

Xaar and Meteor Inkjet Partner With Dyndrite on Integrated Industrial Inkjet Solutions for Binderjet Additive Manufacturing

- **Delivers integrated, optimized 3D CAD-to-inkjet printhead development environment empowering OEMs to quickly invent new, more innovative raster inkjet machines**
- **Simplifies the machine development process by providing easy-to-implement system elements that are optimized for additive manufacturing processes, enabling OEMs to focus on materials and applications development and end-product differentiation**
- **Advances raster 3D inkjet printing to new levels of accuracy, reliability and repeatability through GPU-based, python-driven Digital Manufacturing Front Ends (DMFE), state-of-the-art printheads and scalable, production-ready drive electronics designed for manufacturing environments**

Seattle, WA., Sunday, Sept 12 2021. — [Dyndrite™](#), providers of the core accelerated computation engine used to create next generation digital manufacturing hardware and software, today announced partnerships with [Xaar](#), a leading inkjet printing technology group, and [Meteor Inkjet](#), a leading supplier of electronics, software, tools and services for industrial inkjet. The three companies are working to deliver a new evolution in industrial inkjet capability for innovative binderjet additive manufacturing applications.

Developed by MIT in 1995, binder jetting has been on a long path to commercial maturity. In recent years, new market entries are proving the technology's adaptability to industrial applications. According to [Knowledge Sourcing Intelligence](#), the binder jetting market is projected to grow from US\$300 million in 2018 to US\$1.3 billion in 2024.

Xaar, leading inkjet technology provider, is partnering with Dyndrite and Meteor to accelerate raster 3D printing product development. Xaar's unrivalled TF Technology and Ultra High Viscosity technology, incorporated into Xaar's printheads, provide unique advantages to the process of binder jetting with inkjet.

"Xaar's TF Technology alongside our Ultra High Viscosity technology broadens the range of fluids with functional properties that can be binder jetted extremely reliably. This also includes high viscosity fluids, which Xaar printheads are designed to handle with ease," said Graham Tweedale, General Manager of Xaar's Printhead business unit, "Raster inkjet 3D printing is one of the most innovative forms of additive technology today. This partnership with Meteor and Dyndrite helps accelerate the pace of that innovation by OEMs and enable their customers to qualify more materials and more parts, significantly faster."

Meteor helps customers harness the power of inkjet for binder jetting applications by providing scalable printhead drive electronics, the world's fastest Raster Image Processor (RIP) and a flexible software Digital Front End (DFE) tailored to the specific requirements of additive manufacturing. With electronics designed to take advantage of all that Xaar printheads have to offer and software carefully integrated with the Dyndrite accelerated computation engine, Meteor is playing a fundamental role in the push to democratize inkjet technology for the industry.

“Developing and implementing an industrial inkjet system can be tricky,” said Clive Ayling, Meteor’s managing director. “Rather than being distracted by the intricacies of inkjet technology, print system builders can quickly leverage the integration work done by Meteor, Xaar and Dyndrite to radically simplify the path from development through to production, significantly reducing time-to-market and risk.”

Dyndrite delivers an Accelerated Computation Engine (ACE) which provides GPU-powered 3D CAD-to-Print software for generating toolpaths and rasterizing 3D data for additive manufacturing processes. Additionally, through an integrated Python API, Dyndrite brings full automation of data workflows at a speed that fulfills even the most challenging production workflows or data requirements.

The new toolpathing APIs from Dyndrite also enable advanced parameter control at the voxel level using grayscale and RGB color-based metadata, anisotropic compensation routines, image manipulation and the streamlined handling of large images as slices. Dyndrite is focused on enabling better repeatability, greater accuracy, faster material qualification and machine calibration.

“Building on the advantages of leading printheads and DFEs from Xaar and Meteor, Dyndrite and its partners are set to advance binder jetting in digital manufacturing to new levels of speed, accuracy, reliability and repeatability,” Said Harshil Goel, CEO, Dyndrite. “With Dyndrite 3D printing can occur at the resolution of the machine, at scale, with automated workflows - creating opportunities for true advancement and innovation in additive.”

Visit [Dyndrite at Rapid + TCT 2021, Chicago, Sept 13-15, booth E7219](#), to learn more about this partnership and discuss how it can accelerate your next raster 3D printing innovation.

About Dyndrite:

Dyndrite's mission is to fundamentally affect how geometry is created, transformed and transmitted on a computer. Our Accelerated Computation Engine (ACE), gives hardware and software companies the power, freedom and control necessary to deliver on the potential of digital manufacturing.

The Dyndrite Accelerated Computation Engine (ACE) is the world's first multi-threaded, GPU-accelerated Geometry Software Developer Kit (SDK). Accessible via both C/C++ and Python interfaces, the Dyndrite Engine democratizes access to a hyper-scalable, geometry-agnostic set of digital manufacturing software tools that deliver eyebrow-raising performance. The company licenses the Engine to hardware, software and enterprise customers. HP Universal Build Manager Powered by Dyndrite is the first solution to be developed on ACE.

Dyndrite's team of mathematicians, computer scientists, and engineers exist to help our partners and licensees solve the toughest geometry, compute and automation problems so they can deliver differentiated production-oriented solutions at scale. We aim to ignite their purpose.

Investors include Gradient Ventures, Google's AI-focused Investment Fund and former Autodesk CEO Carl Bass. The company was founded in 2015 and is headquartered in Seattle, WA. Dyndrite was named a World Economic Forum Technology Pioneer for 2021.

For more information visit: www.dyndrite.com

Dyndrite PR Contact

Rachael Dalton-Taggart
press@dyndrite.com

Connect with Dyndrite

LinkedIn: <https://www.linkedin.com/company/dyndrite/>

Twitter: <https://twitter.com/dyndrite>

Facebook: <https://www.facebook.com/DyndriteCorporation/>

Dyndrite is a trademark of Dyndrite Corporation. All other trademarks and registered trademarks previously cited are hereby recognized and acknowledged.

About Meteor Inkjet

Headquartered in Cambridge UK, Meteor Inkjet Ltd is a leading supplier of industrial inkjet electronics, software, tools and services. Working closely with major industrial inkjet printhead manufacturers, Meteor offers production-ready solutions to printer OEMs world-wide. Meteor is a wholly-owned subsidiary of Global Graphics PLC (Euronext: GLOG), a developer of integrated software and hardware solutions for graphics and industrial inkjet printing through its operating subsidiaries Global Graphics Software, Meteor Inkjet Ltd, Xitron and HYBRID Software.

www.meteorinkjet.com

Contact

Tracey Brown
Director of Strategy & Marketing
Meteor Inkjet Ltd
+44 34 584 40012
marketing@meteorinkjet.com

About Xaar

Together with our partners and customers, Xaar has been transforming the world of inkjet technology for 30 years – and we're just getting started.

With a new leadership team, new technology and new products, we have an exciting roadmap for the future – that will help our partners unleash the true power of inkjet printing and open up a world of opportunities for their business.

We believe true innovation comes from collaboration, which is why all our teams work together in Cambridgeshire where industrial inkjet was born. Collaboration is at the core of our global partnerships too - whether we're helping customers enhance their uptime or create production efficiencies from high-speed digitisation - we're always innovating together.

We know that inkjet technology can not only maximise the efficiency of our partners' businesses but help them evolve too. That's why we go on a journey with our customers - offering expert insights and technical support every step of the way. Just like our printheads, Xaar's partnerships are built to last.

www.xaar.com

Contacts:

Xaar: Charlotte Baile T: +44 1223 802151 E: charlotte.baile@xaar.com

Global ex China/USA: Nielsen McAllister, Simon Wildash / Richard Pettinger T: +44 1332 293939 E: info@nmpr.co.uk

China: CommNow, Ning Wang, T: +8618501750420 E: ning.wang@commnow.cn

USA: Press+, Irvin Press T: +1 508-384-0608 E: irv@press-plus.com