BeAM is the world’s first machine manufacturer to integrate the new CNC generation Sinumerik ONE

Strasbourg, May 15th, 2019 – BeAM will exhibit its new Modulo 250 with Sinumerik ONE on the Siemens booth at EMO and present its implementation in the Siemens digital chain.

BeAM is proud to announce that its machines Modulo 250 and Modulo 400 will be equipped with Sinumerik ONE, which features powerful hardware and software to create a digital twin. This enables BeAM to create a complete virtualization of its development and machine processes. It is used to accelerate processes significantly and therefore reduce our time to market considerably, while maintaining a high standard of quality, thanks to the following features:

- Virtual commissioning
- Programming in TIA portal
- Flexible and quick implementation of peripheral devices such as laser, powder feeder and sensor systems

Thanks to the new digital twin which integrate a real CNC core, BeAM customers will be able to set up more quickly, program the toolpath with NX, run in parts in the virtual environment to avoid collisions and improve performance during production. Training can also be carried out separately from the actual machine.
G-code simulation using NX CAM

The quality of parts is improved thanks to the dynamic drive behaviour for high precision tool paths and the shorter PLC cycle. Finally, Sinumerik ONE further enhances the capacity of BeAM machines to integrate process monitoring and closed loop functionalities.

Link to Siemens’ press release: https://www.siemens.com/press/PR2019050244DIEN

About the Modulo range of machines

Modulo 250 and Modulo 400 are the last generation machines designed specifically for the Directed Energy Deposition technology and manufactured by BeAM. Their compact architecture includes in-house designed DED nozzles, a controlled atmosphere system for reactive materials and a multi-hopper powder delivery system. BeAM is also committed to ensuring the highest level of safety and ergonomics.
About BeAM

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.


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