

ITALIAN FOOD & PACKAGING TECHNOLOGY



INNOVATIVE TECHNOLOGY FOR FREEZING, FREEZE DRYING AND DRYING



EASY FREEZE DRYER
FREEZE DRYER



EASY FREEZE
IQF FREEZERS



EASY Freeze SPYRO
SPIRAL FREEZERS



EASY DRY PG 135
ADIABATIC MULTISTAGE
BELT DRYER



EASY DRY PG 128
TUNNEL DRYER



COMPLETE PROCESSING
COMPLETE PROCESSING
LINES

MAIN ADVANTAGES OF PIGO TECHNOLOGY



HIGHER YIELD



FASTER
PROCESSING



CORRECT
TEMPERATURE
USAGE



FOOD SAFETY
FRIENDLY



OPERATOR
FRIENDLY

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smoothly and quickly as possible. Twenty T4 robots guarantee outstanding performance and gentle picking of the products, which are then passed on to the two integrated Flowmoduls. The grippers were specifically developed for the customer's diverse assortment of baked goods: They gather the biscuits into stacks, which are then placed into the Flowmodul's feed chains. The system also boasts Schubert's well-known flexibility when it comes to flowpack sizes, box formats and cartons.

Downstream of the Flowpacker, a Cartonpacker takes over the packaging of the flowpacks into boxes. In six frames for erecting, filling and sealing, the automated process runs in sync with the upstream machines. Five pick & place robots pick up the flowpacks and stack them onto the Transmodul for pre-grouping, after which they are placed into the cartons and sealed. Alternatively, the Multipacker can erect open carton trays, fill them and then pack them directly into multipack flowpacks with the aid of the integrated Flowpacker.

In addition to its high performance, the entire system excels with exceptionally compact design, which enables considerable space savings: The flow-wrapping machine saves up to 70 per cent space compared to conventional machine solutions. With the Multipacker, Balocco can now adapt much more flexibly and sustainably to the needs of consumers and retailers, and thereby benefit from new market opportunities and competitive advantages.

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Monobloc case packer with pick & place system

The increasing attention to the market needs makes it necessary to search for innovative technical solutions allowing to reduce costs, save energy, increase competitiveness and improve the market positioning.

Every day in the world billions of doses of beverages, food and hygiene and cleaning products are consumed. They are marketed in containers with thousand shapes and countless features, that need adequate protection during handling and captivating look in order to draw consumers' attention.

For this reason, packaging is a key factor to be taken into account in business strategies aimed at boosting sales.

SMI offers cutting-edge solutions inspired by the concepts of Industry 4.0 and Internet of Things (IoT) that are increasingly efficient, flexible, eco-friendly, ergonomic, easy to control and to check.

Cardboard boxes are an example of packaging with a simple but effective design, optimized depending on the size of the product to be packed and ideal for maximizing the visibility of the pack on retail shelves thanks to the possibility of graphic customization.

With the launch of the new range of automatic case packers with pick & place system of the ACP (American Carton Packer) ERGON range, SMI got into the packaging in RSC cases, thus providing customers with a valid alternative to traditional pack-

aging solutions in wrap-around cardboard cases.

The choice between a wrap-around box and an RSC case depends on several factors related to the product to be packaged, to commercial strategies, to logistics and distribution needs and to the speed of the production line. Other factors that have to be taken into account are for instance the weight and the shape of containers, the palletizing patterns, the marketing objectives, the budget available and the need or not to display the package on the shelves of retail points.

At all4pack 2022, that will be held from 21st to 24th November in Paris (France), SMI will showcase the ACP 20 S ERGON. The solution showcased at stand F043 Hall 4 pack glass bottles of beer in 4x3 format in RSC cases that are closed by scotch at the speed of 20 packs/minute.

The advantages of ACP series

Compactness and ergonomics

The new ACP case packers feature a solid monobloc structure that combines all the machine functions: product separation, product insertion with top loading system, carton magazine, box sealing.

The packaging process is alternate (stop & go) by means of a pick & place system capable of making RSC packs at the maximum speed of 20 packs per minute (depending on the format).

Versatility of use and product protection

ACP range can pack several types of products, such as bags of pasta, rice and coffee, as well as oval containers (shampoo, liquid soap and detergents) and briks (tea, juices), simply by changing the gripper/suction cup.

Thanks to the pick & place system, the new SMI case packers are suitable for packing very delicate and exclusive products, such as wines, sparkling wines and liqueurs, without damaging the label of glass bottles during processing in the machine.

Thanks to the extreme versatility of ACP series, the products to be packed can also be stacked inside RSC boxes, that, furthermore, are very robust and resistant (high top load).

Ease of use and advanced automation

The carton magazine is placed next to the machine, thus allowing to load the pre-folded blanks in an easy and ergonomic way.

The new SMI pick & place packers are equipped with MotorNet System® automation and control technology, based on Sercos fieldbus, that makes the plant fully compliant with Industry 4.0 and Internet of Things (IoT) principles.

The ACP ERGON models are available in two versions: with tape sealing (ACP S) or hot melt glue sealing (ACP G).

Technical features of ACP ERGON series

- Alternate packaging process (stop & go) through pick & place system capable of making packages at the maximum speed of 20 packs/minute (depending on the format)

- Grouping of products in an alternating cycle, through a pneumatic separation system;
 - Carton magazine placed next to the machine with easy and ergonomic loading of the pre-folded blanks;
 - Packaging in American style cardboard boxes (RSC) with loose product top loading;
 - Possibility of stacking the product in the box during its insertion;
 - Possibility of packaging several types of products, such as bags of pasta, rice, coffee, as well as oval containers (such as shampoo) and briks (tea, juices, etc), simply by changing the picking gripper;
 - Possibility of processing delicate products, such as wines, sparkling wines and liqueurs, without damaging the label during processing in the machine;
 - Easy machine access
 - Reduced mechanical wear and maintenance
 - MotorNet System® automation and control technology based on Sercos fieldbus
 - Depending on the model chosen, the box is closed by means of adhesive tape or hot glue. The model with glue pack closure is equipped with a lower glue unit and an upper glue unit with double spray that ensure excellent pack sealing. At the machine outfeed, special lateral upper flap-folding devices driven by a semi-rotary cylinder keep the walls of the newly made box pressed.
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Monobloc case packer with pick & place system for RSC boxes at the All4pack 2022 show (SMI)