



PRODUCE Packaging Solutions

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Keep it fresh longer

Shelf life extending technologies

After they are harvested, fruits and vegetables live on and have a limited shelf life. To extend it, ULMA offers you the widest range of packaging solutions on the market for the Fruit and Vegetables sector helping you in your search for the optimal packaging for your product.

After harvesting fruit and vegetables keep breathing, ripening, and are exposed to the deterioration (ethylene synthesis), to the microbial growth and, through the transpiration, to the loss of moisture (weight) in the product.

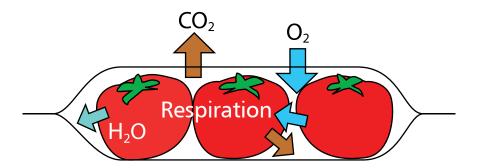
The shelf life of your fresh products can be extended by:

- Storage in cool temperatures (depending on each product).
- Processing in optimum hygienic conditions.
- Avoiding physical damage.
- Adjusting the film permeability for the appropriate product respiration.
- As an option, adding protective gas into the packaging when it is desirable.

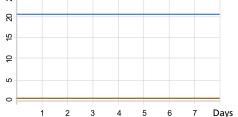
The packing forms a barrier that contains the product and protects it from the microbial growth, from the phisicalchemical deterioration and from the contamination, keeps its flavor and odor, and acts like a display for the product marketing, information and traceability.

ULMA Packaging collaborates with research, development and innovation centers such as ADESVA or AINIA and some of the most important companies in the sector to develop the perfect solution for each product adjusting the film's permeability to match the product's respiration rate or adding protective gases if they are required.

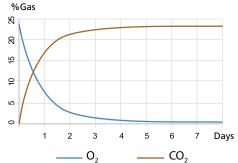
With suitable packaging and different technologies (macroperforations, microperforations, permeable films etc) the permeability and thus the respiration rate of the package can be controlled resulting in an optimal balance in the concentration of gases inside. This extends the shelf life of the product to the maximum.



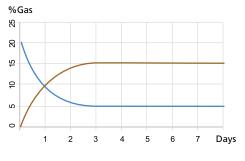
Film too permeable %Gas श्र



Film very impermeable



Controlled permeability



Produce Packaging

Specialists in Produce

ULMA makes use of its specialization and knowledge in the Produce sector by offering the widest range of packaging solutions on the market, thanks to the possibility of choosing between five different packaging systems: Horizontal Flow Pack (HFFS), Vertical Flow Pack (VFFS), Thermoforming, Traysealing, and Stretch Film, each with their own specialized technology for extending the conservation of each fruit or vegetable.

In addition, ULMA offers complete fully automated solutions that include from the handling and loading of the product to the final crate packing and palletizing.

In this brochure you can find different applications of our packaging technologies.

Packaging solutions for:

- Fresh vegetables
- Fresh fruit
- Other : processed, ready to eat, herbs..



Fresh vegetables in trays

Stretch film packaging

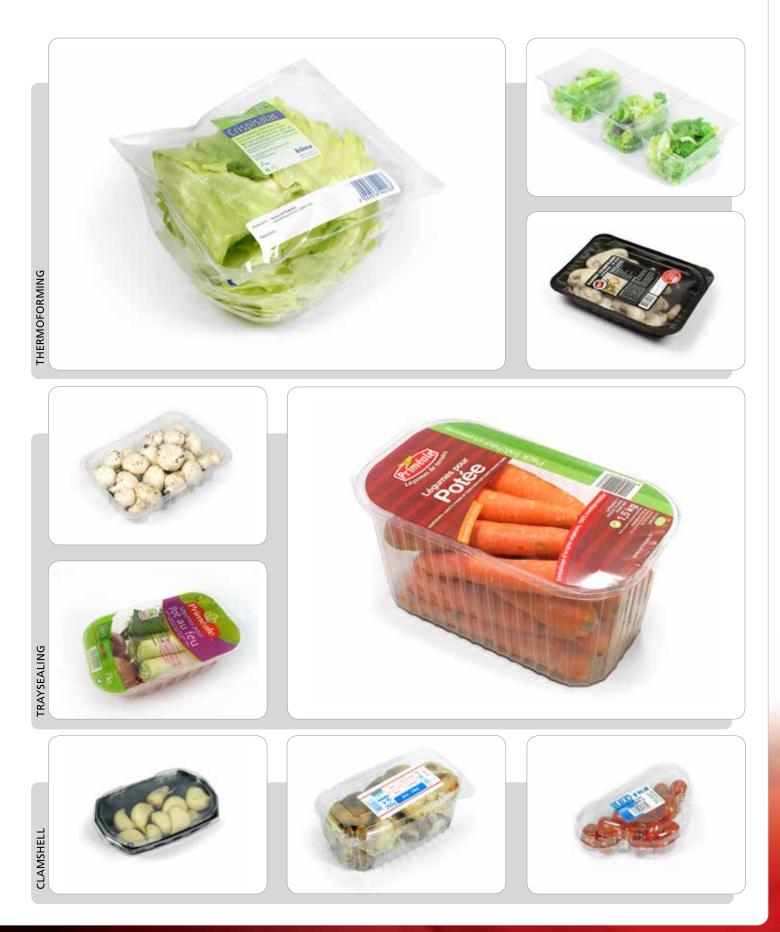
An economic tray packing for fresh vegetables that protects the product and enhances its aspect with a printed film, which allows using labelling for the identification and characteristics.



Fresh vegetables in trays

Thermoforming and Traysealing packaging and trays with cover

Fresh vegetables in rigid or flexible trays which allows stacking for their transportation and display. The perfect package for ready to eat vegetables. Optionally, tray can have a rigid cover to increase mechanical protection.



Fresh vegetables in trays

Flow Pack packaging

The flow pack wrapping protects the product and improves its presentation, as well as their identification and optionally offers the possibility to extend the shelf life of the product controlling the moisture and breath.



Fresh vegetables without tray













Unitary or grouped vegetables without tray packaging to extend the shelf life of the product.



FLOW PACK WITHOUT TRAY

Fresh vegetables without tray

Flow Pack and Vertical packaging

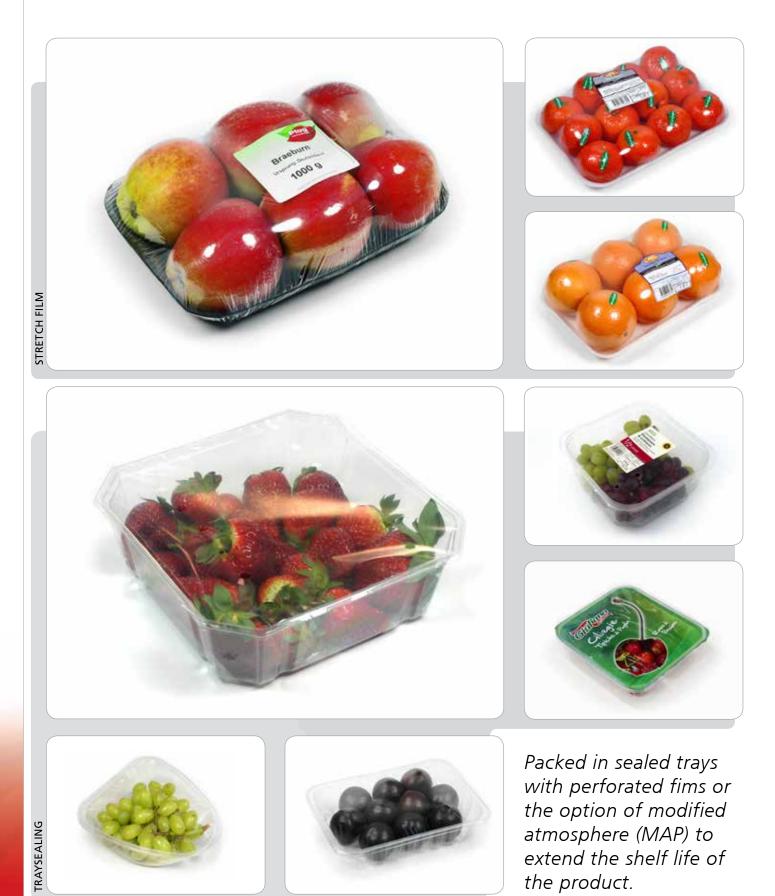
Fresh vegetables in horizontal and vertical flow pack. Shrink packs for whole or portions protects product allowing labelling. Vertical pack with steady bottom option to display packages on shelves.



Fresh fruit in trays

Stretch film and Traysealing packaging

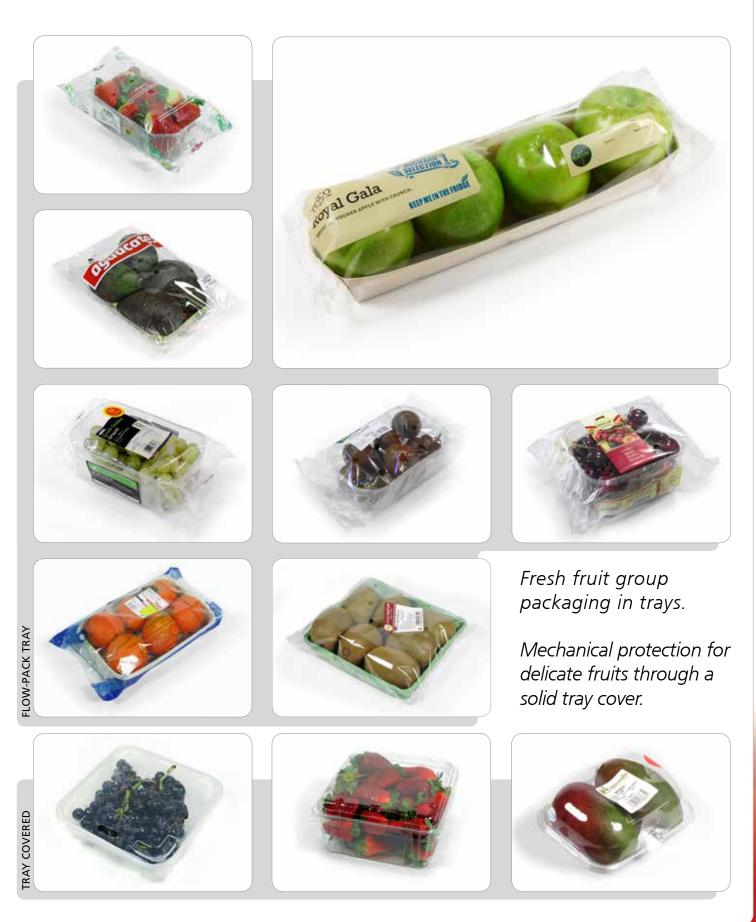
Delicate fruit packaging in trays that in addition to protecting the product, it also extends its shelf life. These packs have the main purpose of maintaining the freshness of the product showing an attractive presence to the consumer.



Fresh fruit in trays

Flow Pack packaging and trays with lid

Fresh fruit in trays for delicate products. The wrapping film or tray & lid pack performs the most suitable atmosphere to keep product's freshness during transport and shelf life.



Fresh fruit without tray

Flow Pack packaging

Fresh fruit in groups, branches or unit without tray to protect and enhance its natural aspect. The most economic package with an excellent presentation which allows labelling keeping product's freshness until consumption.





Unitary or grouped packaging in bags or shrink for a reduced loss of moisture-weight.

Packaging of portions preserving freshness.





FLOW-PACK

FP SHRINK









Processed and ready to eat, herbs, pickles ...

Fresh cut vegetables, ready to eat dishes based on fruit or vegetables as well as special vacuum or skin packs to extend shelf life of products.



Automation of packaging lines

ULMA Packaging Automation

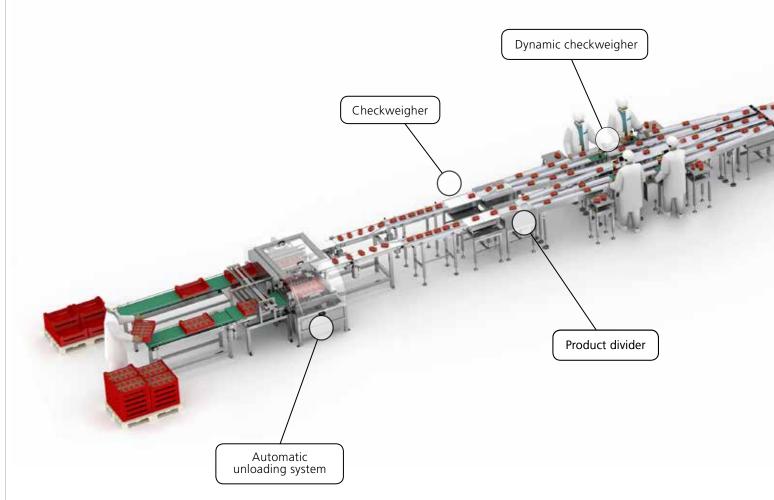
ULMA offers COMPLETE SOLUTIONS:

- Primary processes:
 - Handling
 - Alignment
 - Collating
 - Transport, loading or dosing of products
- Secondary processes:
 - Weighing
 - Labelling
 - Inspection and control
 - Crate packing and final palletizing

ULMA Packaging Automation has developed robotic automatic loading systems, (including artificial vision systems that allows classifying according to size, shape, colour...) automatic unloading and boxing.

All controlled via a Centralized Control System, offering the integration with the production software.

The offer is completed with internal logistics transport systems for empty and/or full crates as well as the denesting and transport of trays.

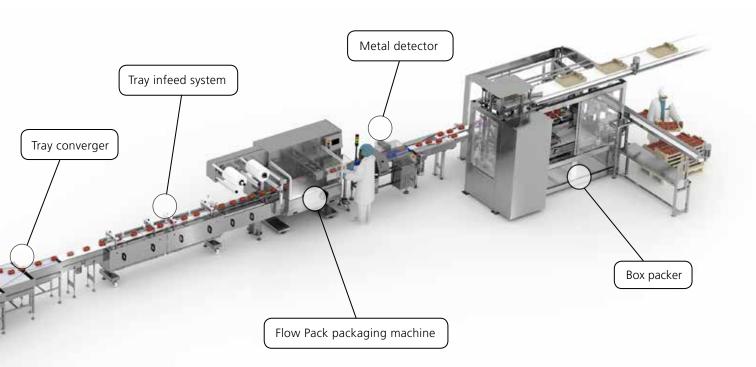




Strawberry trays in plastic crate



Strawberry tray



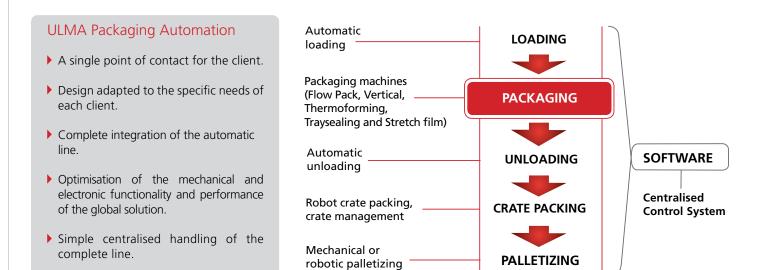


Strawberry tray in flow pack package

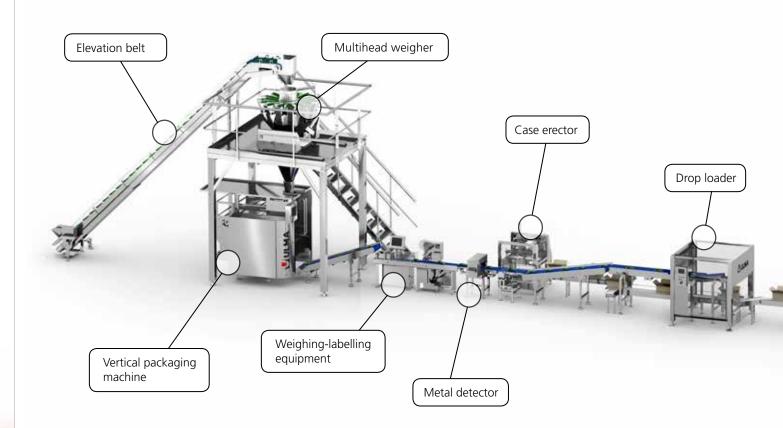


Automatic boxing

Automation of packaging lines



Full line of frozen vegetables.









Frozen vegetables

Packaged in VFFS

Automatic boxing (Drop loader)

Packaging types and technologies

THERMOFORMING - TF

Flexible pouches or rigid trays are formed by automatic machines called thermoformers. The internal cavity is formed, using a roll of base film, where the product is placed. The container is then sealed with a second film, with the option of vacuum or gas flushing.

TF - VACUUM

Flexible film packs with partial of full vacuum, extending the shelf-life of the product and enhancing the appearance.

TF - MAP

Rigid or flexible film packs are sealed with a protective atmosphere, to enhance colour and extend the shelf life of the product.

TF - SKIN

Vacuum packages where the film fully adapts to the shape of the product improving its aspect and conservation.

TRAYSEALING - TS

Sealing of preformed trays in automatic machines called traysealers. The trays can be foam or rigid.

TS - MAP

Packs with protective atmosphere inside a barrier tray, to extend shelf-life of the product.

VERTICAL (VFFS) - VT

The pack is formed by vertical flow pack wrapping machines. A tube of film is formed around a product and sealed with one longitudinal and two transversal seals.

This packaging technology offers a completely hygienic pack, with high production capacities where the product is vertically charged.

VT - VACUUM

Flexible film packs with partial of full vacuum, extending the shelf life of the product.

STRETCH (Stretch film) - SF

The product is placed in a tray and conveyed to a stretch wrapping machine where stretch film covers the product and seals the film under the tray. This very flexible technology, easily adapts to the needs of the client.

It offers a hygienic and aesthetic package where the product protrudes the height of the tray.

Printed film and labelling can be used to further improve aesthetics and provide detailed information for comsumers.

FLOW PACK (HFFS) - FP

A single roll of film is folded and formed as a tube around the product. One longitudinal and two transversal seals are created to close the pack.

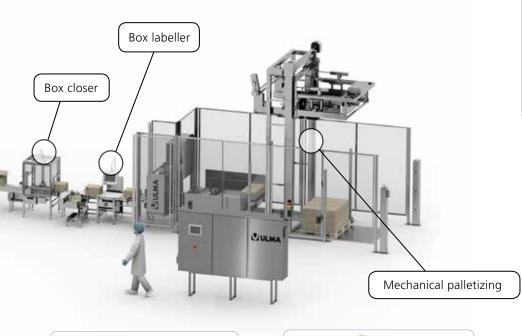
FP - MAP

Packs enclosed with a protective atmosphere in a barrier film to extend the shelf-life of the product.

FP- SHRINK

An economic and hygienic shrink pack solution designed for large production requirements.

Product wrapped in shrink polyolefin passes through a shrink tunnel forming a protective "second skin".





Closing and labelling of boxes



Palletizing of boxes

Service The ULMA advantage

At ULMA Packaging we are dedicated to working in close collaboration with our clients, which has become our key to customer satisfaction. Our Customer Focus though Service Excellence is the unique ULMA Advantage.



- Training led by a team of specialists.
- Our training includes courses both at ULMA and on-site.
- ULMA offers modern communication technology for longdistance training, including video conferencing.
- Training is carried out during start-up and full production. The training includes technical information on how to effectively use, clean and maintain the machine, along with important safety training.



Preventative Maintenance

Keeping your packaging machines in good working conditions ensures higher productivity and profitability, making the recovery time for your investment much shorter.

ULMA offers customised preventive maintenance service including visits at regular intervals over the year by a trained technical ULMA specialist, who will thoroughly inspect the equipment, focusing on its major mechanisms, controls and safety elements.



- Spare parts in more than 20 countries, ensuring availability in the shortest time possible.
- Original spare parts, all of the highest quality.
- Guaranteeing delivery of standard spare parts to any part of the world within 24 hours via the express service and 3-4 days via normal service and for non-standard parts.
- ULMA guarantees the availability of any spare part for at least 10 years after the machine's initial supply.

Technical Service

- We have highly qualified technicians in all countries around the world, providing a fast, locally-based service.
- Extensive Service Availability, offering access to resources and ease of contact from anywhere in the world.
- Immediate call centre service with technical experts specialising in the range of product lines.
- Remote online assistance, allowing our programmers to remotely control your machine and diagnose problems.
- Option to purchase spare part kits with the machine.
- Retrofit existing machinery in line with new formats or applications.



ULMA Packaging

With over 50 years' experience, we are a worldwide reference in the design and manufacturing of high-tech packaging systems and equipment.

More than 50 years evolving, innovating, and perfecting our technology and services. An extensive network to offer solutions anywhere in the world, and to fully satisfy customers that place their trust in us.

For additional information, please visit our website:

www.ulmapackaging.com



ULMA

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