

Siemens expands additive manufacturing portfolio through acquisition of Atlas 3D

- **Atlas 3D helps designers define optimal part orientations for ‘right first time’ 3D printing**
- **Cloud-based, GPU-accelerated Sunata™ software can reduce downstream 3D printing errors caused by thermal distortion up to one hundred times faster than other solutions on the market**

Siemens announced today that it has signed an agreement to acquire Atlas 3D, Inc., a Plymouth, Indiana-based developer of software that works with direct metal laser sintering (DMLS) printers to automatically provide design engineers with the optimal print orientation and requisite support structures for additive parts in near real-time. Atlas 3D will join Siemens Digital Industries Software, where its solutions will expand additive manufacturing capabilities in the Xcelerator portfolio of software.

Sunata software uses thermal distortion analysis to provide a simple, automated way to optimize part build orientation and generate support structures. This approach allows the designer—rather than the analyst—to perform these simulations, thereby reducing the downstream analysis that needs to be conducted via Simcenter™ software to achieve a part that meets design requirements. Siemens plans to make the Atlas 3D solution available through its online Additive Manufacturing Network.

“We welcome Atlas 3D to the Siemens community as the newest member of our additive manufacturing team. Our solutions industrialize additive manufacturing for large enterprises, 3D printing service bureaus, design firms and CAD designers,” said Zvi Feuer, Senior Vice President, Manufacturing Engineering Software of Siemens Digital Industries Software. “The cloud-based Sunata software makes it easy for designers to

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determine the optimal way to 3D print parts for high quality and repeatability. The combination of Sunata with the robust CAE additive manufacturing tools in Simcenter enables a 'right first time' approach for industrial 3D printing."

"Siemens is a leader in additive manufacturing, with the most integrated and functionally robust solutions in the industry, so we are excited to join the team," said Chad Barden, Chief Executive Officer of Atlas 3D. "The power of Sunata is that it equips designers to more easily design parts that are printable, which helps companies more quickly realize the benefits of additive manufacturing. As part of Siemens, we look forward to introducing Sunata to customers who already have Siemens' AM solutions and can achieve new efficiencies in their front-end design-for-additive process, as well as companies who have yet to start their additive manufacturing journey."

The high rate of 3D print failures is a key challenge companies face in leveraging additive manufacturing for high-volume production. Parts often need to go through several design and analysis iterations before the optimal build orientation and support structures are determined. Typically, designers don't have the capabilities to consider such factors as part orientation, distortion, and heat extraction uniformity in their design. This puts the onus on engineering specialists to resolve such issues.

Atlas 3D's Sunata software solves this problem by giving front-end designers a quick, easy and automated way to get much closer to a "right first time" build. Sunata is a GPU-accelerated high-performance computing additive manufacturing software solution that can deliver results up to one hundred times faster than other build simulation solutions on the market. GPU-accelerated computing is the employment of a graphics processing unit (GPU) along with a computer processing unit (CPU) to facilitate processing-intensive operations such as deep learning, analytics and engineering applications.

The acquisition is due to close in November 2019. Terms of the transaction were not disclosed.

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Siemens Digital Industries Software is driving transformation to enable a digital enterprise where engineering, manufacturing and electronics design meet tomorrow. The [Xcelerator portfolio](#) helps companies of all sizes create and leverage digital twins that provide organizations with new insights, opportunities and levels of automation to drive innovation. For more information on Siemens Digital Industries Software products and services, visit www.sw.siemens.com or follow us on [LinkedIn](#), [Twitter](#), [Facebook](#) and [Instagram](#). Siemens Digital Industries Software – Where today meets tomorrow.

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Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 76,000 employees internationally.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of power generation and distribution, intelligent infrastructure for buildings and distributed energy systems, and automation and digitalization in the process and manufacturing industries. Through the separately managed company Siemens Mobility, a leading supplier of smart mobility solutions for rail and road transport, Siemens is shaping the world market for passenger and freight services. Due to its majority stakes in the publicly listed companies Siemens Healthineers AG and Siemens Gamesa Renewable Energy, Siemens is also a world-leading supplier of medical technology and digital healthcare services as well as environmentally friendly solutions for onshore and offshore wind power generation. In fiscal 2019, which ended on September 30, 2019, Siemens generated revenue of €86.8 billion and net income of €5.6 billion. At the end of September 2019, the company had around 385,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

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