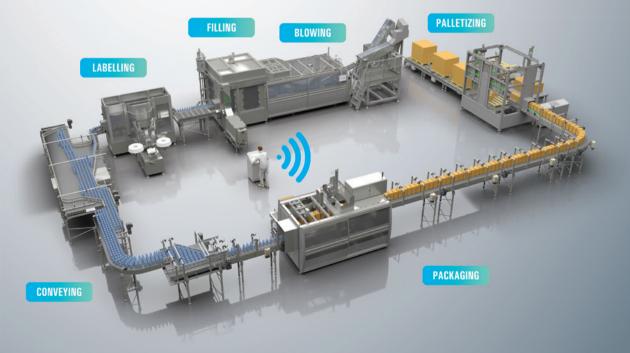
DESIGN WITH US YOUR CIRCULAR PACKAGING



IMPROVING YOUR CARBON FOOTPRINT IS EASY WITH SMI!

Our bottling and packaging systems benefit from Industry 4.0 and IoT technologies, can process recyclable materials such as rPET and allows for considerable energy savings.

Find out our solutions for packing a wide range of containers up to 50,000 bottles/hour.



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SMI solutions for high-capacity containers



Producing and filling PET containers with a large capacity of up to 10 L, all with a single machine, is increasingly the optimal solution for producers of mineral water and table oil. and SMI offers them the best innovative solutions



PET containers with a large capacity of up to 10 L, all with a single machine, is increasingly

the optimal solution for producers of mineral water and table oil. This compact and flexible solution

offers numerous advantages in terms of reducing production costs, since the system does not require the presence of a rinser. In addition, the ECOBLOC® ERGON system, does not need conveyor belts between the blow moulding machine and the filler and the relative accumulation, thus guaranteeing a controlled and for the production of large capacity flexible production process. All this translates into greater efficiency, for the management of the entire wet part of the bottling line by a single operator on an extremely compact centre for 3D design, SMI invests surface, while improving the sustainability of production, thanks rPET bottles of all sizes and shapes, to reduced energy consumption. (foto 1 - ECOBLOC K HEVS)

roducing and filling Eco-sustainable containers for large productions

From the point of view of size, "highcapacity" containers, such as 5, 8 and 10-litre bottles, are arousing growing interest from companies in the beverage sector, that are attentive to "green" and energyefficient solutions for their plants.

The use of large bottles, allows to bottle a certain volume of product in a smaller number of containers, thus reducing the logistic, handling and disposal costs of the entire supply chain.

SMI has decades of experience, both in the construction of machines containers, and in the design of bottles that meet the functional and aesthetic needs of customers.

Thanks to an advanced CAD in innovative solutions to produce 100% recyclable, resistant, light and eneraetically "virtuous".

In China, the company Huihuang United Food chose the integrated system ECOBLOC® ERGON by SMI

The consumption of bottled water is constantly arowing in every part of the world. In China, for instance, in the first quarter of 2023 alone, the sales of bottled water increased by 10.9%. In this scenario, the main companies in the beverage industry, such as Huihuang United Food, keep investing in increasingly modern and efficient plants, such as the integrated blowing-filling-capping system ECOBLOC® ERGON by SMI, recently installed in Tianjin for bottling C'estbon brand products in 4.5 L PET containers. The history of Huihuang United (Tianjin) Food starts in 2011, when the company was founded as a subsidiary of Macau Huiyang International Investment Co., a company belonging to the industrial giant Zhuhai Zhongu for bottling beverages of different brands, such as Coca-Cola and C'estbon.

SMI solutions for Huihuang United Food of high-efficiency valves controlled

The cooperation between Huihuang by flow meters United Food Co. (Tianjin) and • Reduced energy consumption SMI started 12 years ago with the purchase of some shrink wrappers lamps first 6-cavity stretch-blow moulder for the production of 4.5 and 6 L PET dates back to 2015. Thanks to the last investment that led to the purchase production of 4.5 and 6 L formats, which are in high demand by the interface (HMI Posyc[®]) quality and technological profile of management costs of the plant. the adopted solutions. ECOBLOC® ERGON 6-16-4 HC HEVF Eeasy-cap cap elevator /sorter

system

Containers worked: 4.5 and 6L PET containers of C'estbon natural water

Main advantages

• Compact solution for stretch-blow moulding, filling and capping large capacity PET bottles • Does not require a rinsing machine and air belts between blower and

filler • Precise and fast filling and capping of plastic caps



WORLD OF PLASTICS & RUBBER



• Energy-efficient IR preform heating

for packing bottles under the brand • Two-stage air recovery system, Coca-Cola. The installation of the which reduces energy costs for highpressure compressed air production • Filling valves that manage two minimum percentage of recycled containers under the brand C'estbon speeds in order to fill homogeneously, efficiently and without product spilling from the container. The of the ECOBLOC® ERGON system, duration of the filling cycles (slow the first supplied by SMI in China, the or fast) can be managed in a the so-called "tethered caps" on company was able to increase the simple and intuitive way through the recipes in the human-machine

stretch-blowing/filling/capping • Function: gravitational cap sorter, which takes the caps from a hopper and turns them correctly until they reach the bottling line.

• Main advantages:

• very compact structure, made of AISI 304 steel, suitable for any layout solution

• Smooth and linear operation, that will only carry the caps that are in the correct position

• System suitable for different types

process, thanks to the electronic • User-friendly operator interface, control system of operations, which allows easy and efficient use motorised stretch rods and the use of the machine by the operator.

Solutions for "tethered caps"

The anchored caps, which remain attached to the bottle after being opened, will become an everyday object for European consumers from 2024, when the EU Directive 2019/904 comes into force. This new European Union measure establishes the material that must be present in plastic bottles used for bottling beverages (25% from 2025 and 30% from 2030); moreover, it states that PET and rPET bottles must remain attached to the container, so that they can be recycled together with market, and to further increase the • Reduced maintenance and the bottle, avoiding dispersion in the environment.

Aware of the challenges that this new legislation poses to food and beverage manufacturers, SMI have studied a series of innovative solutions to produce rPET containers compliant with Directive 2019/904, supporting customers in choosing the type of bottle and tethered cap that best meets their specific needs.



