



S A F E
SERIALISATION
LABELLING
AUTOMATION

FULLY AUTOMATIC LABELLING SYSTEMS



TURNKEY SOLUTIONS.

SAFE SERIALISATION LABELLING AUTOMATION

- EXPERIENCED IN ALL INDUSTRIES

We, b+b Automations- und Steuerungstechnik GmbH, develop complete solutions in the fields of labelling, automation, serialisation and aggregation. Legal requirements as well as your wishes and needs are the focus here. In addition to our industry-specific standard systems, we offer complete solutions and project the necessary hardware and software modules for your application. For this purpose, we integrate components from well-known partners in the fields of printing, sensor and vision inspection technology. Our fully automatic labelling systems are characterised by quality, modularity, user-friendliness and durability.



FULLY AUTOMATIC LABELLING SOLUTIONS

All models can be extended by modules such as

- Printing unit
- Vision inspection (print presence, print data control, presence, alignment)
- Product rejection
- Serialisation (hardware and software)
- Audit Trail (21 CFR Part 11)
- Infeed and outfeed buffers, sorting devices etc

FM > FORM BOTTLES- | BACK AND FRONT LABELLING

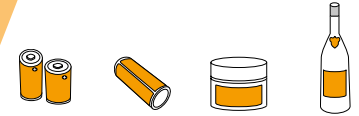
The basic concept of this system is to label form bottles on both sides without using format parts. The adaptation to the respective product takes place by simple adjustment of the machine components. The associated advantages are short set-up times, high availability and multiple use in different production lines. For a high placement accuracy of the labels, the products are precisely aligned on the transport path. Label formats up to 250mm height and cycle rates up to 250 labels per minute are possible. This makes it easy to cover a wide range of products.



Model	Products	up to 250 products/min
FM	Form bottles one- oder two-sided	up to 250 products/min
FM-DS	Form bottles und cylindrical products (rotating station)	up to 60 products/min
FM-RB	Form bottles und cylindrical products (rotation belt)	up to 250 products/min
FM-DSRB	Form bottles und cylindrical products (combination of rotating station und rotation belt)	up to 250 products/min

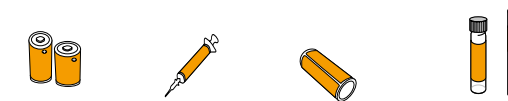
VRM > WRAP-AROUND LABELLING

Like all of our labelling systems, this model has a modular design and can be expanded at any time. The advantages such as low set-up costs, high availability and multiple use in different production lines are obvious. The adaptation to the different products takes place by simple adjustment of the machine components and is possible without tools. The VRM-DS model includes a 3-roller turning station and can be used for an output of up to 60 products per minute. It is characterised by the highest labelling accuracy and can optionally align the products using a welding seam, print mark or other feature before labelling (target zone labelling). For larger quantities of up to 250 products/min the VRM-RB model is used.



Model	Products	up to 60 products/min
VRM-DS	Cylindrical and quadratic products	up to 60 products/min
VRM-RB	Cylindrical and quadratic products	up to 250 products/min
VRM-DSRB	Cylindrical and quadratic products	up to 250 products/min

RML > WRAPPED AROUND LABELLING (horizontally)



Our RML model has been developed for labelling non-stable cylindrical products such as cartridges, ampoules, carpules, lipstick etc. A synchronised roller conveyor belt transports the horizontal products to the labelling station, which applies the label to the circumference. The system convinces with highest positioning accuracy. From manual in- and outfeed to fully automatic loading and subsequent collection of the products, this model is modularly expandable. Particularly narrow products such as ampoules or cartridges can also be processed with the aid of format sets (RML-FS) which are easily replaceable.

TE > TAMPER EVIDENT LABELLING

Due to increasing product counterfeiting, many manufacturers are forced to make their products tamper-proof and counterfeit-proof. Legal requirements for this exist in many countries. We have developed our TE model for this task. The system enables both single-sided and double-sided sealed labelling of pharmaceutical boxes. This system is also used in the cosmetics industry. During development, great attention was paid to protecting the packaging and the format range of the products that can be processed. The basic version can label folding boxes with format widths (in running direction) from 50 mm to 250 mm at a speed of up to 300 folding boxes per minute. Models for processing wider folding boxes are based on the same system concept. As a further expansion, the model is available as a combined system (TE-PV) with a b+b serialization module including b+b LineManager. Printer and vision system are fully integrated into the system.

Model	Products	
TE	Boxes	up to 300 products/min
TE-PV	Boxes	up to 300 products/min with serialisation



TEM > TUBE LABELLING WRAPPED AROUND

Due to lower storage costs and greater flexibility, more and more manufacturers are opting to process unprinted tubes and label them directly before filling. Our model TEM was developed for this purpose and is able to apply a label to the empty, unsealed tubes on the circumference. For this purpose, the products are transported via a clocked transport system to the labelling station, where they are aligned and stabilised beforehand by a format-specific mandrel. The model can optionally be extended by infeed and outfeed magazines and/or inclined conveyors into the tube filler. As a double-stroke variant, the throughput can be doubled. Special sensor technology enable a target zone labelling based on print marks or lid characteristics.

Model	Products	
TEM	Empty, unsealed tubes	50 – 60 products/min
TEM-2T	Empty, unsealed tubes	100 – 120 products/min



VFP > TOP | BOTTOM LABELING

Food packaging or folding boxes in the health-care and beauty sectors, as well as pharmaceutical and medical products, are often labelled on the top or bottom. Like all systems, this model series from b+b is also modularly expandable. The processing of different product sizes is possible without tools by simply changing from format to format.



Model	Products	
VFP-B	Boxes, cardboard boxes, pasta packaging, salad trays	bottom 40 - 150 products/min
VFP-T	Boxes, cardboard boxes, pasta packaging, salad trays	top 40 - 150 products/min
VFP-TB	Boxes, cardboard boxes, pasta packaging, salad trays	bottom and top 40 - 150 products/min

HSF eco > LABELLING OF FLAT PRODUCTS FROM THE TOP



Our HSF-eco model is used for offline labelling of flat products such as empty pharmaceutical boxes, postcards or cardboard blanks. After loading the infeed magazine, the system unstacks the inserted products fully automatically and collects them again after labelling. The system can be refilled during operation and the processed products can be removed. In the basic version, product widths of 350 mm can be easily labelled. Models for processing wider products are optionally available.



WE OFFER



PROJECT MANAGEMENT



TURNKEY SOLUTIONS



ONE CONTACT PERSON IN ALL PROJECT PHASES



INDUSTRY-SPECIFIC DOCUMENTATION



SERVICE LEVEL AGREEMENTS / AFTER SALES SERVICE

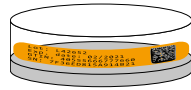


CUSTOMER-SPECIFIC SPECIAL SOLUTIONS DESPITE STANDARDIZATION

BESPOKE SOLUTIONS

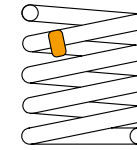
PDL > LABELLING OF PETRI DISHES

An example of our special machine development is our PDL model for labelling Petri dishes. In the system, filled and sealed Petri dishes are provided with a serialised DMC label within the minimum tolerance range at a capacity of 130 products/min. Through the ideal interaction of mechanical engineering, label material and thermal transfer printers, we have achieved this to the complete satisfaction of our international customers. The Petri dishes are fed to the labelling system from the upstream filling and capping system. The system transports the products through the various stations, such as labelling, print data and DMC inspection, by means of a cycle starwheel. If the quality of the barcode is not sufficient (according to the grading results), the product will be ejected.



Model	Products	
PDL 60eco	Filled, closed petri dishes	60 products/min (2-lane)
PDL 60	Filled, closed petri dishes	60 products/min (rotation star)
PDL 260	Filled, closed petri dishes	95 products/min (2 rotation stars)
PDL 2260	Filled, closed petri dishes	180 products/min (2 rotation stars)

RSA > LABELLING OF SUSPENSIONS



The RSA Series is designed to identify suspension springs with the appropriate load class based on an individual payload measurement result. The system receives the measurement results from the upstream system. The system is available as a single or double cycle version (depending on the required throughput). Simple linear axes, single- or twin-robot systems are used as handling systems. Since the labels are normally wider than the distance between the threads, the label is preformed (Ushape) before application to reach the labelling position before it is placed around the wire and finally fixed as a flag label. The data is inspected by a vision system and compared with the original measurement information at the outfeed of the system (verification).

The labels are printed in the system with various data such as customer information, barcodes and line information. The data for this is made available via the main control of the production line. The printed barcode is then checked for legibility and forwarded to the main controller.

Model	Products	
RSAeco	Suspensions	10 products/min
RSA-R	Suspensions	10 products/min
RSA-TR	Suspensions	20 products/min



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