

Recycling and Circular Economy



The Right Partner

Bandera operates in cooperation with worldwide leading companies to design and manufacture complete production plants for the plastics recycling stream: from the sorting process, to the grinding and washing operations. Bandera supplies flake purification and pelletizing equipment.

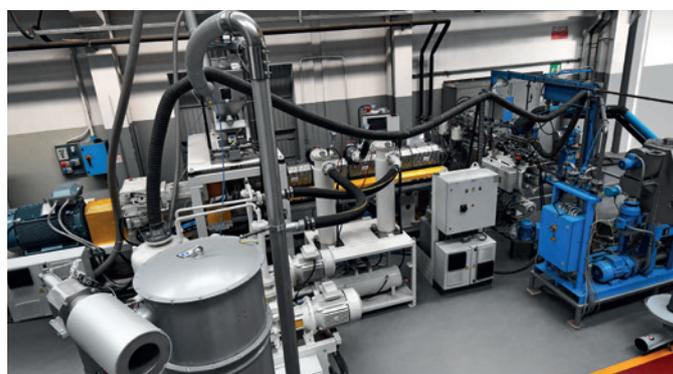
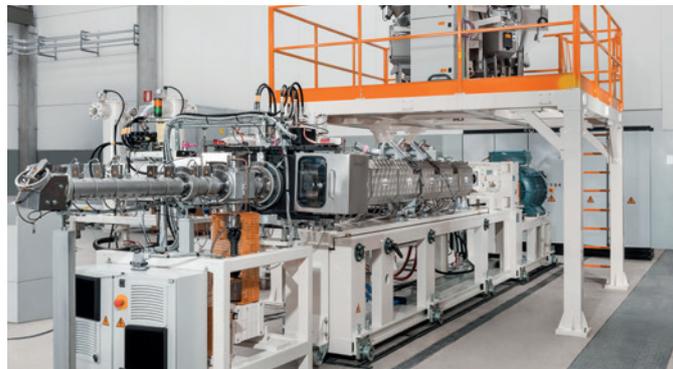
Increase Efficiency to obtain Sustainability

Bandera's technological strategy aims at maximising the efficiency of the processes concerning the following operations:

- Pre-sorting and Sorting
- Washing and size reduction
- Extruding and pelletizing including pre and post-treatment of the flake including the option to incorporate additives or fillers and the capability of upgrading material characteristics to a comparable virgin material level (food-grade, flavour/odour control, mechanical properties, etc.).

Experimentation and testing

The Bandera test area includes pilot lines always available to experimentally develop customized pelletizing processes and final products through Flat Die and Blown Film technology.



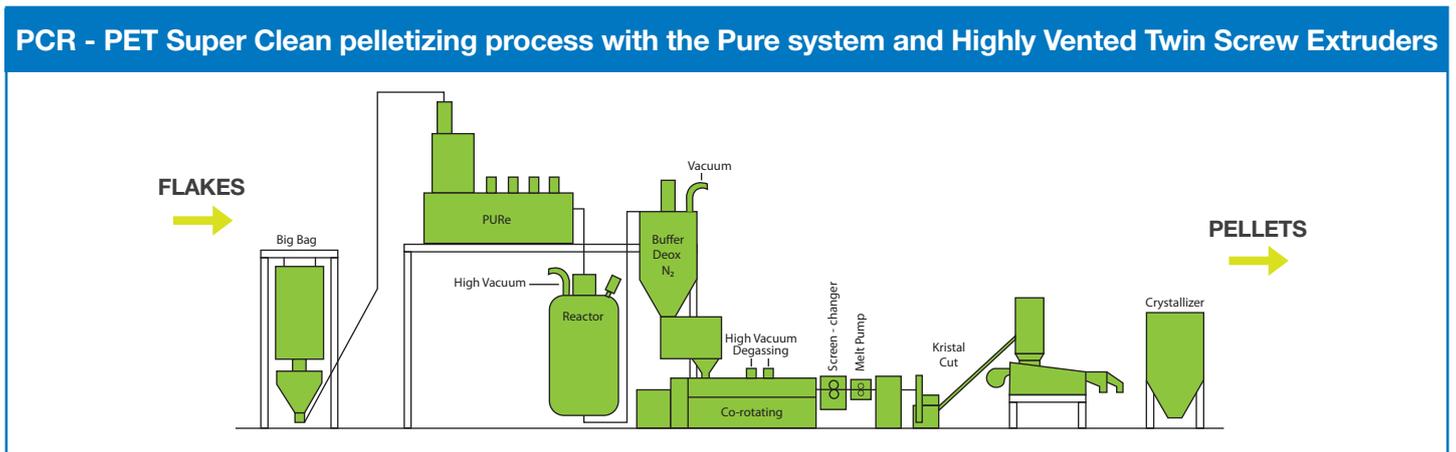
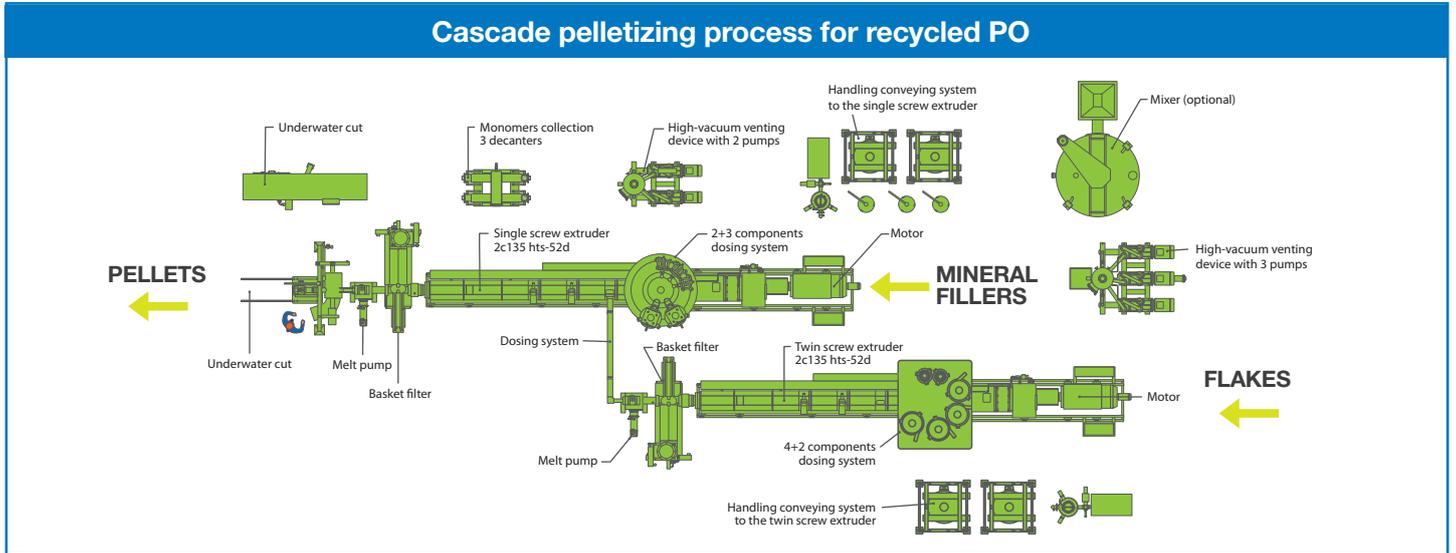
- Great film brightness
- Top Mechanical properties
- High Cleaning efficiency

Food grade,
a simple solution.

Enhance Circular Economy in plastic packaging

The promotion of Circular Economy in the plastic packaging industry is possible thanks to Bandera extrusion technologies and expertise.

Bandera is currently developing projects that include: cascade extrusion with twin-screw extruder combinations, or multi-screw solutions for pelletizing systems for PO materials and Super Clean PET pelletizing lines.



Bioperforming Extrusion Plants

Extrusion of organic materials

Within the packaging industry (food and non-food), Bandera demonstrates broad experience and competence in terms of including new organic materials in extrusion processes.

Since the end of the '80s, thanks to the development of specific extrusion technologies and other experimental techniques, Bandera has been involved in exceptional projects worldwide regarding the extrusion of compostable resins.

Multilayer Blown Film technologies for biodegradable and compostable bags and agri films plus Flat Die technology for rigid thermoformed PLA containers are typical applications.

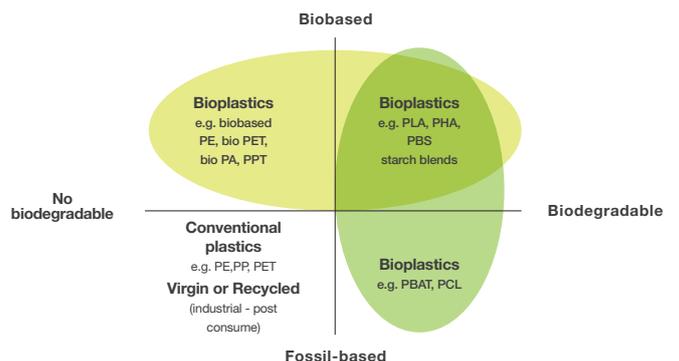
Bandera has also recently installed a large and impressive multifunctional flat die system called Condor Line® to carry out wet trials with customers and prospects (at its headquarters in Italy).



Renewability
Use of renewable raw materials (dedicated crops, waste)



Biodegradability and compostability
Biodegradable materials with the possibility of organic recovery (composting and anaerobic digestion)



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