

## BeAM and Siemens intensifying collaboration in industrial 3D printing for Directed Energy Deposition

- **Successful collaboration in both software and hardware for additive manufacturing further extended**
- **New CNC Sinumerik One to be integrated successively into the entire machine fleet**

BeAM, a leading machine manufacturer in the field of DED (Directed Energy Deposition) technology for additive manufacturing, and the global technology company Siemens announced at EMO 2019 their plans to further intensify their already successful collaboration. This is based on the successful piloting of Sinumerik One, the new CNC generation from Siemens. As a "digital native", the new controller features software for the creation of digital twins, which supports the seamless integration of hardware and software. BeAM is the first machine builder to equip an additive manufacturing machine - Modulo 250 - with a Sinumerik One. At EMO 2019, the world's first AM machine equipped with a Sinumerik One will be presented to the public at the Siemens booth in Hall 9, Booth H50. Visitors to EMO can see how the program simulation is operated on the machine using the Digital Twin of Production in the NX Virtual Machine software. „We are very excited to close the loop in the additive digital chain by bridging virtual simulation and actual deposition on our new Modulo 250 thanks to the integration of the new Sinumerik One. It opens up new possibilities for our industrial customers willing to integrate

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**Joint press release  
by Siemens and BeAM**

further DED in their value chain and optimize its usage “, explains BeAM’s CEO Vincent Gillet.

In the future collaboration, the companies plan to equip the entire BeAM machine fleet successively with Sinumerik One. In addition, the companies want to implement BeAM AM machines in the integrated additive manufacturing solutions of the Digital Enterprise portfolio. This means that joint developments and adaptations to CAD / CAM functions in Siemens NX can be tackled. Closer cooperation is also planned in terms of data management with Teamcenter, implementation in MES / MOM systems, process control and support for process monitoring and service functions from Siemens MindSphere and Edge functionality. "The rapid industrialization of additive manufacturing goes hand in hand with digital transformation and can only be achieved through close cooperation between experts in software and hardware and in industrial 3D printing, as is the case with Siemens and BeAM. Through the use of digital twins throughout the value chain from virtual design to creation of the actual component, digitalization in additive manufacturing ensures maximum efficiency, productivity and data transparency for the entire production process as well as maximum quality for the manufactured component," explains Uwe Ruttkamp, Head of Machine Tool Systems at Siemens Digital Industries.

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From left: Uwe Ruttkamp, Head of Machine Tool Systems at Siemens Digital Industries and Vincent Gillet, CEO of BeAM.

This press release and press pictures are available at <https://sie.ag/2ksHRiM>

For further information about Additive Manufacturing at Siemens, please visit [www.siemens.com/additive-manufacturing](http://www.siemens.com/additive-manufacturing)

For further information regarding Sinumerik One, please visit [www.siemens.com/sinumerik-one](http://www.siemens.com/sinumerik-one)

For further information about BeAM please visit [www.beam-machines.com](http://www.beam-machines.com)

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**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 electrification, automation and digitalization. One of the largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. With its publicly listed subsidiary Siemens Healthineers AG, the company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).

**BeAM**, created in December 2012, is a pioneer in designing and producing industrial metal additive manufacturing machines using the DED technology (Directed Energy Deposition). BeAM works closely with its customers and business partners to develop and industrialize manufacturing and repair processes with feasibility assessments, pilot production, sales of systems, training and technical support. BeAM is headquartered in Strasbourg, France and has two Solutions Centers, one in Cincinnati, Ohio and one in Singapore. This global presence of engineers trained by BeAM contributes to accelerating the adoption of its innovative technology, while offering engineering services for local industrial companies. DED is an Additive Manufacturing process where focused thermal energy is used to fuse materials by melting them as they are deposited. In June 2018, BeAM joined the AddUp Group, a manufacturer of 3D printing machines and production lines based in Clermont-Ferrand. AddUp is a joint-venture between Fives and Michelin, which employs more than 380 people. More information: [www.beam-machines.com](http://www.beam-machines.com)