GOOD, BETTER, BERHALTER

one comple die-cutting solution from one single source
swiss quality
the number one in die-cutting

die-cutting
BERHALTER®
S W I T Z E R L A N D

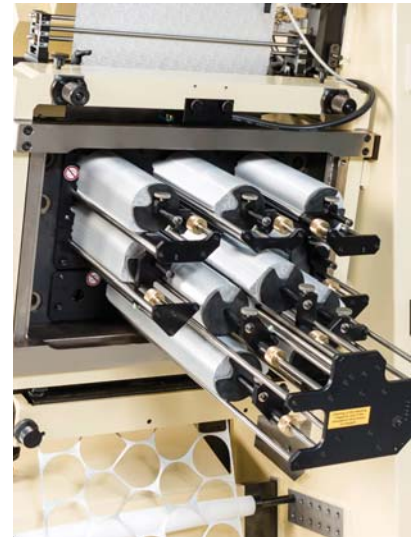# Efficient die-cutting system
it's possible - die-cutting by BERHALTER

die-cutting press

BERHALTER® Swiss Die-Cutter B 350 and B 500
high-performance flat-bed die-cutting press

Standard machine B 500

Machine B 500 with REELsplicer™, PRINTinspect™, WEBinspect™, WEBslitter™ and BEAMstack™

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product information

	B 350	B 500
Performance data		
Web width	up to 350 mm	up to 520 mm
Cutting area	350 x 392 mm	500 x 392 mm
Tool area	350 x 392 mm	520 x 392 mm
Feed length	30 - 370 mm	30 - 370 mm
Output	1 - 400 strokes/ min*	1 - 400 strokes/ min*
Roll outer diameter	max. 800 mm	max. 800 mm
* depending on web-layout, feed length and foil/film specification		
Highlights		
Highly dynamic servo drive concept	included	included
Feed to register marks (printed material)	included	included
Number of feed units	3 units included	4 units included
Number of servo drives	6	8
1 special trolley for tool and roll exchange up to 400 kg	included	included
Splice waste controlling system	included	included
Servo driven ejecting system	included	included
Counting and marking system	included / optional	included / optional
Edge and line guiding system	optional	included
Accessories		
mobile web evacuation system	optional	optional
embossing unit for in-line embossing	optional	optional
varnish checking system	optional	optional
deep drawing equipment	optional	optional
set for prevention of static charge	optional	optional
Innovations		
BERHALTER WEBinspect™ - web surface inspection system	optional	optional
BERHALTER PRINTinspect™ - print inspection system	optional	optional
BERHALTER WEBslitter™ - production enhancement	optional	optional
BERHALTER BEAMstack™ - robot handling-/ packing system	optional	optional
BERHALTER REELsplicer™ - automatic reel changing system	optional	optional
BERHALTER PRElaser™ - laser cutting for additional functions	optional	optional

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die-cutting tools

BERHALTER® Swiss Die
high precision punching tools

We offer punching tools for all production volumes, from small to large production volumes. All cutting components, for the Swiss-Die ECO™, Swiss-Die PRO™ and Swiss-Die ULTIMATE™ are manufactured on the same production machines with the same accuracy. These dies are capable to die-cut nearly practically all flexible materials.
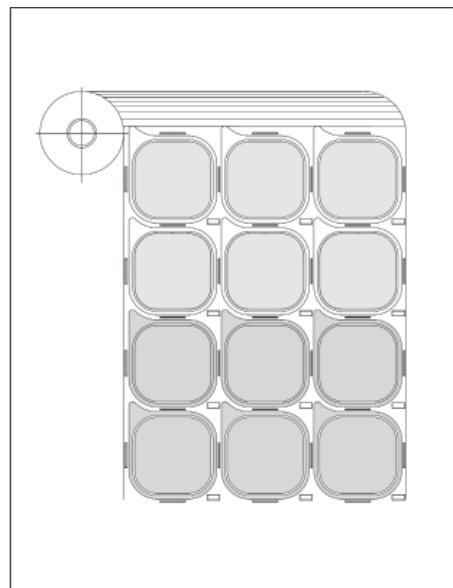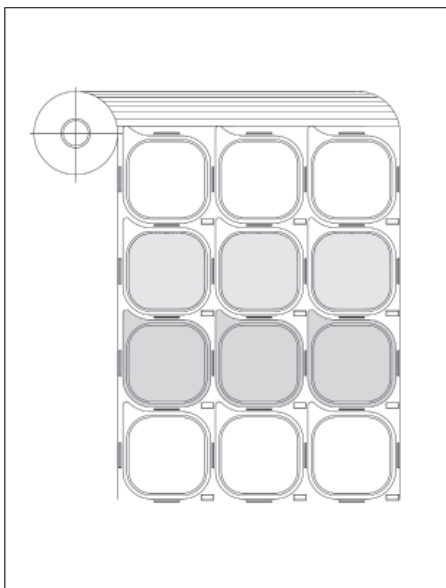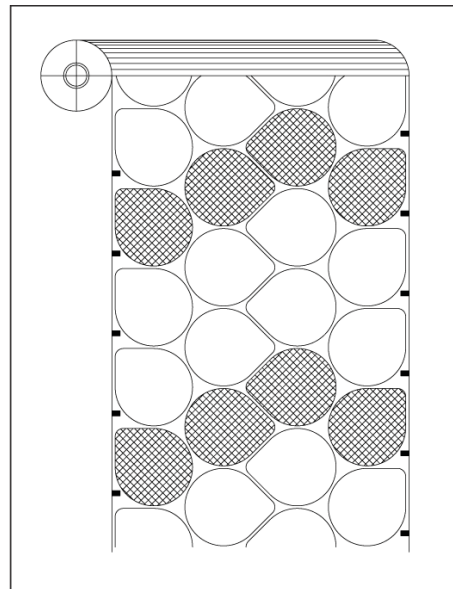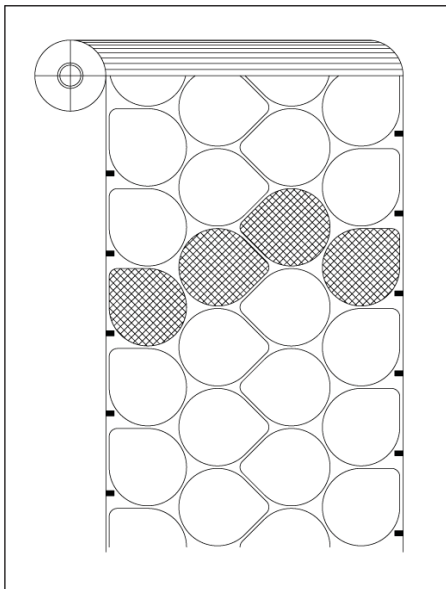
The punching tool are customized built, specifically for your demands, as yearly volumes to be die-cut, material specifications. Single row, double row cutting dies, multi-station cutting dies, for example with deep drawing, relief embossing or perforating station, stations for stabilizing rings, or ribbing for better grip properties when peeling – we have extensive experience.
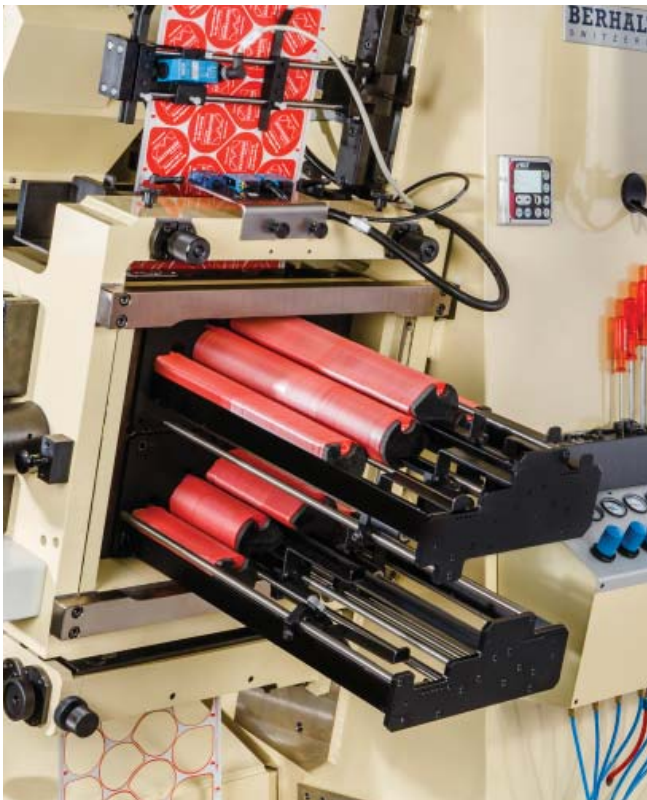
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double output / multiple station punching tool

- Double output
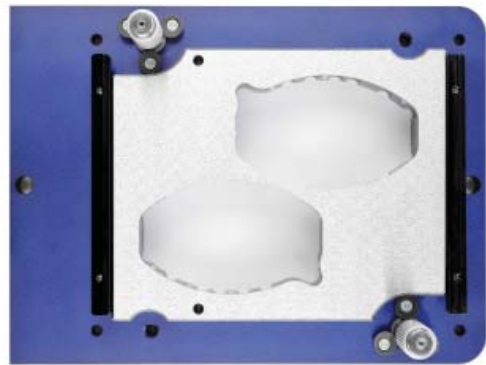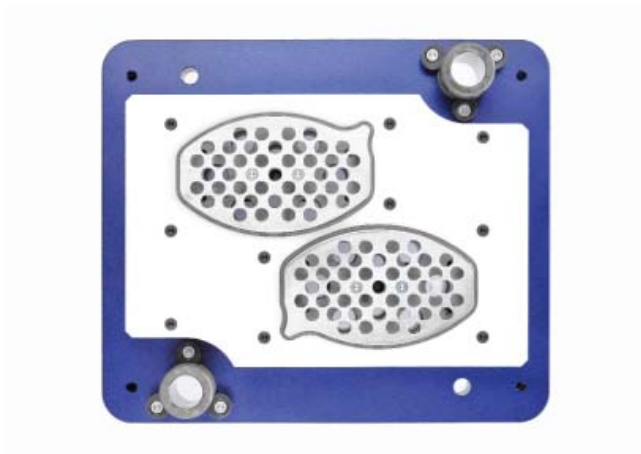- Deep-drawing station
- Relief embossing station
- Perforating station
- Pre-cut station
- Multi-station for additional devices as stabilizing rings, edge cuts, creases, ribs, etc.

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BERHALTER® Swiss Die ECO
for low volumes or qualification runs

This tool type is a favourable die system for low volume orders or qualification runs. This small punching tools can be mount with an adapter into the regular machine.

The cutting components for the Swiss-Die ECO™ are manufactured with the same quality standards as the regular production punching tools. These dies are capable to die-cut nearly all flexible materials. You may have also here multiple station dies as for example a station for a recess, perforation, pre-cut, etc.

machine type:	B 350	B 500
max. web width:	210 mm	350 mm
cutting area:	190 x 290 mm	330 x 290 mm

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BERHALTER® Swiss Die PRO & ULTIMATE
for medium/large volumes or critical materials

The cutting components are made out of high-resistant steel and are very precise allowing to cut beside standard materials thinnest and complex compound materials. The machine concept is the most efficient on the market - you obtain the highest output with single row dies.

Thanks to the large tool area you can even additionally increase the output with double row dies, we call it „double" output dies.
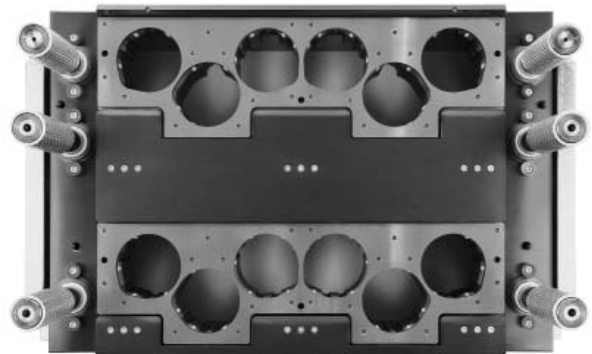
machine type:	B 350	B 500
max. web width:	350 mm	520 mm
cutting area:	350 x 392 mm	500 x 392 mm

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Application

BERHALTER® Versatility
advantages with all flexible materials

Berhalter is the major manufacturer of high-performance roll-fed flat-bed die-cutting systems for:

- Flat packaging lids out of aluminum
- Recessed packaging lids out of aluminum
- Flat packaging lids out of plastics
- In-Mold-Labels
- Blow-Mold-Labels
- Paper labels
- Transparent labels
- Seals
- Lids and labels out of compound materials
- Functional packaging with relief embossing, perforation, injection hole, grip tab, break-through-aid, etc.

aluminum
starting from 13 µ, plane, with
heat-seal-lacquer, laminated
or co-extruded layer

paper
plane or with hot melt,
compound material

plastic - lidding
starting from 36 µ, plane, with
heat-seal-lacquer, laminated
or co-extruded layer

plastic - IML
starting from 40 µ BOPP from
Treofan or transparent material
from Yupo, etc.

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output

flat lids out of aluminum or polyester

The machine concept is the most efficient on the market - you obtain the highest output with single row dies.
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POWER

deep drawn lids out of aluminum

The machine concept is the strongest built on the market - you are capable to deep draw and die-cut lids.
The machine has enough power to work also with „double" output dies. Today appr. 95 % of the pet-food lids worldwide are produced on our system.

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OPPORTUNITIES

hygienic lids out of aluminum

The machine concept is the most efficient on the market - you are capable to die-cut aluminum down to 12 μ. With new product ideas and tools, we can present to you optimised, creative channels and offer new possibilities and market opportunities.

cutting edge quality

in-mold-labels and blow-mold-labels

The machine concept ensures a very high cutting edge quality (free of burs). Additional measures allow to die-cut as low as 40 µ BOPP material (and even lower) without issues. You receive compact counted smooth stacks of labels.

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material consumption

paper labels

Paper labels e.g. for beer bottle neck labels can be arranged very narrow to reduce the waste as much as possible.
On one project (a chevron label) we could save appr. 50 % of material.

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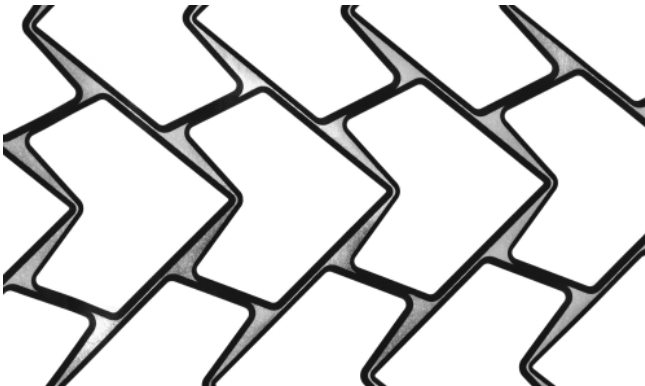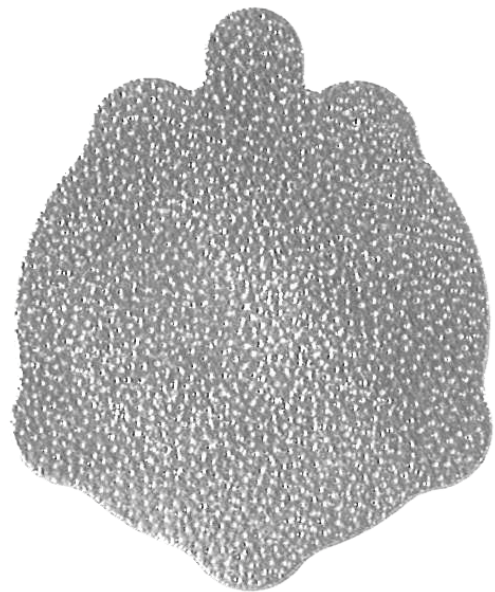
VERSATILITY

light cardboard labels

The machine concept is very versatile and ensures power, material savings and a very high cutting edge quality - all you need to die-cut light cardboard labels for ice cones, paper cups, etc.

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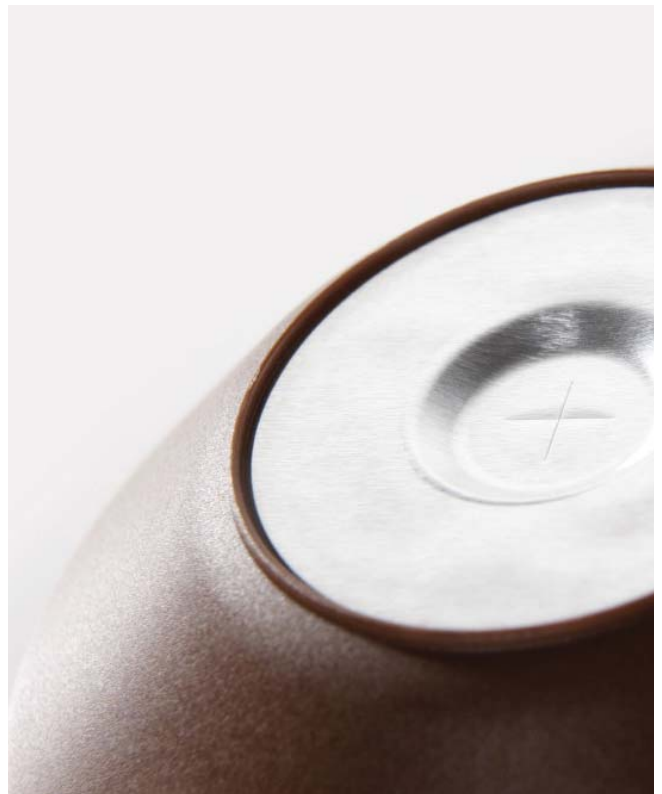
PERFECTION

seals

Different compound specifications can be die-cut with a high accuracy. The required power is available to die-cut also thicker materials.

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COMPETENCE / KNOWLEDGE

technical lids & labels

A long time of gaining experience for the success of our customers. We are the only manufacturer who produces the machine and the punching tools ourselves - one complete solution from a single source - one responsibility. If you need any specific function on your product such as perforation, pre-cuts, recess, relief, etc. - we can do it.
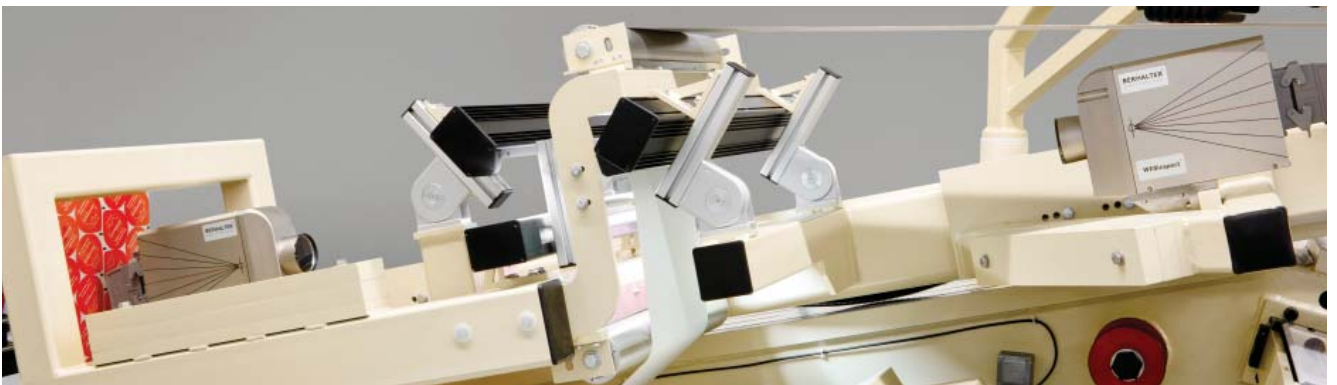

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WEBinspect™
pinhole and surface inspection system

This advanced inspection system analyses precisely the surface of foils and films, thereby detecting a variety of different defects such as rolling flaws, inclusions, scratches, marks, dents, coating flaws and friction lines. The **WEBinspect™** is a highly innovative inspection technology and can be integrated in all ongoing BERHALTER machines as a customized system package.

Detection of web/material faults like recurring flaws, inclusions, scratches, wrinkles, missing embossing and pinholes

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PRINTinspect™
100% print inspection system

The quality expectations of your customers are rising constantly. To achieve these requirements of the printing and converting industry BERHALTER offers a complete solution package with a state-of-the-art high-resolution inspection system called **PRINTinspect™**. One important advantage using the BERHALTER **PRINTinspect™** system is that the printing machine is no longer exposed to interruptions.

Detection of print defects like missing colours or letters, spots and splashes, register inaccuracies, blurs and streaks

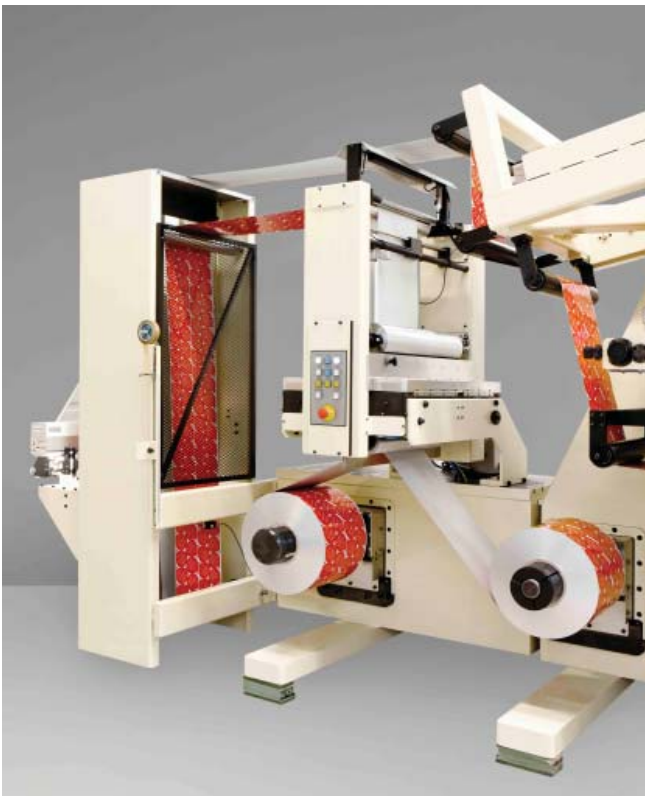**one complete die-cutting solution from one single source** ✚**swiss efficiency**

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WEBslitter™
production enhancement system

The BERHALTER production enhancement system **WEBslitter™** has been designed to increase the production. The **WEBslitter™** will be automatically activated once a BERHALTER inspection system detected faulty material and slits the plane material into narrow stripes for allowing an easy extraction.

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REELsplicer™
in-register reel changing and splicing system

BE ENDLESS

Our automatic "in-register" **REELsplicer™** 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 edge-to-edge splicing unit separates the web with a precise cut and applies the splicing tape without overlapping at the same time.
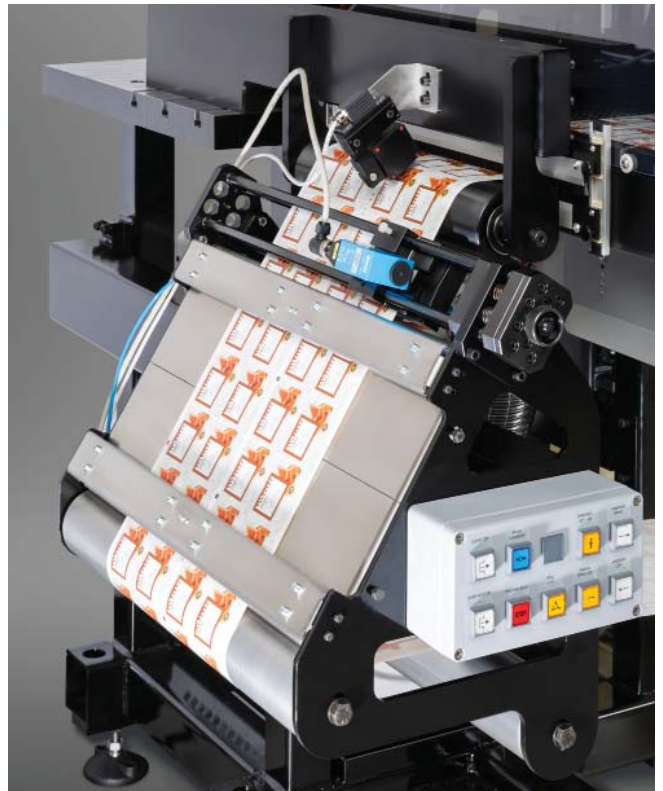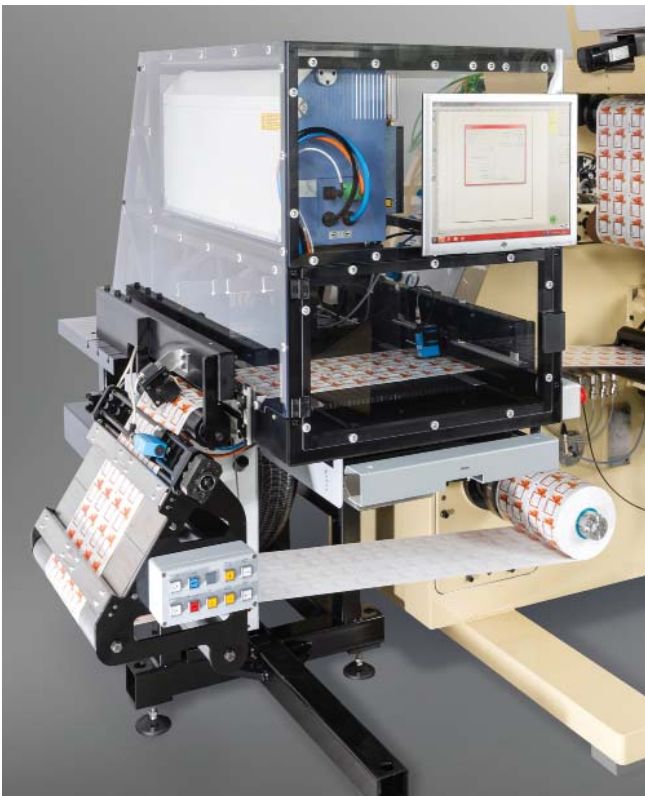
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PRElaser™
laser cutting system for additional function

BE FULL OF IDEAS

The BERHALTER **PRElaser™** laser technology can be used for various areas of application. One of the target markets is the so-called multipack yoghurt lids, which can now be pre-perforated using the **PRElaser™** so that the yoghurt pots can be individually snapped off and separated without the lid being unintentionally removed. **PRElaser™** can result in performance and efficiency increases of up to 35%.

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BEAMstack™

BE UNLIMITED

fully automatic handling and packaging system

The automatic **BEAMstack™** is a handling system for counting, separating and optimal handling of die-cut lids and label stacks.

Our **BEAMstack™** system separates a precisely counted lid or label stack and places the stack at a predefined position fully automatically. Therefore a perfect customer-specified, automatic packaging solution can be created, which results in significant personnel cost savings and increases production capacity and all with non-contamination.
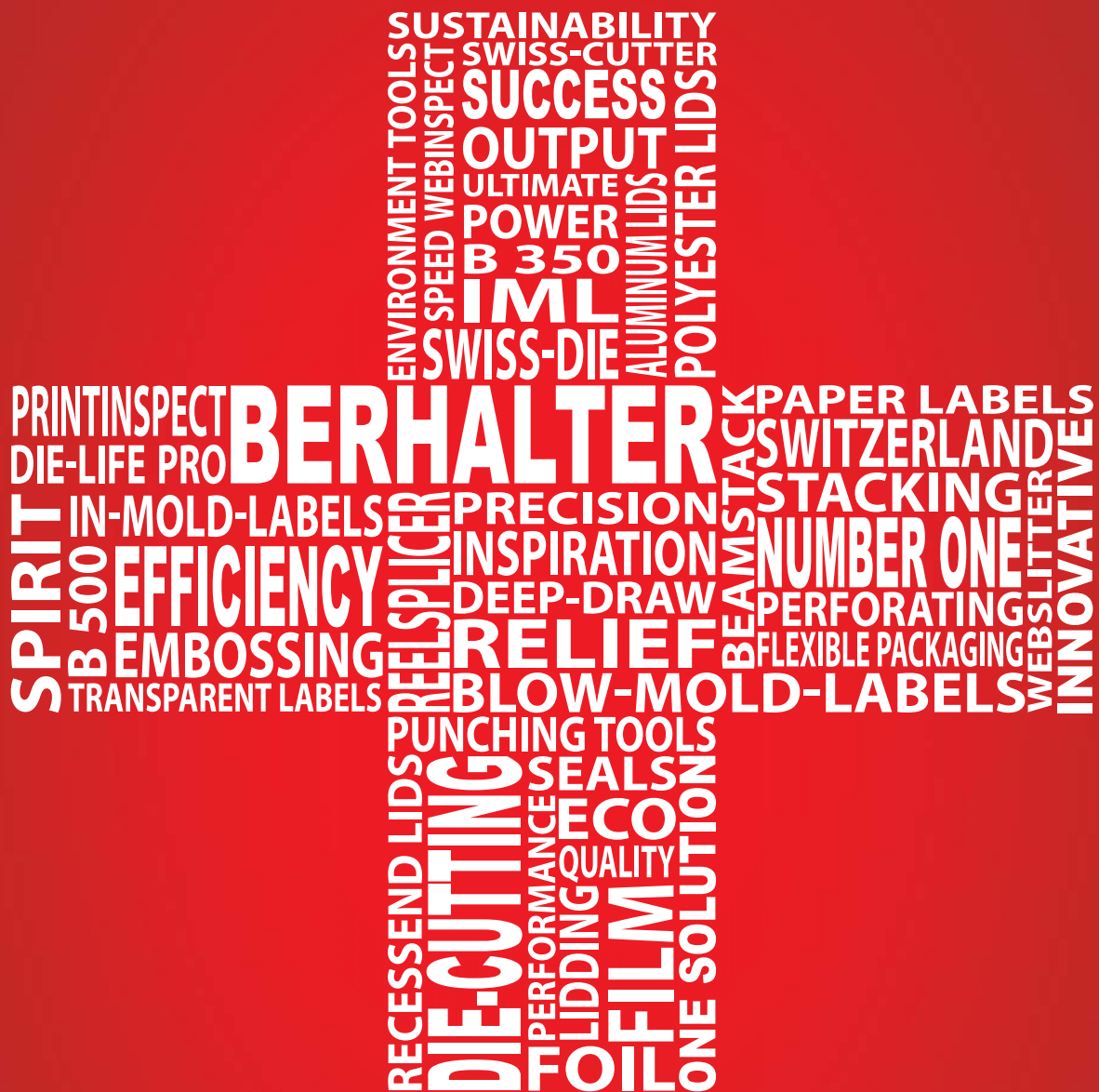

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BOOST your converting production...

... we have the technology

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