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The future of custom robotics is printed: trinckle's 3D printing software is revolutionizing how manufacturers create custom robotics with additive manufacturing

Custom robotic grippers are a frequent must in manufacturing. trinckle and Kuhn-Stoff GmbH & Co KG partner to create a software application that automates the design process of these components, reducing design times and cost.

HENNIGSDORF / BERLIN, GERMANY, February 20th, 2017 – The use of additive manufacturing (AM) techniques has long been commonplace in the production of robotic gripping systems, reducing production costs and times for custom components. However, AM alone cannot solve all of the challenges of customization, and the generation of the custom designs before production can begin remains a considerable challenge, requiring CAD know-how and hours of design work. trinckle and Kuhn-Stoff GmbH & Co KG partnered to eliminate this pain point for manufacturers.

The result of the partnership is an application that automates the design of robotic grippers. A highly-complex design process, trinckle's development team had to balance the need for strength and lightweight construction, while allowing enough flexibility for the individual placement of grip points. trinckle CEO, Florian Reichle: "**paramate** is the ideal solution for the technical and design challenges posed by custom robotic grippers. Our software's intelligent algorithms enable manufacturers to benefit even further from AM."

Kuhn-Stoff CEO, Hannes Kuhn, has used AM in the production of robotic grippers for years. He predicts that this configurator will result in significant production improvements, primarily in regards to design time. With the use of this application the average design time for a custom gripper will be reduced from around eight hours to a matter of minutes. These time savings naturally correspond to savings in design costs. Beyond savings, automating the design process removes barriers from the production process entirely. trinckle's configurator allows anyone, regardless of their technical skills, to manage the design process. Eliminating the need for specific 3D design or CAD knowledge marks an important progression in product design and a way to improve the accessibility of additive manufacturing for businesses. "The web-based configurator will grant clients without significant CAD-knowledge access to the design of robotic grippers. This is particularly relevant, when, in the construction of such systems, changes have to be made quickly" Hannes Kuhn, Kuhn-Stoff CEO.

Businesses stand to gain handsomely through the combination of AM with software applications like **paramate**. It introduces opportunities for new business models and enhanced efficiency of existing processes.

Moreover, the gripper configurator, will have a far-reaching and positive impact on the entire ecosystem. Leading AM hardware manufacturer and longtime production partner of Kuhn-Stoff, EOS, looks to this software with anticipation. "With our AM systems, clients can produce

robotic grippers that are lightweight, durable, and outperform those made by conventional means. But, many of our clients struggle with the manual design workload for customer-specific components. The gripper configurator is the missing piece that brings everything together, and can serve as inspiration for countless other industrial applications" Christian Waizenegger, Business Development Manager Industry, EOS.

trinckle company description

The berlin-based company trinckle develops software for the age of additive manufacturing.

trinckle`s core offering, paramate, automates design processes and provides a platform for advanced product configuration. paramate enables customer-specific adaptations of any product - whether it be prostheses tailored to the patient, mechanically optimized industrial components like end-of-arm grippers, low-volume jigs and fixtures or personalized lifestyle products.

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