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Hannover Messe 2020, Hall 9

Siemens Industrial Edge makes drive systems even more intelligent

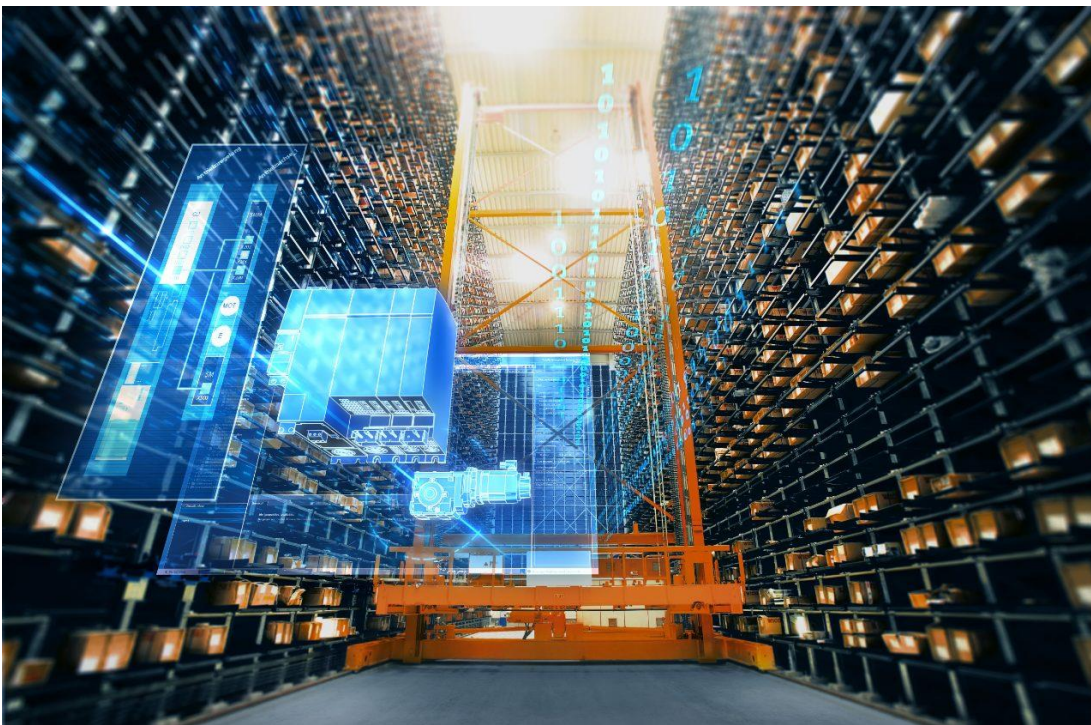
- **Concept study demonstrates the integration of Sinamics frequency converters to the Siemens Industrial Edge platform**
- **High-frequency data exchange and complex analysis of the drive train possible**
- **Paving the way for new business models**

At the Hannover Messe 2020, Siemens presents a concept study that demonstrates the integration of a Sinamics drive system to the Siemens Industrial Edge platform. In future, it will be possible to perform high-frequency data exchange in drive technology using an Edge device. The integration of Sinamics frequency converters to an Edge device enables users of machines and applications to perform complex analyses of data that is already collected in the drive. Machine learning algorithms identify patterns and detect anomalies and their causes, providing early indications of necessary maintenance. This minimizes downtimes and reduces the consumption of resources. For example, in intralogistics applications the belt tension can be monitored for a storage and retrieval machine. The belts, which are driven by a motor and frequency converter, require a specific tension so that the application runs smoothly. If the visualization of the data analyses shows irregularities in the drive system, then belt maintenance can be triggered promptly, for example.

By connecting Sinamics frequency converters to the Industrial Edge platform, Siemens is making drive technology more intelligent and paving the way for new business models. With intelligent drive technology, machine builders can provide application-specific app solutions and digital services, for example, or contractually guarantee the availability of a machine.

Siemens Industrial Edge

With Siemens Industrial Edge, Siemens offers a digitalization solution that expands automation to include data processing at machine level, by safely moving the intelligence of edge computing and advanced analytics into the manufacturing area. Siemens Industrial Edge offers users the opportunity to execute a range of descriptive, diagnostic, predictive and prescriptive analytics applications. Cloud connectivity - in conjunction with Edge apps created by Siemens, third-party suppliers or users themselves - is used in an integrated hardware and software ecosystem for automation components.



At the Hannover Messe 2020, Siemens presents a concept study that demonstrates the integration of a Sinamics drive system to the Siemens Industrial Edge platform.

This press release and a press picture are available at <https://sie.ag/2I2FF9E>

This press release as well as further information regarding Siemens at the Hannover Messe 2020 are available at www.siemens.com/press/hm20

For further information regarding digitalization in drive technology, please see www.siemens.com/digital-drives

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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 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