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Heye Servo Plunger

HEYE INTERNATIONAL

Manufacturer's benefit of multi weight production

ASSORTMENT PRODUCTION MASTERS EVER INCREASING DEMANDS

Since the development and successful market launch of the Heye Multi Weight solution in 2008 (also called 'assortment production'), market demands have continued to increase. Heye has successfully met customers' requirements by continuously developing this product. The multi weight solution masters a variety of scenarios applied by container manufacturers, and makes production much more efficient to what was possible prior to the introduction of this technique.

UNIQUE ADVANTAGES

The system finds practical applications both in the sampling of new containers and in the production of smaller quantities, which are considerably less expensive when running assortment production.

In the past, sampling procedures counteracted yields of an entire production line for hours or even for an entire shift. With the use of this latest technique it is possible to carry out sampling of new articles on one or two sections while keeping the remaining

sections running in normal production routine. Not one single gob is being wasted nor rejected.

The outstanding benefit of this multi weight technology is efficiency of short job runs. In general, short job runs are produced when consumers request high-end articles (i.e. perfume bottles). It is evident that common bottles, such as for beer or water, reach a much wider market in quantity compared to more luxury filling materials such as spirits or perfume. Consequently, multi weight tech-

The production of a small quantity of different products has always been an issue for the container glass industry.

The IS machine had to be completely stopped and reconfigured. In addition, the whole production run had to be turned over to the other article and more moulds than necessary had to be purchased for these low-volume items.

Downtime was very costly and production efficiency suffered greatly. Today, gobs of different weights can efficiently be produced on the same IS machine simultaneously.

A Smart Plant combines the best Industry 4.0 concepts



Realized project of weight difference more than 200 grams

nology makes production particularly interesting for manufacturers not only with regards to sampling procedures, but above all when it comes to the request of cost-effective production of these smaller quantities.

ANSWERS FROM THE EXPERTS

Which maximum weight differences can be handled?

This finally depends on the article that is to be produced and must be assessed in each individual case. In general, assortment production can be realized at a weight difference of 10 per cent to 20 per cent. The lower the basic weight, the better to keep this figure. In the past, multi weight productions with 280 grams and 304 grams, as well as 256 grams and 280 grams, were successfully

realized. Today, due to constant development of the software in cooperation with different customers, assortment production with weight differences of over 200 grams are possible under certain conditions (e.g. 610 grams and 825 grams).

How can assortment production be implemented?

Heye developed a software solution especially for running multi weight production. Furthermore, manufacturers need the Heye servo drive control unit in conjunction with the servo plunger and dual motor shears to be able to accept those lucrative low-volume orders from the fillers. With the use of modern hardware technology, in conjunction with intelligently designed software, it is, today, feasible to deploy resources and energy much more efficiently than it was possible with less sophisticated techniques in the past. ■

HEYE INTERNATIONAL

Based at Obernkirchen, Germany, Heye International GmbH is one of the international glass container industry's foremost suppliers of production technology, high performance equipment and production knowhow. Its mechanical engineering has set industry standards for more than five decades. Extensive industry expertise, combined with the positive attitude and enthusiasm of Heye International employees is mirrored by the company motto 'We are Glass People'. Its three sub-brands HiPERFORM, HiSHIELD and HiTRUST form the Heye International Smart Plant portfolio, addressing the glass industry's hot end, cold end and service requirements respectively.

Different weights on one IS machine

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