DESIGN WITH Your Circular Pa

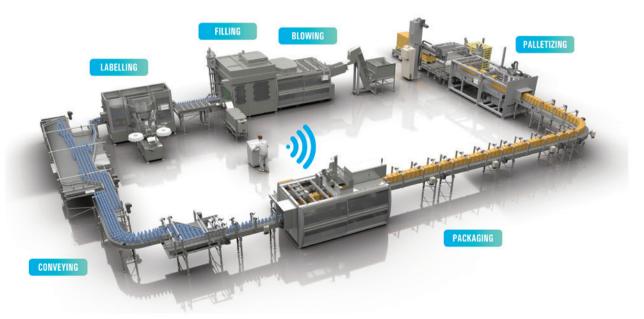
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IMPROVING YOUR PRODUCTION EFFICIENCY AND REDUCING YOUR CARBON FOOTPRINT **IS EASY WITH SMI!**

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 36,800 bottles/hour.



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SMI: even more *functional* and sustainable packaging

Nature plays an increasinaly important role in the everyday life of all of us!



green technology, like the machines supplied by SMI, food & beverage companies

the production environmental impact and use recyclable and biodegradable packaging materials cardboard.

SMI solution for competitive market! The companies influenced by efficient bottling and packaging plants in order to reach high levels of optimization and competitiveness of production lines.

Furthermore, in an economic environment that is increasingly oriented towards eco-friendly solutions in the use of plastic packaging, a growing number of companies have chosen to use **rPET** (100 % recyclable PET) bottles and cutting-edge technical solutions, posed by this directive to beverage like those supplied by SMI, in order to save energy and reduce the production environmental impact.

advantages related to the use of supports customers in order to the constant keeping of optimal PET plastic bottles, containers that are unbreakable, safe, with great

all recyclable. When compared to packaging. Main advantages of EBS other packaging materials, like glass series or aluminium, traditional PET and, above all, its 100 % recyclable version (rPET), has a good environmental considerably simplify its running, profile, especially thanks to its cleaning and maintenance lightweight, that results in less material operations and to ensure significant to be produced, less material to space saving in the bottling line; be disposed of, less energy used to - new preform heating module manufacture it and less fuel used for characterized the transport of packed products.

SMI manufactures bottling plants and packaging machines with an innovative design, equipped hanks to investments with IoT technology, providing to its customers, located all over the equipped with smart and world, with smart solutions, able to meet their requirements in terms of competitiveness, production efficiency, operational flexibility, will save on energy, reduce energy saving, easy management and monitoring of the whole production process.

The **EBS ERGON series** of stretch-blow to manufacture packs in film or moulding, available both in "stand alone" version and in "combi" Future is always full of challenges. version, integrated with filling and capping systems (ECOBLOC® ERGON series), ensure high performances in the trend of strong product the stretch blow-moulding of rPET, diversification, need very flexible and and PET bottles of different shapes and capacities from 0.10 L up to 10L mainly used for the food, beverage and detergent industries, able to by the vibrations of mechanical meet production requirements **up to** 36.800 bottles/hour.

Thanks to high-tech components, low maintenance and running costs and great quality/price ratio, SMI machines are the best solution for producing plastic containers.

SMI, aware of the challenges manufacturers, offers solutions for producing containers with a percentage of recycled PET in evaluate the right tethered cap solution.

barrier properties, light and above Green solutions for the primary

compact, ergonomic and functional frame, capable to

bv compact dimensions, horizontal frame of the preform-holding mandrel chains (37 mm pitch for the production of bottles up to 3 L) and an optimized ventilation system. The new heating module is equipped with heat reflecting, high energy efficiency panels made of composite materials positioned both on the front and to the rear of the heat lamps in charge of preforms heating. It ensures a high reflection of the heat generated by the lamps and its more uniform distribution on the preforms surface

- blow-moulding module equipped with motorized stretching rods whose functioning is controlled by electronic drives with no need of mechanical cams. This new technology enables a precise descent of the stretching rod. an accurate control of its position, remarkable energy savings along with a reduced stress generated components. Moreover, this new technology enables to adjust the stretch-blowing speed without mechanical interventions (cams replacement)

- high performance, low dead volume valves system which has reduced the pre-blowing and blowing times with the subsequent great advantage in terms of machine's efficiency and quality of the final bottles

automation and control by Recent studies clearly show the compliance with 2019/904 and Motornet System®, which ensures working parameters during the whole production cycle and directly





adjusts the machine's settings, simplifying format changeovers The advantages of the ECOBLOC® ERGON integrated solutions of blowing-filling-capping The ECOBLOC® ERGON series offers the end user countless economic

benefits such as: - modular and compact design, which combines in a single block the stretch-blow moulding, filling and

capping modules; - low consumption of water and energy, thus allowing low running and maintenance costs and safeguarding the environment; - excellent accessibility and easy maintenance operations; - automation and control system allowing the management of the system by only one line operator through a simple and user-friendly man-machine interface; - high precision system, for the

application of screw caps and pressure caps; - cap hopper feeding placed outside

the machine at a height easily accessible by the machine operator; - electronic filling system: no contact between the bottle and the filling valve (in case of still products).



SEPTEMBER 2021.....

WORLD OF PLASTICS & RUBBER



Green solutions for secondary packaaina

Within secondary packaging, SMI offers a wide range of automatic machines for packing in an efficient and eco-sustainable way several types of containers with an output up to 450 packs per minute (in triple lane) and applications that ensure energy saving.

Depending on the type of product of SMI complete lines, customers to be packed and on the reference are invited to access the interactive market, it is possible to choose the tour, available on the web site most appropriate packer among a wide range of automatic shrink wrappers for secondary packaging in **stretch** or **recyclable film** or among packers that use **corrugated**, **kraft or** Arcwise[®] cardboard.

All automatic packers produced by SMI are inspired by Industry 4.0 and Internet of Things (IoT) concepts and ensure cost reduction, energy savina, environmental sustainability and increase in competitiveness.

Interactive tour to discover sustainable solutions

SMI still thinks about all those customers who, due to restrictions



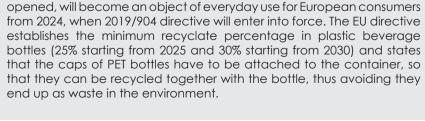
Design of sustainable containers Today all the main food and beverage manufacturers aim at promoting sustainable lifestyles in compliance with circular economy and support the importance of the responsible use of resources and recycle. Their commitment starts from the use of PET plastics: a 100% recyclable and regenerable material.

Thanks to an advanced CAD centerfor 3D design, SMI supports companies in the design and graphic realization of a wide range of 100% recyclable PET containers, featuring high quality and lightweight in order to save energy and material.

related to Covid-19, cannot travel to go to the Italian headquarters or to take part in trade fairs.

In order to find out the advantages www.smigroup.it: a journey inside two complete line solutions featuring sustainability and compliance with Industry 4.0, that allow to discover the cutting-edge technology to reduce the carbon footprint, energy consumption and waste material.





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The tethered caps, that stay attached to the bottle after having been

Solutions for tethered caps

Plastics & Rubber 33