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White Paper: Packaging Machines

Packaging with ZAHORANSKY

The positioning of blister packaging machines of ZAHORANSKY is mainly aligned with the markets of electrical engineering, moulds, cosmetic and personal care products.

Whether full blister, double blister, partial blister, clamshell blister, stand-up blister or multipacks: ZAHORANSKY constructs blister machines with Black Forest Quality for a wide range of applications. Flexible packaging machines which can be retrofitted and upgraded according to customer's specifications, at any time: That's the basic principle shared by all blister packaging machines made by ZAHORANSKY.

A blister to match almost every product - Z.PACK Series

The new Z.PACK series is the ideal packaging machine for all non-food products such as stationery, batteries, tools, adhesives, lighting appliances, electrical components, toilet cleaners and many more. The Z.PACK machines are also the perfect choice for cosmetic and hygiene products.

Every machine of the Z.PACK series can be rapidly and reproducibly refitted to a different size or format. Excellent accessibility with generously dimensioned machine guard doors with wide opening angles ensure short setup times. At customer's request, the chain

adjustment can be designed with a central spindle. Changing the size parts is also easy thanks to the no tool, quick-change system. Depending on the format, a change can be completed within just 30 minutes – a major advantage especially for contract packers having to cope with many different formats.

The Z.PACK blister packaging machine is put together exactly according to customer requirements. It includes all the basic functions for producing blister packaging. It can be upgraded with additional modules for supplementary functions such as the insertion of leaflets, for blind embossing or visual monitoring. The result is your very own customized, highly efficient blister machine.

The chain length defines the model designation: Z.PACK 4 (4 m), Z.PACK 5 (5 m), Z.PACK 6 (6 m), Z.PACK 8 (8 m) and Z.PACK 11 (11 m).

Perfect for beginners - Z.PACK 4 and Z.PACK 5

Two performance classes for different format ranges allow the customised design for every product to be packed.

Z.PACK 4 and Z.PACK 5 are particularly compact. They are the number one choice if little space is available and low investment costs are required. The maximum format area of both these machines is 192 x 290 mm with a drawing depth of 40 mm with an option to enlarge up to 60 mm. The performance is 20 cycles per minute.



Unit for production of double blister

This fully automated unit is based on a Z.PACK 4 and a Z.PACK 5 blister packaging machine. The outstanding feature of both machines is their compact type of construction, making them the first choice if efficiency and price-performance ratio are decisive.



On the Z.PACK 4 the upper parts of the double blisters are produced. At the end of the intermittent process one cycle of the blister machine is cut and turned by 180° with a standardised linear unit. Subsequently, the blister is controlled and orientated transferred with a shuttle and a Pick & Place unit to the Z.PACK 5 machine. Then, the precisely fitting half-shells are put on the filled bottom shells that have been meanwhile produced by the Z.PACK 5 blister unit.

Both blister halves are in correct position, now, to be sealed by an ultrasonic sealing unit, the heart of the system. Compared to conventional sealing technologies, this innovative application of the ultrasonic technology reduces energy consumption considerably. A further reason to use this technology here.

For every requirement – Z.PACK 6 to Z.PACK 11

The maximum format area in the larger models Z.PACK 6 to Z.PACK 11 is 282 x 290 mm and the maximum drawing depth is 40 mm, optionally 60 mm. These machines reach a capacity of as many as 25 cycles per minute. The stations feature a standard servo-drive. Servo engineering offers significant benefits in energy savings. Energy measurement functions provide extra protection for the cutting tools against damage caused by wrongly inserted products. If required, the sealing station can also be fitted with servo motors for better and more individual processes.



Wide variety for additional automation solutions

Z.PACK machines are especially attractive due to their wide variety of additional automation solutions. These solutions are available both for the feed-in and the final packaging range. Semi-automatic feed-in solutions increase the efficiency of the system.

One outstanding feature is the carousel system with trays made in product shape which has been developed by ZAHORANSKY.

A Pick & Place system automatically places the products in the blister with proper alignment. As there is always a parts buffer available, the machine can be operated with maximum cycle frequency which, in turn, delivers a higher output rate.

ZAHORANSKY also offers the matching peripheral systems such as labelling systems, packing controls with automatic ejection as well as transfer units.

High-performance - Z.VIPA

The Z.VIPA high performance packaging machine packs products in part or double carton blisters. The Z.VIPA is ideal for packing small part products in medium and large batch sizes.



A high output rate is an outstanding feature. A cycle time of as much as 20 cycles per minute is a top value. Many saving potentials went into the development of this new machine. Among these are a low foil material usage; depending on material and design, even zero waste production is possible.

The consistently used modular principle of the system allows for an extremely short setting time of just 15 minutes. It also enables the easy and individual adaptation to various complex handling and processing requirements for a wide variety of different products. Many add-ons for almost every conceivable need and requirement are offered; among these:

- Leaflet inserter for the fully automated insertion of folded brochures and other information into the packaging
- Stamping or embossing of a code at the edge of the packaging using a pneumatic stamping module
- Completeness check by a sensor camera system or by an integrated weighing system for several small parts

- Labeling or marking with inkjet or laser
- Pick & Place makeup to align finished blisters and to feed them to downstream processes.
- Perforation to rip out individual blisters of a hanger blister.

System Solutions – all from one single source

The perfect integration of the packaging machine into a complex, interconnected and powerful production system is also no problem for ZAHORANSKY. The System Engineering business division has plenty of experience in the realisation of the most varied automation solutions, beginning from different product infeeding right through to final, ready for shipment packaging by external cartoning machines.

Photos (Source: ZAHORANSKY AG)

[Z.PACK 4](#)

[Z.PACK 4 + 5](#)

[Z.PACK 6](#)

[Z.VIPA](#)

[Z.PACK 8 + Z.SIROC](#)

