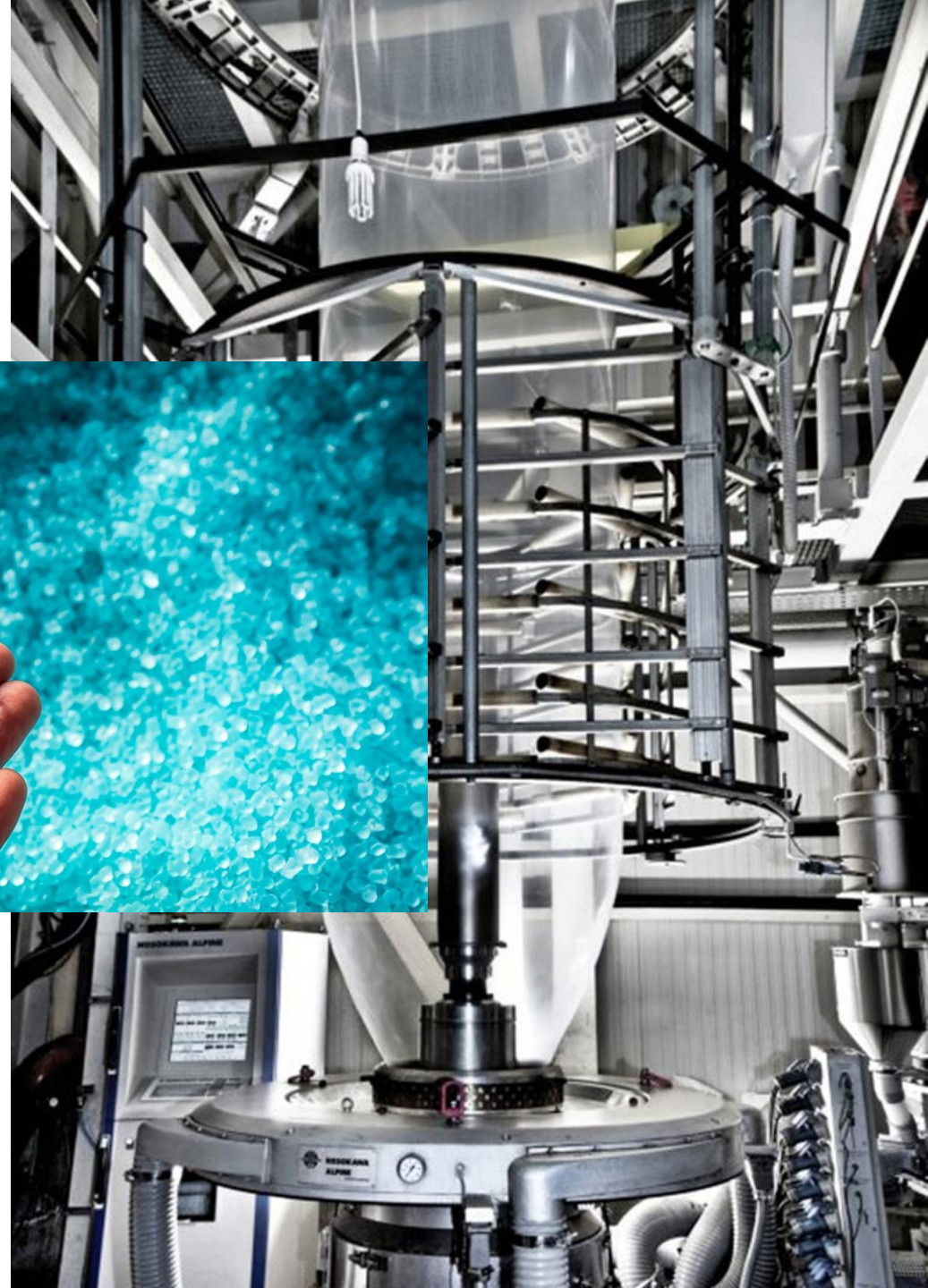


EUROfilm

MANTZARIS S.A.

PLASTIC FILM INDUSTRY

The Art of Plasticity



Mantzaris S.A in a Nutshell

**WE DO
HAVE
PLASTIC
MINDS**

- Agricultural products
- Packaging products
- Consumer products



MANTZARIS S.A.
PLASTIC FILM INDUSTRY

EUR  film



126
employees



~ 5%
Avg Annual Growth



1991
Established



24 M Euros
2018



HEADQUARTERS
Zevgolatio, Korinthias
Exports Office
Athens Greece



2.6 M Euros
CAPEX 2019

3 BUSINESS SEGMENTS

Flexible
Packaging

~50%



Agricultural
Products
~30%



Consumer
Products
~20%

Production Equipment

- ☐ 7 blown-film extrusion lines
- ☐ 5 blown-film co-extrusion lines
- ☐ 4 Waste bag production lines
- ☐ 1 Product line of drip pipe
- ☐ 2 bottom weld sack machines
- ☐ 3 Carrier-bag production lines
- ☐ 1 recycling line



Rely on a strategic partner

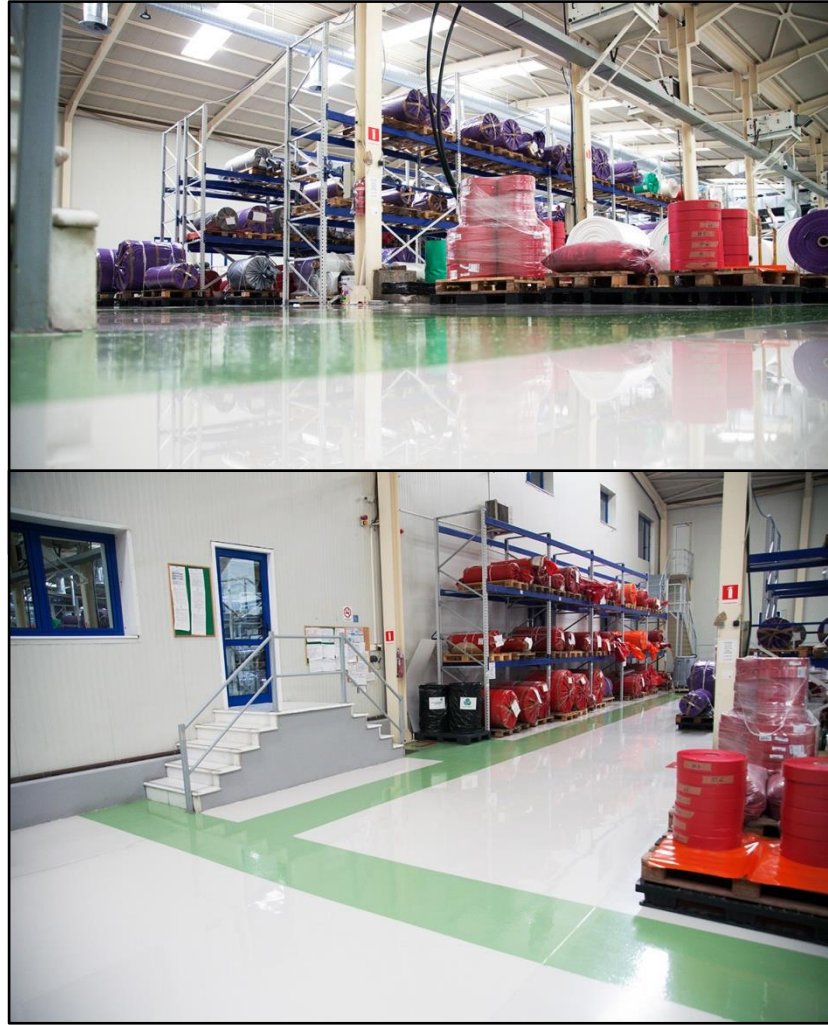
- Nominal Capacity of 17.000tns of PE production annually
- Tailor Made solutions based on customer's needs
- Constant investment for new state of the art production lines and R&D
 - 2 Alpina Hosokawa 3 layer MDO lines
 - 1 Reifenhauser 3 layer line
- Strick Quality assurance protocols



Environmental Footprint



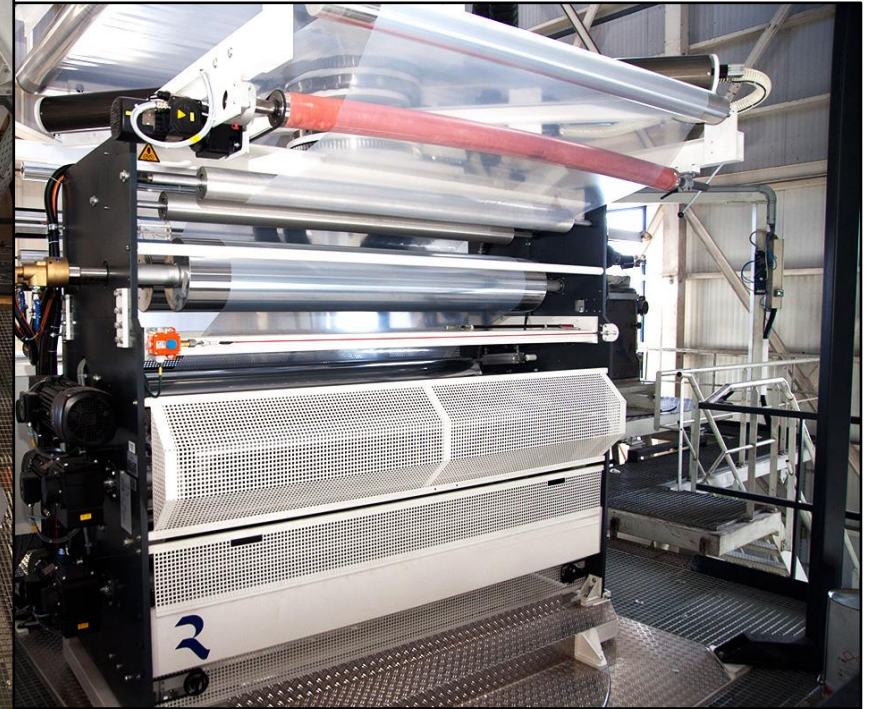
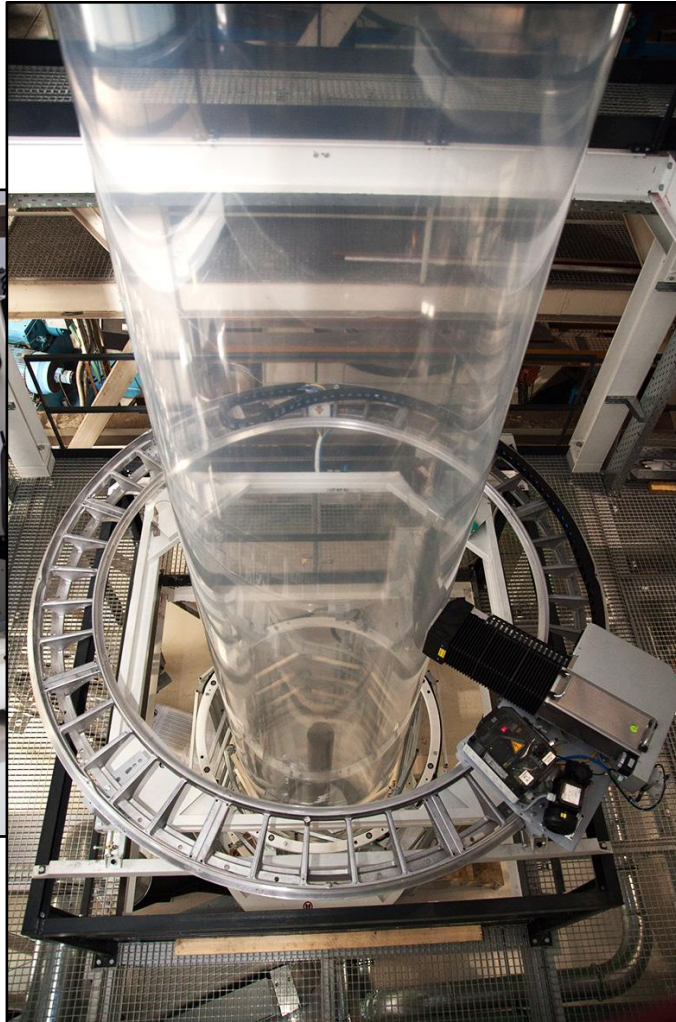
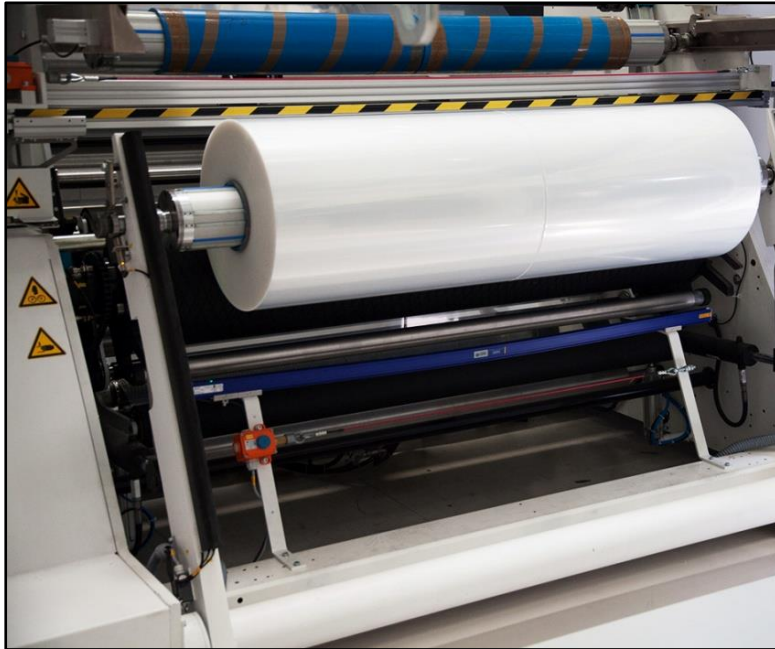
Controlled Production Enviroment



Production Units



Production Units



Production Units



Production Units



In Situ Recycling Units



Quality control

Quality Control

- Top quality raw materials (REACH / MSDS)
- Quality Management certification according to
 - ISO 9001:2015
 - ISO 22000:2005
 - ISO 14001:2015
- Suppliers' evaluation

EQC (Eurofilm Quality Control) according to accredited Standards

Thickness/ μm , Width/cm, Weight/g/qm,

Corona Treatment/dyn

ISO 527

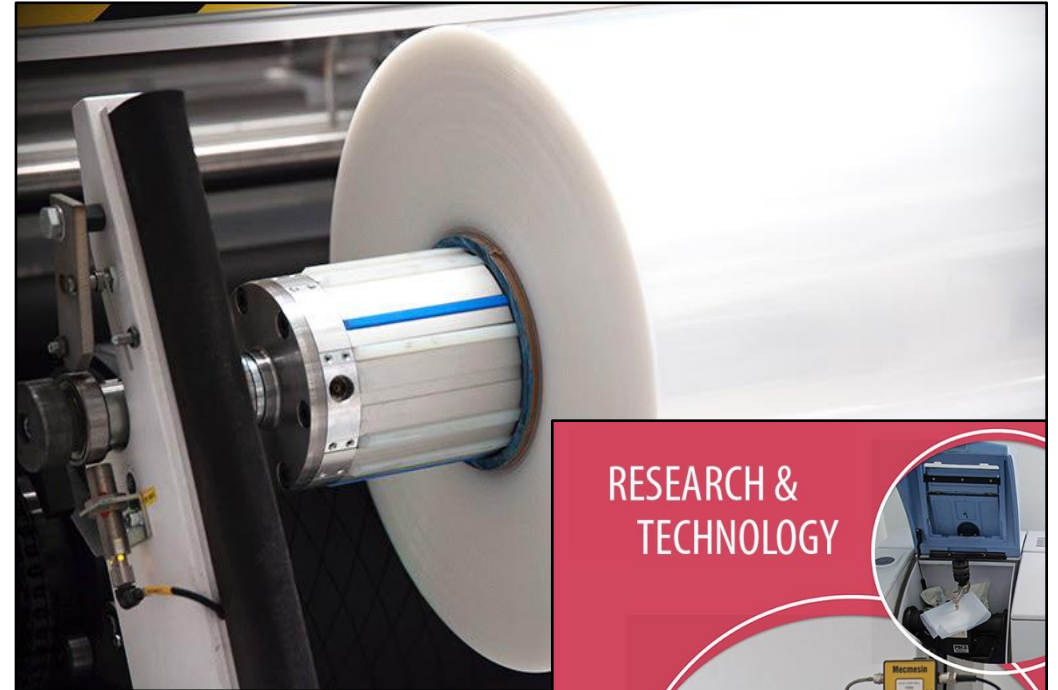
Tensile Strength MD-TD/N/qmm

Tensile Yield MD-TD/qmm

Elongation MD-TD/%

ISO 8295

Coefficient of Friction



RESEARCH & TECHNOLOGY



Eurofilm Added Value Platform



Eurofilm Agricultural Products

Agro Products

We supply farmers in Greece and neighboring countries with specialized crop protection and enhancement products



Low Cover Products



Low Cover Products

- **Filman:** Transparent film for agricultural use.
- **Black Filman:** Film for agricultural use.
- **Linman:** Transparent film of increased mechanical resistance and up to 15% reduced cover cost per acre due to lower thickness.
- **Linman plus:** Land cover black film from high quality raw materials, where new technology is implemented, ultra thin for reduced cover cost per acre.
- **Thermic:** Low cover film of high transparency. Offers the best thermal properties of the market for early crops.
- **Thermic Silver:** Thermic film for cooling.
- **Brown Ground film :**
High quality raw materials are used. It contains color master-batches with UV stabilizers. Diffuses the heat up to 10 cm depth into the soil. For the best protection and earliness of plant.
- **Silver Black Ground film :**
Stabilized film having silver color in the up-side, to reflect the light, resulting in improved earliness and uniform color of the fruit.



Low Cover Products

Thermic for curtain: High performance thermo-curtain film

- Width: up to 5,30m
- Thickness: 50 microns
- Duration: inside the green house 5-6 months during the winter

Eurotherm W for curtain: High performance, long lasting thermo-curtain film

- Width: up to 7m
- Thickness: 50 microns
- Duration: inside the green house 2 seasons of 5-6 months during the winter.

Eurotherm 1W for curtain: High performance, long lasting thermo-curtain film

- Width: up to 7m
- Thickness: 50 microns
- Duration: inside the green house 3 seasons of 5-6 months during the winter.



Greenhouse Products



Greenhouse Products

- **Eurostar** : Duration of 8-10 months
 - **Eurostar 1**: Duration of 12 months
 - **Eurostar 2**: Duration of 21-24 months
 - **Eurostar 3**: Duration of 33-36 months
-
- **Eurostar 1w**: White, duration of 12 months
 - **Eurostar 2w**: White, duration of 24 months
 - **Eurostar 3w**: White, duration of 36 months

KEY PROPERTIES:

Reduced solar spectrum

Reduction of pesticides Use

UVA, UVB Filters

Increased Solar radiation protection

Light Diffusion and uniform distribution

Helps plants grow evenly



Greenhouse Products

Thermic Green house film absorbs the day heat and diffuses it in the green house during the night.

Enhancing plant growth by preserving high temperature in the greenhouse even in the night.

- **Eurotherm 1W:** Duration of one cultivation season 12 months
- **Eurotherm 2W:** Duration 24 months
- **Eurotherm 3W:** Duration 36 months
- **4 PLUS: Transparent as glass, use of high technology raw materials (next generation)**



General Agricultural Products

- Vineyards
- Pomegranate
- Cherry trees
- Tobacco drying
- Raisin drying



General Agricultural Products

- Black - White film
- General agricultural use, multi layer structure
- Plain, black or colored film for agricultural use
- Water tank membrane



General Agricultural Products

Agrostretch

Colors:

White

Black

Green

PACKING:

1 ROLL/CARTON

24 CARTONS/PALLET

DIMENSIONS:

WIDTH: 250mm / 375mm / 500mm /
750 mm

LENGTH: 1500m / 1800m



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