

Xaar 2001+ printhead

The most versatile printhead for ceramic tile decoration today

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With three variants, 720 dpi resolution and unique High Laydown Technology, the Xaar 2001+ is the only printhead family that can meet all your requirements for ceramic tile decoration and effects.



Fine details

Replicate the smallest features, such as rock veins and grains of sand, and reproduce the subtle gradients found in onyx and marble.

720 dpi resolution



Strong colours

Produce vibrant designs with strong colours, for maximum impact.

Up to 40 g/m² laydown at 25 m/minute line speed with Xaar 2001+ GS12C



Outstanding effects

Make your tiles stand out, using effects such as gloss, adhesive, lustre and metallic.

Up to 170 g/m² at 25 m/minute line speed with Xaar 2001+ GS12C and High Laydown Technology

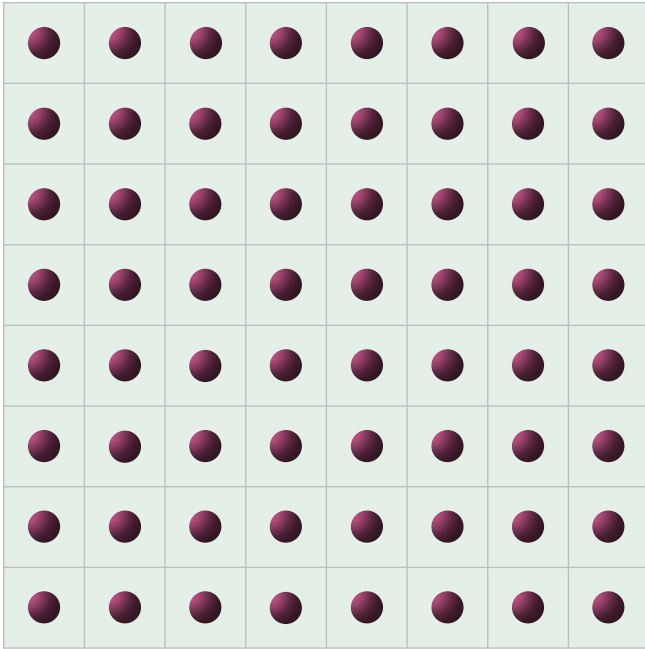
“The Xaar 2001+ delivers an excellent print quality. The colour gradient it achieves at low ink percentage is a particularly strong point. This is exciting as it allows tile manufacturers to produce subtle gradients in stone designs accurately.”

Hardik Vaidya, Krishna Colour Chem (Esmalglass Itaca partner, India)

Unrivalled print quality

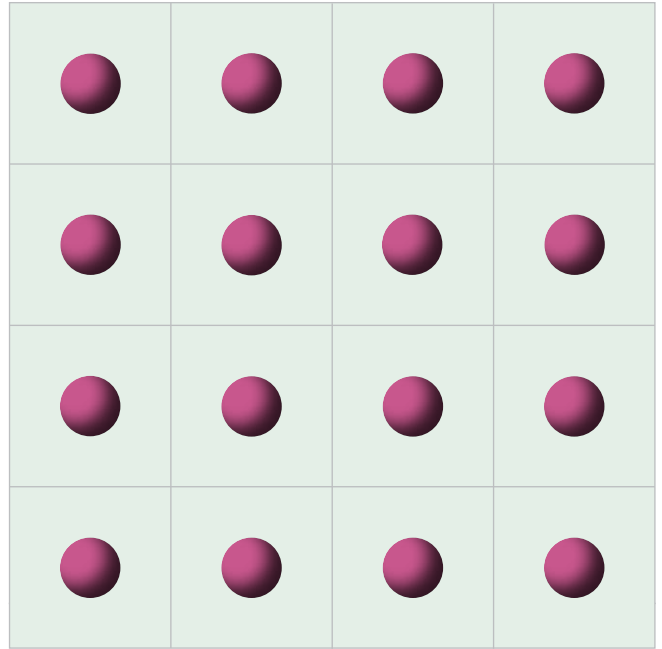
With 720 dpi resolution, the Xaar 2001+ sets a new print quality standard in digital ceramic decoration, so you can create tiles that stand out against the competition.

Xaar 2001+ GS12C



720 x 720 dpi, 12 pL drops
13 g/m², 25 m/min line speed

360 dpi printhead



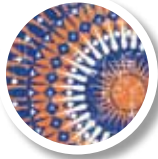


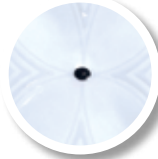








360 x 360 dpi, 48 pL drops
13 g/m², 25 m/min line speed

“Thanks to the productivity and versatility of the Xaar 2001+, we’ve been able to configure a machine that meets our exact requirements. The printheads are performing very reliably, both in single and dual colour mode, and print quality is excellent.”

Jorge Albalet, Production Manager, Cerlat, Onda, Spain

Get ahead by creating tiles that stand out from the competition.
Find out more at www.xaar.com/2001plus or **contact your OEM.**

Choose your printhead

	Colours		Effects		
	High quality wall & floor tiles 	High quality wall tiles 	Light eg. matte 	Intense eg. gloss 	Ultra intense eg. adhesive 
Laydown required*	Up to 30 g/m ²	Up to 20 g/m ²	30-40 g/m ²	40-80 g/m ²	80-120 g/m ²
Drop size required	< 20 pL	< 10 pL	n/a	n/a	n/a
Recommended printhead	 Xaar 2001+ GS12C	 Xaar 2001+ GS6C	 Xaar 2001+ GS40C  Xaar 2001+ GS12C with High Laydown Technology Dual Colour	 Xaar 2001+ GS40C  Xaar 2001+ GS12C with High Laydown Technology Dual Colour	 Xaar 2001+ GS12C with High Laydown Technology Single Colour

* Recommendations at 25 m/min line speed. Actual performance may vary depending on ink used and system integration.

Reliable printing

The Xaar 2001+ printhead family delivers reliable results with maximum production uptime, using unique technology to reduce interruptions for maintenance:



TF Technology continually recirculates ink past the back of each nozzle at a high rate during drop ejection, so air bubbles and unwanted particles are carried away.

XaarGuard

XaarGuard minimises ink build-up on the nozzle plate, reducing maintenance to once per shift or less.

Tuned Actuator Manufacturing

Tuned Actuator Manufacturing enables uniform print quality across all printheads in a print bar, making replacing printheads and balancing print bars easier and quicker.

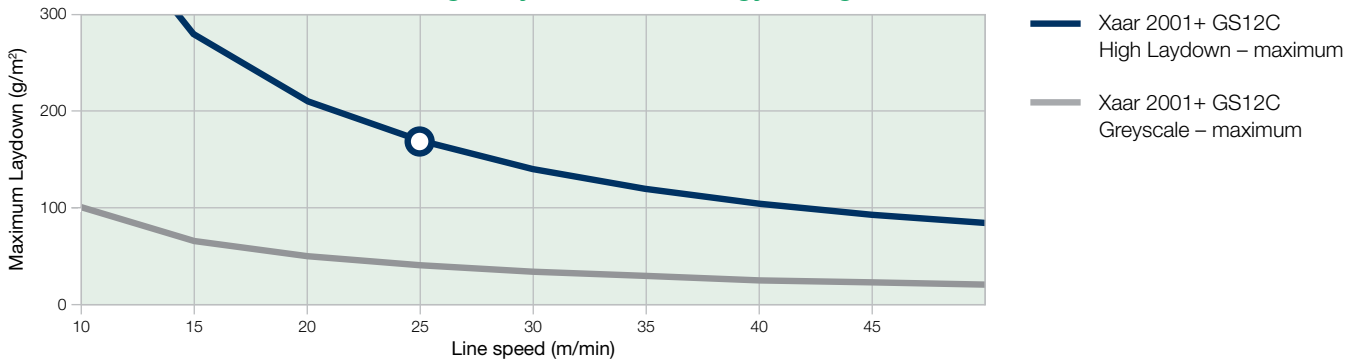
XaarSmart

XaarSmart reports ink temperature and printhead status in real time, so that printer performance can be automatically adjusted to deliver consistent print quality throughout the production run.

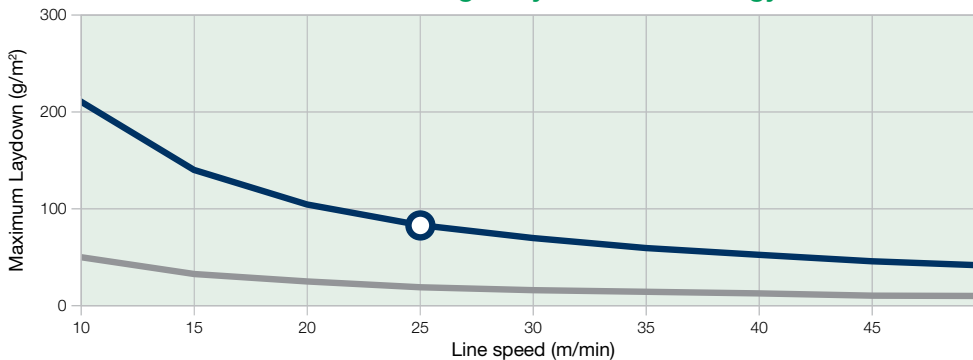
High laydown for effects

With unique High Laydown Technology, the Xaar 2001+ delivers unprecedented ink discharge rates, so you can create outstanding decoration effects, ideal for use with gloss, adhesive, lustre and metallic, for example.

Xaar 2001+ GS12C with High Laydown Technology – single colour

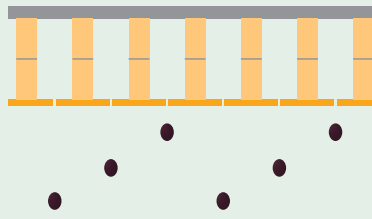


Xaar 2001+ GS12C with High Laydown Technology – dual colour



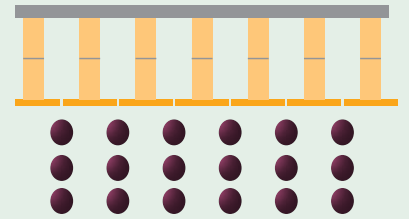
At 25 m/min line speed, the Xaar 2001+ GS12C in High Laydown mode can deliver up to 170 g/m². Alternatively, the printhead can be used in dual colour mode to deliver two different effects, each one providing up to 85 g/m² at 25 m/min.

Xaar 2001+ GS12C greyscale printing



- Ideal for colours
- Typical performance:**
- 6 kHz and greyscale 12 - 84 pL or
 - 12 kHz and greyscale 12 - 42 pL
 - Laydown up to 40 g/m² at 25 m/min

Xaar 2001+ GS12C with High Laydown Technology



- Ideal for effects
- Typical performance:**
- 32 kHz and binary 80 pL
 - Laydown up to 170 g/m² at 25 m/min

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Case study:

Scientifica Tiles LLP



Scientifica Tiles LLP is a new tile manufacturer in Morbi, India, specialising in glazed vitrified floor tiles (GVT).

A key goal for the business is to manufacture the highest quality marble and granite designs, which stand out against the competition in both domestic and international markets. In order to achieve this, the company selected a KERAjet Master printer with Xaar 2001+ GS12C printheads and Xaar High Laydown Technology.

“The print quality we are getting is extremely high and we have been very impressed. A vast difference can be seen between the colour gradation of the marble and granite tiles we have produced with the Xaar 2001+ and that of tiles we have seen elsewhere.”

Hiren Vadaviya, Director, Scientifica Tiles LLP

Technical data

Technical data	Greyscale mode			High Laydown mode
	Xaar 2001+ GS6C	Xaar 2001+ GS12C	Xaar 2001+ GS40C	Xaar 2001+ GS12C
Active nozzles	2000	2000	2000	2000
Print swathe	70.5 mm	70.5 mm	70.5 mm	70.5 mm
Number of rows	4	4	4	4
Number of fluid paths	1 or 2	1 or 2	1 or 2	1 or 2
Nozzle density (single colour)	720 npi	720 npi	720 npi	720 npi
Ink type	oil-based	oil-based	oil-based	oil-based
Drop volume*	6 to 42 pL	12 to 84 pL	40 to 160 pL	80 pL
Max number of grey levels*	7	7	5	2
Max ink laydown at 25 m/min*	20 g/m ²	40 g/m ²	80 g/m ²	170 g/m ²
Dimensions (WxDxH)	132 x 50 x 105 mm	132 x 50 x 105 mm	132 x 50 x 105 mm	132 x 50 x 105 mm

* Dependent on ink used and system integration.



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