

# Xaar 1003 Ceramics



## 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

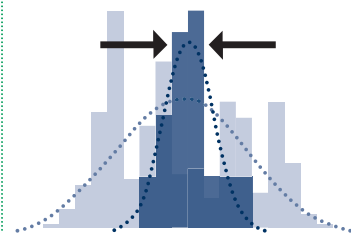
### XaarGuard™

- 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.



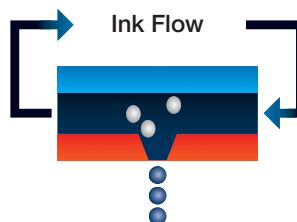
### Tuned Actuator Manufacturing

- 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.

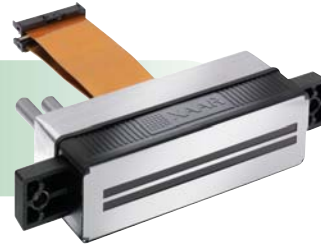


### 100% Backward Compatible

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



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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
<b>Return on Investment (ROI)</b>	<b>&lt; 3 months</b>

### 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](mailto:info@xaar.com).

## Help me choose

### Xaar 1003 GS6C



Very small drops produce fine details, making the GS6C ideal for wall tiles

Active nozzles	1000
Print swathe width	70.5 mm
Nozzle per inch	360 dpi
Ink type	Oil-based
Drop volume	6 to 42 pL
Number of grey levels	7
Typical firing frequency	6 to 12 kHz

### Xaar 1003 GS12C



Combination of small and large drops makes the GS12C ideal for floor tiles

Active nozzles	1000
Print swathe width	70.5 mm
Nozzle per inch	360 dpi
Ink type	Oil-based
Drop volume	12 to 84 pL
Number of grey levels	7
Typical firing frequency	6 to 12 kHz

### Xaar 1003 GS40C



Very large drops enable high laydown, making the GS40C ideal for special effects

Active nozzles	1000
Print swathe width	70.5 mm
Nozzle per inch	360 dpi
Ink type	Oil-based
Drop volume	40 to 160 pL
Number of grey levels	5
Typical firing frequency	6 kHz



**XAAR**<sup>®</sup>

Head Office / Europe + 44 1223 423 663 [info@xaar.com](mailto:info@xaar.com)

Hong Kong + 852 3690 8555 [info@xaar.com](mailto:info@xaar.com)

India + 91 124 668 8055 [india@xaar.com](mailto:india@xaar.com)

USA + 1 972 606 2520 [americas@xaar.com](mailto:americas@xaar.com)

[www.xaar.com](http://www.xaar.com)