



XAAR 2001+ U

Xaar 2001+ GS6U
Xaar 2001+ GS12U
Xaar 2001+ GS40U

Optimise production output with exceptional print quality at high line speed with the Xaar 2001+ U printhead and High Laydown Technology

Choosing a digital inkjet printing press optimised with the Xaar 2001+ U printhead and High Laydown Technology makes perfect business sense. Combining high resolution and proven TF Technology ink recirculation, the Xaar 2001+ U sets a new standard for print quality and reliability in digital printing and is the best value printhead on the market today 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 2001+ U printheads are perfect for printing:

Décor

- Glass
- Laminates
- Wall paper

Packaging

- Folding cartons
- Labels

XAAR2001+ U



Key benefits

Exceptional print quality at high line speed

Exceed customer expectations and secure repeat business with highest quality prints delivered the next day. With a digital press enabled with Xaar 2001+ U printheads you can print 720 dpi resolution for sharp edges and clean, crisp text.

Example print modes with the Xaar 2001+ GS6U:

- 720 x 720 dpi at up to 60 m/min line speed (6pL binary)
- 720 x 720 dpi at up to 25 m/min line speed (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 50 m/min line speed is possible with the Xaar 2001+ 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
- XaarSMART – the printhead reports temperature and status information in real time so that the press can adjust operating conditions on the fly and deliver consistent print quality throughout the print run.

Physical attributes	Xaar 2001+ GS6U	Xaar 2001+ GS12U	Xaar 2001+ GS40U
Active nozzles	2000	2000	2000
Print swathe width	70.5 mm	70.5 mm	70.5 mm
Nozzle density (nozzles per inch)	720 npi	720 npi	720 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)	60 m/min / binary 25 m/min / 4 grey levels	60 m/min / binary 25 m/min / 4 grey levels	–
High Laydown Technology – film thickness at 25 m/min line speed*	–	130 µm	–
High Laydown Technology – film thickness at 50 m/min line speed*	–	80 µm	–
Dimensions (WxDxH)	132x50x105 mm	132x50x105 mm	132x50x105 mm

*Dependent on ink used and system integration



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