

Marking systems

Labelling and printing



For over 40 years MULTIVAC Marking & Inspection has been developing innovative labelling and printing solutions for many different sectors and markets. Our wide product range extends from cost-effective BASELINE labellers to complete labelling and marking systems, which are tailor-made from individual modules. Irrespective of your particular product and its requirements for labelling, printing or inspection, we always provide a labelling or marking system, which can be integrated seamlessly into your packaging process.

MULTIVAC labelling and marking systems

The labelling and printing solutions from MULTIVAC Marking and Inspection cover a large spectrum of inline and offline systems, which are suitable for a wide range of applications. Our labelling and marking solutions guarantee precision, reliability and quality, and they are supported by MULTIVAC's worldwide service network.

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Inline labellers for existing transport units





Perfect labelling and marking

Quality

MULTIVAC offers labelling and printing solutions, which are to a high technical level and which meet the requirements of the market. We focus on innovative products and state-of-the-art manufacturing technology, as well as on absolute reliability and efficiency. Our relationship with our customers is one of a dialogue between partners.

Hygiene

When we develop our products, we pay attention to a design which is consistently hygienic throughout. Our products are easy to clean and they give simple access to all the relevant modules. This means MULTIVAC labelling and printing systems meet all the requirements of the food industry and medical technology.

Precision

MULTIVAC labelling and printing systems provide perfect results and optimum product presentation. Labels are positioned accurately and reliably. Our printing systems enable you to precisely reproduce print data on a wide range of surfaces.

Output

We ensure your labelling or printing system keeps pace with your packaging line. Our range of different technologies contributes to the reduction in downtime, for example an unwind unit for large diameter label rolls or an automatic switchover for virtually uninterrupted labelling. Servo drives and process-controlled motion sequences ensure a high level of labelling output is achieved.

Cost-effectiveness

MULTIVAC's labelling and printing systems are characterised by a high level of reliability and durability. They are maintenance-free wherever possible and optimised for minimum changeover times.



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MULTIVAC
MARKING & INSPECTION

Easy to operate

All labelling and printing systems integrated in MULTIVAC packaging machines can be operated centrally via the control terminal of the packaging machine. Operators benefit from significantly shorter walking distances, as well as simple and rapid operating functions that can be performed faultlessly and reliably. The result is a significantly higher level of availability throughout the whole line, as well as minimising operating errors.

The MULTIVAC HMI provides

- Intuitive operation
- Maximum operating reliability
- Seamless visualisation of the packaging procedures
- Easily comprehensible diagnostic messages
- Extensive help functions

Our L 3x0 series of conveyor belt labellers are also operated via a MULTIVAC HMI control terminal. The BASELINE series of stand-alone labelling systems are equipped with a MULTIVAC MC control. The particularly compact control terminal makes operation easy and intuitive using only a few keys.



Cross web labellers - Labelling on thermoforming packaging machines

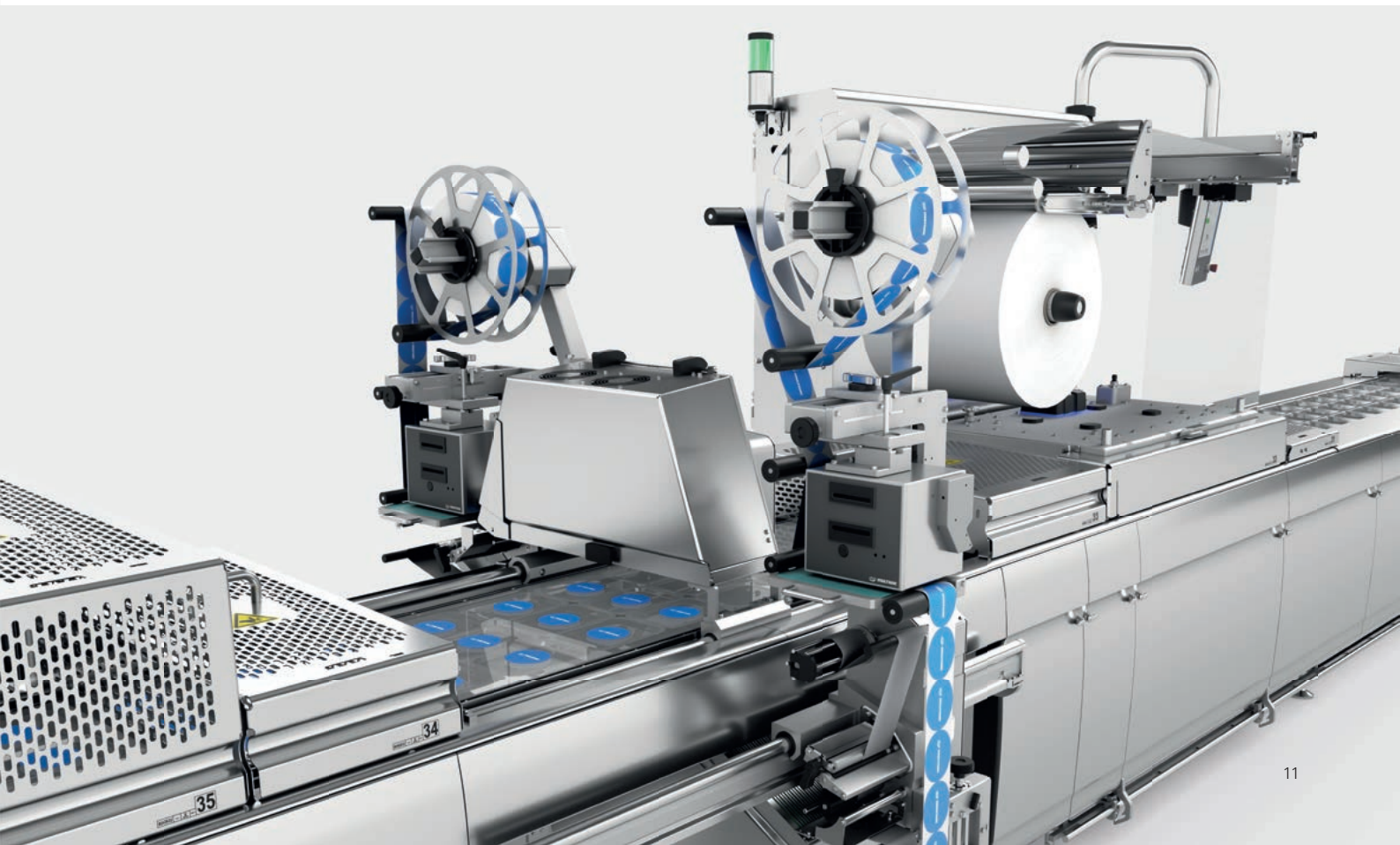
MULTIVAC cross web labellers are the perfect inline labelling solution for MULTIVAC thermoforming packaging machines or even those from other manufacturers. They are able to run a wide range of label sizes and materials with consistently high labelling quality. The labels are applied very precisely to the top and/or bottom of the pack.

A modular design system, as well as a wide range of tailor-made equipment options, enable the labelling solution to be individually designed to the particular labelling and space requirements with maximum output, efficiency and flexibility. All the standard printing processes can be integrated in the labellers. A variety of inspection solutions also ensure the labelling process runs smoothly, as well as providing a high level of product and pack quality.

We also offer ancillary solutions, such as the MULTIVAC Track-and-Trace™ system of traceability marking, or an automatic switchover between two cross web labellers for high-performance lines.

< CL 220/CL 230 cross web labellers

√ RX 4.0 thermoforming packaging machine with cross web labellers and MULTIVAC TTO printers

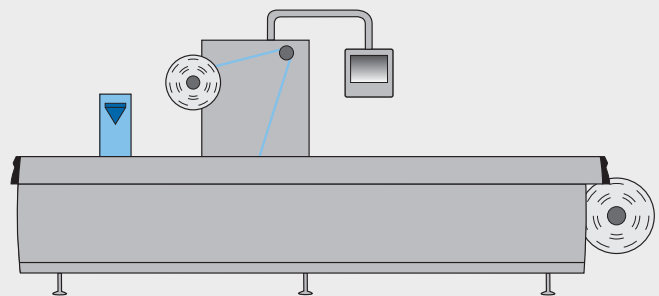


Cross web labellers

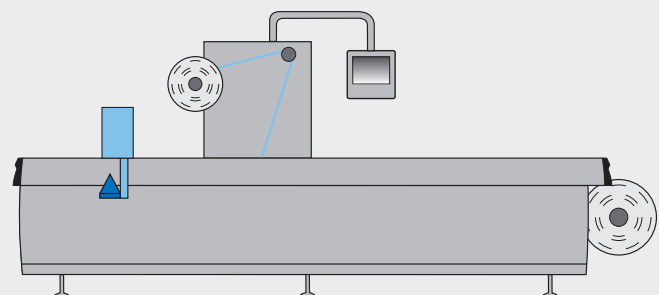
Labelling sealed packs

In the case of labelling sealed packs, the cross web labeller is fitted on the thermoforming packaging machine in the area of the discharge extension. With the labeller in this position on the machine, the packs can be labelled on the top and/or the bottom.

Labelling the top of sealed packs



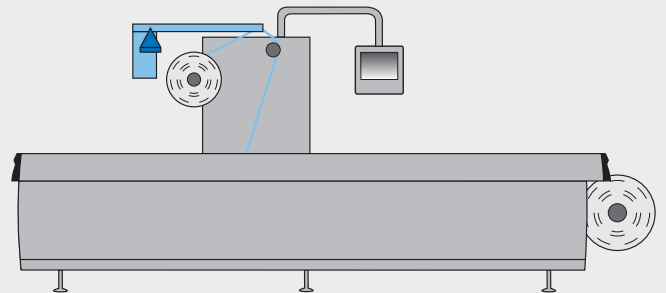
Labelling the bottom of sealed packs



Labelling the upper web

In the case of products with uneven surfaces or labels with large dimensions, it is recommended that the label is applied to the upper web, before this is sealed to the lower web. Here the cross web labeller is positioned on the control cabinet of the thermoforming packaging machine.

Labelling the upper web





Direct web printers – Precision printing on packaging machines

Thanks to their compact design, MULTIVAC direct web printers can easily be installed on thermoforming packaging machines or traysealers. They print variable data, such as texts (use-by dates, batch numbers) or barcodes, directly onto the packaging film.

Depending on the requirement profile, different types of printing technologies are used. The print can be either one row or several rows, and it can run in either the longitudinal direction or at right angles to the film running direction. The direct web printer is operated centrally via the HMI control terminal of the MULTIVAC packaging machine.

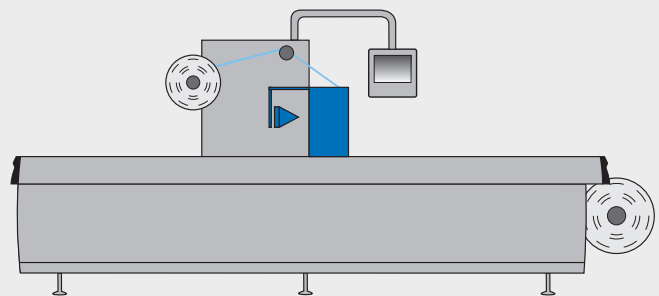
- < Direct web printer with thermal transfer printer
- ✓ Direct web printer with thermal inkjet printer
- > Direct web printer with inkjet printer



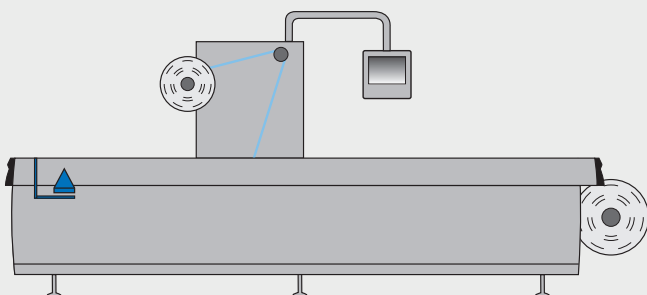
Direct web printers on thermoforming packaging machines

Depending on the requirement profile, MULTIVAC direct web printers can be installed in different positions on the thermoforming packaging machine. One version enables the upper web to be printed, before this is sealed to the lower web. Another version allows the bottom or the top of a sealed pack to be printed.

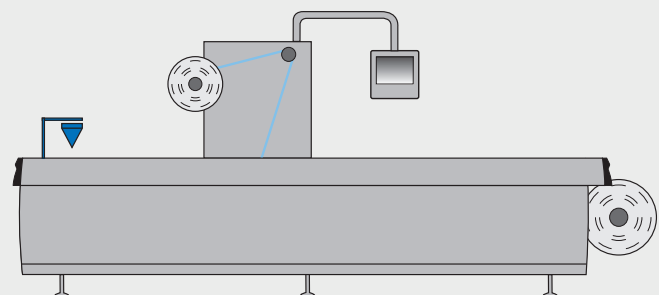
Printing the upper web



Printing the bottom of the pack



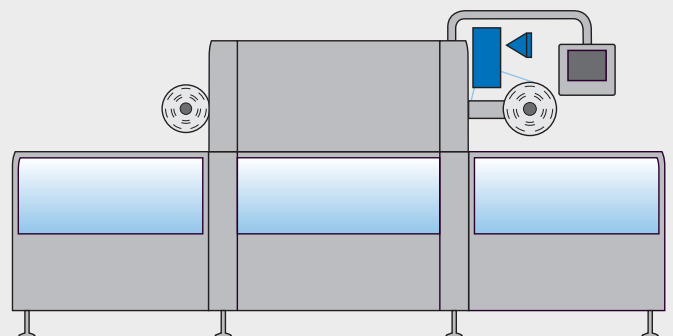
Printing the top of the pack

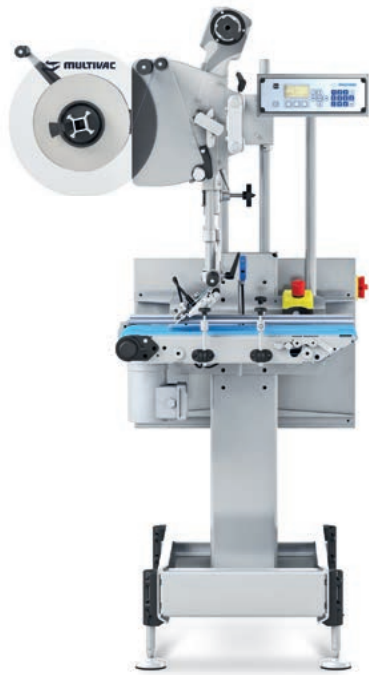


Direct web printers on traysealers

MULTIVAC direct web printers, are available for the entire range of automatic traysealers, and they are specially adapted to the particular model. Therefore they always form a perfect unit as regards design and controls. The direct web printer is operated centrally via the HMI control terminal of the traysealer. This enables the position of the print data to be set at the traysealer's control terminal and saved in the recipe.

Printing the upper web





Conveyor belt labellers

Labelling the packs on the top, bottom, sides or over the edges

MULTIVAC's modular constructed conveyor belt labellers offer the highest level of flexibility in the labelling of a wide range of packs, such as jars, bottles, cartons, tubular pouches, thermoformed packs or trays. They can be seamlessly integrated into existing filling or packaging lines, or they can be used as a stand-alone solution with manual product infeed.

The conveyor belt labeller is also very flexible as regards the positioning of the label. Labels can be applied to the top or bottom of packs, to one or more of their sides, as well as on the leading face or over the edges of the pack. A wide range of transport conveyors, applicators, printers and monitoring units are available as equipment options.

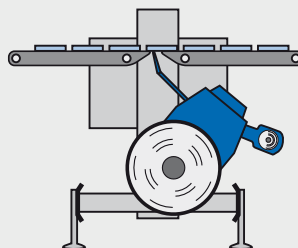
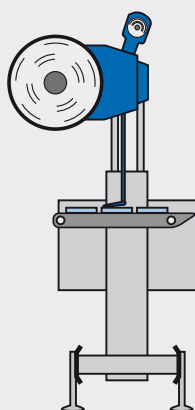
If the labelling task is less complex, the BASELINE L 300 series offers you an extremely cost-effective labelling solution in the low to medium output range.

Conveyor belt labellers

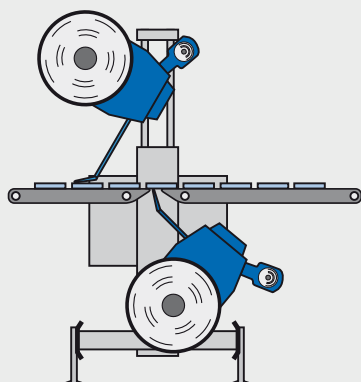
Tailor-made labelling

Thanks to their modular construction, different transport conveyor solutions and tailor-made ancillary modules, MULTIVAC conveyor belt labellers can be individually designed to the particular requirements of the customer.

Top or bottom labelling



Top and bottom labelling

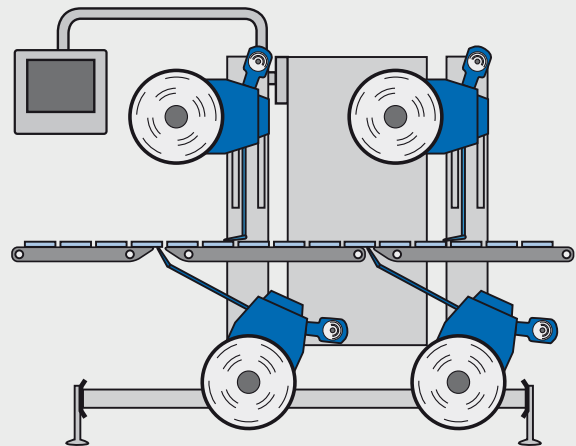


Minimising downtime

MULTIVAC conveyor belt labellers can be equipped with a zero downtime function. They are fitted for this with a second label dispenser, which provides a stand-by function. The stand-by labeller automatically starts to operate when the other label dispenser has run out of consumable material, or when a product change is being prepared.

Top and bottom labelling

Application of two different labels or zero downtime labelling



Various applicators for applying the label to the product, see page 26 + 27



MULTIVAC

The new brand for superior
marking & inspection solutions

MULTIVAC

MULTIVAC

Conveyor belt labellers

Front/back labelling and wrap-around labelling

MULTIVAC conveyor belt labellers with modular plastic belts are particularly suitable for the wrap-around labelling of cylindrical products, for front and back labelling or for the application of sealing labels. The precise product guiding ensures faultless labelling results are achieved, even with the most challenging product shapes. They are simple to operate and can be quickly converted.

A wide range of equipment options for product handling, label application, printing and quality inspection ensure every particular requirement can be met.

- < Front labelling and cap labelling
- √ Conveyor belt labeller for wrap-around labelling





Inline labellers

MULTIVAC inline labellers can be integrated flexibly and efficiently in existing production or packaging lines. Thanks to their modular construction and wide range of mounting systems, they can be easily installed on existing transport units or packaging machines. They are simple to operate and can be quickly converted.

Depending on the particular labelling task and the required speed, there are different types of applicators available, which either press, brush, roll or blow the label onto the pack. The labels can be applied either intermittently or continuously.

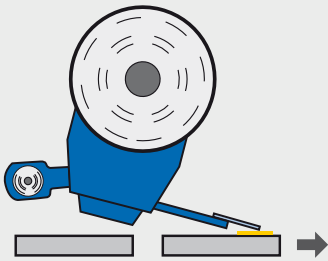
There are various types of printers available for printing production-related data onto the labels.

- < Inline labeller on a transport conveyor
- ✓ Inline labeller on a frame
- > Inline labeller on a vertical tubular bag machine

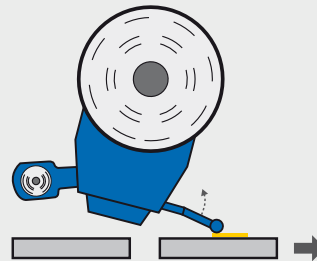


Applicators for label dispensers

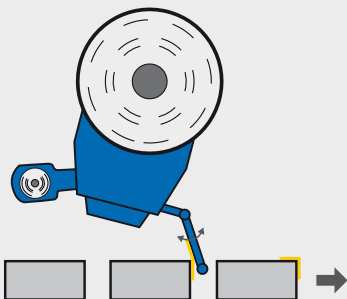
MULTIVAC label dispensers can be equipped with different applicators, which transfer the label to the pack. The choice of applicator is determined by the shape and material of the pack, as well as by the desired position of the label. The integration of the labelling in the packaging process also has to be taken into consideration.



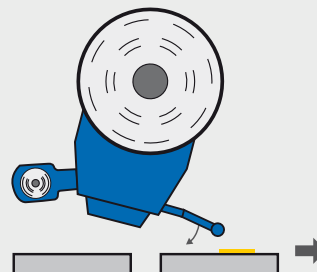
The fixed dispensing edge even applies labels in slight depressions and presses them on securely using a brush.



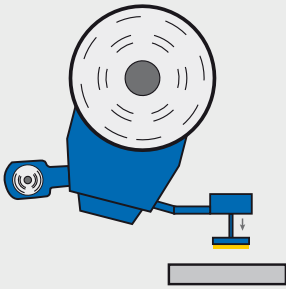
The movable dispensing edge compensates for any slight height differences in the products and presses the label on securely with a press-on roller.



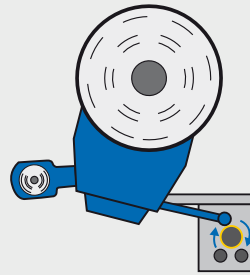
The angled dispensing edge applies labels to the leading side of products and presses them over the front edge onto the top face.



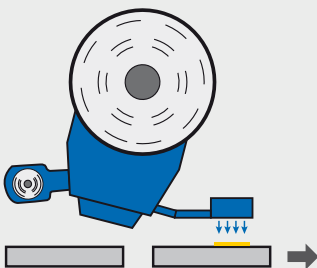
The mechanically actuated dispensing edge is suitable for products with large height differences.



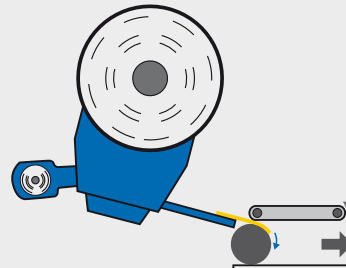
The pneumatic applicator ensures accurate labeling in intermittent systems.



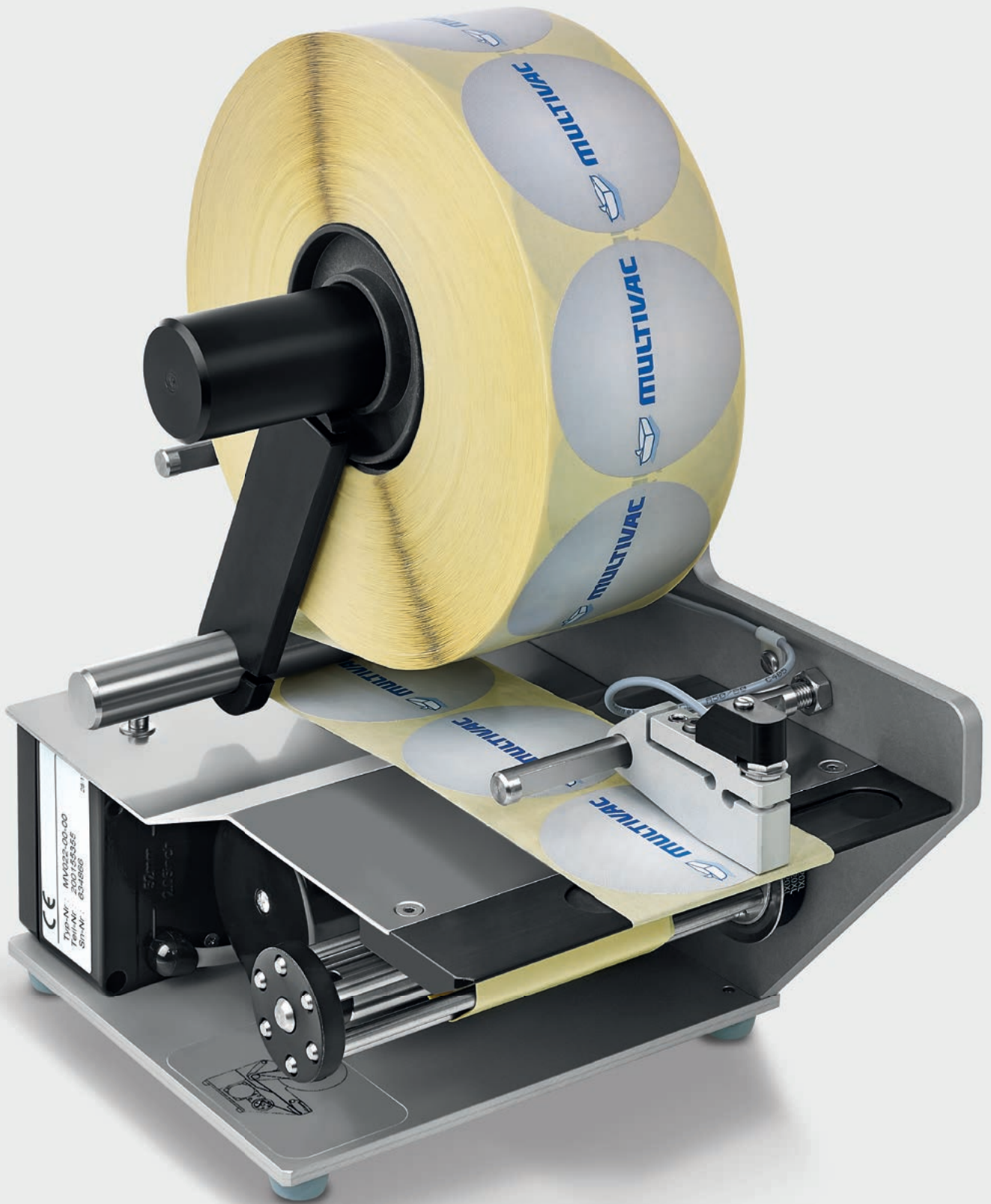
The wrap-around applicator places labels on cylindrical products in intermittent systems.



The blow-on applicator blows the labels onto the product without contact in a longitudinal or lateral direction.



The roll-on belt rolls labels onto cylindrical products as they pass by.



Tabletop labellers

MULTIVAC tabletop labellers are a reliable, cost-effective and convenient solution for applying self-adhesive decorative or information labels from the roll. They are easy to transport and can therefore be used very flexibly.

The tabletop labellers are available as manual label dispensers or with an electric drive for the label strip.

< Electric label dispenser
✓ Manual label dispenser





Printing technology

MULTIVAC offers you a wide range of printing technologies for perfect results on labels, films and packs.

Thanks to their complete integration in the machine control of the packaging machine or labeller, they offer significant benefits with regard to efficient and reliable operation. For example, this means the use of the correct print data or layout is guaranteed - a potentially critical source of errors by operators if incorrect, which can lead to high levels of time and effort for reworking, or even actual product returns.

We also supply suitable consumable materials of the highest quality, so that all the components required in the printing process are ideally matched to each other.

< MULTIVAC TTO thermal transfer printer

Stamp printer

MULTIVAC STP 20 stamp printers are used on direct web printers. They are a particularly cost-effective solution for printing simple print layouts, such as use-by date, batch number or logo. The printing process is performed intermittently by means of flexible type or printing blocks during the machine cycle of the thermoforming packaging machine or traysealer.

Thermal transfer printer

MULTIVAC TTO printers can be used on the entire range of MULTIVAC labelling and marking systems, which are equipped with the HMI 2 control terminal. They are suitable for the direct printing of film on thermoforming packaging machines and traysealers, as well as for the printing of labels on labelling systems. Thanks to its high resolution of 300 dpi, the MULTIVAC TTO printer delivers optimum printing results. In addition to texts, graphics and logos, variable data can also of course be printed, such as the production date, best-before date, batch number or code. The MULTIVAC TTO printer offers a high level of availability at low operating costs. This is achieved through its low consumption of wearing parts, a long ribbon length of up to 1,200 metres per roll and its ribbon-saving functions.

Thermal inkjet printer

MULTIVAC TIJ printers can similarly be used on the entire range of MULTIVAC labelling and marking systems, which are equipped with the HMI 2 control terminal, and they are suitable for the direct printing of film on thermoforming packaging machines and traysealers, as well as for the printing of labels on labelling systems. Thermal inkjet printers operate with print cartridges, in which the printing heads are integrated. The cartridges can be changed easily and quickly and are also extremely low-maintenance, since they do not require any regular cleaning. A print resolution of up to 600 dpi can be achieved with TIJ printers, making it possible to accurately print extremely small text and compact barcodes.



Everything from one source

MULTIVAC offers the complete range of labelling technology, labels and consumable materials from one source. This means we can ensure all materials used in the packaging and labelling procedure match each other perfectly. This prevents stoppages and ensures the best results. Our expert advice in all aspects of the label and its print guarantees that not only the legal requirements are fulfilled, but also that there is optimum product presentation.

Labels

A wide range of label materials and adhesives can be used for producing self-adhesive labels. This means packs for single material disposal can be introduced, or alternatively paper and plastic separated for the recycling process. We can also, of course, supply FSC certified materials and support you in developing sustainable packaging solutions.

Consumable materials

To complement the printing technology, MULTIVAC also supplies appropriate consumable materials of the highest quality, such as thermal print bars and ribbons. Various materials with different wax/resin proportions are available. All grades are ISEGA certified, i.e. declared as safe for use in the food sector. The particularly long ribbon running lengths increase overall efficiency.

< Thermal transfer ribbons
v Labels





BETTER PACKAGING

Our goal is for MULTIVAC solutions to fulfil your requirements reliably and efficiently. This is why a MULTIVAC team of experts offers you a wide range of technical support and services, from the initial consultation to the supply of spare parts for at least ten years after the labelling system was put into service.

Comprehensive advice

From the initial idea to the first test run - a highly qualified and experienced project team will be at your side while your solution is being developed, a team that will accompany you from the first evaluation to the final implementation of the project.

Training

We offer comprehensive training courses, so that you can become familiar with the operation, servicing and care of your machine. In this way you can fully realize the potential of your MULTIVAC system.

Service

Worldwide there are over 1,000 MULTIVAC experts in the field: around 400 sales advisors to develop the most efficient overall solutions with our customers and more than 600 service technicians to assist with service support, retrofit equipment and training.



MULTIVAC supports the BLUECOMPETENCE Initiative of the Association of German Machinery and Plant Manufacturers, VDMA