

BBK

Labelling & Coding Solutions Ltd.

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Fully automatic labelling system for cylindrical products – VRM type



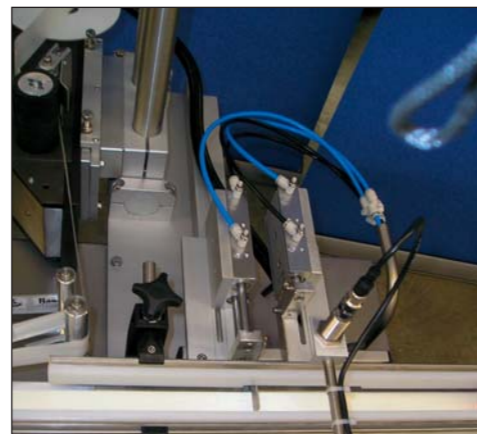
As with all labelling systems from BBK this model also has a modular design. And this system also functions without any form assemblies. The advantages, such as tooling costs, high availability and multiple usages in a variety of production lines, are self-evident. Adjustment to the different products takes place by simply setting the machine components and can be carried out without any tools. Processing label formats up to 250 mm in height at cycle rates of up to 250 units/min makes it possible to cover a broad production spectrum.

Separation module:

A variety of product separation models are available. Depending on the output range separation is effected by 2 pneumatic sliders (output up to 60 units/min), by a driven rubber wheel (output up to 100 units/min) or by a pair of conveyor belts on both sides (output up to 250 units/min). All 3 versions can easily be adjusted to other product sizes within a few seconds, without using any tools.

The basic version comprises the 3-roller rotating station (VRM-DS type) and is used up to an output of 50 products/min. By of an option it is possible for a welding seam, print mark etc. to be used for aligning the product. It is standard for the machine to be equipped with a dispenser from the Rapid series. To apply 2 labels onto the circumference of a cylindrical product, the front and back labels must be arranged alternately on the carrier tape. If, however, if this is not possible a second dispenser can be attached to the rotating station. The distance between the labels can be selected variably by means of the control system. This label dispenser can serve not only to apply a 2nd label; optionally it can also serve as a backup device. This means that if the material on dispenser 1 is coming up to be changed, prior label warning reports that the supply of material is coming to an end. At this moment the control system switches the start signal over from dispenser 1 to dispenser 2 to apply the label. As long as the 2nd dispenser is in action the stock of material on the empty label dispenser can be replaced. The user acknowledges the change of material via the operating unit. The control system identifies the dispenser in standby mode and enables it again as soon as a lack of material in the 2nd dispenser is automatically reported.

For higher output rates up to 250 products/min we provide a lateral rotary belt (VRM-RB type) as an alternative to the rotating station. The rotary belt can be adjusted in height by means of a handwheel. The passage width is also adjusted by means of a handwheel by adjusting the opposite rotation plate (covered with sponge rubber). The complete machine is therefore converted to another product in a matter of seconds. Furthermore, with this system and a thicker counter pressure plate polygonal products (with at least 6 corners) can also be labelled all round. In this process the counter pressure plate fulfils a massage function.



Pneumatic separating



Type VRM-DS



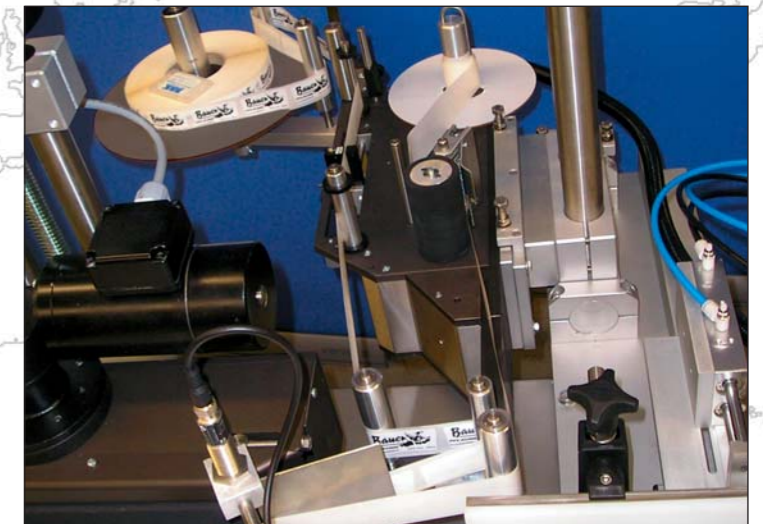
Type VRM-DSRB



Type VRM-RB

In order to be able to benefit from the advantages of both systems, BBK provides a combination (VRM-DSRB type) of both rotation versions. This makes it possible to choose variably between applying several labels or labels aligned according to product characteristics and a high throughput rate.

As soon as the product enters the appropriate rotation unit, depending on the model, the product will first be aligned or the label will be immediately dispensed into the unit.



Label dispenser Rapid

Applications:

This system can be used in almost all sectors, such as cosmetics, food, beverages, pharmaceuticals and chemicals and is excellent for all cylindrical, conical (VRM-DS and VRM-DSRB types) and polygonal products such as bottles, vials, aerosol cans, beverage cans, herb cans, little pots, small buckets etc.

The machine is available with the following options:

- Operation/display: Swivelling operating console, rotating operating console, touch panel, label prior warning, 3 or 4-stage indicator lamp, IPZ Manager communication software for visualising the machine on a PC
- Marking systems: Hot stamping module thermal transfer printing module, laser system, Inkjet system, relief embossing unit
- Miscellaneous: Extension with lid-labelling unit, extension with 2nd dispenser (VRM-DS type), mobile version, fully encased, EX design, label preunwinder for label reel diameters of 350 or 500 mm, label present checks in various versions, print checks in various versions, poor quality ejection system, working height deviating from the standard

Technical data:

Length of system:	minimum 1210 mm
Width of system:	between 1200 mm and 1600 mm
Height of system:	approx. 1600 mm
Weight:	approx. 280 kg
Working height adjustable:	from 750 to 850 mm
Electrical connection:	230V/50Hz or 400V/3PH
Air connection:	1/2" - 6 bars
Materials:	stainless steel, chromium-plated steel, aluminium and anodised aluminium.
Output:	VRM DS type up to 50 products/min.
Output:	VRM-RB type up to 250 products/min.



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