

## **KAIZEN RETHOUGHT -**

### **Step by step to the smart factory**

Germany, Ratingen, 12.11.2024

**With the "Smart Manufacturing Kaizen Level" (SMKL) concept, Mitsubishi Electric presents a solution that enables companies to digitize their production facilities in a targeted and step-by-step manner. The concept is based on the Kaizen philosophy of continuous improvement and is designed to drive digital transformation in manageable, efficient steps. With the support of state-of-the-art technologies and software solutions, companies can sustainably increase their productivity, quality and plant availability and work towards a fully networked production.**

The concept is designed to help companies digitize in targeted steps. The approach is based on the Kaizen philosophy of continuous improvement applied to digital transformation.

The basic idea is the ability to scale from small to large: from data collection, visualization and analysis to process optimization. And from the individual machine to the entire supply chain. The concept helps companies analyze their existing infrastructure and identify specific processes that can be efficiently digitized. It enables them to move forward with digitization in a step-by-step, needs-driven manner. At each stage, we work together to determine which technologies or automation solutions make sense to achieve efficiency gains.

The SMKL concept therefore structures the digitalization process into different phases, enabling companies to seamlessly

integrate existing production facilities into the digitalization process and to gradually adapt them to modern requirements.

Mitsubishi Electric offers a range of innovative tools that enable companies to take a holistic approach. One example is the MELSOFT Gemini 3D simulator, which enables digital pre-verification of entire production lines and systems. This shortens development times and reduces costs in the planning phase. Another example is the AI-based solution MELSOFT VIXIO, which performs visual inspections in real time and detects defects or anomalies at an early stage. These technologies are essential to make the use of digital tools practical and measurable.

In addition to these simulation and inspection technologies, Mitsubishi Electric, through Iconics - a Mitsubishi Electric Group company - also offers SCADA and IoT solutions that ensure the smooth integration and use of production data. These solutions enable comprehensive real-time monitoring, effective alarm management and targeted production optimization measures. With this IoT-based infrastructure, companies can improve plant availability, reduce downtime and achieve greater efficiency.

Another key element of the SMKL concept is data-driven process optimization. Through clear visualization and detailed analysis of production data, companies can make targeted adjustments to improve both quality and productivity. From local HMI solutions to complex IoT platforms, Mitsubishi Electric provides the necessary technological foundation to use data effectively and achieve the greatest possible benefit for production.

By combining automation, control and robotics systems with advanced software solutions, Mitsubishi Electric demonstrates how companies can ensure the long-term efficiency and competitiveness of their production facilities.

Further information on SMK:

[https://de.mitsubishielectric.com/fa/de\\_en/lp/smart-manufacturing-smk/](https://de.mitsubishielectric.com/fa/de_en/lp/smart-manufacturing-smk/)

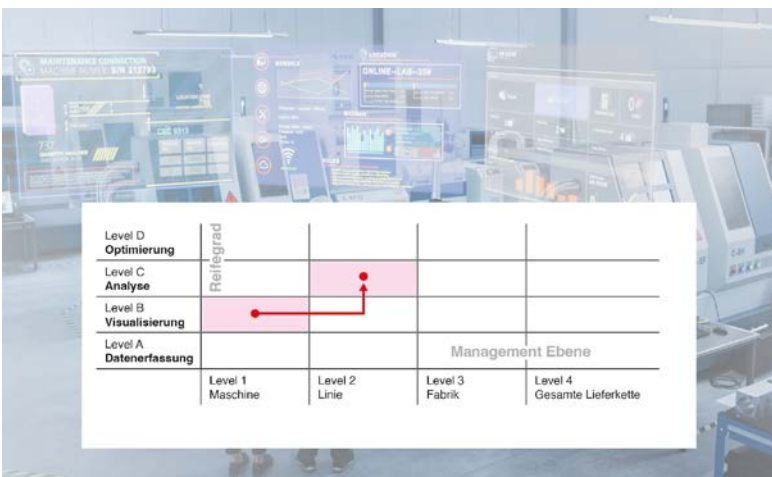
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## Pictures



**Image 1:** The SMKL concept from Mitsubishi Electric makes it possible to implement customized digitalization solutions for companies of any size.

[Source: Mitsubishi Electric]



**Image 2:** Start small, gain experience, scale up. The SMKL matrix from Mitsubishi Electric makes it possible to implement tailor-made digitalization solutions for companies of any size.

[Source: Mitsubishi Electric]

## **About Mitsubishi Electric Corporation**

Mitsubishi Electric Corporation (TOKYO: 6503) has more than 100 years of experience in manufacturing reliable, high-quality products and is a recognized world leader in the manufacturing, 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 sales of 5,257.9 billion yen (34.8 billion US dollars\*) in the fiscal year ending March 31, 2024.

Further information can be found at [www.MitsubishiElectric.com](http://www.MitsubishiElectric.com).

*\*Amounts in US dollars are converted from yen at the rate of ¥151=US\$1, the approximate rate on the Tokyo foreign exchange market on March 31, 2024.*

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

Mitsubishi Electric offers a wide range of automation and processing technologies, including controls, drive products, power distribution and control products, electrical discharge machines, electron beam machines, laser processing machines, computer numerical controls and industrial robots, contributing to higher productivity - and quality - in manufacturing. In addition, the extensive service networks around the globe provide direct communication and comprehensive support for customers. The global slogan "Automating the World" illustrates the company's approach of using automation for the benefit of society by using advanced technologies, sharing know-how and supporting

customers as a trusted partner.

You can find more information about the history of "Automating the World" here:

[www.MitsubishiElectric.com/fa/about-us/automating-the-world](http://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, Germany. It is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan, which has been present in Germany since 1978. The task of Factory Automation EMEA is to manage sales, service and support via the network of local subsidiaries and distributors throughout the EMEA region.

Further information can be found at [emea.mitsubishielectric.com/fa](http://emea.mitsubishielectric.com/fa)

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