

# Enabling Li-ion battery manufacturers to turn data into efficiency gains

Ratingen, Germany 23<sup>rd</sup> May 2023

The demand for lithium-ion batteries (LIBs) is continuing to skyrocket, driven by the growing market for more sustainable e-mobility solutions. For LIB cell manufacturers to get the most out of the current opportunities, they need to be able to quickly deliver high volumes of quality products while maintaining a low environmental impact. Klaus Petersen, Director – Automotive & Lithium Battery Industries, Factory Automation EMEA at Mitsubishi Electric Europe B.V., explains how digital technologies can help LIB manufacturers in this pursuit in the videocast "Lithium-lon Batteries: From data to competitive advantage".



[Source: Mitsubishi Electric Europe, Germany]

It is a truly exciting time for LIB cell producers, as demand for their products will continue to rise for the foreseeable future and there is considerable room



for expansion in the supply chain. To successfully navigate the opportunities that this trend holds, it is important for companies to have an in-depth understanding of what the driving force is and what users are looking for. These can be summarised as the need to support the decarbonisation of the transport sector with reliable innovations. In turn, this means that manufacturers need to be able to consistently deliver LIB cells with optimum capacity, voltage and resistance while minimising waste, energy usage and resource utilisation.

The most effective and futureproof way to do this is through data-driven process control, according to Klaus Petersen. Thanks to his extensive experience as a quality specialist in the automotive sector, he has an in-depth understanding of how process knowledge can help to simultaneously improve end products and production efficiency. To gain the unique, actionable insight required to realise these benefits, LIB cell manufacturers need to quantitatively monitor what is going on in the shop floor as well as how these activities and their operating conditions influence quality. This type of setup is also key to identifying inefficiencies and tackling them, lowering expenses while supporting the delivery of cost-competitive, reliable LIB cells.

Ultimately, by developing a comprehensive overview of their processes and products, companies can also take key steps to implement automated operations that adjust their parameters in real time to consistently create quality batteries and improve productivity. Even more, they can set up fully integrated production lines as well as connect to partner companies to share data. As a result, value-adding knowledge can be shared to support traceability and create quality-centric supply chains with a limited environmental footprint.



To watch Klaus Petersen's full interview and learn more about the realworld benefits of digital technologies for competitive process control in LIB cell production visit: <a href="https://bit.ly/3BKDN12">https://bit.ly/3BKDN12</a>



**Image Caption:** Klaus Petersen, Director for Automotive & Lithium Battery Industries, Factory Automation EMEA at Mitsubishi Electric Europe B.V.

[Source: Mitsubishi Electric Europe, Germany]

The image(s) distributed with this press release are for Editorial use only and are subject to copyright. The image(s) may only be used to accompany the press release mentioned here, no other use is permitted.

-/END/-



# **About Mitsubishi Electric Corporation**

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) 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, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better." The company recorded a revenue of 5,003.6 billion yen (U.S.\$ 37.3 billion\*) in the fiscal year ended March 31, 2023.

For more information, please visit <a href="www.MitsubishiElectric.com">www.MitsubishiElectric.com</a>

\*U.S. dollar amounts are translated from yen at the rate of ¥134=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2023.

### **About Mitsubishi Electric Factory Automation Business Group**

Offering a vast range of automation and processing technologies, including controllers, drive products, power distribution and control products, electrical discharge machines, electron beam machines, laser processing machines, computerized numerical controllers, and industrial robots, Mitsubishi Electric helps bring higher productivity – and quality – to the factory floor. In addition, its extensive service networks around the globe provide direct communication and comprehensive support to customers. The global slogan "Automating the World" shows the company's approach to leverage automation for the betterment of society, through the application of advanced technology, sharing know how and supporting customers as a trusted partner.

For more about the story behind "Automating the World" please visit: www.MitsubishiElectric.com/fa/about-us/automating-the-world



### **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.

For more information, please visit emea.mitsubishielectric.com/fa

## About e-F@ctory

e-F@ctory is Mitsubishi Electric's integrated concept to build reliable and flexible manufacturing systems that enable users to achieve many of their high speed, information driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as the CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide ranging "best in class" principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated manufacturing but still retain the ability to choose the most optimal suppliers and solutions.

\*e-F@ctory, iQ Platform are trademarks of Mitsubishi Electric Corporation in Japan and other countries.

\*Other names and brands may be claimed as the property of others.

\*All other trademarks are acknowledged





### Follow us on:

You Tube youtube.com/user/MitsubishiFAEU

<u>twitter.com/MitsubishiFAEU</u>

<u>www.linkedin.com/Mitsubishi Electric -</u>

**Factory Automation EMEA** 

#### **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

Monika.Torkel@meg.mee.com

de.linkedin.com/in/Monika-Torkel

www.xing.com/Monika Torkel

# Story/Editor:

DMA Europa Ltd.

**Philip Howe** 

Progress House, Great Western

Avenue, Worcester, UK, WR5 1AQ

Tel.: +44 (0)1905 917477

philip@dmaeuropa.com

www.dmaeuropa.com

#### **Distribution/Circulation:**

**MEPAX** 

**Romain CLASS** 

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

r.class@mepax.com

www.mepax.com

First released in English: 23/05/2023 Ref. No. DMA980 Page 6 / 6