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Press Release

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Hexagon and Authentise partner to deliver first open end-to-end software solution for additive manufacturing

Solution integrates shopfloor data with data intelligence to orchestrate consistent quality from concept to part

Hexagon's Manufacturing Intelligence division and Authentise have partnered to extend the Additive Manufacturing (AM) control loop from the machine level to connect the end-to-end value chain from design, manufacturing operations and quality assurance to make additive manufacturing more predictable, repeatable and traceable.

Data from shopfloor manufacturing operations, engineering data from the design phase, materials properties and quality data from validation and inspection processes hold the key to automating serial production improvements and enabling design improvements. However, the technical challenge of connecting these silos and applying these data have inhibited the ability to consistently apply AM to new designs. New solutions delivered through the partnership will apply Statistical Process Control (SPC) with Machine Learning (ML) and Artificial Intelligence (AI) methods to mitigate waste and quality issues during the design phase and improve the repeatability of additive manufacturing processes within a site or between global locations.

Through the partnership, Hexagon and Authentise will build solutions to industrialise AM technology by digitising every step of the workflow from part design through production to final product and quality assurance utilising their unique stack of technology capabilities to connect the digital thread of a part and trace its pedigree. This is made possible by a shared commitment to open architectures that integrate data and automate workflows between Hexagon's best-of-breed applications for AM and the third-party equipment and software manufacturers chose to use.

Mathieu Pérennou, Global Business Development Director Additive Manufacturing, Hexagon's Manufacturing Intelligence division says, "Together with Authentise, we are building a next-generation framework for our customers to manage flexible, fully digitized production workflows in private cloud environments. For manufacturers, AM is a complex and changing market with many excellent tools, printers and materials to apply. We believe our open and flexible systems will enable us to respond quickly to customer's needs and integrate with their unique environments. This will connect the data flow and help streamline their workflows in all stages of the AM process – before, during and after production and support their specific standards or compliance needs."

Authentise is a key partner in Hexagon's open AM ecosystem, having built an open manufacturing execution system tailored to the specific needs of additive manufacturing methods. This growing ecosystem provides a broad solution portfolio that allows Hexagon to build solutions tailored to the specific needs of customers from different industries and any level of complexity – from achieving high volume production of precision metal gears to first-time-right production of bespoke aerospace parts from composites.

Andre Wegner, CEO, Authentise says, "We are excited to combine Hexagon's solutions with our open workflow management engine to offer a unique end-to-end solution platform. Integrating data from Hexagon's best-of-breed software and sensors helps deliver a seamless experience for users, automation across their process, and unlocks the ability to learn from data. This partnership represents a step change for the industry – together we're delivering the integrated digital thread for additive manufacturing that customers have sought for so long."

To learn more about the partnership and to apply for a free process evaluation, visit www.authentise.com/hexagon, or attend Hexagon and Authentise's presentations at the AMUG conference (www.amug.com), May 2-4, 2021.



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About Authentise

Authentise delivers award-winning data-driven process automation software for advanced manufacturing processes.

Its products include aMES, an additive workflow management engine using machine data for automation, and 3DiAx, a platform of manufacturing related software modules. These tools help Boeing, Ricoh, Danfoss and others at the forefront of R&D, prototyping and production to reduce effort and cost, improve traceability and transparency, and deliver quality. The resulting contextual data is at the core of all future Industry 4.0 initiatives, such as digital supply chain management.

The company was founded in 2012 in San Francisco and operates offices in Philadelphia, London and Kiev with 18 full time employees. For more information, see www.authentise.com or follow [@authentise](https://twitter.com/authentise).

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit hexagonmi.com.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at hexagon.com and follow us [@HexagonAB](https://twitter.com/HexagonAB).