



PRESS RELEASE

Rivelin Robotics & Solukon Partnership to Progress Automated Powder Removal & Finishing for Metal AM

The results of the joint R&D project between Solukon and Rivelin will be on show at Rivelin's stand at Formnext 2023. The companies invite interested parties to assess the comprehensive solution and to engage fully ahead of commercialisation.

Sheffield, UK & Augsburg Germany; 27 September, 2023: Rivelin Robotics is delighted to announce it is working in partnership with Solukon for the progression of advanced automated solutions for the post processing of metal and metal additive manufacturing (AM) applications.

Rivelin and Solukon have identified areas where the two companies can collaborate and combine their expertise to develop autonomous post processing solutions that many metal AM users are demanding. The key goals identified by the two companies will align Solukon's large automated powder removal solution, the SFM-AT800-S, with Rivelin's precise and reliable robotic solutions for support removal and finishing, featuring Rivelin Netshape software and Yaskawa EU robots.

This system is being driven by customer demand. Both companies have identified specific challenges cited by customers, specifying the need for robotic compressed air blasting, localised and targeted vibration to assist with depowdering large parts, robotic sensing solutions to inspect air flow in cleared channels, powder blasting and various media blasting for surface enhancement (eg glass, grit, sand, nitrogen etc).

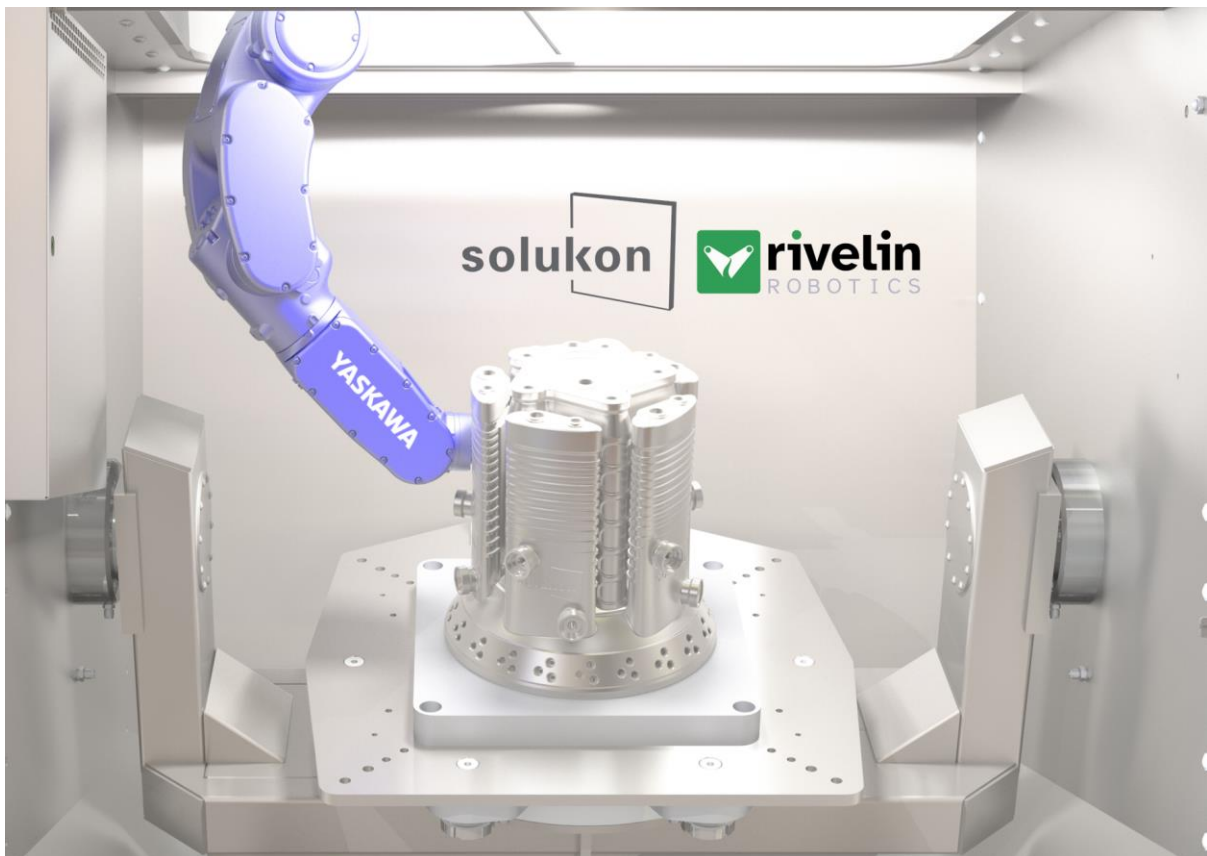
This reality, in the form of a full concept, working system will be introduced at Formnext 2023, taking place in Frankfurt November 7-10. Rivelin and Solukon will be neighbours on the show floor, at stands E41 and D42, respectively, in Hall 12.0. Interested visitors can view this new and exciting solution at Rivelin's Stand E41.

"We're thrilled to hit the ground running at Formnext with our partner, Solukon. This isn't just another trade show for us; it marks a year since we debuted, and we've made some significant strides. Our Rivelin NetShape Robots have gone from blueprint to reality, and alongside Solukon, we're crafting automated solutions for post-processing

metal AM parts—exactly what the industry's been calling for. It's all about delivering real value, and we're doing it in spades." said Robert Bush, CEO of Rivelin Robotics.

According to Andreas Hartmann, CEO / CTO at Solukon Maschinenbau: "One trend that is emerging in additive manufacturing is that the internal channels and cavities of parts are getting even more complex. Our aerospace customers in particular have exceptionally high requirements and often work with sticky behaviour materials like copper that require advanced automated depowdering. With programmable rotation, targeted vibration and thanks to our SPR-Pathfinder® software without any human programming efforts, we also get the aerospace parts powder-free with our Solukon technology in a reliable and repeatable way. A very useful task for an integrated robot in our SFM-AT800-S is a channel cleanliness check with blowing or the removal of powder deposits from the surface of the components. We are very glad to have found this experienced partner for automated finishing in Rivelin."

Rivelin Robotics will be exhibiting in Hall 12.0 booth #E41. Solukon can be found neighbouring Rivelin, in the same hall on booth #D42.



About Rivelin Robotics

For OEM's and their supply chain who are dissatisfied with how labour-intensive metal additive manufacturing is, Rivelin NetShape is an automation solution for support removal and targeted finishing that supports high-mix production lines in mission-critical industries. Unlike automation found in casting, NetShape doesn't need pre-defined toolpaths or specialist robot programmers.

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About Solukon Maschinenbau GmbH

Solukon Maschinenbau GmbH is a German high-quality supplier of powder removal and processing systems for metal and polymer additive manufacturing. Founded in 2015 by Andreas Hartmann and Dominik Schmid, 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. Since 2022 Solukon offers an intelligent software for automated depowdering of laser-melted metal parts as exclusive licensee, the SPR-Pathfinder®. 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 manufacturers 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.

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