

Packaging line including case packer VSK12-TWIN

Company VELTEKO is mainly well known as producer of highly-efficiency and reliable vertical FFS packaging machinery, however machines for group packing of bags into cartons – so called “case packers” now take an important position in the portfolio of VELTEKO’s product line as well.

Although these machines are not inexpensive, their installation into packaging system is very effective, especially if there are two and more packaging machines in a packing system. In this case it is possible to consolidate their operation and based on our experiences up to four packaging machines with speed of 60 bags/min and two case packers can be operated by two people only. Without use of automated case packing a packaging line would typically be manned by ca. 8 people. If the packaging lines are in operation in multiple shift operation, the efficiency of using automated case packing solutions are quickly justified.

Elimination of physically demanding or repetitive work is another reason for implementation of automated case packers into the packaging line, especially if the packed bags are of heavier weight – for example bags of several kilograms of petfood.

Seventeen packaging lines equipped with automated case packers made by company VELTEKO are in operation in the Czech Republic. The oldest four case packers have been running reliably in three-shift operation for more than 13 years!

Case packers of serie VSK12 made by company VELTEKO can place the incoming bags on infeed conveyors from the various packaging machines in single file or in multiples in lay down orientation into the



case. Placement is ensured by a positive rotary transfer head with draft (vacuum) tube. Velteko Case Packers can be prepared for integration with various types of machines, including case erecting and closing.

VELTEKO has now introduced a brand new case packer VSK12-TWIN. TWIN execution enables one case packer to be equipped with two input conveyors for twin infeed of bags, enabling the grouping of bags from two different packaging machines at one time. The space saving and lower price as compared with two separate case packers are the benefit of this twin model. This is enabled by the use of a single point control system and by simpler mechanical machine design.

Complete packaging line consisting of two packaging machines HSV101B FLEXIBLE with multihead weighers, a case packer VSK12-TWIN, carton erector, machine for case closing and input and output conveyors has been delivered to our Russian customer for packing of breakfast biscuits (bags for 350 g up to 500 g, bag width of 250 mm, bag length of 270–320 mm, 12 bags in cartons (dimensions 380×385×275mm). The packaging line runs at a production output of 100 bags/min. ■

Auger Dosing Weigher HS.S1A

Fill accuracy is very often problematic by volumetric dosing of larger doses of dusty powders. This is caused mainly by variation of powder density of dosed products. This problem is substantially reduced by our new auger dosing weigher HS.S1A made by company VELTEKO.

This new innovation in our VELTEKO program combines the proven principles of both volumetric and weigh dosing. The proven auger filler DOS 2A/B, is mounted in a special frame on tensometer sensing elements, which is the basis of the new Auger Dosing Weigher. This combination system operates so that the doser is filled by product is initially weighted and after that the weigher starts to fill the bags or another package by standard dosing auger. The difference between initial and actual weight of doser is continuously followed-up during this operation. As soon as the requested dose is reached, the auger stops and the hopper of the doser is filled again by product and the doser is again weighed.

Advantages

- Optimal possibility of weigh dosing of powders with unstable powder density into vertical form, fill and seal packaging machines. Thanks to closed product way between filler and package the auger weigher eliminates the dusty conditions around the weigher which is a common problem when using a typical dosing weigher with weigh buckets.
- Ideal solution for dosing of powders in large doses (5–40 dm³).
- Guaranteed accuracy including the first and last doses as well – accuracy does not depend on keeping product level (head pressure) as it is common with standard auger filler technology.
- Minimum of waste – Auger Weigher solves problem of accurate dosing of powders in dosing a wide range of products in small batches and requires that no product remains in hopper after dosing.
- Possibility of dosing by weighing only, volumetric only or by a combination of both.

The new VELTEKO Auger Weigher can be integrated with various packaging machinery types, but it may also be used as a stand-alone unit for manual filling applications.



Technical parameters

Maximum dose volume	40 dm ³
Maximum dose weight	50 kg
Maximum diameter of auger	Ø95 mm
Dosing accuracy	up to ±0,2%
Maximum speed	10 doses/min. (weighing) 80 doses/min. (volumetric dosing)

