

# Xaar 1003 U



## The benchmark for industrial printing applications, the Xaar 1003 U, is now even better with the addition of High Laydown Technology

Choosing a digital inkjet printing press optimised with the Xaar 1003 U printhead and High Laydown Technology makes perfect business sense. Thanks to Xaar's proven TF Technology ink recirculation, the Xaar 1003 U delivers a high standard of print quality and reliability in digital printing and is perfect for a wide range of industrial applications.

### Benefits of digital printing

- Cost effective production with no limit on the run length
- Short print runs for limited editions or localised promotions
- No minimum order quantity
- No need to produce unwanted labels or overs due to minimum batch size
- Rapid order turnaround once the design is agreed
- Simple workflow with quick and easy job setup and changeover
- Avoids the complexities, cost and waste associated with flexo printing.

### Applications

The Xaar 1003 U printheads are perfect for printing:



Glass



Laminates



Wall paper



Direct-to-shape



Folding cartons



Labels



Product printing

PACKAGING



**XAAR**<sup>®</sup>

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## Key benefits

### High print quality for industrial applications

Exceed customer expectations and secure repeat business with high quality prints delivered the next day. With a digital press enabled with Xaar 1003 U printheads you can print 360 dpi resolution for a wide range of industrial applications.

- 360 x 360 dpi at up to 50 m/min line speed, with 4 grey levels (6, 12, 18 pL).

### Dimensional varnish effects with Xaar's High Laydown (HL) Technology

Offer exciting new print possibilities using high build tactile effects that significantly enhance shelf appeal and ensure that products stand out when on display.




Xaar's High Laydown (HL) Technology enables very high build of UV varnish – an 80 µm layer thickness at 25 m/min line speed is possible with the Xaar 1003 GS12U.

### Peace of mind with continuous, reliable printing

Multiple technologies unique to Xaar ensure continuous and reliable printing in single-pass operation, maximising production output, minimising production interruptions and reducing the need for operator intervention:

- Xaar's TF Technology ink recirculation – continuous ink flow at a high rate directly past the back of the nozzles; air bubbles and unwanted particles are carried away so the press does not have to be stopped for printhead maintenance
- XaarGuard provides mechanical protection to the nozzle plate
- Xaar's Tuned Actuator Manufacturing ensures that print quality is uniform across all printheads in a print bar, and at different greyscale levels.



Physical attributes	Xaar 1003 GS6U	Xaar 1003 GS12U	Xaar 1003 GS40U
			
Active nozzles	1000	1000	1000
Print swathe width	70.5 mm	70.5 mm	70.5 mm
Nozzle density (nozzles per inch)	360 npi	360 npi	360 npi
Ink type	UV, oil, solvent	UV, oil, solvent	UV, oil, solvent
Drop volume*	6 to 42 pL	12 to 84 pL	40 to 160 pL
Firing frequency / grey levels*	27 kHz / binary 12 kHz / 4 grey levels 6 kHz / 8 grey levels	27 kHz / binary 12 kHz / 4 grey levels 6 kHz / 8 grey levels	6 kHz / 5 grey levels
Max line speed / grey levels* (360 x 360 dpi)	50 m/min / 4 grey levels 25 m/min / 8 grey levels	50 m/min / 4 grey levels 25 m/min / 8 grey levels	–
High Laydown Technology – film thickness at 25 m/min line speed*	–	80 µm	–
High Laydown Technology – film thickness at 50 m/min line speed*	–	50 µm	–
Dimensions (WxDxH)	125x30x60 mm	125x30x60 mm	125x30x60 mm

\* Dependent on ink used and system integration



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