# focus FachPack

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#### Sustainability

"Numerous affected companies failed to do their homework"



#### Packaging technology

Mixing cereals and nuts with a multihead scale



## Packaging printing

Edelmann: Digital printing for mainstream packaging applications









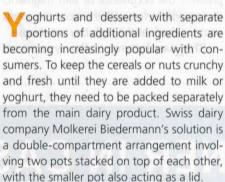
**♥** FachPack

Ishida: Hall 2, booth 413

# Mixing cereals and nu with a multihead weigh

Molkerei Biedermann has recently installed a multihead weigher for handling nuts and cereals, which are packed as separate portions to accompany yoghurts and desserts. Growing demand had led the company to seek an automated and more accurate weighing and filling solution. The new installation means the dairy can now process a diverse range of product mixtures.

The cereals are transported evenly from the vibrating dispersion table to the hoppers



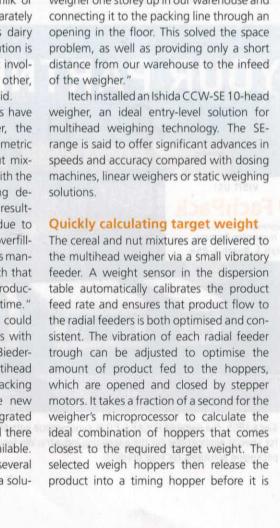
These double-compartment packs have proved extremely popular. However, the company found that its existing volumetric dosing system for the cereal and nut mixtures was no longer able to keep up with the throughput necessary to meet rising demand. In particular, volumetric dosing resulted in very high product giveaway due to overfilling. "We were experiencing overfilling of up to 30%," explains operations manager Mario Dux. "We could cope with that when quantities were small, but our production volumes are getting bigger all the time."

To make sure that the company could weigh its high-value nuts and cereals with much greater accuracy, Molkerei Biedermann decided to invest in a multihead weigher. However, upgrading its packing process presented a challenge. The new multihead weigher had to be integrated with the existing rotary cup filler and there was only a small amount of space available.

Biedermann made enquiries with several multihead suppliers before choosing a solution from Itech AG in Rotkreuz, which represents Ishida in Switzerland. Explaining the decision, Mario Dux says: "Itech AG had the excellent idea of positioning the multihead weigher one storey up in our warehouse and of the weigher."

A top-cup product by Molkerei Biedermann: Organic dessert cream with hazelnuts





transferred through a funnel into the rotary pot filler. Molkerei Biedermann is currently using the Ishida multicaptionhead to handle five different products at target weights from 14 g to 25 g and with pinpoint accuracy: the standard deviation for a 25 g weight, for example, is just 0.165 g. "The Ishida weigher has a sensational 99% efficiency rating," confirms Dux.

The rotary filler's fill rate of 25 portions per minute currently dictates the speed of the line, which is well below the weigher's capability of up to 70 weighments per minute.

The new weighing and packing solution offers a range of other benefits. While the old filling system led to many line stoppages, the Ishida multihead weigher has not caused a single fault. "What used to happen was that the different product mixtures would get blocked in the funnel during dosing, which interrupted the filling process," says Mario Dux.

Today, thanks to its Ishida multihead weigher, Molkerei Biedermann can process these tricky products without any hassle. Equally important, the flexibility that this has given the manufacturer has opened up opportunities to implement new product ideas from the marketing department.

Another benefit is the fact that this new weighing and filling solution has significantly reduced product breakages as the system is able to transfer the product more gently into the pots.

### Small batches call for quick changeovers

The dairy makes its double-compartment products in relatively small batches. To keep the product fresh for longer, the company aims to weigh and pack the product just before it is due for delivery to customers, meaning that product changeovers are frequent. With the new weigher, changing products by calling up pre-sets at the touch of a button on the touch screen display has proved to be a valuable time-saver. To minimise downtime for cleaning, all contact parts can be removed and replaced without the use of tools.

Something else that the customer found remarkable was the fact that no sooner had it been installed, the full weighing and filling system was already running smoothly. Overall, therefore, Mario Dux is very happy with the new installation, commenting that "the level of automation was a huge step forward for us."



Responsible in the project: plant manager Mario Dux (left) and team leader Christian Lemmermeier



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