

Yogurt packaging made 30% faster

Thanks to off-the-shelf anti-sloshing solution

“We were totally surprised. Although we didn’t ask for it, Omron’s Field Application Engineer pro-actively made our machine a lot faster and a lot more valuable – overnight.”

Jean-Philippe Varenne, CEO PACKINOV

The French packaging machine manufacturer, PACKINOV, asked our local service department to collaborate with them on developing a new machine. They especially wanted high levels of compactness and cost-efficiency. PACKINOV not only got the expertise it expected, but also a mini-revolution in machine performance: an increase in packaging speed of more than 30%.

“I had been assigned to work with PACKINOV engineers onsite to see where we could help and reducing the machine’s size and cost,” says Omron Field Application Engineer, Régis Couchoud, “so naturally we looked at the components and materials and identified possible gains. Then it occurred to me that Omron’s vibration suppression technology could also reduce the machine’s cost of ownership – by making it more productive.”

Avoiding spillage is essential in F&B

Minimising sloshing in liquid-filling activities is highly desirable in the packaging industry, since the more you can minimise sloshing, the faster you can move products unsealed without spilling the liquid. In fact, avoiding spillages is even essential in the hygiene-conscious world of food and beverage.

Off-the-shelf solution for multiple recipes

Although anti-sloshing is highly desirable, deploying vibration suppression demands experience in software and control technology. Even when successful, the acceleration profile is good for just one recipe or liquid type. That is not the case with the solution implemented for PACKINOV. Our engineer downloaded the free Function Block and input some of the liquid’s parameters. The result was optimised anti-sloshing. What’s more, he also uploaded several recipes and liquid types. With an NA HMI end-user operators could change recipes with the touch of a few on-screen buttons, enabling one machine to package several different liquid products.



Smaller, faster, more economical – with Sysmac

The vibration control technology is made via our Sysmac integrated platform, which uses one connection, one software and one machine controller. This means that only one network is necessary for all machine functions including motion, safety, vision, robotics and sensing. Even better, since all the components and subsystems are automatically recognised by the single software environment, no addressing is necessary, and all parameters can be easily shared to reduce development time to an absolute minimum.



Award-winning innovation

PACKINOV's new yoghurt packaging machine, RMD Nano, was optimised in terms of size and cost-efficiency – as according to the original request. But the increased speed of packaging made possible by the Omron anti-sloshing technique was one of the reasons why it won the "Most innovative packaging machine" category at the 2016 CFIA Show in Rennes, France.



The RMD Nano is a multi-format rotary packaging machine performing dosing, sealing and cover laying. The anti-sloshing solution applied by our Field Application Engineer enabled the machine to run 30% faster with no chance of sloshing and product spillage.

About Packinov

Packinov is a French company based in Béligneux near Lyon. Established in 1997, the company designs and manufactures machinery to package liquid, pastry, and solid products into rigid containers. Both automated and semi-automated packaging machines are manufactured suitable for use in the food processing, cosmetic, pharmaceutical and chemical industries.

About Omron

Omron Europe subsidiary of the Omron Corporation, a global leader in the field of automation. Established in 1933, Omron has more than 37,000 employees in over 36 countries working to provide products and services to customers in a variety of fields including industrial automation, electronic components industries, and healthcare. Omron Electronics Ltd provides a comprehensive sales and support service for Omron's vast range of industrial automation products including industrial components, sensing and safety, automation systems and drives.