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AMB 2018, Hall 2, Booth B03

Sinumerik Edge: Siemens presents the first Edge applications for machine tools

- **Edge application Optimize MyMachining /Trochoidal allows real-time data processing for high availability and productivity**
- **Siemens Industrial Edge closes the gap between local and cloud computing in the industrial sector**
- **Sinumerik Edge facilitates high-frequency control data processing**

As part of Siemens Industrial Edge, Siemens is launching applications for Sinumerik Edge, the machine-level platform specially designed for the machine tool industry, at AMB 2018 in Stuttgart. This is the first opportunity to see the Edge application Optimize MyMachining /Trochoidal for use in trochoidal milling.

Optimize MyMachining /Trochoidal provides users with updates for the existing NC program, optimized machining processes, and sustainability for retrofit applications using dynamic machine data and corresponding data inputs. This leads to reduced tool wear, improved machine lifetimes, and thus to lower overall inventory costs which in turn increases machine availability, leading to significant productivity gains. High-performance Sinumerik Edge technology makes all this possible. Computation is based on individual, optimal machine and axes-based dynamic data. A control-based interface allows the machine to be programmed directly using Sinumerik Edge-based computational power. This prevents any adverse effects on the machine's machining performance which optimizes the process.

Optimize MyMachining /Trochoidal is particularly suitable for use with older machines as it reduces the mechanical wear in the machine considerably.

A prototype of another Edge application for condition monitoring is also being shown. Users can quickly find the correct tool and identify real problems, whether

current or imminent (for example causes of friction), and improve or correct machine operation by adjusting the settings. The use of this Sinumerik Edge application also significantly increases machine tool availability and thus productivity.

With Siemens Industrial Edge, Siemens is offering users the chance to close the gap between classic, local data processing and cloud-based data processing to suit individual requirements. Edge computing allows large volumes of data to be processed locally almost in real time and without any feedback. There is also an additional reduction in memory and transfer costs as large volumes of data are preprocessed and only the relevant data is finally transferred to a cloud or factory-level IT infrastructure. Siemens Industrial Edge supports cloud transfer protocols for MindSphere, Siemens' own open, cloud-based IoT operating system. In the future, it will also support Message Queuing Telemetry Transport (MQTT), making data transfer safe and effective. With Sinumerik Edge, Siemens is offering a local platform for software applications developed specially for machine tools which captures, pre-processes and analyzes high-frequency data during machine tool operation and which is integrated into the relevant automation solution.



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This press release and press pictures are available at

www.siemens.com/press/PR2018090301DFEN

More information on Siemens at AMB 2018 is available at

www.siemens.com/amb and www.siemens.com/press/amb2018

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