

Global Packaging



# THERMOFORM RANGE

Hygiene, performance and reliability

# Welcome to ULMA Thermoforming

ULMA offers you the global THERMOFORMING packaging solution.

"Global" because it is **available in any country**, no matter where you are.

"Global" because it offers you different **packing solutions**.

"Global" because it offers you a customised **pre-sales assessment and after-sales service**.

"Global" because it also offers you the option of **automating your packaging process** with automatic loading / unloading systems and the integration of **full production lines**.

"Global" because its wide range of equipment allows you to choose the **machine model that suits your needs**.



## A thermoformer for every application

Six different models offer **solutions customized to your needs**. They all meet the most stringent requirements of **quality, reliability and safety** demanded by today's market.

All the models in the range have been designed with **ergonomics and ease-of-use in mind**. **Flexibility** for format changes, a common feature in all the models, along with a high level of efficiency allows and guarantees the highest **return** on your investment.



## Experience and knowledge

With over 50 years of experience developing packaging equipment and solutions on an international scale, allows us to place our **knowledge and experience** at your disposal, ensuring a tailor-made solution to suit your needs.

At UPTC, the ULMA Packaging Technology Centre, the different thermoforming models are designed and developed taking into account the market's most demanding requirements with respect to **performance, hygiene and quality**.

Special care is also taken to build all our models with the highest quality, **commercially available components and minimising the associated maintenance costs**.

Our experts work closely with customers, technology centres and partners from different sectors to constantly develop new machines and systems that adapt to the market trends. These developments offer innovations to **optimising the use of packaging material**, reducing operating costs and minimising the impact on the environment.

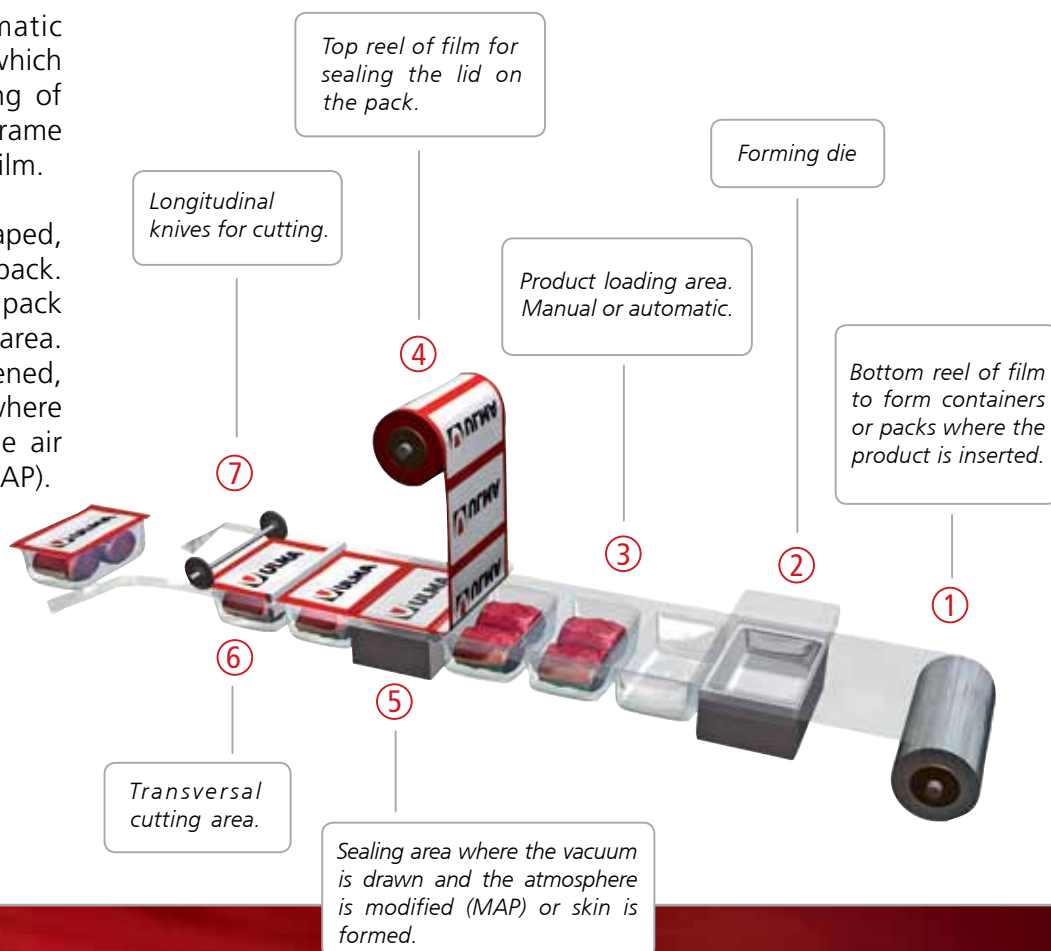


## Introduction to the thermoformed pack

Thermoformers are automatic horizontal packaging machines which are characterised by the forming of the pack within the machine's frame using a top and bottom reel of film.

Firstly, the bottom film is shaped, forming an open container or pack. Product is then placed in the pack utilising the available loading area. The packs, now product laden, advance to a sealing station where vacuum is drawn to remove the air and if necessary gas is added (MAP).

Finally, the top film seals a lid over the packs and the individual packs are separated in the cutting station.



# Packaging solutions

## ► VACUUM

Packs vacuumed to cost effectively extend the product's shelf-life.



## ► MAP

Packs with modified atmosphere (MAP) to extend product's shelf-life and enhance colour.



## ► SKIN

Skin packs are designed to follow the shape of the product, enhancing the display. The strong vacuum drawn in the packs extends product shelf-life, while the top film holds the product in place for an attractive vertical presentation.



## ► SHRINK

A pack designed for different-sized products with the film adapting to its size and shape, improving preservation and offering a fresh look.



## ► SHAPES

Packs formed to match the contour of the product's shape. The natural shape of the pack offers product differentiation, ideal for value added lines.



## ► MULTI-CAVITIES

Packs with several cavities for different products or multiple individual units.



## ► DISPLAY OPTIONS

Packs to be displayed standing up, lying down or hanging up.



## ► EASY-TO-OPEN SYSTEM

Easy-to-open systems with unsealed corners, a zig-zag cut or functional cuts.



## ► RECLOSABLE

The possibility of offering reclosable packs with a pre-shaped lid, a zipper system, re-sealable films, additional lids, etc.



## ► MULTIFILM

A combination of different types of film to reduce pack cost is a standard feature in the medical sector. This feature enables packs to be partially or selectively opened.



# Main Features

All the models in our new range of thermoformers have been designed to perform beyond the most stringent requirements.

Today's demanding sectors insist on a high degree of hygienic operating systems. All elements in contact with the product must allow for washing and sterilization processes to eliminate possible contamination. These high level hygiene standards require special design and attention to detail to support the washing and disinfecting processes.



## **Accessibility**

All our models are easy to access for inspection, maintenance and cleaning.



## **Hygienic anti-bacteria design**

All the areas prone to bacterial build-up and growth are eliminated by either implementing closed, sealed systems or allowing sufficient separation for effective cleaning during the washing process.



## **Resistance to corrosion**

The machines are manufactured from high-quality stainless steel and food-grade approved materials, all corrosion resistant.

# Structural Features



## **IP protection level**

The most critical, water sensitive parts are protected by watertight cabinets. The electrical and pneumatic connections have a IP rating of IP65.



## **Reduction of stagnant liquids**

The inner and outer surface areas are specifically designed to promote effective removal of water and detergent during the cleaning and disinfecting process.



## **Certifications**

The design, based on the ISO 14159, EN 1672, 3A and EHEDG standards and recommendations, encourages:

- The cleaning processes to be optimised.
- The sterilising times to be reduced.
- The installations to be authorised by the strictest audits.
- The risks of contamination in the packaging process to be reduced.

# Main Features

## Functional features



### **Ease-of-maintenance**

After-sales service and maintenance is key to the design philosophy of our machines. For this reason, unlike other manufacturers, ULMA manufactures thermoformers with high quality, commercially available components, which are worldwide branches.



### **High-performance operations**

Depending on the level of operating performance and production, both pneumatic and electrical operating systems are available.



### **Top reel-holder**

The reel-holder has been designed to be separate from the electrical cabinet, allowing:

- The reel-holder to be placed where it is most effective.
- A portico-shaped design to offer stability and robustness, allowing the film to be effectively wound and fed into the machine.



The entire range of our thermoformers are extremely robust and reliable, harnessing high production capacities and efficiencies that stand the test of time.



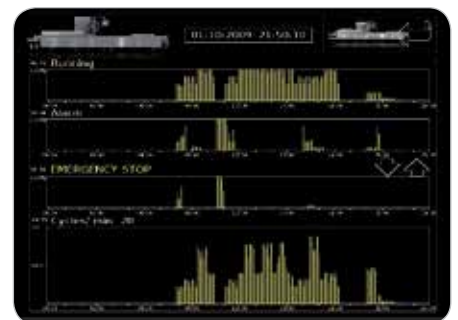
#### **Different formats**

The option of forming different formats in the same machine via tools that offer flexibility and variety.



#### **Change in format**

A fast format-changing system in all the thermoformers utilising unique folding moulds, extraction rails, etc. depending on model.



#### **Production analysis and statistics**

Monitoring and analysis software is available that allows the production in real-time to be tracked and the daily or monthly statistics to be extracted.

# TFS 200 – TFS 300



## Entry Level

These models are geared for the customer moving from manual or semi-manual packaging systems to an automatic packaging line, yet still wants the same advantages of any continuous-line packaging system. Versatility, ease-of-use and quick, simple format changes ensure these packaging solutions integrate and complement other production lines.

The great advantage of this series is that product is packed with the same high quality finish as thermoformers with more features.

An ideal model for small to medium size production facilities, which require basic operating systems, with the flexibility of adapting to future product changes and presentations, while maximising efficiency at minimum operating costs.



	TFS 200	TFS 300
MAX. FILM WIDTH	420 mm. (16.5")	420 mm. (16.5")
MAX. ADVANCE	360 mm. (14.1")	360 mm. (14.1")
MAX. HEIGHT	110 mm. (4.3")	130 mm. (5.1")
TYPE OF FILM	F/R (500 µ)	F/R (500 µ)

Signs in the table: "F" Flexible, "R" Rigid.

**ULMA reserves the right to change the specifications without any previous notice.**

# TFS 400 – TFS 500



## Versatility for medium production lines

This series offers a perfect fit for medium production capacities, requiring a feature rich design in demanding operating conditions.

The modular design of this series allows a high degree of customisation and a large variety of optional features necessary for automatic packaging processes, with optional automatic product loading and unloading systems.

Designed for medium capacities in a compact, efficient frame, our thermoformers boast ease-of-use and a high degree of customisation and integration to match the most technically advanced machines on the market today.



	TFS 400	TFS 500
MAX. FILM WIDTH	420 mm. (16.5")	520 mm. (20.4")
MAX. ADVANCE	400 mm. (15.7")	500 mm. (19.6")
MAX. HEIGHT	130 mm. (5.1")	150 mm. (5.9")
TYPE OF FILM	F/R (500 µ)	F/R (700 µ)

Signs in the table: "F" Flexible, "R" Rigid.

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# TFS 600 – TFS 700

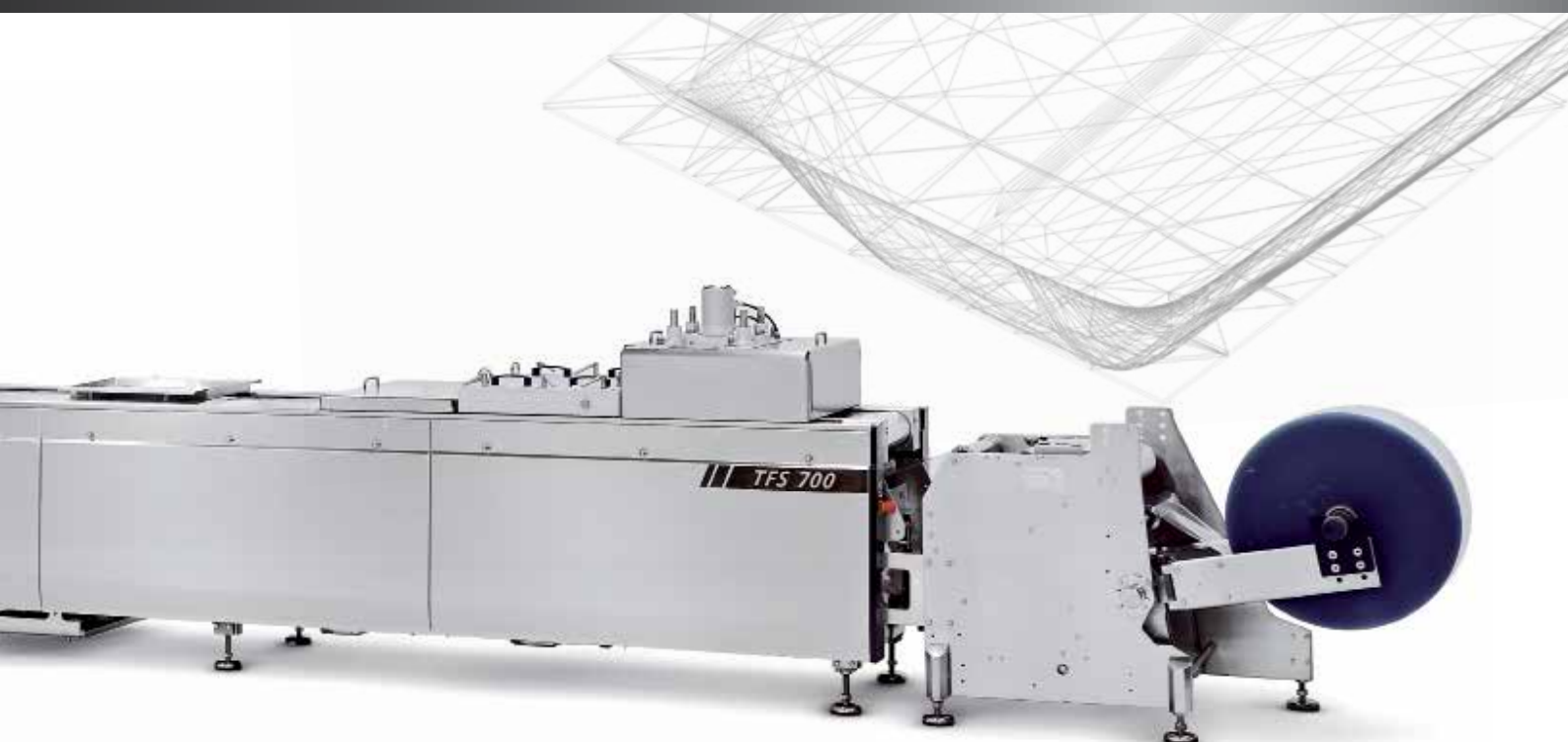


## Maximum output and flexibility

The perfect match for facilities demanding high output capacities with strict hygiene and cleaning standards.

Specially designed to offer the highest degree of customisation, with options to include various automatic systems, with the aim of providing an integrated, high-performance packaging line.

The highly robust structure allows high production capacities with maximum versatility.



	TFS 600	TFS 700
MAX. FILM WIDTH	620 mm. (24.4")	720 mm. (28.3")
MAX. ADVANCE	600 mm. (23.6")	1100 mm. (43.3")
MAX. HEIGHT.	150 mm. (5.9")	210mm. (8.2")
TYPE OF FILM	F/R	F/R

Signs in the table: "F" Flexible, "R" Rigid.

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# Fully automated lines



## ► Centralised line control

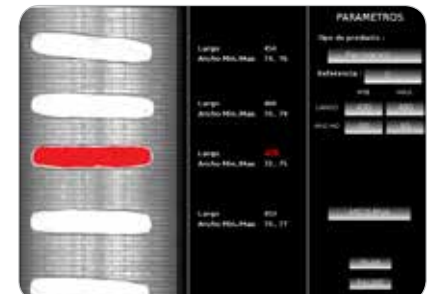
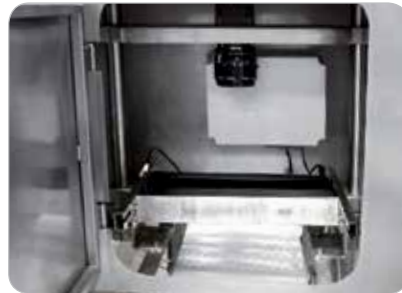
The control of the ULMA line allows all components in the automated and fully integrated lines to be supervised and coordinated.

This system facilitates different recorded parameters to be controlled and monitored.



## ► Computer vision

Visual inspection of product quality and final pack appearance.



## ► Product loading

- Loading robot: 2, 3 and 4 axes.
- Multi-head weighers.
- Specialised dispenser for liquids, pasty, pulps etc.



## ► Unloading and case packing

- Pack unloading robot.
- Case packing robot.
- Robots that group, align, stack or reject packs.



The ULMA IPC central control system allows the packaging machine, along with other integrated equipment in the packaging line, to be controlled and synchronised.

#### ► Feeding

- Slicers with integrated weight control.
- Loading systems with retractable conveyor belt.



#### ► Primary packaging

- Labelling (top and bottom).
- Printing systems.
- C labelling.



#### ► Inspection and alignment systems

- Quality control inspection:
  - Weigher.
  - Metal detector.
  - X-ray detector.
  - Sealing inspection.
- Automatic alignment system.



#### ► Weighing, pricing and labelling equipment



# Technical specifications and optionals



	TFS 200	TFS 300	TFS 400
MAXIMUM FILM WIDTH	420 mm. (16.5")	420 mm. (16.5")	420 mm. (16.5")
MAX. ADVANCE	360 mm. (14.1")	360 mm. (14.1")	400 mm. (15.7")
MAXIMUM HEIGHT	110 mm. (4.3")	130 mm. (5.1")	130 mm. (5.1")
TYPE OF FILM	F/R (500 µ)	F/R (500 µ)	F/R (500 µ)
LENGTH OF FRAME	3000-4000 mm. (118.1"-157.4")	3000-4000 mm. (118.1"-157.4")	3000-5000 mm. (118.1"-196.8")
FRAME	COMPACT	COMPACT	COMPACT UP TO 4000 (157.4")
MAXIMUM DIAMETER BOTTOM REEL	350 mm. (13.7")	350 mm. (13.7")	350 mm. (600) - 13.7"(23.6")
MAXIMUM DIAMETER TOP REEL	300 mm. (11.8")	300 mm. (11.8")	300 mm. (11.8")
UPC CONTROL PANEL	7" (10")	7" (10")	7" (10")
PRE-HEATING STATIONS	-	1	1
AIR FORMING	S	S	S
VACUUM FORMING	-	O	O
FORMING WITH MECHANICAL AID	-	O	O
SKIN	O	O	O
SHRINK	-	O	O

Signs in table:

"S" (Standard)

"O" (Optional)

"N" (Quantity to be defined depending on the application)

"F" Flexible

"R" Rigid

**ULMA reserves the right to change the specifications without any previous notice.**



### TFS 500

520 mm. (20.4")

500 mm. (19.6")

150 mm. (5.9")

F/R (700  $\mu$ )

4000-7000 mm. (157.4" - 275.5")

MODULAR

450 mm. (600, 800, 1000)-17.7" (23.6", 31.4", 39.3")

350 mm. (13.7")

10" (15")

2

S

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### TFS 600

620 mm. (24.4")

600 mm. (23.6")

150 mm. (5.9")

F/R

4000-10000 mm. (157.4" - 394")

MODULAR

450 mm. (600, 800, 1000)-17.7" (23.6", 31.4", 39.3")

350 mm. (13.7")

10" (15")

N

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### TFS 700

720 mm. (28.3")

1100 mm. (43.3")

210 mm. (8.2")

F/R

5000-22000 mm. (196.8" - 866")

MODULAR

450 mm. (600, 800, 1000)-17.7" (23.6", 31.4", 39.3")

350 mm. (13.7")

10" (15")

N

S

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# Service

## The advantage of ULMA

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



### Training

- Training conducted by a team of specialists.
- Our training includes both courses at ULMA and onsite installations.
- ULMA offers modern communication technology for holding long-distance training, including video conferencing.
- Training is conducted during start-up and full production. The training includes technical detail of how to effectively use, clean and maintain the machine, along with important safety training.



### Preventative Maintenance

Maintaining your packaging machines in good working conditions assures higher productivity and profitability, and a shorter recovery time of your investment.

ULMA offers customized 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 the major mechanisms, controls and safeties of the machine.



### Spare Parts

- Machine spare parts in more than 20 countries ensures availability in the least amount of time possible.
- Original spare parts, of the highest quality.
- Guaranteed delivery of standard spare parts to any part of the world within 24 hours via 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 locally based, fast service.
- We offer extra services for special promotional periods.
- A Broad Service Availability, offers access to resources and the ease of contact from anywhere in the world.
- Immediate telephonic technical support via technical experts specialised in each product line.
- Remote assistance via the Internet, enabling our programmers to remotely take control of your machine and diagnose problems.
- Option to purchase various spare part kits with the machine.
- Retrofitting of machines already installed to new formats or applications.

### 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](http://www.ulmapackaging.com)



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