**RELEASE REF:** Xaar 2024.021 Corrugate Printing

**XAAR TECHNOLOGY TAKES INKJET CORRUGATED PRINTING TO THE NEXT LEVEL**

**Cambridge, 6th March 2025** – Leading inkjet technology group, [Xaar](https://www.xaar.com/) is revolutionising corrugated packaging printing, delivering flexo quality and a reduced cost per print alongside digital customisation and personalisation benefits in a single pass.

Thanks to Xaar’s Ultra High Viscosity Technology, its Aquinox printhead can jet fluids of up to 1000 centipoises (cP) at ambient temperature (approx. 100 cP at jetting temperature), which has enabled chemists to develop inks that overcome many of the barriers inkjet has previously faced in the corrugate sector. These new high viscosity formulations minimise ink absorption into corrugated surfaces to produce unbeatable opacity and colour vibrancy, ensuring both visible appeal and durability for corrugated packaging.

By absorbing less ink into the board, the same print quality is achieved with less ink, enabling faster printing and significantly reducing production costs as well as the total cost of ownership. Printing with the new water-based high viscosity inks developed by Nazdar easily meets the demands of even the fastest corrugated packaging production lines.

In addition, with less substrate penetration, high-viscosity inks can remove the need for primers, simplifying the printing process and improving sustainability by reducing drying energy and fluid usage – resulting in brighter, more vibrant prints on uncoated and unprimed corrugate boards. Xaar’s technology also significantly decreases cost per job alongside delivering flexo-level print quality, meaning digital print is more relevant than ever before.

Independent research conducted by the Welsh Centre for Printing and Coating at Swansea University clearly demonstrated that using Xaar’s Ultra High Viscosity Technology increases colour density by up to 60 per cent, expanding the colour gamut and boosting productivity. In addition, by reducing water in the inks, less energy is consumed in the drying process, lowering operational costs and aligning with corrugated packaging manufacturers’ sustainability goals.

Reliability is key in any print application, and the Xaar Aquinox’s higher throw distance prevents any substrate-induced damage through collisions with the printhead, and accommodates varying gauges of cardboard. Xaar’s TF Technology eliminates potential nozzle blockages from cardboard dust, and fast printhead recovery minimises ink waste and downtime during production starts and stops. Optimal ink conditions can be maintained throughout long print runs by a Megnajet fluid management system ensuring uniform print quality when using high viscosity inks.

Xaar’s Business Development Manager, Neil Cook said: “Historically, inkjet printing has not been able to provide the quality, reliability or speed that corrugated packaging print required. Now, thanks to our Ultra High Viscosity Technology, we can deliver the high print quality standards demanded while reducing the cost per print.”

Xaar is focused on building inkjet’s growth within the corrugate sector, highlighting its benefits to attract more customers. Neil concluded: “Alongside the intrinsic advantages of customisation available from digital print, with its impactful colours, reduced cost per print and sustainability benefits, Xaar Technology is providing a game-changing shift in corrugated printing. This innovation is redefining what’s possible for users, unlocking new opportunities in print and setting a new standard for the industry.”

Neil Cook, Business Development Manager at Xaar will be participating in [CCE International](https://www.cce-international.com/en-gb.html), taking place from 11-13th March in Munich, Germany. He will be presenting "Is inkjet now able to revolutionise digital printing of corrugates?" on Tuesday, 11th March at 10:30am, discussing how high viscosity inks and Xaar’s printhead technology can drive the next evolution in digital corrugate printing. Tomas Cerny, Principal Engineer at Xaar, will also present "More secrets of inkjet printing" on Wednesday, 12th March at 11:30am, exploring the distinct advantages offered for end users looking to incorporate digital printing into their production processes.

For more information on Xaar’s high quality corrugate printing technology, visit: <https://www.xaar.com/campaigns/corrugate_colour/>

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**About Xaar**

Xaar is an inkjet innovator, providing printheads and technologies for OEM and UDI customers worldwide.

By helping customers lay down precise volumes of inks and fluids with absolute pin-point accuracy, time after time, Xaar’s inkjet printheads and technologies meet the needs of numerous markets. Covering graphics, labelling, direct-to-shape, packaging, textiles, coatings,

product decoration, ceramic tile and glass decoration, décor, and outer case coding applications – as well as printing with specialist functional fluids for 3D and advanced manufacturing techniques.

Collaboration is at the very core of its business. Xaar works as a trusted partner from sites in Europe and China, providing expert insights and technical support every step of the way.

With over 30 years’ experience, around 200 patents registered or pending, and major ongoing R&D investment, Xaar’s digital printhead and precision jetting technologies create infinite opportunities for today’s sustainable manufacturing innovation.

**Contacts:**

**Xaar**: Charlotte Baile T: +44 1223 802151 E: [charlotte.baile@xaar.com](mailto:charlotte.baile@xaar.com)

**Media Global ex China:** Nielsen McAllister, Simon Wildash / Hannah Woods T: +44 1332 293939 E: [xaar@nmpr.co.uk](mailto:xaar@nmpr.co.uk)

**Media China:** Melody Chen T: +86 181 29930254 E: [melody.chen@xaar.com](mailto:melody.chen@xaar.com)