

BBK

Labelling & Coding Solutions Ltd.

...providing solutions

Fully automatic Labelling of shaped bottles (back and front) – Type FM

**NO FORMAT PARTS
REQUIRED**



The basic concept of this system is based on the requirement for labelling shaped bottles on both sides without using moulds. The most important advantages of this are, low set-up costs, high through-put and multiple usage in various production lines. Adaptation to the respective products takes place by simply adjusting the machine components. Alignment and positional accuracy of the labels, can be achieved by processing label formats of up to 250 mm in height and at a rate of up to 250 units per min. This labelling system can be used for a broad spectrum of products.

Separating station: A variety of designs are available for product separation. Depending on the output range, separation either takes place via 2 pneumatic sliders (output up to 60 units per min.), via a driven rubber wheel (output up to 100 units per min) or via a pair of conveyor belts on both sides (output up to 250 units per min). All three versions can be easily adjusted to other product sizes in a matter of seconds, without the use of tools.



Product alignment station: If the product is not a rectangular container, but a formed bottle, the product alignment system is crucial for precision labelling.



This operation is performed by means of a chain driven, product orientation unit.

Owing to the nature of the chain, the shaped bottle only makes contact at a few points during alignment process and is not marked, or damaged in any way. The product alignment station is adjusted by means of a manual spindle. All adjustment units of the system are equipped with reference markings, to ensure maximum adjustment with little use of tools.

Wrap-around and formed bottle mode:

The basic machine includes lateral labelling of form bottles. This can take place on one or two sides. With certain bottle closures, additional labelling from above would be appropriate. A system extension is available in the form of a wrap-around module to enable cylindrical products to be labelled in addition to the formed bottles. The modules are available either as a 3-roller rotary station (see illustration) or a lateral rotary conveyor (for higher output ranges). The system does not require an additional dispenser for this purpose. To convert the system from the formed bottle mode, to the wrap-around mode, the main dispenser is moved along a linear, supported guide, with Quick Release closures and is immediately ready for use in the new position.



The system is available with the following options:

- *Operator/display:* swivelling control console, rotating control console, touch panel, label pre-warning system, 3 or 4-stage indicator light, IPZ Manager communication software for viewing the system on a PC.
- *Marking systems:* hot foil printer, thermal transfer printing system, laser printing system, Inkjet printing system
- *Miscellaneous:* Extension with wrap-around module, extension with lid labelling device, mobile version, full panel covering, EX version, label-rotating station for 45°, rotation of hazardous goods labels, Powered label unwind, for label reel diameters of 350 and 500 mm, label detection sensor of various designs, pressure checking devices of various designs etc.

Technical data:

Length of system: at least 1710 mm
 Width of system: approx. 1200 mm (label on 1 side)
 approx. 1600 mm (label on 2 sides)
 Height of system: approx. 1600 mm
 Weight: approx. 350 - 450 kg
 Adjustable working height: from 750 to 850 mm
 Electrical connection: 400 V / 3 PH / 1.5 KW

Air connection: 1/2" - 6 bar
 Output of variant 1: up to 60 products per min
 Output of variant 2: up to 100 products per min
 Output of variant 3: up to 250 products per min
 Work materials: stainless steel, chromium-plated steel, aluminium and anodised aluminium.