**The way out of the dilemma**

**Further development of dosing machine for non-pumpable products**

The delicatessen salad industry is an industrial sector which launched many new trend products on the market in the past years. In addition to mayonnaise-based, pumpable salads a diverse selection of products such as couscous salad, bulgur salad, flaked tuna salad as well as traditional products like ox-muzzle salad found their way onto the supermarket shelves. These products have one thing in common: they are not pumpable and therefore cannot be filled with a standard piston filler.

More than ten years ago the mechanical engineering company Grunwald developed the stationary dosing machine Flexodos for filling non-pumpable free-flowing products. At that that time the demand for the fully-automatic filling of products which could have been filled with this special dosing machine was rather lowl. In the meanwhile the market and the purchase behaviour of the final consumers changed. The need for machines for filling non-pumpable products increased considerably which follows which goes along with the current trend and is in accordance with market requirements reworked this filling machine from the design point of view, updated it technically and facilitated its handling.

The new design of the advanced dosing machine Grunwald-Flexodos is more compact and it disposes of the advantages of a mobile filler. This dosing machine was equipped with up-to-date electronics and the latest technology. It can be cleaned easily and without much effort. Its compact design and thus the low space requirements are further important advantages.

The functioning of this mobile bulk filler is based on volumetric filling. This functional principle thus also guarantees the smooth filling of non-pumpable products.

The mobile dosing machine can be connected to / disconnected from the filling machine without much effort and without tools. This mobile dosing machine is just pushed into the dock-in station of the cup filling machine, locked and connected to the cup filling machine – and production can be started immediately.

The products are fed from the filled hopper to the filling chamber via the product feeding auger. The cup which had been denested in the cup ring of the cup filling machine is lifted. After the volumetric measuring the product in the filling chamber is pushed into the lifted cup. This guarantees ideal product distribution in the cup.

The combination of cup filling machine and mobile filler allows for a **very easy chang**eover on the cup filling machine and a **product change** which can be carried out within **less than 5 minutes**. If two mobile dosing machines are used the filling machine will be **free of allergen** in less than 5 minutes due to the exchange of the complete filler.

The Flexodos can be cleaned independently of the machine and outside the production room. These are advantages which guarantee a high degree of flexibility and a careful, time-saving continuation of daily production!

**Flexibility in use**

Frequent product and format changes for product diversity in daily production as well as high machine availability and easy operation of the filling machine are one of the most important criteria of the food industry for investments in new filling and packing machines.

The mechanical engineering company from Wangen in the Allgaeu offers an interesting and flexible solution for the individual requirements: the combination of Grunwald cup filling machines with the mobile dosing machine Mobifill and Flexodos. The enormous advantage of this exceedingly high flexibility in use is that both mobile dosing machines are interchangeable 1:1! This means the same dock-in station can be used for both dosing machines – without modification and without complex technical installations.

Due to this machine combination Grunwald cup filling machines are suitabable for filling both pumpable and non-pumpable products. This high flexibility in use offers an enormous extension of the product diversity and is an important investment criterion for many customers.

www.grunwald-wangen.de

Captions:

Grunwald-Flexodos27458.jpg

*On the left of the photo: GRUNWALD-FLEXODOS for non-pumpable, free-flowing products in stand-by position:*

*The mobile piston filler type MOBIFILL for pumpable products is connected to the dock-in station of the cup filling machine GRUNWALD-ROTARY 12.000*

Grunwald-Flexodos27437.jpg

*The mobile bulk filler is based on the principle of volumetric filling. This functional principle guarantees the careful treatment of products which are non-pumpable.*