

New technologies with very low impact on the environment

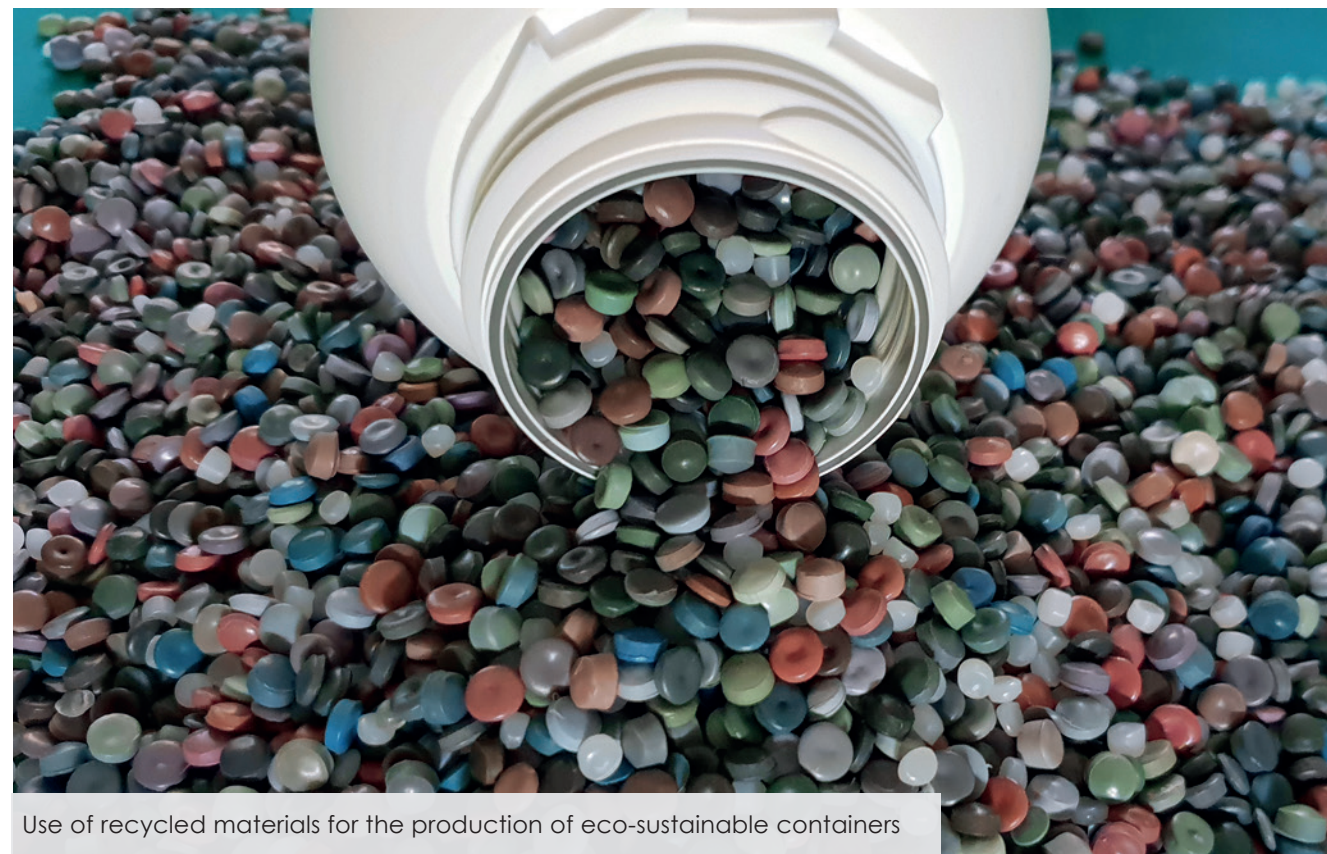
PLAST 2023: Plastiblow will exhibit a multilayer coextrusion machine, with very low environmental impact and in accordance with Industry 4.0



Examples of multilayer bottles

After 5 years from the previous edition, at the next Plast 2023, the international exhibition dedicated to the plastics and rubber industry, which will take place at Fiera Milano, from 5 to 8 September 2023, Plastiblow will exhibit at Hall 22 Stand A01 B02 a fully electric blow moulding machine PB15ES, one of the most successful models in the mid-size range of Plastiblow machines. This model is available in both single and double carriage with strokes

ranging from 480 mm to 800 mm and a mould clamping force of 15 tons that allows a very flexible production. Thanks to the recent upgrade of the carriage clamping system on linear guides, this model has become even more robust, reliable and high-performance. The exhibition machine, in single carriage version, Coex3 with 3 extruders, will have a stroke of 700 mm and will be equipped with a double head, complete with view stripe. It will be producing 4-liter bottles with handle in twin cavities. The complete system includes a scrap recovery line with volumetric dosing and feeding of the resins to the three extruders. It is sold to a customer who produces a wide range of bottles from 55ml to 20lt for various industrial sectors: chemical, food, cosmetics, oil etc. This customer, like most Plastiblow customers, is also looking for solutions for smarter and more efficient



Use of recycled materials for the production of eco-sustainable containers



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packaging that saves energy and reduces the consumption of raw materials. The fundamental combination for being virtuous is: the less material I use for the production of the containers, the less energy I consume. Reducing weight, cutting waste, using more recycled materials, absorbing less energy, are objectives that Plastiblow has made its own with a competence made available to its customers around the world.

In the plastics sector, which has always been at the heart of the environmental issue, a real restructuring process is underway thanks to the growing number of technological innovations able to comply with the circularity criteria. After overcoming the "take make dispose" approach that has characterized the economic growth model of the last 150 years, based on the extraction of always new raw materials, on mass consumption and on the production of waste, once the

end of life of the product has been reached, the plastics industry has tried to renew itself, applying a closed-loop system thanks to which plastic products are made, used and recycled: plastic must no longer end up in the environment, in landfills, in the oceans, but must be transformed and reused.

The focus on reducing energy consumption and maintenance costs, the implementation of control systems for the remote diagnosis of processes from an Industry 4.0 perspective and, above all, the commitment to reducing environmental impact are fundamental elements of the success of Plastiblow blow moulding machines in all industrial fields.

Plastiblow, among the first in the sector to develop electric machines for low energy consumption extrusion blow moulding, has long been committed to the reduction of the use of virgin plastic, because it has developed multilayer co-extrusion technologies capable of

processing more recycled materials for the production of new "green containers".

Plastiblow can advise customers on how to reduce weight while maintaining the physical and mechanical properties of the containers. It can modify or study the design of the containers according to the forming process in the mould. It can design the configuration of multiple extruders to reach up to 7 layers of material, as in the case of the food sector.

The choice to exhibit at PLAST 2023 an electrically driven multilayer coextrusion system that allows the use of recycled plastic in an intermediate layer, with minimal energy expenditure, confirms Plastiblow's commitment to the development of a virtuous production process that is more environmentally friendly and more attentive to the enhancement of resources and the containment of waste.



Mod. PB15ES Coex3