

EMO 2019

Predictive maintenance solutions for machine tools reduce cost the Smart way

Hanover, Germany, 16th – 21st September 2019

Preventing unscheduled downtime is one of the most effective cost reduction measures in any production environment. Mitsubishi Electric is offering practical solutions for both machine tools and robots. At EMO 2019, Mitsubishi Electric will be demonstrating two of its predictive maintenance solutions available to customers.

Mitsubishi Electric and its e-F@ctory Alliance partner Lenord + Bauer have developed an advanced condition monitoring system for machine tools. It utilises smart encoders and a direct communication interface within Mitsubishi Electric machine controllers, such as CNCs, for accurate status information that is easy to access.

Operating hours are recorded and monitored along with temperature, speed and position by the [Lenord + Bauer](#) MiniCODER range. These parameters are then used to help schedule maintenance activities by providing an early warning message when component servicing or replacement are required. The ferromagnetic measuring gear and scanning unit can record speeds of up to 100,000 revolutions per minute, making the system ideal for feedback on machine tool spindles and positioning systems.

The second solution on the stand uses AI to increase the effectiveness of predictive maintenance. The cloud-based solution using the AI platform within IBM Watson analyses operational data and can optimise maintenance regimes based on actual usage and wear characteristics. It can be applied to robots and other equipment such as machine tools.

Both smart solutions demonstrate how predictive maintenance for machine tools and robots can reduce operational costs, increase asset productivity and improve process efficiency. Visitors to the stand can speak to Mitsubishi Electric's engineers to learn about additional predictive maintenance solutions that may also be appropriate for their applications.

More information <https://www.mitsubishi-cnc.de/index-en.html>

CNC and factory automation solutions from Mitsubishi Electric at EMO 2019 are located at: Hall 9 / D40.

Wire cutting and die sinking EDM machines from Mitsubishi Electric are located at: Hall 13 / B92.

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Image Captions:



Image 1: The predictive maintenance solution for machine tools from Mitsubishi Electric and Lenord + Bauer allows operators to schedule in servicing or replacement as they will receive an early condition based indication of the equipment.

[Source: Mitsubishi Electric Europe B.V.]



Image 2: Maintenance regimes for robots and other equipment such as machine tools can be optimised by using the cloud-based predictive maintenance solution developed by Mitsubishi Electric that uses the AI platform within IBM Watson.

[Source: Mitsubishi Electric Europe B.V.]

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About Mitsubishi Electric

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, mobility and building technology, as well as heating, cooling and air-conditioning technology.

Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavours to be a global, leading green company, enriching society with technology.

With around 145,800 employees the company recorded consolidated group sales of 40.7 billion US Dollar* in the fiscal year ended March 31, 2019.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Factory Automation EMEA – CNC

Mitsubishi Electric Europe, CNC is located in Ratingen near Dusseldorf, Germany. It is a part of the Factory Automation - European Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V. that has been represented in Germany since 1978, a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of the Factory Automation EMEA – CNC is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

*Exchange rate 111 Yen = 1 US Dollars, last updated 31.03.2019 (Source: Tokyo Foreign Exchange Market)

Further Information:

www.mitsubishi-cnc.en

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