ULMA

Global Packaging

EUROPE TECHNICAL CONFERENCE

TIA Technical conference 2019

Packaging of tortillas

Barcelona
30-10-2019

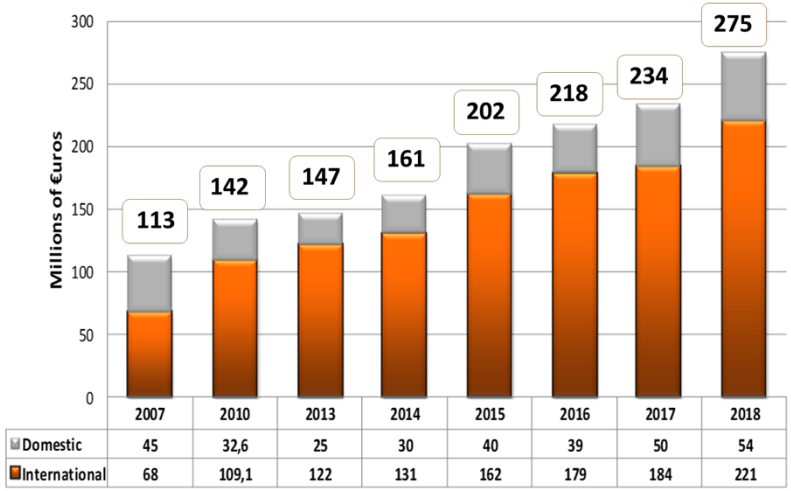
Agenda

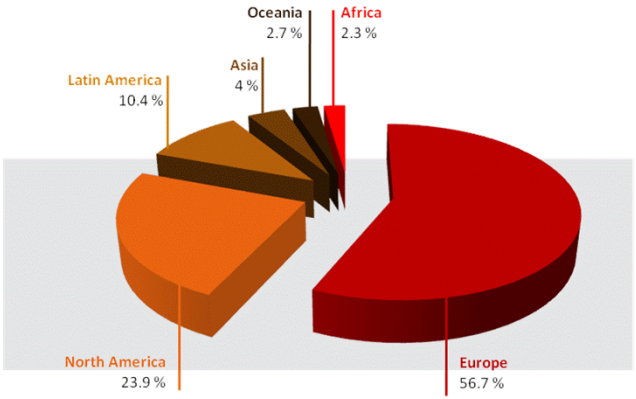
01 Ulma Packaging overview

02 MAP applications wrapping tortillas

03 Add valued packs: recloseable approach

03 Conclusions





More than 50 years providing packaging solutions

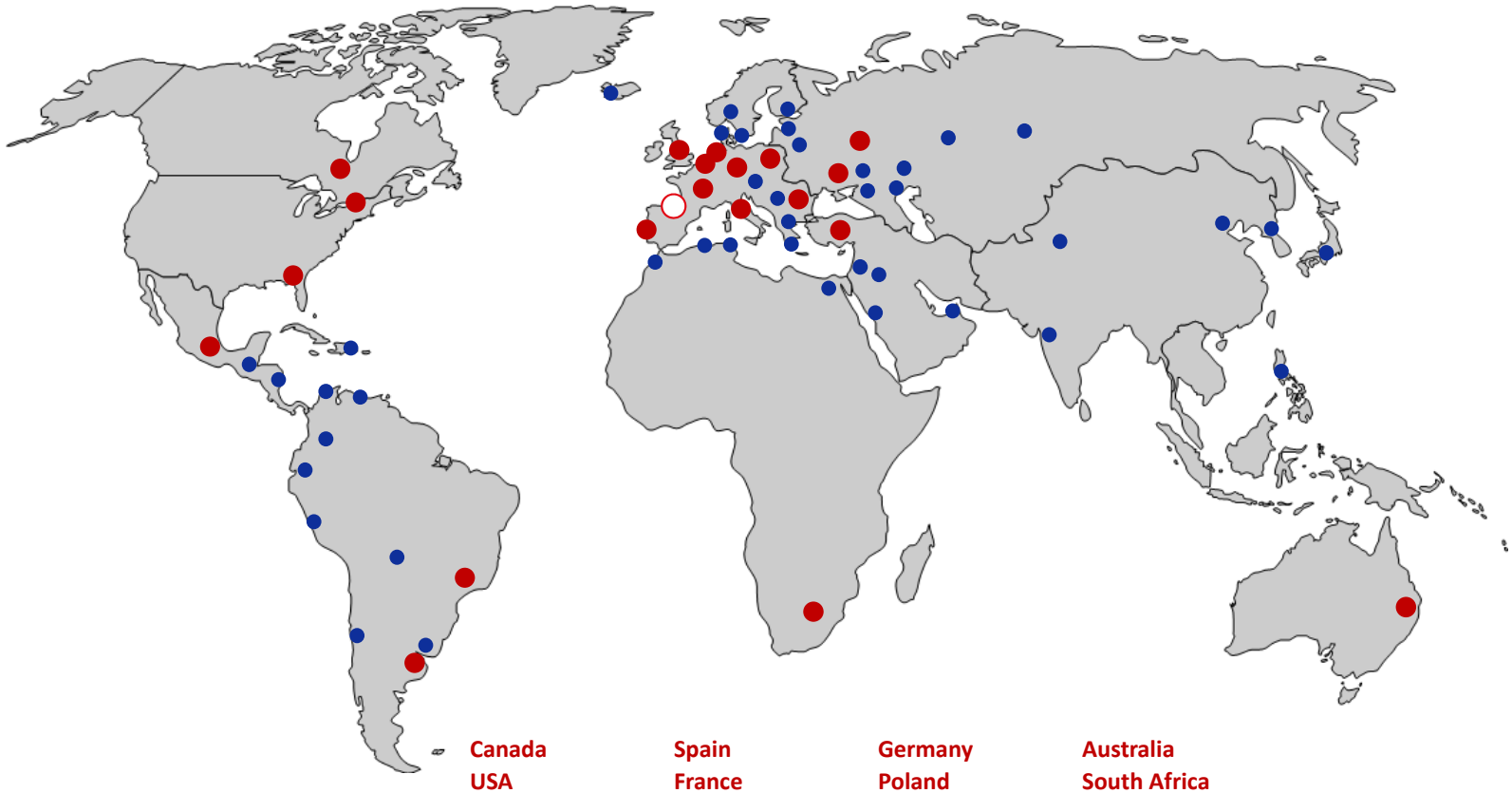
Employes: 1550 worldwide (900 en Headquarters, 650 filiales)

Turnover 2018: 275 mill €

Growing rate at the last 8 years: 51%

75% of the sales are **export sales**

GLOBAL ORGANIZATION WITH LOCAL SUPPORT



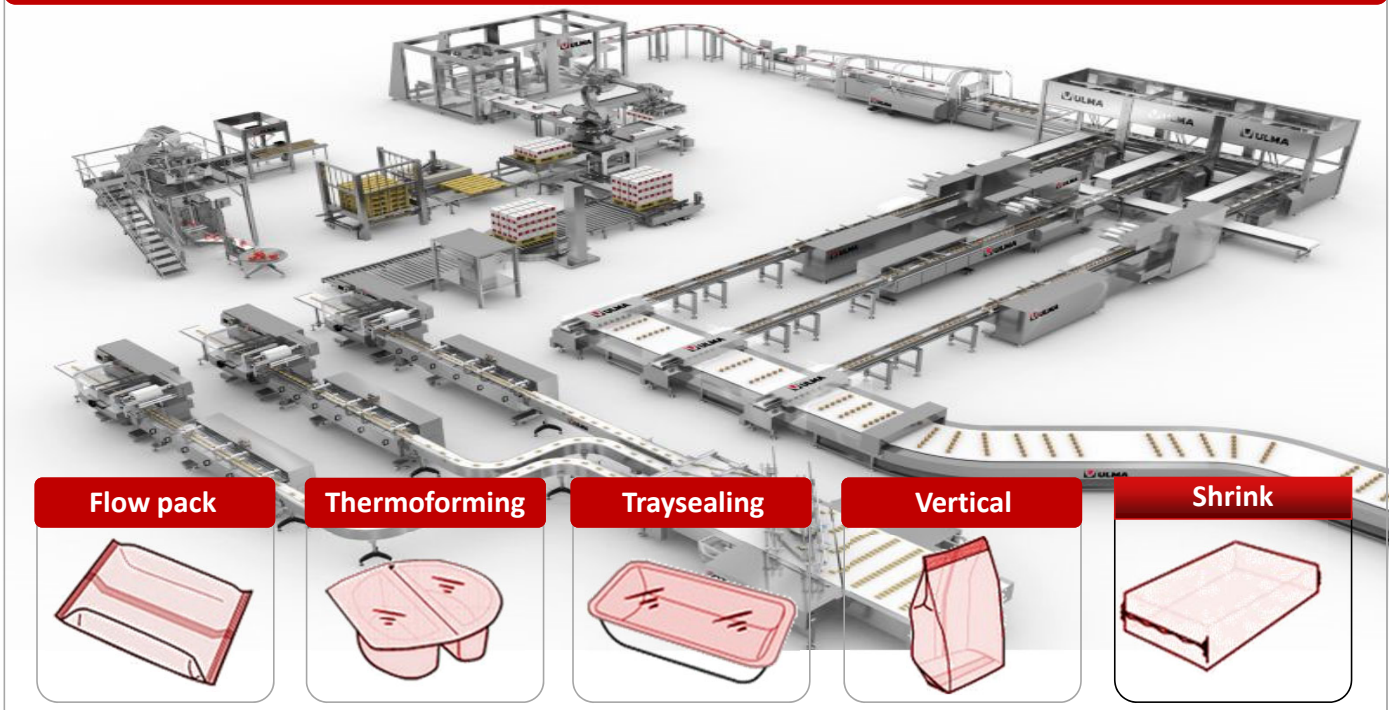
ULMA Packaging

DISTRIBUTORS

Canada	Spain	Germany	Australia
USA	France	Poland	South Africa
Mexico	Italy	Romania	Thailand
Brazil	United Kingdom	Ukraine	
Argentina	Belgium	Russia	
Portugal	Holland	Turkey	

Packaging Technologies

ULMA Packaging Automation



Flow pack	Thermoforming	Traysealing	Vertical	Shrink

Modified Atmosphere Packaging aplications – MAP (1 of 2)

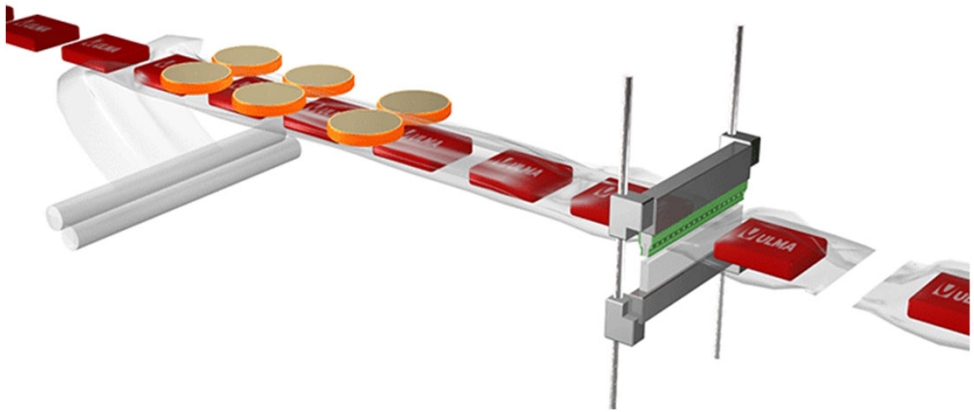
- Applications where the oxygen within the pack is remove:
  - To increase the shelf life of the product.
  - To reduce the growth of molds within the pack.
  - To keep the natural characteristics of the product.

- The film materials used and the packaging technology change depending on the expecting results.

Modified Atmosphere Packaging aplications – MAP (2 of 2)

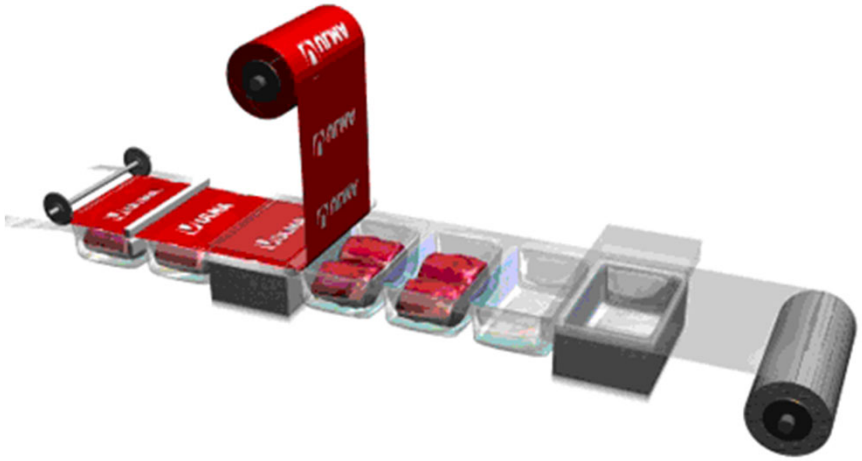
- Normally a combination of N2 and CO2 is used to removed the oxygen within the pack.
- Typical film materials used are:
  - PET/PVdC/PE
  - PA/PVdC/PE
  - OPP/PVdC
  - OPA/PE
  - ……
- The packaging technologies used for MAP applications with tortillas are:
  - Flow Pack Technology
  - Thermoforming Technology

Flow Pack technology



- The oxygen level inside of the pack in FP MAP applications is high, the product shelf-life goes up to 2 months (aprox).
- This shelf life can be increased using oxygen scavengers (sachet or sticker) since the oxygen level inside of the pack drops drastically up to less than 1%

Thermoforming technology



- The oxygen level inside of the pack in TF MAP applications is lower than in a FP machine, since the gas flush can be combined with a vacuum operation. The product shelf-life goes up to 9 months (aprox).

Flow pack vs Thermoforming technology

- TF shelf-life > FP shelf-life (around 9 months vs 2 months)
- In a FP, the shelf-life can be extended using oxygen scavengers.
- FP technology is more flexible than the TF.
- The investment in FP technology is lower than TF.
- The cost per pack in FP is lower than in TF.
- FP pack is more sustainable since the film used are thinner than in TF.
- FP machines are easier to be fed automatically.

Recloseable Packs

- Different kinds of recloseable systems, mainly developed for the Flow Pack machines
  - Flap-pack.
  - Recloseable by adding Freshpack strip to the pack.
  - Zipper added to the pack crosswise.
  - Side seal with adhesive tape or longwise zipper.

Flap-pack.

- By means of a die-cut unit placed at the reel holder the film is cut before adding a label.
- It is compatible with MAP applications.
- The machine can run without this format.
- The application is limited at 50 ppm.

Flap-pack.

Recloseable by adding Freshpack strip to the pack.

- The adhesive strip can be added to a existing flow pack with a minor modification.
- It is compatible with MAP applications.
- The machine can run without this format.
- 20 % less material used than others zipper o side seals formats.
- The cost per pack is lower than using the zipper or the flap-pack.

Recloseable by adding Freshpack strip to the pack.

Zipper added to the pack crosswise.

- The plastic zipper is added to at the reel holder to the flat film and once the film tube is formed, it is sealed by the cross seal station.
- It is compatible with MAP applications.
- As the process to place the zipper is intermittent, the speed is limited at 45 ppm.
- Without considering the savings due to the film, the cost of the zipper is around 40% higher than the freshpack strip.

Zipper added to the pack crosswise.

Side seal with adhesive tape or longwise zipper.

- Also known as 3 seals machine.
- The main different with a FP machine is that the longitudinal seal is placed vertically.
- The cross seal station is the same than a normal FP machine
- Zipper or and adhesive tape can be added to do a recloseable pack although the machine can wrap normal not recloseable packs.
- The changeover is more longer than in a normal FP machine since its format needs a fix forming box.

Side seal with adhesive tape or longwise zipper.

Conclusions

- Ulma Packaging has the correct packaging solution regardless the customer's specifications.
- With a direct presence in 20 countries, Ulma Packaging provides local skill service.
- Ulma Packaging customizes its packaging solution to adapt its standard to the customer's requirements.


THANK YOU!