Packaging Machinery
Advanced Automation Solutions

- Maximized flexibility
- Proven reliability
- Fast machine design and development

industrial.omron.eu/packaging
What's your speciality?

Primary packaging

Speed
Speed is the main challenge here. But there is also a need for product batch size independence, easy-to-clean and easy-to-operate machines as well as the need to maintain hygiene standards. Omron solutions for primary packaging increase both the speed and the flexibility of your primary packaging machines – thanks to our new leading-edge controller, which combines the latest real-time Ethernet fieldbus technology, EtherCAT, with our "One Software Environment" concept. This unique combination empowers you to phase-out conventional mechanical systems, and replace them with highly versatile Delta-robot and vision systems.

Manufacturing process

Quality
Even before the end-product is wrapped, canned, bottled or bagged, many packaging machine builders take time to consider their customers' operations from start to finish. The repeatability of operations with high productivity and high quality standards is a daily challenge. That's why Omron offers a wide product portfolio adapted to recipe-driven batch production, this requires technologies such as high-speed, high-resolution multi-loop regulation control, high-speed data processing and storage as well as seamless vision-based quality inspection.

Secondary packaging

Flexibility
The key challenges here are to match the production speeds of the primary packaging, to ensure individual pack or multi-pack integrity, and to ensure easy adaptation of linear guides to convey both primary and secondary packages. Omron solutions help you build more flexibility into your machines. We can provide the latest robotics and vision systems to help create, for example, robotic cartoners that pick and load 12 products simultaneously, using a pack pattern of either one, two or three layers. With a set-up like this, increasing the speed is simply a question of increasing the number of products picked per operation.

Final packaging

Robustness
The main challenge here is to ensure that high loads can be reliably handled at continuous high cycle frequencies. Omron solutions include a wide range of highly robust electromechanical linear axes. Ready-to-install linear modules with different drive variants and turn/gripper modules complete the fully equipped handling modules. The ability to use electric actuators in any combination also increases the versatility for cost-effective adaptations.

Fresh food
Dry & snack foods
Bakery & biscuits
Beverage (alcoholic, non-alcoholic, dairy, oil & CSD)
Pharmaceuticals
Ready meals
Confectionary
Liquid & canned food
Cosmetics & healthcare
Homecare & other
Your needs as a machine user …

... our future-proof answers

High flexibility

Proximity sensing allows for simple, performance-oriented control for your machine.

High performance

Our controller platform supports the most demanding motion and robotic applications.

Flexibility

Rapid, single-axis perception control, intuitive design and powerful data control. The entire network can use the fastest real-time Ethernet-based fieldbus available. Just one Ethernet connection is required when combining high-performance motion and robotic kinematics.

Maintenance

With such a deterministic solution, high-performance machine (combining high-performance motion and robotic kinematics) needs a non-Omron automation products for you – openness also means easy integration of non-Omron automation products.

Simplicity

You need simplicity in your machine's automation solutions – it will minimize your development time and maximize your ROI.

Enhanced safety

Flexible safety: choosing safety components, systems and solutions that meet the personal safety of your work colleagues and your company needs. Safety is a key factor that sets your machine apart from your competitors.

Flexible safety

With Omron's diverse safety systems and solutions, you can be sure that your machine's safety is as robust as it is required. We offer the precision, flexibility, and reliability that you need. You want safety, we have your solution.
We have people to support you ...

... and your customers

Share your ideas with our sales representatives. They have the experience and competence, and are empowered to make decisions. Thousands of OEMs have put their trust in our people. Find out how you can also benefit – just give us a call.

As your project matures make use of our Automation centers to test and catch-up with technology trends in motion, robotics, networking, safety, quality control etc. Make use of our Tsunagi (connectivity) laboratory to interface, test and validate your complete system with our new machine network (EtherCAT) and factory network (EtherNet/IP).

As soon as our involvement starts, a dedicated application engineer is appointed to coordinate all of the technical aspects of your project. Our engineers have in-depth expertise in and knowledge of networks, PLCs, motion, safety and HMIs when applied to machine automation.

During your prototyping phase you will need flexibility in technical support, product supply and product exchange. For those reasons, we will assign a dedicated Customer Service member, available to handle all logistic enquiries and to ensure you can keep your mind on the real issues.

As a global manufacturer, we can provide our services anywhere in the world. Wherever you are installing your machines, we can arrange, on-site, a liaison sales engineer to facilitate training, spare parts supply or even machine commissioning. All this in the local language with local documentation – giving you complete peace of mind.

Thanks to our relationships with packaging associations and universities, we are able to keep always informed on machine builders needs and to support customers with state of the art solutions.
Your specialist automation partner ...

Providing solutions is all about skilled people ...

At Omron, we believe that assisting you with a hands-on approach benefits both you and ourselves. When we assist you in integrating automation solutions we gain key insights to your challenges – knowledge that not only enables us to provide the most optimized solution but also helps us evolve our future products and services.

That’s why our engineers are totally committed to providing you with flexible solutions that include more intuitive and advanced control, more real-time continuous-motion operation, easier robotic and vision integration, and more recipe driven changeovers that take place at the touch of a screen. Our expertise is yours. Use it to turn your ideas into solutions.

... and quality products

Having a wide selection of products is vital for best-fit solutions. But having high-quality products with extremely low failure rates is essential for your profitability. Fortunately, Omron gives you both, and sets the standards in reliability and robustness in the harshest of environments.

... in packaging machinery
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Would you like to know more?

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