IT IS IMPORTANT TO BE DIFFERENT, IT IS MANDATORY TO DO BETTER.
Experience The **House of Extrusion®**

Bandera THOE is the home of research, innovation and groundbreaking technologies where you can test your material, prove the result and lead the market.
Our history

Becoming the future of the...

1947
Luigi Bandera officially established the company and started the history of extrusion in Italy.

1950
Costruzioni Meccaniche Luigi Bandera became a joint stock company, scaling up its activities to become an industrial concern.

1960-1970
Costruzioni Meccaniche Luigi Bandera experienced a remarkable industrial growth developing a wide and diversified range of extrusion products.
Costruzioni Meccaniche Luigi Bandera was acknowledged as one of the leading companies in the extrusion sector of both Blown Film and Sheet, in Italy and worldwide.

**1980-1990**

Opening of the House of Extrusion®, 6000 m² housing R&D and test-running activities on complete production lines with customized engineering services and an after-sales global network. THOE was recently upscaled with a dedicated facility for a new wet trials area including a 2-hall brand new building with 35 mt height.

**Today**

Bandera focuses on advanced technologies intended for the plastic industry for the fulfilment of the Circular Economy criteria.
Establishing Bandera as the most important design and manufacturing centre for extrusion in Europe providing Blown Film and Flat Die lines featuring newly conceived recyclable and compostable techniques.
Bandera business is focused on four main goals.

Designing safe and reliable production lines to offer top quality performance, in compliance with EC safety rules.

Placing customer satisfaction at the centre of our work to guarantee the best possible care as a reliable partner through customer focus and personal contact.

Manufacturing extrusion lines for finished goods made from 100% recyclate to 100% recyclable.

Promoting technologies allowing a sustainable decrease in the weight of packaging materials and ensuring minimum energy consumption levels.
Our crucial asset

Our founder Luigi Bandera used to say

"The essential asset held by my company is the people working here and their expertise."

This innovative spirit drives us towards achieving the most challenging customer goals.
In house engineering and manufacturing

100% in house designed and manufactured machinery, based on an individual customizing philosophy, to meet our customers’ needs.

Quality at Bandera means ATTENTION TO DETAILS and STRICT CONTROLS.
Bandera has a unique know how and capability to manage complex projects.

Bandera implements turnkey projects thanks to its long-term expertise and know-how in providing complete plants.

The Bandera Technical Department not only designs and manufactures complete extrusion lines, but it also has the expertise for supplying a top level consultancy for the design of the factory that is to house the extrusion line itself.
Recycling
Revolutionary extrusion techniques for Neverending Stories.

Product lines and relevant industries

Blown Film
Flexible packaging & converting plus agriculture application.

Flat Die
Rigid packaging and FFS industry, special films for more different industries.

Pelletizing
Various rigid and plasticized PVC formulations.

Extrusion Equipment
Various industries including recycling and highly filled compounds.
Bandera solutions for packaging and converting are focused more than ever on **recyclable and compostable materials** in compliance with the European strategy on plastics and recycling.
Depending on the raw material features and the final product performances, Bandera proposes customized solutions based on its hi-tech twin screw extrusion.
- **Agri FutureFilm®** complete Blown Film lines for the production of **agricultural film**.

- **Geo FutureFilm®** complete Blown Film lines for the production of **waterproof geomembranes**.
BLOWN FILM technologies

Complete extrusion lines for Blown Film (packaging & converting)

- **SmartFlex®** lines (1 and 3 layers) competitive investment, maximized flexibility, power consumption reduction, functional and compact layout

- **Techno Flex® Plus** lines for multi-layer film (3 and 5 layers) with top performances

- **Barrier Flex®** lines for high barrier film (7, 9 and 11 layers)

- **HDB Flex®** lines for the production of FFS industrial bags
FLAT DIE technologies

Complete extrusion lines for Rigid Film and Sheet

Bandera designs and manufactures complete extrusion lines dedicated to the production of rigid wound films and high thickness sheets, respectively for the thermoformed packaging and converting sectors and for a large number of industrial applications.
Bandera is a global player in the technology of dryerless direct extrusion of PET Rigid Film, with a patented system based on a co-rotating twin-screw extruder coupled to a high vacuum venting system. Bandera has supplied over 250 complete lines to the main converters worldwide, who continue operating them with success since the year 2000.
FLAT DIE technologies

Complete Sheet Extrusion lines

High quality technical PET and PP sheets for the furniture industry

Technical sheets in HDPE, PP, HMWPE, PC, material mixtures with ABS and other materials (thermoplastic resins and industrial waste products) for the automotive industry components and thermoformed product markets.

Flexible sheets for waterproofing systems (multilayer PP/PE geomembranes) with possible internal fiber or fabric reinforced layer.

Thin sheets in PP and PET (usually embossed) addressed to the paper industry and medium thickness sheets in PS and ABS/ABS-PMMA for the electrical appliance sector.
Recycling and compounding technology is part of Bandera know how mainly covering the PET industry and the highly filled PP applications.

Highly vented twin screw extruders are widely used to complete systems from 500 to 2000 kg/h output.
High Performance PVC Pelletizing System

Bandera PVC Pelletizing lines are the result of more than 70 years of activity in manufacturing counter rotating twin-screw extruders within a range of 45 to 175 mm.
The manufacturing of extruders for special applications represents a very important part of Bandera’s business activity: single screw extruders, counter rotating and co-rotating twin-screw extruders, large extruders with cascade configuration and special design extruders for both compact and innovative foam materials.
The manufacturing of extruders and filters for Brueckner officially started in 1979 and continues to represent a substantial part of Bandera’s business activity.
The most advanced technology hub for sharing innovations in the packaging and converting industry.

A brand new way to support converters in challenging innovative production targets.

**A unique way to share knowledge and innovation.**

This project to be developed in 3 years: 2019/ 2020/ 2021, represents a large “incubator of ideas” and acts as a valuable instrument for applied research on a complete extrusion line with a productivity responding to industrial standards.
One among the many benefits of the programme is cooperating to test innovative technologies:

- **new combined** flexible and rigid film applications
- new barrier materials
- **to lower the weight** of packaging materials
- **biocompostable** and **biodegradable** materials
- processes for **recycled raw materials** (even highly filled)
An efficient and responsive customer service is one of the essential strengths of our global business.

A global network and a diffused sales organization worldwide with Bandera sales offices and exclusive representatives throughout the five continents.

5 After-Sales Service Centres

Global technical servicing, with possible warranty extension over 24 months.

Highly experienced on-site technicians skilled in machinery installation and start-up.

Customized training for new applications.
Bandera Customer Care, a new approach to after-sales

At Bandera, customer fidelity represents the core of any activity in the supply of industrial plants, to fulfill customer requirements by offering “Customer Care” to achieve “Customer Satisfaction”.

CUSTOMER CARE

IoE Internet of Extrusion
The House of EXTRUSION® THOE

As a first step, a 3000 m² facility was completed in 2015. A 3000 m² additional facility soon followed and completed in 2019. These facilities represent a brand new area housing R&D activities and wet tests on complete extrusion lines for the development of innovative ideas for the packaging and converting sectors.

Being a Bandera partner in experimentation and research means being able to benefit from our long expertise in the technology of extrusion of thermoplastic materials with proven references in the extrusion.
In the recently renewed and upgraded laboratory, it is possible to **co-develop advanced extrusion solutions** with us or via the acquisition of one of the **Bandera laboratory extruders**.
IoE Internet of Extrusion®, now embedding in every line, is the first step to integrate the Industry 4.0 applications. This means a significant opportunity for the customers to know and manage the production process in depth, while taking advantage of faster and more precise programmed technical assistance up to predictive maintenance. Last, but not least, this also brings them into the new world of IIoT Industrial Internet of Things.
Recent facts and figures

Bandera is one of the major extrusion systems manufacturers in Europe in terms of number of employees, as well as sales revenue figures.

In the last few years the business has also grown substantially on a global scale and the company has significantly increased the number of specialized engineers.
Bandera numbers summarise what our long term expertise, know-how and innovative approach really mean.

Proud to be a key player

- **1947**
  74 years of experience

- **15 500**
  active clients all over the world

- **35 000**
  extruders installed running worldwide

- **55 000**
  m² production sites

- **54 000**
  t of extruded polymers per day
Top packaging and converting solutions

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Extrusion Intelligence

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