



# MULTIVAC product overview

Packaging solutions with method.



**MULTIVAC**  
BETTER PACKAGING

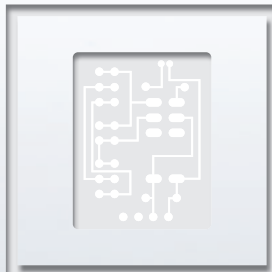


## Your benefit is our incentive

MULTIVAC stands for 'Better Packaging'. But what lies behind these two words? As a benefactor of packaging solutions you experience their importance in practice on a daily basis. It is your requirements for the packaging of your products which set our standards for 'Better Packaging'.

MULTIVAC is not only a leader in technology, efficiency and reliability but also in its product advice and service support. All these aspects belong together. We call it an integrated approach. Only such a unified solution brings comprehensive benefits to our customers to meet a range of requirements.

MULTIVAC always offers the right solution, no matter whether it is packs for food products, medical disposables or industrial items. And irrespective of the location where you are producing, MULTIVAC is 'on hand' worldwide and always with the full range of its expertise.



**MULTIVAC is the world's leading supplier of thermoformed packaging solutions. With our thermoforming packaging machines you can pack efficiently and economically a wide range of products such as food products, industrial and consumer items, as well as medical and pharmaceutical products.**

**Our product range covers the widest spectrum on the market in size, performance and equipment: compact machines for small volumes, high speed machines for large outputs and special machines such as those machines designed for skin packaging.**



## Compact thermoforming packaging machines

### R 095

The very compact thermoforming packaging machine R 095 is designed to process flexible films, and incorporates the ground-breaking MULTIVAC hygienic design as well as MULTIVAC's technology and quality standards.

### R 105

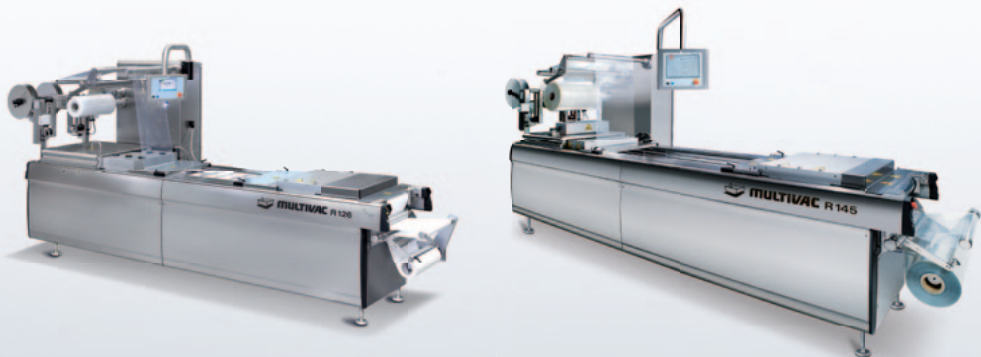
The R 105, with its standardized configuration and pre-defined range of basic pack formats offers an outstanding price-to-performance ratio.

### R 126

With its flexibility of film width and forming process the R 126 offers you the scope for diverse packaging requirements.

### R 145

The compact R 145 is a variable, freely configurable thermoforming packaging machine. By virtue of its wide selection of available die sets and its range of modular enhancement, this machine is flexible in its use and ensures a high degree of efficiency.



### High speed thermoforming packaging machines.

#### R 225

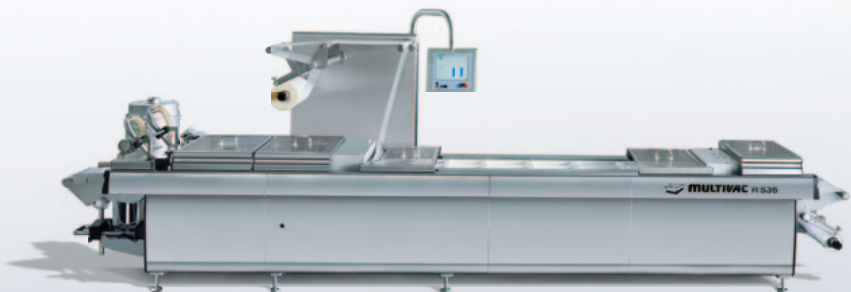
The R 225 is designed as a medium volume machine. It offers all the essential equipment options for efficient and hygienic packing and can also be integrated into fully automatic packaging lines.

#### R 245

The R245 offers all the essential equipment options including the innovative CIP cleaning system and is configurable to your exact requirements. It is capable of modular extension and is suitable for integration into automated packaging lines.

#### R 535

The high speed R535 machine is designed for maximum output and operation under industrial production conditions. It offers the most extensive range of equipment options and sets new standards in efficiency, process security and hygienic design. The R 535 can be optionally equipped with a CIP system.



## Special thermoforming packaging machines.

MULTIVAC is the leader in the development of specialized packaging solutions for a wide spectrum of applications, such as vacuum skin packs (VSP) and shrink packs. With our thermoforming packaging machines for DARFRESH® and FormShrink you can produce attractive and cost effective vacuum packs with optimal use of packaging materials and maximum shelf life.

### **R 155, R 255, R 555 for FormShrink packs**

FormShrink offers a cost effective and automated alternative for the production of shrink packs. The result is particularly attractive packs which envelop their products like a second skin.

### **R 175 CD, R275 CD, R 575 CD for DARFRESH® packs.**

The DARFRESH® process enables attractive skin packs to be made. For this process special films are used which softly envelop the product like a second skin and seal over all the surfaces. The shape, structure and nature of the product remain completely preserved and are presented as a high value product.



**MULTIVAC tray sealers are suitable for the packaging of products in the food, medical and consumer goods industries. Our tray sealers are very flexible, simple to operate and permit the use of the widest range of trays and top web materials.**

**Our portfolio includes semi-automatic tray sealers for small to medium volumes as well as fully automatic tray sealers for the processing of industrial scale production volumes.**





## Semi-automatic tray sealers

The semi-automatic tray sealers from MULTIVAC can process plastic, board and aluminium trays as well as the widest range of top web materials. The spectrum of applications comprises sealed packs with and without protective gas environment (MAP), vacuum skin packs as well as packs with the FreshSAFE process.

User-friendly controls with graphics display guide the operator safely through all the processes of the packing operation. The die tool can be quickly and simply changed for different tray sizes. Thanks to the consistent use of stainless steel in its construction these tray sealers can be cleaned and maintained particularly easily. Their compact dimensions make them flexible and easy to install in all production environments.

### T 100

The compact T 100 provides all the essential features for packaging in trays, also for MAP packs. The T 100 is solely powered by electricity and fits on top of almost any counter.

### T 200, T 250

The semi-automatic tray sealers T 200 and T 250 offer all the functions for a convenient and efficient tray sealing operation. Appropriate hygienic design, very simple handling and first class finished pack quality characterize this semi-automatic tray sealers T 200 and T 250.

### T 260

The T 260 tray sealer is a packaging machine developed for the special demands of the medical sector and pharmaceutical industry. It supports the packaging of your products in accordance with GMP guidelines, particularly with respect to packaging quality, process reliability and cleanroom suitability.

### Automatic tray sealers

The automatic tray sealers from MULTIVAC combine a unique hygiene design with extremely high levels of reliability and user-friendliness. They also make a contribution to the conservation of resources and economic efficiency.

Our innovative tray sealers are suitable for the production of packs with and without protective gas environment, of vacuum skin packs and of packs for FreshSAFE, Slicepack and Mirabella applications. Due to their intuitive user interface they are particularly easy to operate and retool.

MULTIVAC tray sealers can be used for the packaging of food and medical products as well as for industrial and consumer goods.

#### T 300

The compact T 300 tray sealer packs products of any type automatically, hygienically and economically. The T 300 is designed to process a wide range of trays, and incorporates the groundbreaking MULTIVAC hygienic design as well as MULTIVAC's technology and quality standards.



### T 700, T 800, T 850

The high speed T 700, T 800 and T 850 tray sealers are designed for operation under industrial production conditions. Running speed and tray transport movement can be automatically adjusted to the products to be packed and the desired output. They set new standards in absolute process security, efficiency and consistent hygienic design.



**MULTIVAC chamber machines pack quickly and flexibly. They can be used to produce vacuum packs, shrink packs and MAP packages.**

**Our machine program covers the whole spectrum of machine size, output and equipment specification:**

- compact table top and free-standing models
- high output twin chamber machines
- fully automatic conveyor belt machines
- shrink packing lines.

**Our chamber machines can be equipped with a wide range of accessories.**

**The intuitively operated electronic control ensures a simple and secure packing process.**



## Table top and stand mounted models

### C 70, C 100, C 200, C 250, C 300 (TWIN), C 350, C 370

MULTIVAC table top machines are the ideal packaging solution for butchers shops, restaurants, hotels, direct marketing companies and farm shops, hospitals and institutional caterers. They can be used for a wide spectrum of consumer goods and medical products. The transparent chamber lids give a clear view of the packaging process. The table top machines can also be equipped at a later date with a mobile stand.

## Large chamber machines

### C 400, C 700

The large chamber machines from MULTIVAC are designed for a wide range of large and bulky products. Depending on the product to be packed and the packaging material used the large chamber machines can be equipped with a variety of sealing systems, chamber and lid heights, vacuum pumps and ancillary equipment.



### Twin chamber machines

#### **C 450, C 500, C 550**

The twin chamber machines from MULTIVAC enable high value pouch packs to be produced at almost twice the output. While the bags are being sealed in the closed chamber the open chamber can be filled with product.

### Conveyor belt chamber machines

#### **B 310, B 510, B 610**

The conveyor belt chamber machines from MULTIVAC combine ergonomics with trend setting hygienic design. With this they ensure a high level of pack quality and security while providing high throughput. Conveyor belt chamber machines can be integrated into complete lines with shrink units and drying tunnels.



## TC chamber machines

The TC range of chamber machines for the packing of sterile medical items is equipped with sealing bars which can be permanently heated and temperature controlled. This permits the qualification and validation of the sealing process by which reliable, measurable and reproducible sealing results are attained. A comprehensive range of equipment options ensures maximum pack security and a seamless documentation of the processes and process parameters, precisely tailored to your individual requirements.

## AGV

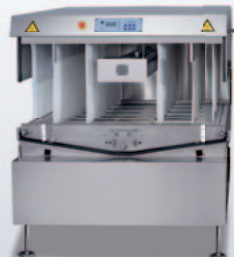
The AGV is suitable for the packing of products in upright bags. It is equipped with a vacuum chamber which is opened from the side and a height adjustable roller conveyor. In addition an anti-tipping bag holder ensures a secure packaging process and a crease-free seal.



For the production of shrink packs we offer semi-automatic shrink tanks as well as fully automatic shrink tunnels. With all models the shrink time can be controlled individually for perfect and reproducible package results. MULTIVAC shrink units can be combined with thermoforming packaging machines, conveyor belt machines and drying tunnels.

### SE 60

The compact SE 60 is a semi-automatic shrink tank which functions on the dipping principle. The ideal addition to MULTIVAC chamber machines for producing shrink packs for smaller products.





**SE 115**

The SE 115 is suitable for integration into complete lines with thermo-forming packaging machines or with the B 310. The shrink tunnel ensures permanently high output thanks to its continuous product throughput.

**SE 130**

The SE 130 is suitable for integration into complete lines with conveyor belt machines. The shrink tunnel ensures permanently high output thanks to its continuous product throughput.

**TE 115 und TE 130**

In complete lines the TE 115 and TE 130 is linked in sequence to the shrink unit. It ensures that only completely dry shrink packs are labelled or boxed. The drying tunnel maintains permanently high output thanks to its continuous product throughput.



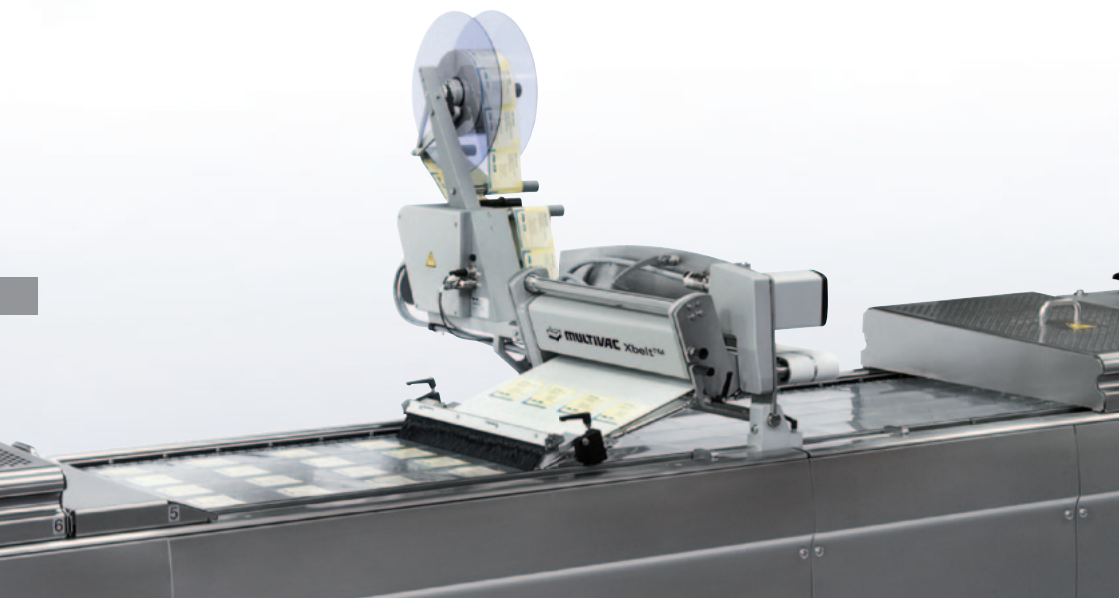
The printing and labelling units from MULTIVAC are suitable for a wide spectrum of applications, both within the packaging line and beyond. Our labelling and coding systems ensure trend-setting precision, reliability and quality.

### Labelling of thermoformed packs

For the labelling of your products on a thermoforming packaging machine we offer a selection of two product ranges, the classic cross web labeller and the new patented Xbelt™.

#### **Xbelt™**

The MULTIVAC Xbelt™ applies labels from a transfer belt onto the packs running underneath it. In this way it manages without a labeller indexing unit. That means: reduced space requirement, better access and a plus in terms of hygiene and safety.



## Direct web printers

The direct web printers in the MR290 series are the ideal coding system when variable data have to be printed directly onto the packaging film. Barcodes, logos, text, sell-by dates, batch numbers - all these types of data can be applied flexibly and individually. Depending on application and requirement hot foil units or thermal transfer and inkjet printers from leading manufacturers are available.

### Top film coding before sealing

The MR293, MR295, MR296 and MR298 direct web printing systems offer the opportunity to print the top film of thermoformed packs before the sealing station with a high quality individual layout. Depending on the specific customer requirement a selection can be made between intermittently or continuously operating printers with longitudinal or cross machine print directions.

### Top film coding of packs

The MR292 IK and MR299 IK direct web printing systems can be easily integrated into thermoforming packaging machines. The MR292 IK is a stationary unit for the coding in film running direction of sealed packs in 1 to 4 track format. The MR299 IK indexing system for 1 or 2 inkjet print heads guarantees a precisely positioned coding of the finished packs in multi-track and multi-row formats with longitudinal or cross machine print directions.

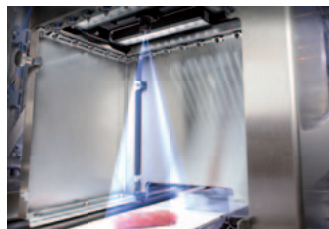
### Bottom film coding of packs

With the MR297 IK direct web printing systems your packs can be coded quickly and flexibly from below with an inkjet printer.

**MULTIVAC offers highly developed systems for pack inspection and quality control. Even at the highest speeds they operate with absolute precision and reliability, something which qualifies them in particular for inclusion in automatic packaging lines. With our systems for pack inspection and quality control you can be sure that your products meet the highest quality and safety standards.**

### Visual inspection

The MULTIVAC Vision System (MVS) is an innovative image processing system for a wide range of detection and inspection applications. In automated packaging lines it makes it possible to achieve 100 per cent quality control with maximum accuracy even at high speeds.



### Check weighers

Automatic check weighers calculate the pack weight precisely and reliably, they reject as required under- and overweight packs and make a significant contribution to maintaining internal quality guidelines and legal requirements. Our check weighers are available in two basic versions which are optimally designed for different requirements.

### Seal testers

The seal tester checks the seal integrity of sealed packs on a continuous basis without interruption of production. In this way you can ensure objectively and verifiably that only hermetically sealed packs remain within the packaging process.

## Foreign body detection

### MR831 metal detectors

The MULTIVAC metal detector MR831 is an IFS compatible All-Metal-Detector which does justice to the highest standards in terms of sensitivity, appropriate hygienic design and operating control. It is available as a universal stand-alone unit or as part of an integrated packing solution with MULTIVAC packaging machines.

### MR811 X-ray inspection system

The MR811 X-ray inspection system detects safely and reliably the smallest foreign bodies such as metals, glass, stones, bone fragments and dense plastics in food and medical products as well as industrial and consumer goods. In addition to a seamless quality control the X-ray inspection system also provides a checking process for the shape, density and integrity of products.



**MULTIVAC offers a diverse range of line modules for handling and channelising which are tailored to your products and your specific requirements.**

### Handling modules

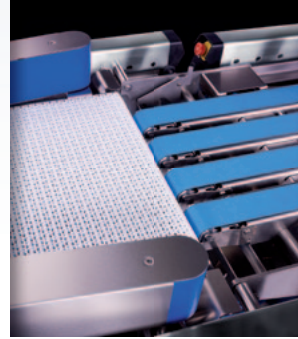
The handling modules from MULTIVAC quickly and accurately automate a wide spectrum of handling tasks such as the loading of products, the channelising of packs, the picking out of faulty packs or the orientation and transfer of finished packs. They are flexible in their installation and can be used for a variety of products, pack formats, weights and cycle times. Depending on the size of the working area, the functions required and the necessary output there are a number of different variants available with two, three or four axes. Thanks to the uniform hygienic design and the FDA compliant stainless steel construction MULTIVAC handling modules can be used for all products and in all production environments.

Handling modules are controlled directly at the operating terminal of the packaging machine or, if required, they can be equipped with their own separate controls.



## MBS

MULTIVAC conveyor systems automate efficiently and hygienically the channelising of packs from multi-track packaging systems such as thermoforming packaging machines. With our wide range of conveyor systems we can fulfil all your product and packaging speed requirements. At the same time our conveyor systems also enable defective packs to be ejected from the line on an individual row basis.



## Line control

With the MULTIVAC Line Control (MLC) you can coordinate centrally the control of the components of your packaging line. The MLC system ensures time-optimised, precise, reproducible and transparent processes and is easy to operate. The many different functions of this overriding control unit include.



- coordination of the line function elements
- product tracking
- linking to a Manufacturing Execution System (MES)
- product handling and changeover
- linking to an Enterprise Resource Planning System (ERP) for job management as well as to systems for machine and operating data capture.







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