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Solukon and Authentise partner for fully integrated metal postprocessing workflow

Companies will integrate sensor-data from depowdering into end-to-end workflow

Philadelphia, PA, USA & Augsburg, Germany; 9 December 2021 – Authentise (www.authentise.com), the leader in data-driven workflow tools for additive manufacturing, and Solukon (www.solukon.de), the ground-breaking pioneer and market leader of automated depowdering systems for metal and polymer additive manufacturing, have today agreed the integration of the Solukon Digital Factory Tool into the advanced Manufacturing Execution System (aMES).

The removal of powder from 3d printed components, is a central step in postprocessing in additive manufacturing. Solukon Maschinenbau GmbH offers a full range of industrial powder removal systems and has recently added advanced analytics capabilities into their postprocessing systems through the Digital Factory Tool, a sensor and interface management solution. The Solukon Digital Factory Tool allows easy integration of automated powder removal into an overall digital AM process by providing continuous documentation and real time monitoring.

Seamless data flow to ensure overall AM process traceability

The integration of the Solukon powder removal environment will enable users to continue the powder to part genealogy using Authentise's leading material traceability module. This will increase opportunities for improved postprocess inspection recording and recycling of recovered materials. In addition, real-time alerts generated by the Solukon system inside aMES will help the user address any deviations during the process and improve powder recovery. Since aMES already captures data from AM machines and manages the printable geometry, the system passes this information on to Solukon automatically, saving the user from locating and uploading this information separately. The insight generated is appended to the existing aMES part report to ensure end-to-end traceability. In the future, both companies aim to integrate Solukon's automatic toolpath creation into the Authentise aMES to help users identify the optimum automated powder removal process for their specific application.

"By partnering with Authentise, we are taking the next logical step after the introduction of the Solukon Digital Factory Tool. Seamless data collection and interpretation



throughout the entire production and postprocess is the only way to achieve a true production line in additive manufacturing. Together with Authentise, we are closing a gap in data transparency and open the way for real Industry 4.0 projects," says Andreas Hartmann, CEO and CTO of Solukon.

"This is the first time that Authentise has extended its ability to communicate beyond additive devices into postprocessing equipment," says Andre Wegner, CEO of Authentise. "The benefits are immediately obvious: higher labour and material efficiency, as well as better traceability for users. The partnership is driving near immediate Return on Investment for our users. The collaboration proves once again that customers can benefit from leaders in AM workflow joining to create tools that not only benefit the customer but make the all-important step to creating pathways to more sustainable industrial additive manufacturing."

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About Authentise

Authentise delivers data-driven process automation software for additive manufacturing. Its two products include AMES, a workflow management engine using machine data for automation, and 3DiAx, a platform of manufacturing related software modules. These tools help Boeing, Ricoh, 3M, 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 products also serve as their core contextual data engine in manufacturing, enabling them to easily build connected Industry 4.0 solutions. The company was founded in 2012 in San Francisco and operates offices in Philadelphia, London and Kiev.

About Solukon

Solukon Maschinenbau GmbH is a German high-quality supplier of powder removal and processing systems for metal and polymer additive manufacturing. Founded in 2015, the company, located in Augsburg, has extensive experience in the development of AM systems and related peripheral equipment, and offers a full range of industrial powder processing systems. Solukon products meet the highest functionality and safety standards and are approved for safe and reliable removal of tough-to-handle and reactive materials such as titanium and aluminum.



Solukon is present on four continents. The systems are trusted by leading manufactures of 3d-printing systems, like EOS, SLM Solutions and AMCM, by institutions like NASA and Cern as well as by companies like Siemens and Ariane Group.