

New opportunities

During the course of 2021 we have seen a broadening of the range of applications using Xaar technology.

- Chinese OEM, King Tau, a pioneer in the ceramics and graphics sectors, launched a new industrial-grade print engine, The 'Magic Cube', incorporating Xaar's advanced printhead technologies.
- Beijing National Innovation Institute of Lightweight Ltd. (BNI) and Xaar announced a Joint Laboratory to develop new applications in digital inkjet such as printing glass, electronics, 3D and automotive spray painting.
- The wide operating window and unique technologies within the Xaar 1003 printhead have enabled Meta Additive to use a variety of fluids that had previously been seen as too difficult to jet. With Xaar technology, Meta Additive was able to move beyond the conventional limits of inkjet printing with its binder jetting innovation.
- The Xaar 2002 printhead is successfully addressing the current ceramics trend for printing big slab applications such as dining tables, kitchenware and sanitary ware, where tile viewing distances are much closer. Customers are looking for higher quality tiles with higher resolution and definition, produced by our 720 dpi capability – no other printhead can deliver resolution this high and with this capability we have now set the image quality standard in ceramics.

- In the 3D printing market, dp polar launched its latest machine, the AMpolar® i1 which jets 3D parts at volume on a truly industrial scale. The combination of scalability, productivity and agility of this new machine achieves an output that traditionally would have required multiple conventional 3D machines, and significantly more capital investment.
- Xaar continues to see a growing number of new opportunities within the 3D printing markets. Our technology offers significant advantages and therefore value for managing high viscosity fluids and delivering industrial levels of reliability across a range of additive manufacturing applications and emerging technologies.

EPS ended its year by landing the largest single order in the Company's history which will be manufactured and delivered during 2022. The Company closed 2021 with a strong order book for bespoke systems and a plan for continued strong growth for 2022.

Xaar's recent acquisitions of FFEI and Megnajet enable us to offer our customers, particularly UDIs, a more integrated inkjet solution, which will attract a broader range of opportunities for us from here on in.

 [Read more on page 12](#)

Business responsibility

We operate as a socially, culturally and environmentally responsible business.

Our three main areas of focus during 2021 have been: sustainability, employee engagement and charity support.

Sustainability

During 2021 we set up a Sustainability team with members from across the Company to work on a roadmap of projects with defined objectives. The Roadmap centres on four areas, each of which has a goal:

1. Environment

Leading the way in environmental sustainability for the industrial inkjet technology sector.

2. People


To be employer of choice by putting our people, their potential and well-being at the heart of all we do.

3. Innovation

Encouraging more sustainable approaches to design, manufacture, technology and collaboration across the whole product lifecycle.

4. Community

Actively engaging with our communities to provide practical, lasting support that benefits society.

 [The full sustainability strategy and roadmap can be found on pages 29 to 37](#)

Employee engagement

We hosted a number of COVID-19 safe lunches for our employees to encourage collaboration and team building, as well as to help new employees meet the wider team. In July we held an employee event to officially open our new Corporate HQ and bespoke R&D lab at the Cambridge Research Park.

We have also been working on embedding our values more into our culture. A cross functional project team developed an easy to remember logo for our values, launched a new values award which runs across the whole Group and developed a new video which we are using for employee engagement, recruitment and induction.

 <https://youtu.be/4rXmXMLEpgg>

 [Read more about our values on page 5](#)

In addition, we have introduced packs for key employee occasions: new starter packs, new baby packs and an anniversary card to mark certain milestones (first year, five, ten, 20, 30 years).

Supporting local charities

Our employees nominated two charities and each received a donation of £2,000, with the beneficiaries being the Special Care Baby Unit at Hinchingsbrooke Hospital in Q1 2021 and Wood Green, The Animals Charity in Q4 2020.

Later in the year we fund-raised for Break Charity (www.break-charity.org/charity/). As well as sponsoring their Cows about Cambridge Farewell weekend, Xaar employees hosted a stand at the event and raised £150 by selling for a £1 donation colourful miniature cows that we had 3D printed.