

Unlock the performance of machines with new advanced drive solution

Ratingen, Germany 23rd February 2021

Mitsubishi Electric's new MELSERVO MR-J5 series of TSN-compatible servo drives meet today's exacting requirements for precision, dynamics and multi-axis synchronisation in food and beverage, life sciences and printing/converting production applications. They also integrate a full suite of safety functions as standard, and embed predictive maintenance functions, giving users the tools they need to increase machine productivity and availability.

End users and machine builders can drive up the performance of their lines and systems thanks to a frequency response of 3.5kHz and a communication cycle time of 31.25µs. Further, with the associated MELSERVO J5 motion module, users can synchronise up to 256 axes.

This increased performance does not come at the cost of more complex set-up. No tuning experience is required, with a quick-tuning function generating all of the gain values automatically within approximately 0.3 seconds. The machine is then ready to run as soon as the servo is enabled, assuring smooth running with significantly reduced commissioning time and effort.

A key enabler for improved performance across multi-axis servo systems is the integration of CC-Link IE TSN (time sensitive network) technology with 1Gbps transmission speeds, assuring synchronisation across all connected devices – including safety devices, which can be connected on the same network as standard control products such as inverters, HMI and I/O. Other network protocols such as EtherCAT are also offered as standard.

Predictive maintenance functions have also been embedded, helping to reduce unplanned machine downtime and drive-up asset availability, so saving both time and money. These functions are powered by Mitsubishi Electric's Maisart AI technology, allowing this new servo drives series to detect mechanical component deterioration on the machine long before a maintenance is required.

The MELSERVO MR-J5 series enables users to save time and money in other areas, too. Machine wiring has been simplified with a new single cable – for encoder, power and electromagnetic brake – with a new one-touch lock connector which eliminates the need for tightening screws. The 26-bit absolute encoder offering 67 million pulses per revolution ensures precise motion control in demanding applications, while the elimination of the need for an internal battery reduces maintenance costs.



Image caption: The latest Mitsubishi Electric MELSERVO MR-J5 series of TSN-compatible servo drives meet requirements for precision, dynamics and multi-axis synchronisation in applications such as food and beverage, life science and printing/converting applications.
[Source: Mitsubishi Electric Corporation, Japan]

About Mitsubishi Electric

With 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 “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 146,500 employees the company recorded consolidated group sales of 40.9 billion US Dollar* in the fiscal year ended March 31, 2020.

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

Factory Automation EMEA

Mitsubishi Electric Europe B.V., Factory Automation EMEA has its European headquarters in Ratingen near Dusseldorf, Germany. It is a 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 Factory Automation EMEA is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

** At an exchange rate of 109 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2020*

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Press contact:

Mitsubishi Electric Europe B.V.

Factory Automation EMEA

Monika Torkel

Media Relations

Mitsubishi-Electric-Platz 1

40882 Ratingen, Germany

Tel: +49 (0)2102 486-2150

[Mob: +49 \(0\)172 261 4824](tel:+49(0)1722614824)

Monika.Torkel@meg.mee.com

de.linkedin.com/in/Monika-Torkel

www.xing.com/Monika_Torkel

Story/Editor:

DMA Europa Group

Philip Howe

Europa Building, Arthur Drive, Hoo Farm Industrial

Estate, Kidderminster, Worcestershire, UK

Tel.: +44 (0)1562 751436

philip@dmaeuropa.com

www.dmaeuropagroup.com

Distribution/Circulation:

MEPAX

Romain CLASS

Tel.: +33 (0) 6 12 80 47 76

r.class@mepax.com

www.mepax.com