Traysealer solutions
for convenience products
MULTIVAC is a leading manufacturer of automatic traysealers. Each of these machines is individually designed to the customer’s requirements in terms of tray and product infeed, discharge of packs, labelling or marking and quality inspection. They dovetail seamlessly into your new or existing production environment, either as a stand-alone machine or as part of a fully automated packaging line. Reliability, durability and a comprehensive service make MULTIVAC a resilient link in your production chain.
Innovative packaging solutions

Convenience products trend
Dishes that are fast and easy to prepare are very popular with consumers. Food being purchased based on the situation rather than to stock up continues to increase in prominence. As a result, the demand for convenience products is growing faster than average – whether quick snacks or complete meals that can be prepared with minimal effort. At the same time, consumer standards are rising in regard to the quality, freshness and taste of these products.

Attractive packs with high functionality
MULTIVAC offers a wide range of solutions for convenience products of all kinds: from typical ready-to-serve meals to menu components, snacks, vegetables, and fresh-cut products.
As one-of-a-kind as your customers

**Complete solutions from a single source**
MULTIVAC solutions are available in all performance classes and automation levels. The portfolio includes machines with manual loading and operation as well as fully automated packaging lines. We integrate our tray packaging solutions into new or existing production environments with an understanding of the overall process.

**MULTIVAC solutions can be customized with regard to**
- Type of pack atmosphere
- Functions
- Marking and labelling
- Quality inspection
- End-of-line packaging
Packs with atmosphere

**Modified atmosphere (MAP)**
In the case of packs with modified atmosphere, the atmosphere in the pack is replaced with a gas mixture that is matched to the product in order to maintain its form, colour and freshness. This modified atmosphere usually consists of carbon dioxide, nitrogen and oxygen.

**Natural atmosphere**
The technically simplest solution is sealing of the trays without modified atmosphere. These packs protect the product from contact and mechanical influences but do not have any properties which extend shelf life.

**Equilibrium atmosphere (EMAP)**
For the production of EMAP packs, upper web films with microperforation whose permeability is adapted to the respiratory rate of the product are used. This enables an equilibrium atmosphere to be established, which extends the shelf life of delicate, respiring products such as fruit, vegetables, salads and herbs.
Vacuum skin packs

**MultiFresh™ vacuum skin packs**

Packaging under vacuum extends the shelf life of products, since the biochemical degradation of the product is slowed down by the removal of the atmosphere. For the production of MultiFresh™ skin packaging, MULTIVAC also offers trays and MultiFresh™ skin films, which were developed jointly with leading film manufacturers and which ensure optimal packaging results.

As flat products can be slightly compressed during packaging, skin packs without product protrusion are particularly suitable for pressure-insensitive foods. For pressure-sensitive products as well as packs with product protrusion, we offer an attractive solution with MultiFresh™ Pro. The upper web encloses the product tightly and free of tension without affecting the shape of the product and without altering its decorations.

Opening aids

**Peel corner**

Peel corners can be used as opening aids for both inside- and outside-cut applications. The unsealed tab may be located within the tray contour or extended beyond the tray for a better grip.
Trays and films

All conventional trays made of plastic or other materials can be processed on MULTIVAC traysealers in a wide variety of shapes. When sealing, the upper web is optimally utilised with only minimal film trim lattice remaining.
Tray materials
- Monolayer and multilayer materials
- Board
- Foamed materials
- Aluminium

Tray shapes
- Rectangular
- Multi-sided
- Round
- Oval

Films
- Unprinted films
- Printed films
- Perforated films
- Temperature-resistant films
Improved packaging with MULTIVAC traysealers

- High seal seam quality for maximum pack security
- Precise cutting systems
- Maximum operator safety due to comprehensive protective devices
- Quick die change
MULTIVAC benefits
- MULTIVAC Hygienic Design™
- High production output and pack quality
- Individually tailored solutions
- Maximum output with the minimum footprint
- Pioneering ergonomics and user-friendliness
- Long service life
- Comprehensive range of solutions for infeed and removal of trays
- Customized solutions for tray loading

Simple operation and production data acquisition
Gentle pack transport
Energy-efficient servo lifting unit
Easily removable conveyors for convenient cleaning
Labelling and marking solutions

Our product portfolio offers flexible direct web printers and labellers that can be used for labelling and marking packs.

**Direct web printing systems**

Our powerful and reliable thermal transfer printers are used for inline printing of films on traysealers. The print contents typically consist of serial printing (texts and graphical elements such as logos, barcodes, etc.) or of variable data:

- Product designation
- Batch numbers/series or lot numbers
- Information about ingredients and shelf life
- Barcodes
- Logos
### Labelling systems

Conveyor belt labellers are typically used in conjunction with traysealers. They precisely and reliably work with all label types, shapes and materials.

<table>
<thead>
<tr>
<th>Label shapes</th>
<th>Label materials</th>
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<tbody>
<tr>
<td>Oval</td>
<td>Paper</td>
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<tr>
<td>Rectangular</td>
<td>Coated paper</td>
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<tr>
<td>Square</td>
<td>Plastic</td>
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<tr>
<td>Round</td>
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<td>Special shapes</td>
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**Information**
- Product description
- Pictures
- Barcode (1D/2D)
- Expiration date
- Address
- Weight
- Batch numbers
- Nutritional value table / ingredients
- List of ingredients
- Preparation instructions
- Consumer information
- Logos (recycling, manufacturer identification, etc.)

**Label materials**
- Paper
- Coated paper
- Plastic

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<thead>
<tr>
<th>Top/bottom/side</th>
<th>L type</th>
<th>C type</th>
<th>D type</th>
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Inspection systems

Our systems for quality inspection are suitable for a broad scope of tasks, such as detection of foreign bodies, weight inspection and final pack inspection. They guarantee reliability and quality.

Weight check
MULTIVAC checkweighers are available in different weight ranges and versions.
- Checkweigher
- Checkweigher with metal detector
- Integrated ejection devices

Foreign object detection

Metal detection
MULTIVAC offers IFS compatible, space-saving and highly efficient solutions for detecting contaminants of magnetic and non-magnetic metals.
- Metal detector
- Integrated ejection devices

X-ray inspection
X-ray inspection systems detect metallic and non-metallic foreign bodies, such as stones, glass, or bones. They can also be used for checking the completeness of the pack content. Packs which contain metallic components, such as clips, etc., can also be inspected using the X-ray inspection system.
Inspection of labels, printing and packs

Visual inspection systems for label, marking and pack inspection are integrated into MULTIVAC labelling and marking systems, or they are designed as stand-alone inspection solutions with a separate transport conveyor. Packs outside the tolerance range can be ejected. Camera-based systems are capable of doing even more: for example, they can check whether a product is positioned correctly in the pack, or whether a pack is completely filled.
Automation and integration – MULTIVAC line concepts

MULTIVAC has many years of expertise in the development of automated and integrated packaging solutions, which are individually tailored to your requirements. Where required, we also integrate existing systems and components produced by other manufacturers.
Automated and integrated packaging solutions from MULTIVAC offer the following benefits:

- Synchronisation of all components
- Simple control of all line elements via one unified user interface.
- Increased efficiency of the entire procedure
- Simplified product changeover
- Reliable product transfer
- Higher level of process reliability
- Seamless traceability at pack level
- Saving of recipe data at line level
- Uniform process qualification
MULTIVAC is there for you on site worldwide

Our sales and service network comprises more than 80 subsidiaries. We are present on all continents and in all important markets. At all times and in all places, more than 900 consultants and service technicians will offer you expert advice and a comprehensive range of services covering all areas of packaging, as well as support you on your way to the best possible and most efficient overall solution. Our technical service, combined with rapid availability of spare parts, ensures all MULTIVAC machines installed worldwide are at maximum readiness.