



## **BERHALTER stands for die-cutting technology**

Berhalter is known worldwide for flexible, efficient and innovative die-cutting solutions. More than 50 years of experience and continuous quality development have allowed us to grow into a dynamic company in the packaging materials industry.

As the leading manufacturer of high-performance roll-fed flat-bed die-cutting systems with our own tool-making shop, we are a reliable partner for our customers in terms of the complete die-cutting process. BERHALTER die-cutting machines with the seal of quality - Made in Switzerland – guarantee the highest level of efficiency and productivity.

In addition to the highly efficient die-cutting process, the handling of die-cut lids or labels on BERHALTER die-cutting machines is also unique. Highly wear-resistant precision die-cutting tools round out the complete one-stop-shopping solution and combine optimal utilisation of materials with high production output.

### **Unlimited technological edge**

BERHALTER die-cutting systems are employed successfully worldwide for the production of flat and deep-drawn packaging lids, as well as labels and in-mould labels, and they satisfy all important and future requirements. In-mould labelling is not a temporary trend for BERHALTER, but an expression of continuous development going back more than 25 years. The web tension is monitored and regulated entirely automatically. The result is an absolute feed accuracy of the labels, which is crucial for the faultless functioning of the feed and injection-moulding systems as well as for the attractiveness of the final product. For optimising costs Berhalter has been processing and die-cutting 38 µ IML substrate and even thinner films since many years already.

Multi-station punching tools make die-cutting even more efficient by using various additional operations. They are used throughout the world for the following punching applications:

- flat aluminium lids
- deep-drawn aluminium lids
- flat plastic lids
- labels made of composite materials (e.g. coex coating)
- labels for IML applications (e.g. BOPP 38 µm)
- paper labels and labels made of light cardboard

### **Optimal separation**

Important additional finishing, such as the embossing/refining of a surface structure for better separation and flatness features or the application of a micro-perforation, constitutes other economic advantages that are offered by a BERHALTER die-cutting system. The widest range of embossing structures can be integrated and changed directly on the BERHALTER die-cutting machines within minutes thanks to the special quick-exchange embossing units. The surface-embossing structure means that the individually die-cut lids do not stick to one another (vacuum effect) during the automatic unstacking and separation processes for the bottling and sealing machines, and they can be unstacked in an optimal way. Likewise, with BERHALTER



embossing units, customer-specific design, image and embossing structures can be stamped into the lid foil.

### **Perfectly flat lids**

For a high degree of production stability it is important that so-called curling can be influenced and corrected when it comes to aluminium and composite lids. With its cutting and finishing device, as well as the newly developed DEcurler<sup>TM</sup>, BERHALTER offers two systems that can be used individually or simultaneously for improved flatness. BERHALTER die-cutting machines are notable for their virtually non-contact die-cutting actions with a male/female system, which is ideal for the avoidance of static charges when working with polyester lids or IML labels. To guarantee the highest level of process reliability, additional anti-static devices are available before, during and after the die-cutting process.

### **Unique process reliability**

BERHALTER die-cutting machines can be equipped with additional options such as PRINTinspect<sup>TM</sup> 100% print image inspection and a WEBinspect<sup>TM</sup> 100% surface inspection system, providing further essential product optimisations for the customer. For the first time, it is possible to check the print and foil quality directly inline on a die-cutting machine and to reject faulty materials before cutting.

### **Automatic REELsplicer<sup>TM</sup>**

Our automatic “in-register” REELsplicer<sup>TM</sup> reel changer improves the production capacity of Berhalter high-performance die-cutting machines through increased machine utilisation, but also provides more time for quality control and reduces waste. The non-stop unwinding of the REELsplicer<sup>TM</sup> guarantees a consistent tension during reel splicing. The edge-to-edge splicing unit separates the web with a precise cut and applies the splicing tape without overlapping at the same time. The “in register” feature verifies the position of the running material and the automatic web guiding systems guarantees that the materials are perfectly aligned for splicing. Trouble-free and intelligent material handling is a prerequisite for the productivity level expected today.

### **Flexible packaging solutions**

BERHALTER high-performance die-cutting systems are tuned precisely to the production needs of our customers. Nevertheless, our flexible modular construction system allows for individual adjustments to existing or new production concepts at any time. Using the BERHALTER punching system, it is possible to realise every marketing and customer solution without having to impose restrictions in terms of the choice and design of the packaging materials.

Nothing is more convincing than one's own experience. Berhalter creates top quality products with inspiration, passion and fascination. Visit our showroom in Widnau, Switzerland, and experience our latest generation of die-cutting machines with their unique options and innovations.

### **BERHALTER – the number one in die-cutting**