

Medical and Pharmaceutical

Specialists in Medical and Pharmaceutical

Medical and Pharmaceutical industries, require reliable, reproducible and traceable packaging solutions to offer maximum protection for sterilised Healthcare devices and products.

ULMA offers packaging solutions fulfilling all of the standards required by those industries. Using plastic films, Tyvek® , medical-grade paper, aluminized materials, to protect products against microorganisms and moisture.

Sterilised packages

Our packaging solutions can provide packages designed to be sterilized by any of the following means:

- Steam-heat treatments.
- Use of gases (e.g., ethylene oxide). The package is gas permeable through the pores on the lidding material (thermoformed) or a band that partially covers the packaging (flow pack / thermoformed).
- Gamma or E-Beam radiation.

Easy-open packages

We can design packages to be ease-opened on any usage circumstance. Taking into consideration, conditions where the package will be opened and product be used, e.g. flaps, zig-zag, etc.

Assistance with standards

ULMA offers guidance in GMP, GAMP5 and ISO directive validation processes, assisting and supporting to obtain the (IQ) Installation Qualification and (OQ) Operational Qualification.

Comprehensive Package

ULMA has a wide packaging solutions portfolio, suitable for the Medical and Pharmaceutical industries, with seven different packaging technologies: Flow Pack (HFFS), Thermoforming (Form, Fill and Seal), Vertical (VFFS), Traysealing, Blister, Shrink and Sleeve Wrapping.

Easily covered from product handling, boxing and palletizing after the packaging process.



Safe and functional packages

Design adapted to the product's specifications and its functional requirements

Package features: customised shapes, sterilisable materials, easy-open aids, lot number, date of expiration and traceability data printing possibilities, guarantee package functionality and product protection.



Customised shapes packages

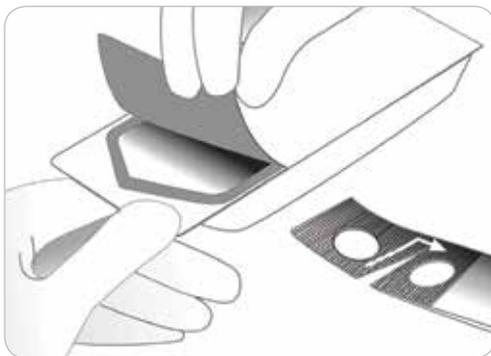
Certain products require custom shapes or packages with multiple cavities to form medical kits.

Our packaging machines incorporate great flexibility and rapid setup features to quickly change formats.



Materials

The possibility of using different materials on the same machine or even on the same package offers our solutions a wide range of possibilities.



Easy-open

Being easy to open is an essential feature for packages that need to be handled with gloves.

Without reducing the required airtightness, there are different options to enable the package to be opened easily and quickly: unsealed flaps, grip holes, pre-cut, thumb holes, zig-zag, Chevron seals ...



Traceability

Traceability is essential across the entire logistics chain. Our equipment enables the incorporation of labelling and coding systems based on different technologies: thermal printing, inkjet printing, pad printing etc.

The variable information (name, batch, serial number, bar codes, expiry date, etc.) can be cleanly printed on the label or directly onto the packaging material.

Disposable plastic devices

Single-use plastic devices

ULMA is capable to design package solutions for disposable and one-time use medical devices; preserving sterilised conditions until package is opened.

Depending on the characteristics of the product, it is possible to make flexible or rigid packages.



TF - RIGID

TS



TF - FLEXIBLE

Disposable plastic devices

Single-use plastic devices

ULMA is capable to design package solutions for disposable and one-time use medical devices; preserving sterilised conditions until package is opened. Tamper-evident packages can be also easily manufactured.



FP



SW

Flexible, affordable and easy-open packaging that protects the product.

Medical textiles, gauzes, sponges etc.

Single-use medical textile products

Sterilisable products, can be packaged on optimised hybrid lidding material, reducing high-cost materials consume through a patented mixing lidding system, where a Tyvek® strip is used instead of the whole package lidding surface. Affordable wrapping for grouped products are also available.



TF - FLEXIBLE

SHW

SW



TF - RIGID



FP

Injectables

Maximum protection

Injectable and delicate products, require packaging solutions that guarantee strong mechanical protection as well as preserve tough sterilization conditions. ULMA satisfies all of those requirements with diverse packaging technologies.



TF - FLEXIBLE

Packages suitable for sterilisation processes (EtO, steam,...)



TF - RIGID

Medical devices

Devices designed for surgery and examinations

Packaging solutions for devices such as drills, scalpels, prostheses, implants, etc. that need to be packaged with guaranteed reliability.

Depending on product characteristics, ULMA has alternatives to accomplish the required degree of protection and sterilisation level.



TF - RIGID

FP

Pharmaceutical

OTC Over-the-counter pharmaceuticals

ULMA is capable to perform affordable packaging for OTC pharmaceutical products, delivering optimum protection.



FP

TF-RIGID



VT



BL



SHW

Packaging Technologies

FLOW PACK (HFFS) - FP

Packaging is accomplished through a roll of film, forming a tube that is sealed along all the package length and two more transverse sealing areas on the head and foot of the package.

Plastic films, Medical-grade paper, Tyvek®, Aluminised films can be used.

Designed for manufacturers who need affordable packaging with highly flexible formats and high production levels.

THERMOFORMING - TF

Trays are formed by means of heat and pressure (thermoforming), allowing manual or automated product filling on their cavities, sealing of the tray with a lidding material is the next process stage to finally enter into longitudinal and traverse cutting to obtain individual packages. Fixed and variable data is usually printed after sealing and before cutting stages.

Material commonly used are: plastic films for both, bottom and lidding; permeable materials for the lid as Medical-grade paper, Tyvek®; aluminium and metallic materials.

This technology is mainly used on mass medical devices production.

▶ TF - Flexible

Packages produced with a flexible film base.

▶ TF - Rigid

Packages produced with a rigid film base.

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 is fully hygienic technology with high production requirements.

Designed for gravity-fed or vertical feed products.

TRAYSEALING - TS

Sealing of preformed rigid trays in automatic machines called traysealer machines.

Designed for medium-batch manufacturing.

BLISTER - BL

Sealing of cavities formed in the automatic machines called blister packaging machines or blister thermoforming machines. A roll of film is used to form the lower cavity into which the product is placed before sealing it with another film which also acts as a cover.

Provides tamper-proof packaging with optimum mechanical protection.

Especially designed for products with high added value, for over-the-counter sale.

Enables customisation of the packaging.

SLEEVE WRAPPING - SW

Sleeve wrapping machines designed for packaging with shrink film when the product does not need to be completely sealed. Two rolls of film are used, welded crosswise to obtain a shrink wrap around the product.

Provides perfect wrapping for distribution and transportation.

Designed for groups of jars, boxes and cases.

SHRINK WRAP - SHW

Automatic and manual machines that work with shrink film and provide a high-quality wrapping that is free of folds, flaps, etc. after passing through a shrink oven which adapts the film to the shape and dimensions of the product.

It enhances the appearance of the wrapped product and protects it from tampering.

Specially designed for groups of boxes and cases.

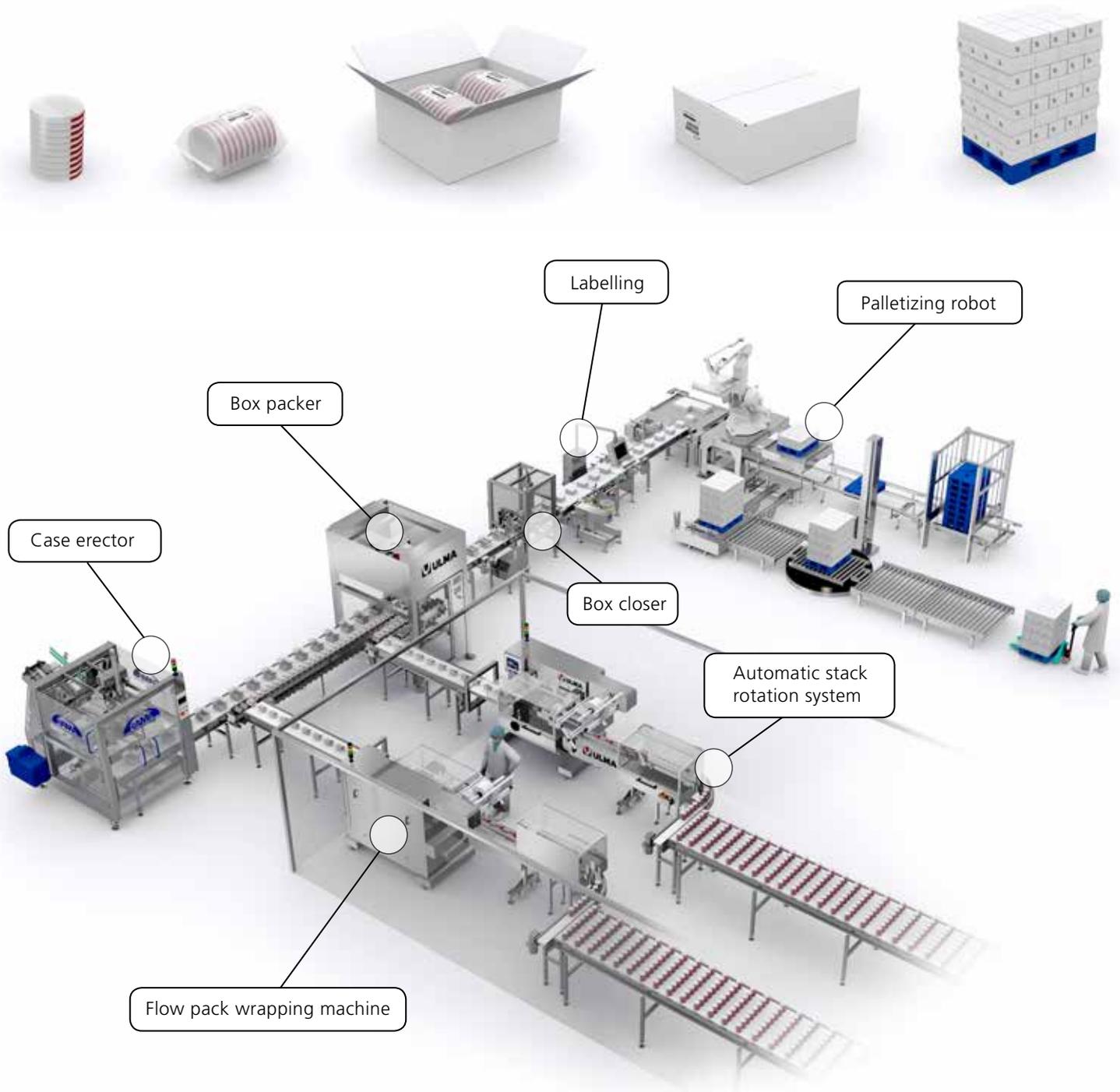
Automation

Automated Processes

ULMA Packaging Automation offers comprehensive solutions that include the automation of the processes for each packaging system: alignment, handling, transportation and product loading, post-packaging unloading and finally boxing and palletizing.

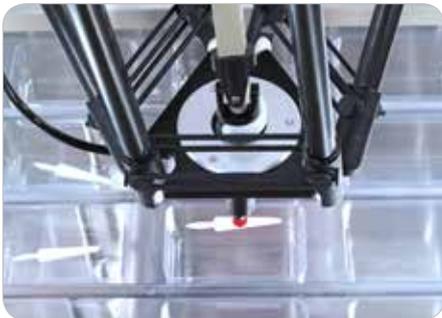
This division of ULMA Packaging develops vision system-integrated applications in its technological centre, enabling the automation of product loading and inspection tasks and the subsequent unloading of the packaged product. All functions performed by ULMA robots are integrated into the packaging line and monitored through the Centralised Line Control System.

Packaging system for groups of Petri dishes with automated boxing and palletizing.



Surgical sponge and spatula packaging system

Automated loading of the product (sponge and spatula) into the thermoforming machine with an iodine dosing system.



Robots for loading the components of the contents of the package.

Volumetric, flow metering and peristaltic dosing systems.



Thermoforming machine with automatic loading and dosing.

Services

Medical and Pharmaceutical



At ULMA Packaging we believe that developing a close working relationship with our customers is the best way of ensuring their satisfaction, always providing a unique customer-oriented service.

Validation

At ULMA we design and produce packaging solutions to meet your needs and efficiently comply with all legal requirements.

Our qualification and validation processes cover the following areas:

- Risk analysis.
- Functional specification.
- Validation plan.
- Installation and operational qualification.

Calibration of the packaging

The machines have systems that can be calibrated so that the packaging parameters and critical processes are fully certified and approved.

Project management

From devising the packaging idea and subsequently defining the project, at ULMA you will find a team of specialists who will advise you and accompany you throughout the process until the start-up of the packaging solution in your facility.



FDA CFR 21 Part 11

In order to meet the requirements of standard FDA CFR 21, our UPC control can be equipped with the following features:

- Management of users and groups.
- Password management.
- Audit trail.
- Recipe change log.
- Data backup.

Training

We have an in-house team of technicians specialised in training so that we can offer courses, either in our facilities or yours.

These courses teach you how to use and operate the packaging solution, with a particular focus on care, maintenance, cleanliness and personal safety.

Technical Support

We have highly qualified in-house technicians in every country where we operate, providing a local service and fast response times.

ULMA Packaging

Thanks to an experience of more than 50 years, we are a worldwide reference in the design and manufacturing of high-tech packaging systems and equipment.

More than 50 years evolving, innovating, perfecting our technology and our services. An extensive network that is available to offer you 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



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