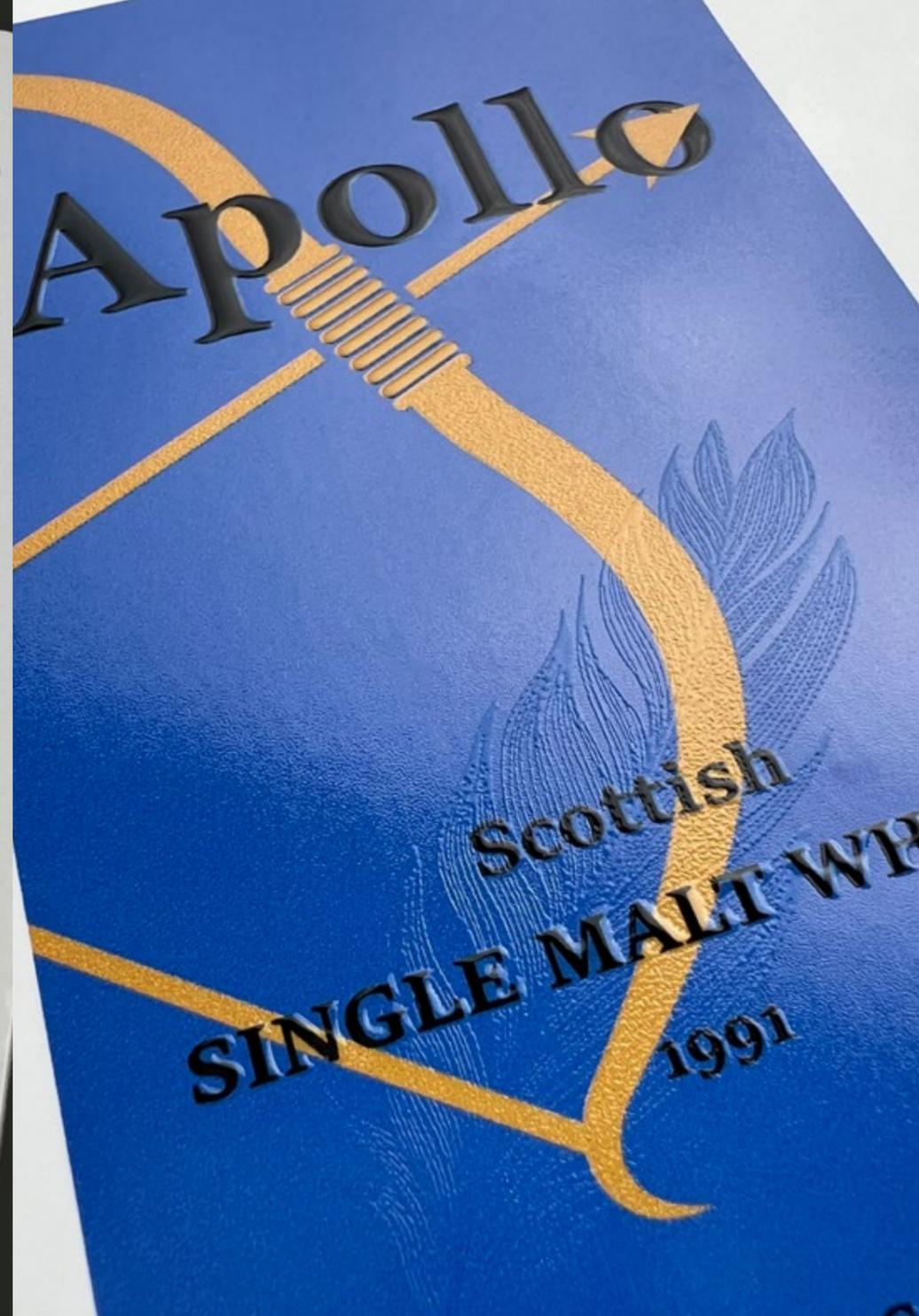
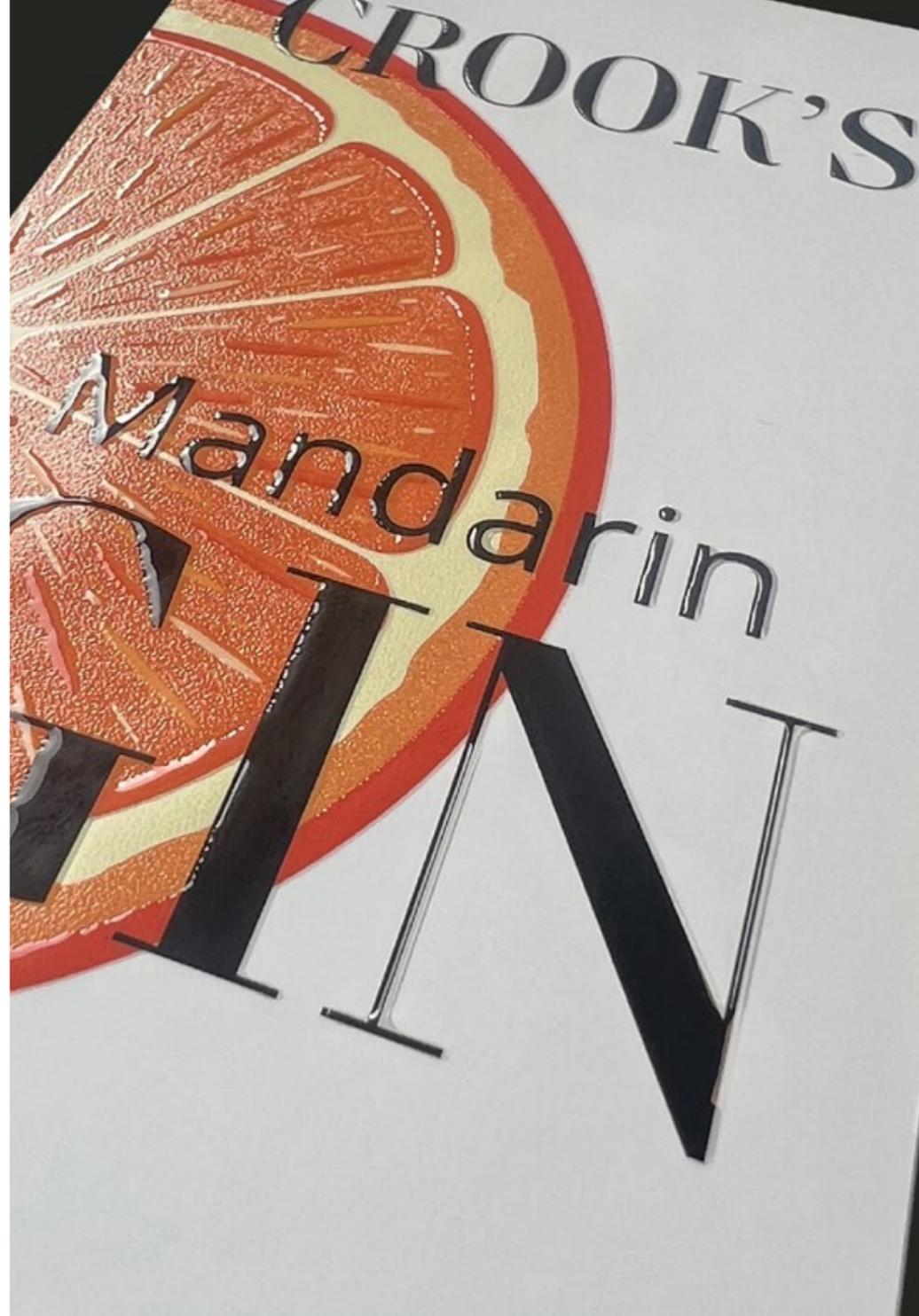
By combining high laydown varnish with precision greyscale printing, Creativity Mode creates striking, tactile textures that elevate every label. From subtle design accents to bold raised effects, this advanced capability lets brands stand out with depth, dimension, and exceptional detail.

Whether enhancing imagery, adding tactile highlights, or pairing with cold foil for premium embellishment, Creativity Mode transforms label design into a powerful visual and sensory experience.

### Premium Effects in a Single Pass

Creativity Mode gives converters more flexibility and efficiency. Allowing the production of dual effect finishes in a single pass, eliminating extra steps and saving valuable production time. The enhanced High Creativity Mode even enables simultaneous gloss and matt finishes within the same design.

Operating at 25 m/min, Creative Mode delivers approximately 15.5  $\mu\text{m}$  and 100  $\mu\text{m}$  laydown concurrently, enabling high impact results without compromising productivity.



## Use digital cold foiling to your advantage

Deliver stunning, high-quality effects that make premium labels for wines, spirits, cosmetics, and perfumes truly stand out. Perfect for products that demand a luxurious, high-end finish because first impressions matter.

- Use high build digital varnish combined with cold foil for tactile effects on your premium labels
- Use mass-customisation as part of your anti-counterfeiting strategy by creating premium quality short run labels with digital cold foil effects



## High definition black variable data printing for advanced traceability

The Xaar Versatex printbar brings high precision black 1D and 2D variable data printing to existing label presses, giving label converters the reliability, clarity and speed needed for today's traceability driven markets.

Built to drop seamlessly into analogue presses and finishing lines, Versatex transforms production by adding real time, on the fly serialisation, authentication codes and other critical data without slowing workflows. However, its true power lies in enabling every label or package to carry unique, scannable, supply chain ready black codes. The result is stronger compliance, enhanced brand protection and greater customer engagement, all driven by consistent, production grade digital accuracy.

Versatex also delivers stand-out variable embellishments including high opacity whites, tactile varnishes and digital cold foiling.



As a GS1 UK Approved Partner, Xaar gives label converters and brands total confidence that every 2D code they print is ready for the 2027 Sunrise shift. This recognition validates Xaar's ability to deliver high quality, GS1 compliant barcodes at production speeds. This is helping press owners stay ahead of regulatory change while offering customers flawless, future proof coding. And with Versatex enabling the GS1 Digital Link, every printed pack becomes a gateway to richer consumer experiences, authentication and real time product data.



# Take a closer look

## Sync to mark

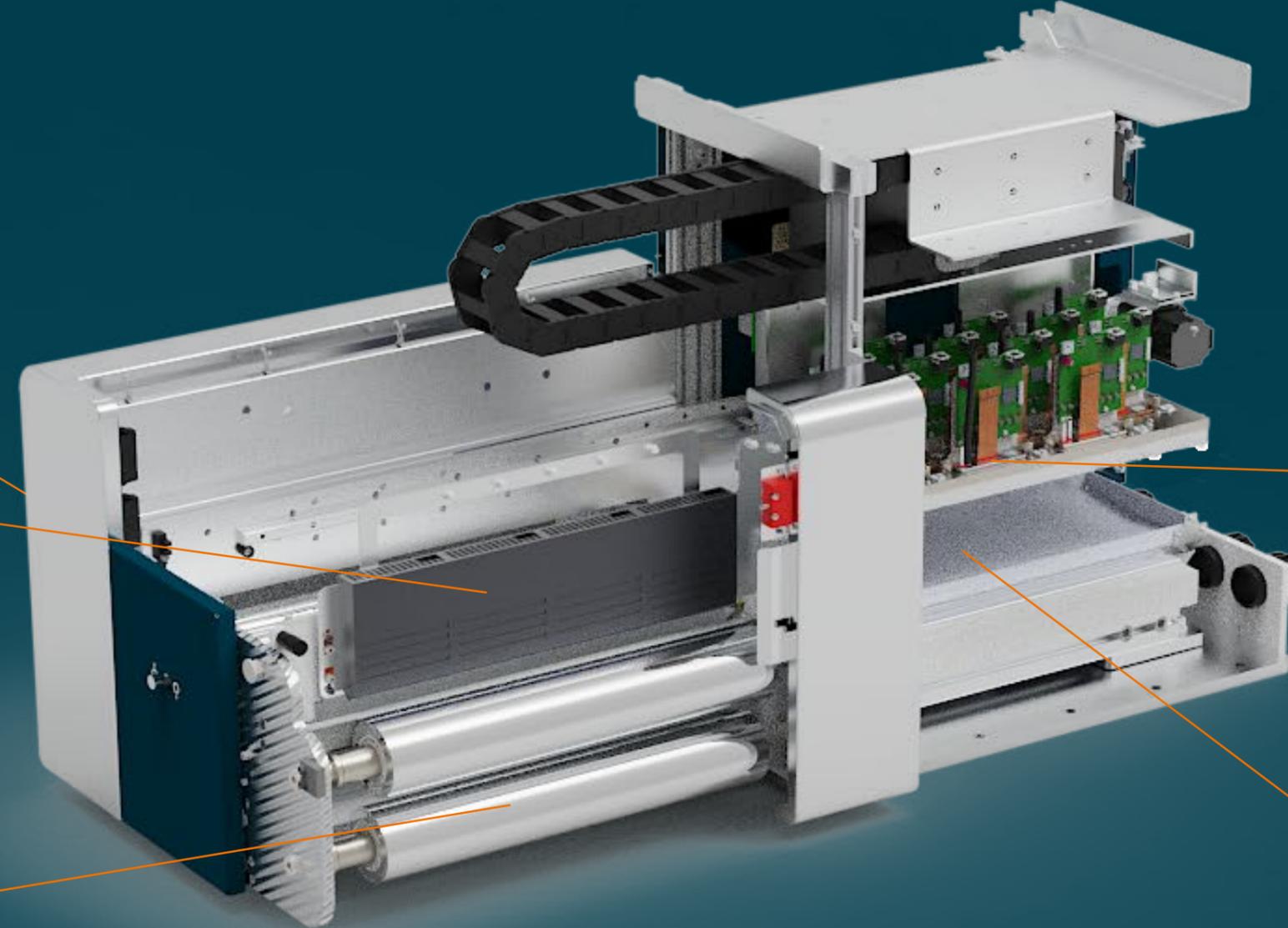
Dynamic synchronisation technology provided within the software/workflow ensures maximum uptime and quick registration with pre-printed substrates. A sync to mark reader built into the product can be moved into any position across the web to read marks, and once running can be in full registration within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

## 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.

## Skate & encoder

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.



## 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.

## 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

## Maintenance station

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 intervention 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.

# Engineered for maximum uptime: TF Technology + Integrated maintenance station

Xaar's TF Technology's high-flow fluid recirculation ensures exceptional reliability with minimal maintenance. The continuous movement of fluid prevents pigment from settling and keeps the printhead consistently primed. By continuously circulating ink directly behind and in the nozzles it eliminates sedimentation, removes heat, and carries away air bubbles or unwanted particles virtually eliminating blocked nozzles and print density variations even in demanding industrial environments.

Combined with the fully integrated maintenance station means that Versatex delivers maximum uptime. The automatic maintenance module applies suction to each printhead between jobs without operator intervention, while the recirculating ink system can remain in standby during breaks. Together, TF Technology and the maintenance station reduce manual maintenance, accelerate make-ready time and ensures the Versatex printbar is always ready to run.



**TF**  
TECHNOLOGY



# Xaar Versatex printbar fluids

## Unlock the full potential of your Xaar printbar

Xaar-approved Versatex fluids are expertly engineered to maximise the performance and versatility of your printbar. Designed for precision, flexibility, and high-quality results, the Versatex fluid range empowers label manufacturers to deliver stand out finishes with ease.

### Versatex varnish

#### One fluid. Endless possibilities.

Versatex varnish enables full utilisation of the printbar's advanced features. With just a single varnish, you can achieve:

- Standard varnishing for a clean, professional finish
- High-build textures for tactile effects
- Braille printing for accessibility and compliance

Additionally, Versatex varnish doubles as a digital cold foiling adhesive, allowing label producers to create premium finishes without switching fluids. This all-in-one solution means:

- Greater flexibility in production
- Reduced downtime and inventory complexity
- More creative options for your customers

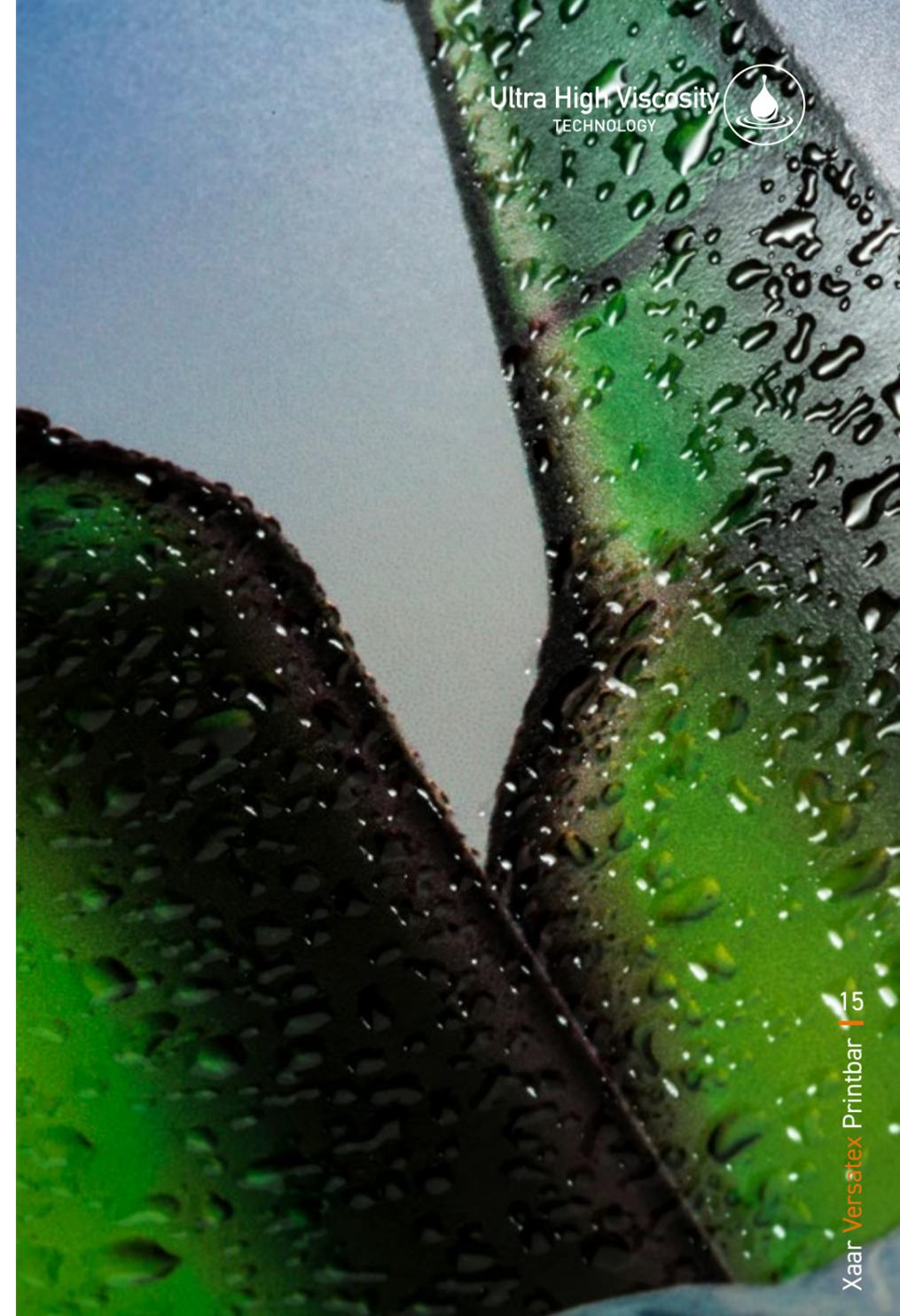
### Versatex white

#### High opacity. High impact.

Xaar's Versatex white delivers up to **85% opacity**, making digital print performance comparable to analogue alternatives. This high-opacity white is ideal for:

- Transparent labels that require strong colour presence
- Dark substrates that demand vibrant, brand-consistent colours

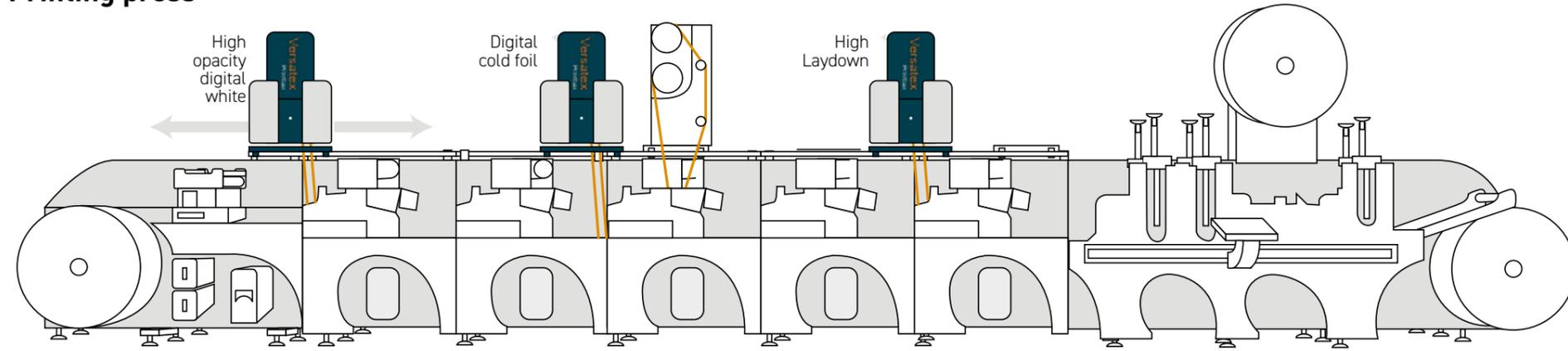
Ultra High Viscosity  
TECHNOLOGY



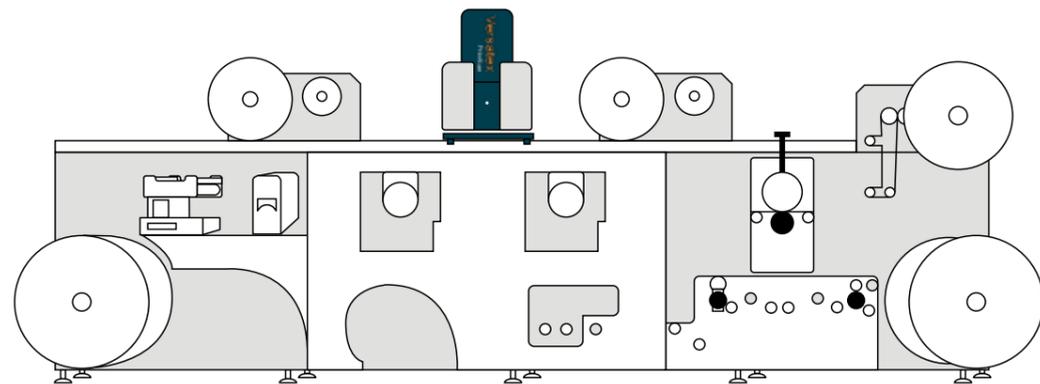
# Ready-to-integrate solution to get to market quickly

Take advantage of market proven inkjet technology quickly and simply. Versatex can be retrofit onto existing installs at any point on the press. Utilising existing auxiliary rail systems means fast installation minimises press downtime.

## Printing press



## Finishing line

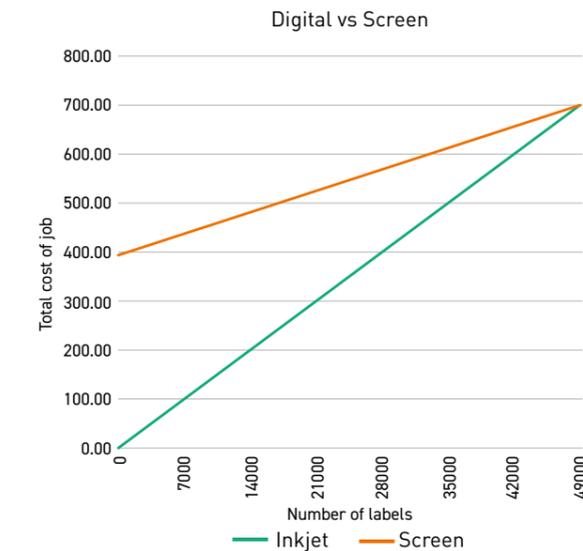
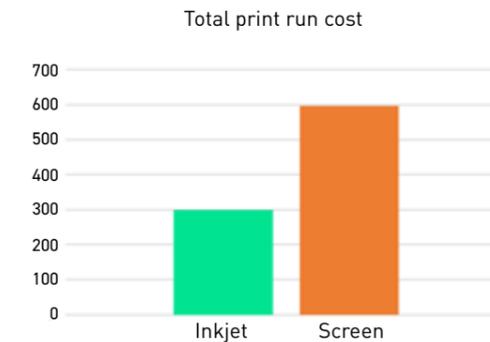


# Improve profitability with digital

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

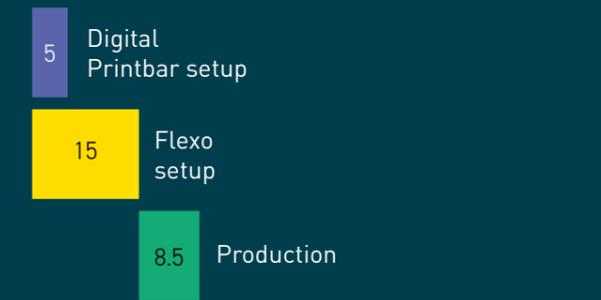
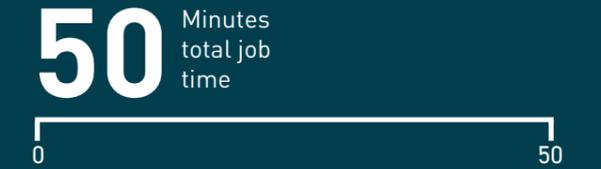


## Increased profit margins on short to medium runs

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

## Total job time

Compare the total job time of printing 25,000 labels using digital inkjet versus rotary screen.





## Key features

Speed	Up to 100m/min
Print width	Up to 410mm
Media width	Up to 430mm
DPI/print quality	720dpi
Available fluids	UV curable varnish, high opacity white, black
Substrates	
Type	Optimised for coated/ uncoated paper, supported/unsupported film (PP, PE, PET) and foil
Minimum thickness	40µm
Maximum thickness	250µm
HMI/DFE	TIFF catcher DFE workflow and jobs database. Suitable for integration to wide variety of digital workflow systems including Esko Automation engine

## Print modes

<b>Varnish print modes</b>	
Braille	25m/min at 200µm
High build	25m/min at 100µm
High creativity	25m/min, 15.5µm to 100µm concurrently
High productivity	75m/min at 11.5µm
High quality	50m/min at 15.5µm
<b>High opacity (white) print modes</b>	
High opacity	Opacity of 85%, speed up to 50m/min 720 x 1080dpi, 1dpd
High productivity	Speed up to 75m/min 720 x 720dpi, 1dpd



Scan to learn more at Xaar.com

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