



XAAR 1003 Ceramics

Xaar 1003 GS6C

Xaar 1003 GS12C

Xaar 1003 GS40C

The benchmark in single-pass print quality

The Xaar 1003 is the benchmark against which all other single-pass printheads are compared. With its all-round superior performance, this printhead builds on the market-leading Xaar 1002 and its predecessor, the original and ground-breaking Xaar 1001.

Upgrade to the Xaar 1003 and enjoy the benefits of new printheads without the cost and complexity of installing a completely new printer

- Achieve enhanced print quality, thanks to Xaar's Tuned Actuator Manufacturing
- See reduced maintenance, thanks to XaarGuard
- Fully backward compatible with Xaar 1001* and Xaar 1002 – upgrade is quick and easy.

Multiple technologies unique to Xaar

XaarGuard

- Provides mechanical protection to the nozzle plate
- Centre strip minimises ink build-up on nozzle plate, and dramatically reduces frequency of maintenance – once per shift or less.

Tuned Actuator Manufacturing

- Actuator performance in each printhead is optimised
- Enables uniform print quality across all printheads in a print bar, and at different greyscale levels.

TF Technology

- Ink is continually recirculated past each nozzle
- Prevents sedimentation and air bubbles from blocking nozzles.

100% Backward Compatible

- The Xaar 1003 is fully backward compatible with the Xaar 1001* and Xaar 1002
- Same mechanical mounting, same wave forms, same voltage settings.

*Use interface module if replacing a Xaar 1001 printhead.

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Success stories

Many customers have already upgraded to the Xaar 1003:

“With this new printhead I have dramatically decreased machine downtime as printhead maintenance is required only once or twice in every 24 hours. This means I can increase production significantly.”

Andrea Porta, Oscar Ceramics, Italy

“Now with the Xaar 1003 we can achieve uniform print quality without any fine tuning required. This has led to an increase in production output of around 15-20%.”

Emanuele Farrarini, Century, Italy

“The big evolution we see with the Xaar 1003 is the significant reduction in maintenance – this results in more production uptime.”

Laurent Jacquemin, Parefeuille Provence, France

Frequently asked questions

Q. Why Upgrade?

By upgrading to the Xaar 1003, you can immediately benefit from increased productivity through enhanced image quality and reduced maintenance. Plus you achieve return on investment in less than 3 months.

Example

Printheads	6 bars, 60 printheads total
Production volume per minute	10 sqm
Production schedule	24 x 7
Maintenance frequency with Xaar 1003	2 minutes, every 4 hours
Tile production gained per month	10,000 sqm
Return on Investment (ROI)	< 3 months

Q. Do I need to upgrade the whole printer?

No, you can choose to upgrade just 1 or 2 bars in a printer. The more print bars you upgrade the more print quality and productivity improvements you will see.

Q. How do I upgrade?

The upgrade should be performed by a technician from your printer manufacturer, or a Xaar-authorized distributor. If you're unsure who to contact, then please contact Xaar at info@xaar.com.

Help me choose

	Xaar 1003 GS6C	Xaar 1003 GS12C	Xaar 1003 GS40C
	Very small drops produce fine details, making the GS6C ideal for wall tiles	Combination of small and large drops makes the for GS12C ideal for floor tiles	Very large drops enable high laydown, making the GS40C ideal for special effects
Active nozzles	1000	1000	1000
Print swathe width	70.5 mm	70.5 mm	70.5 mm
Nozzle per inch	360 dpi	360 dpi	360 dpi
Ink type	Oil-based	Oil-based	Oil-based
Drop volume	6 to 42 pL	12 to 84 pL	40 to 160 pL
Number of grey levels	7	7	5
Typical firing frequency	6 to 12 kHz	6 to 12 kHz	6 kHz



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