

COATIG AND LAMINATION

BANDERA: WHO WE ARE IN NUMBERS



BANDERA - WHAT WE DO



BLOWN FILM

PACKAGING & CONVERTING
AGRI & GEO
HDB/FFS

FLAT DIE

PET | PLA | PP PE PS LINES
SHEET LINES
SPECIAL TECHNOLOGIES

UP-CYCLING

PIR PCR AND PET RECYCLING
PELLETIZING

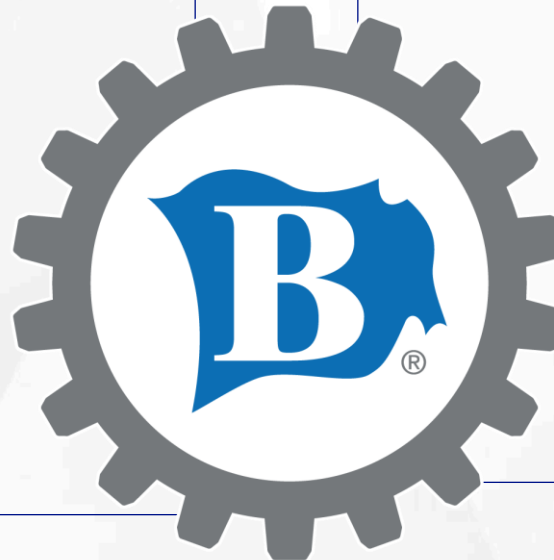
WE THINK GLOBALLY, WE ACT LOCALLY



THE KEY OF OUR SUCCESS

Focus on the **Customer as a corporate asset**, ensuring **attention** to their specifications and **needs**.

Cooperation with manufacturers and users, with universities and international research centers, and major polymer and additive producers.



R&D Center for the development of **company-specific know-how** and internal training for Bandera technicians, (designers, technologists, and field engineers)

State-of-the-art **fully CNC machining centers** at Bandera Production Workshop (**B2 Unit**).

OVERVIEW OF OUR PRODUCTION DEPARTMENT

MODERN PRODUCTION FACILITY



€20 million
invested over the
last **5 years**



38 CNC machines
with **CAD/CAM**
systems



High-precision
and efficient
production



Strong foundation
for future **growth** and
innovation



8,000 m² facility
with **42 skilled**
professionals





BANDERA: WHO WE ARE IN NUMBERS

State-of-the-art center: 6000 m2 dedicated to R&D and production testing



Customer collaboration: Customized engineering services and a focus on creating tailored solutions



Expansion and development: Expanded in 2019 with a new area for wet trials and a 35-meter-high building



Extrusion Academy®: Advanced laboratories with small-scale lines to study materials and processes *together* with customers. (Pre-existing the 2019 expansion)



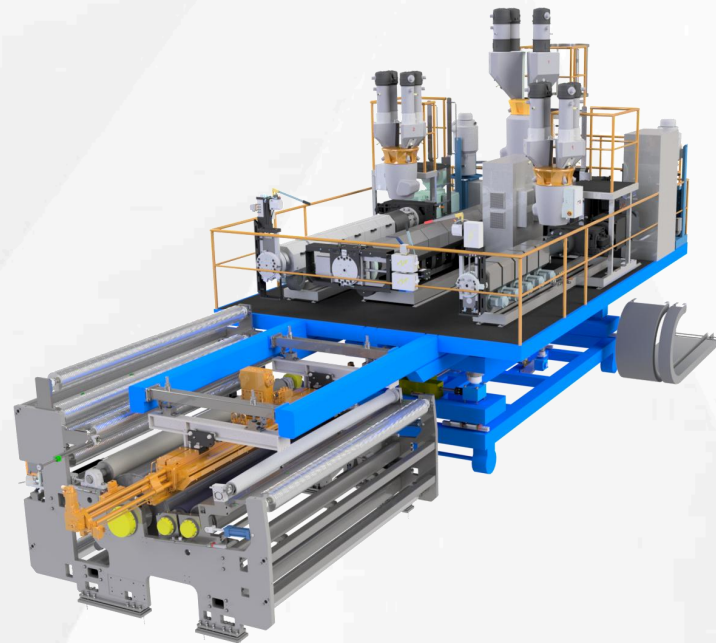
Strategic investment: Approximately €4 million invested to support the 2019 expansion and other initiatives



ALPHACOAT - ORIENTED TO CUSTOMER'S PROFIT

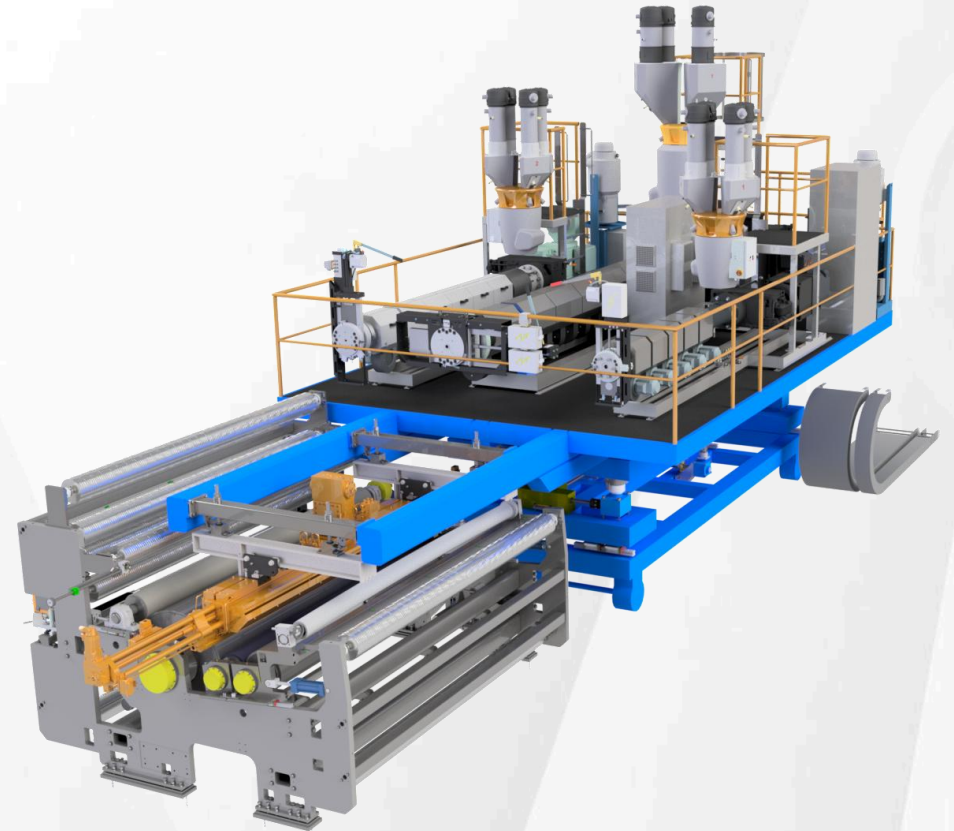
Bandera offers a **customized extrusion coating and laminating solution** with various configurations, enabling diverse processes for specific end products.

Enhance production performance, achieving top quality and productivity levels.



ALPHACOAT - BENEFITS

- Specific extrusion equipment setup
- Best in class for adhesion at low grammage
- Widest range of width and coating grammage
- Primer Unit & Roto Print in line
- Tandem or Triplex design
- Horizontal or vertical layout configuration
- Increased overall substrate adhesion
- No gas treatment required for liquid packaging easy-to-operate
- Plastic layer ratio (vs substrates) matching market recycling needs (mono-product compliance)
- Special features to minimize start-up waste (OEE optimum)
- Exclusive wrinkle-free solutions fit for wide webs also



ALPHACOAT-FILM

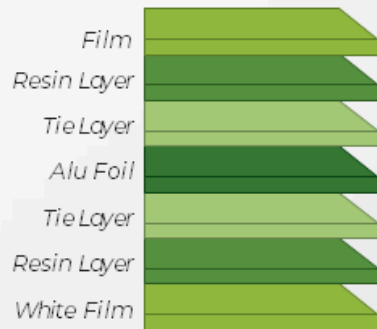
*In Line Processes:

Raw material handling and dosing system

Primer and Lacquer coating (hor./vert. solution)

Thickness control

Quality control



Flexible Packaging (Film) process features*

Substrates	• 10-150 µm films, • 5-50 µm alu, • paper 40-160 gsm
Extrusion capacity	• Up to 5 layers
Standard web-widths	• 1300 - 1750 mm • convertible in inch
Max working speed	• 800 m/min 2625 ft/min
Exclusive features	• Color print



ALPHACOAT-ALU

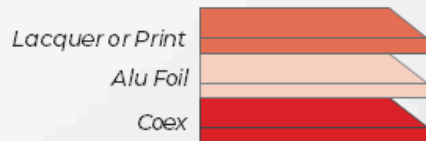
*In Line Processes:

Raw material handling and dosing system

Primer and Lacquer coating (hor./vert. solution)

Thickness control

Quality control



Alu process features*

Substrates	• From 6 to 100 um
Extrusion capacity	• Up to 1600 kgh x extruder
Standard web-widths	• Up to 1350 mm
Max mechanical speed	• 600 m/min 1968 ft/min
Layer structure	• On request
Exclusive features	• Flame/corona treater • Semi-flotating or Flotating dryer



ALPHACOAT – LIQUID PACKAGING

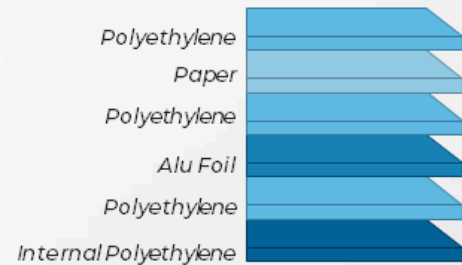
*In Line Processes:

Raw material handling and dosing system

Primer and Lacquer coating (hor./vert. solution)

Thickness control

Quality control



Liquid process features*

Alu Substrates:	• From 6 to 12 μm
Paper substrate	• Up to 400 gsm
Extrusion capacity	• Up to 1600 kgh
Standard web-widths	• From 1350 to 1900
Max mechanical speed	• 800 m/min 2600 ft/min
Layer structure	• Up to 7 layers

Exclusive features

- Perforation system
- Off-line PolyAl recycling system



ALPHACOAT-PAPER

*In Line Processes:

Raw material handling and dosing system

Primer and Lacquer coating (hor./vert. solution)

Thickness control

Quality control



Paper process features*

Substrates	• Up to 500 gsm
Extrusion capacity	• Up to 1600 kgh x extruder
Standard web-widths	• Up to 3300 mm
Max mechanical speed	• 800 m/min 2625 ft/min
Minimum coating weight	• 4 gsm
Exclusive features	• Color print



CASE STUDY

The equipment represents a new technological milestone for satisfying current and future targets in the packaging market.

The superior performances ensured by the **extrusion island** and the **sturdy chill roll equipment** allow the final user to reach extremely **low grammage** (gsm) on paper and other substrates, introducing new concepts in terms of **innovation and sustainability**.

The entire line, including unwinding & rewinding systems as well as web handling, is supplied by **Polytype Converting** and turn-key provider in this field and destined to a European production site of **Mondi Group**.



THANKS FOR your attention

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