

Xaar 2001 GS12C



Market-leading image quality and productivity

The new Xaar 2001 GS12C printhead for ceramic tile decoration delivers a powerful combination of market-leading image quality, highest productivity and industrial reliability. Tile manufacturers can print a wider range of tile patterns and designs whilst increasing production uptime.

Ultimate image quality is achieved by jetting one colour at a resolution of up to 720 dpi with 2000 nozzles per printhead; this delivers the high ink laydown needed for bold colours and special effects. Line speeds of up to 50 m/min ensure **highest productivity** and maximum throughput.

The Xaar 2001 GS12C incorporates multiple technologies unique to Xaar which deliver unrivalled **industrial reliability**; Xaar's TF Technology® ink recirculation and XaarGuard™ ensure the longest maintenance-free production runs in the industry – typically once per shift or less.

An important new technology – XaarSMART™ – provides feedback on ink temperature and printhead status giving more control over printer performance which can be adjusted in real time. With this new feature tile manufacturers benefit from consistent print quality throughout the production run even as factory conditions change.

The Xaar 2001 GS12C is a highly productive printhead and comes from Xaar, the leader in inkjet innovation for over 25 years. With state-of-the-art manufacturing facilities in Europe, Xaar exports its products to manufacturers all around the world.



Xaar 2001 GS12C

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Ultimate image quality

.....
Highest productivity

.....
Industrial reliability



XAAR®

Xaar 2001 GS12C



Ultimate image quality

The Xaar 2001 GS12C printhead delivers market-leading image quality and high ink laydown to create ceramic tile designs that differentiate from the competition.

- Market-leading image quality, with up to 720 dpi, means that tile manufacturers can produce a wide range of designs for floor and wall tiles
- High ink laydown (up to 41 g/m² at 25 m/min line speed) delivers tile designs with intense effects
- Wide drop size range (12-84 pL) combined with up to 8 greyscale levels provides smooth tones and life-like images.

Highest productivity

The Xaar 2001 GS12C delivers maximum throughput whilst printing an extensive range of ceramic tile designs and patterns.

- 2000 Optimised Geometry nozzles deliver high productivity with a broad range of oil-based ceramic inks
- High line speed of 50 m/min (ink laydown up to 20.5 g/m²) enables high production output and a fast return on investment.

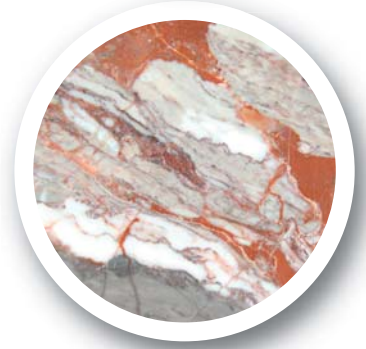
Industrial reliability

The Xaar 2001 GS12C printhead is designed to deliver maximum production uptime with minimum operator intervention which ensures high production output and a fast return on investment.

- Xaar TF Technology[®] ink recirculation ensures continuous ink flow at a high rate directly past the back of the nozzles; air bubbles and unwanted particles are carried away – maintenance is reduced to typically once per shift or less
- The XaarGuard[™] nozzle plate protector provides highly effective protection from mechanical impacts so that production interruptions are minimised
- Actuator performance in each printhead is optimised with Xaar's Tuned Actuator Manufacturing. This process ensures full scalability with a simple and quick set up, streamlining printhead replacement, and achieves consistent print quality across long print bars with multiple printheads, at different greyscale levels
- New XaarSMART[™] technology reports ink temperature and printhead status in real time so that printer performance can be easily adjusted to deliver consistent print quality throughout the production run.

Physical attributes	Xaar 2001 GS12C
Active nozzles	2000
Print swathe width	70.5 mm
Number of rows	4
Nozzle density (nozzles per inch)	720 npi
Ink type	Oil-based ceramic
Drop volume*	12 to 84 pL
Number of grey levels*	Up to 8
Ink laydown at 25m/min*	41 g/m ²
Ink laydown at 50m/min*	20.5 g/m ²
Dimensions (WxDxH)	132x50x105 mm

* Dependent on ink used and system integration



Approved inks

Xaar actively partners with a wide range of ink manufacturers to develop high-quality ink solutions for its printheads. The Xaar 2001 GS12C is designed to be compatible with a wide range of oil-based ceramic inks.