

HAND IN HAND FOR SUSTAINABLE METAL RECYCLING

Mitsubishi Electric and LINDEMANN enter into exclusive collaboration

Ratingen, April 11th 2024

The partnership and collaboration between Lindemann Germany GmbH, one of the world's leading manufacturers of metalworking machinery, and Mitsubishi Electric has got off to a successful start. It sets new standards in terms of intelligent drive solutions and control technology for sustainable metal recycling.

Given the economic challenges facing the European metal recycling industry, innovation is crucial. Shredders and the associated downstream systems have high energy requirements. The integration of low-maintenance frequency inverters on three-phase asynchronous motors in existing systems opens up completely new possibilities. Retrofitting leads to massive savings in energy, wear and maintenance costs, which increases both productivity and availability and thus significantly improves overall system efficiency.

Both companies have recognized this potential and are working together to open up the market. Several projects have already been successfully implemented. Plant operators are quickly convinced by the solution, as they benefit from the higher profitability.

"The partnership is a big win, not only for our two companies, but for the entire industry," emphasizes Stefan Knauf, Division Manager of Factory Automation at Mitsubishi Electric.

"The enormous opportunities offered by the metal recycling market underline the importance of this collaboration," says Carl Gustaf Göransson, CEO of Lindemann.

This is because 45.8% of the almost 37 million tons of crude steel

produced in Germany in 2022 were already made from recycled steel. ¹

Image captions:



Image 1: Carl Gustaf Göransson, CEO of Lindemann Germany GmbH

(Source: Lindemann GmbH)



Image 2. Stefan Knauf, Division Manager Industrial Automation, Mitsubishi Electric Europe B.V.

(Source: Mitsubishi Electric Europe B.V.)

¹ Source: https://www.bvse.de/dateien2020/2-PDF/02-Press/04-Schrott-ES-Kfz/2023/bvse-Schrottmarktrückblick_2022.pdf



Image 3: Lindemann uses the low-maintenance frequency inverters with three-phase asynchronous motors in its high-performance large shredders, which leads to savings in energy, wear and maintenance costs.

[Source: Mitsubishi Electric Europe B.V.]



Image 4: Gemeinsam erfolgreich in den Metall-Recycling-Markt
f.l.t.r. M. Nakasaki, M. Porten, K. Kaga, I. Giouvanitskas, A. Sanada, P. Thomas, S. Knauf,

(Source: Mitsubishi Electric Europe B.V.)

About Lindemann

LINDEMANN is a designer, developer and producer of first class premium machinery, plants and original parts. The company serves customers from the scrap and metal processing- and producing industries, the automotive industry as well as foundries and steel mills. It has been performing outstanding work in this field continuously for 110 years. And it still is today.

The company with 20 locations (subsidiaries and sales partners) worldwide, headquartered in Düsseldorf, Germany, also offers the whole metal recycling value chain up to separation, sorting and dedusting and thus qualifies for the "Fit for 55" climate package.

<https://lindemann-metalrecycling.com/en/>

About Mitsubishi Electric Corporation

Mitsubishi Electric Corporation (TOKYO: 6503) has more than 100 years of experience in producing reliable, high-quality products and is the recognized global market leader in the manufacture, marketing and selling of electrical and electronic devices which are used in fields such as information processing and communications, space development and satellite communications, entertainment electronics, industrial technology, energy, transport and building equipment. Mitsubishi Electric enriches society with technology in line with its motto "Changes for the Better". The company recorded sales of 5,003.6 billion yen (37 billion US dollars*) in the fiscal year ending 31 March 2023.

For further information, go to www.MitsubishiElectric.com.

**Amounts in US dollars have been converted from yen at the rate of ¥134 = US\$1, the approximate rate on the Tokyo foreign exchange market on 31 March 2023.*

About the Mitsubishi Electric Factory Automation Business Group

Mitsubishi Electric offers a wide 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, thus helping to increase productivity – and quality – in operations. In addition, its extensive service networks around the globe offer direct communication and comprehensive support for customers.

The global slogan "Automating the World" expresses the company's aim to use automation to enhance society by using advanced technologies, sharing know-how and supporting customers as a trusted partner.

For further information on the story of "Automating the World", go to:

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 Düsseldorf. It is part of Mitsubishi Electric Europe B.V. which has been represented in Germany since 1978, a 100% subsidiary of Mitsubishi Electric Corporation, Japan. The task of Factory Automation EMEA is to control sales, service and support via the network of local branch offices and distributors across the whole EMEA region.

For further information, go to emea.mitsubishielectric.com/fa

About e-F@ctory

e-F@ctory is the integrated concept of Mitsubishi Electric for building reliable and flexible production systems to enable users to achieve many of their goals in information-led high-speed manufacturing. Through its partner solutions, the e-F@ctory Alliance and collaboration with open network associations such as the CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide-reaching "best-in-class" principle.

To sum up, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated production while still being able to choose the optimum suppliers and solutions.

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de.mitsubishielectric.com

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