

Innovative solutions for Packaging machines support industry 4.0 drivers

Easier machine integration via PackML and programming using S/W function blocks are key themes.

interpack 2017, Düsseldorf, 04th-10th May 2017, Hall 6, Stand C64

Today's packaged goods manufacturers face challenges to reduce costs per package unit - using production lines that also need to be flexible and ready to accommodate new packaging machine solutions. At the same time, production lines need to be more tightly integrated, with improved local monitoring and integration into higher level plant control and IT systems.

At interpack 2017 on Stand C64 in Hall 6, Mitsubishi Electric highlight technologies and solutions that deliver this high level of integration; including automation features that also provide monitoring of key performance indicators, enabling end users to address the challenges of modern production. At the same time, it demonstrates how easy it is for machine builders to develop advanced machines that realise all of this advanced functionality.

The Mitsubishi Electric stand includes demonstrations of a [vertical flow wrapping machine](#) and a palletising machine. Both highlight the full range of Mitsubishi Electric technologies from component level motion systems through to machine controllers, production line controllers and [SCADA](#). Plus, connectivity to higher level MES and IT systems.

The demo machines show how easy it is for machine builders to program advanced functionality by using Mitsubishi Electric's

[iQ Monozukuri](#). Standardized software modules including [HMI](#) templates dedicated to [packaging](#) and converting machinery are part of the iQ Monozukuri solution. Multiple interconnectivity with other machines in the production environment enabled by OMAC PackML and OPC UA complements iQ Monozukuri for Packaging. Parameterizing replaces coding and Industry 4.0 technologies, as Simulation and Digital Twins are used to improve time to market, providing an outstanding return on investment balance.

Having simplified programming, Mitsubishi Electric can also simplify line integration, particularly in a multi-vendor environment, by implementing the OMAC PackML and OPC UA standard. The result for end users is the ability to collect OEE data in a uniform way from multiple machines and lines, highlighting key performance indicators such as production, quality and availability data across the whole facility. Mitsubishi Electric's commitment to the open PackML standard makes it easy for end users to collect this data, all within an open environment, with monitoring locally on any display screen on the line.

Implementation of open standards also means data can be easily transferred to SCADA systems – such as Mitsubishi Electric Adroit Process Suite (MAPS) – and beyond to higher level MES and IT systems. This provides improved transparency and visibility of the production environment, enabling end users to increase productivity, quality and availability, and drive down costs.

Because today's packaging machines are increasingly complex, Mitsubishi Electric's demonstrations at interpack 2017 are designed to show machine builders how they can easily reduce development time, drive up reusability, reduce debugging time and simplify training. They also highlight how end users can benefit from simple configuration, operation of systems and interconnectivity, thereby maximising uptime

and reaping the benefits of increased flexibility. Improved availability of data, extended visibility of productivity, and interconnectivity all lead to ongoing cost savings, and are key drivers in the journey to Industry 4.0.

Note:

See how Mitsubishi Electric is able to respond to today's automation demands: eu3a.mitsubishielectric.com/fa/en/solutions

Image captions:



Image 1: Multiple interconnectivity with other machines in the production environment enabled by OMAC PackML and OPC UA complements the iQ Monozukuri software for Packaging from Mitsubishi Electric. Parameterizing replaces coding and Industry 4.0 technologies, as Simulation and Digital Twins are used to improve time to market, providing an outstanding return on investment balance.



Image 2: The demo machines, including a vertical flow wrapping machine, will show how easy it is for machine builders to program advanced functionality by using iQ Monozukuri. Standardized software modules including HMI templates dedicated to packaging and converting machinery are part of iQ Monozukuri.



Image 3: Mitsubishi Electric also simplifies line integration, particularly in a multi-vendor environment, by implementing the OMAC PackML standard. Implementation of open standards also means data can be easily transferred to SCADA systems – such as Mitsubishi Electric Adroit Process Suite (MAPS) – and beyond to higher level MES and IT systems.

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Note to Editor: if you would like the text in another language please contact Philip Howe at DMA Europa – philip@dmaeuropa.com.

About Mitsubishi Electric

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognised 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, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 135,000 employees the company recorded consolidated group sales of 38.8 billion US Dollars* in the fiscal year ended March 31, 2016.

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

Mitsubishi Electric Europe B.V., Factory Automation European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 113 Yen = 1 US Dollars, last updated 31.3.2016 (Source: Tokyo Foreign Exchange Market)*

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