

ACP PACKERS: FUNCTIONING

- 1 On a four-lane infeed conveyor, equipped with chains in thermoplastic material with a low coefficient of friction, a mechanical system for separating the product, composed of a pneumatic device for blocking and releasing the top and bottom of the loose product, creates the desired format.
- 2 The pre-folded blanks are picked from the cardboard magazine by an alternating movement picker composed of a group of vacuum suction cups. By moving away from the magazine, the picker opens the cardboard blank by giving it the squared shape of an open case.
- 3 The rotary flap-folding devices close the lower flaps of the box. The upper stabilizer counteracts the upward thrust that the case undergoes during the closing operation of the lower flaps. The pre-insertion flap opening keeps the case upper flaps open during the product insertion.
- 4 The product is picked by grippers in the case of loose containers and by suction cups in the case of packs and is placed in the case through a top-loading system. Flap-folding devices activated by semi-rotary cylinders close the case upper flaps. In the case of packers with hot melt glue sealing (G model), there is a glue unit with double spray gun.

Foreign branches and representative offices



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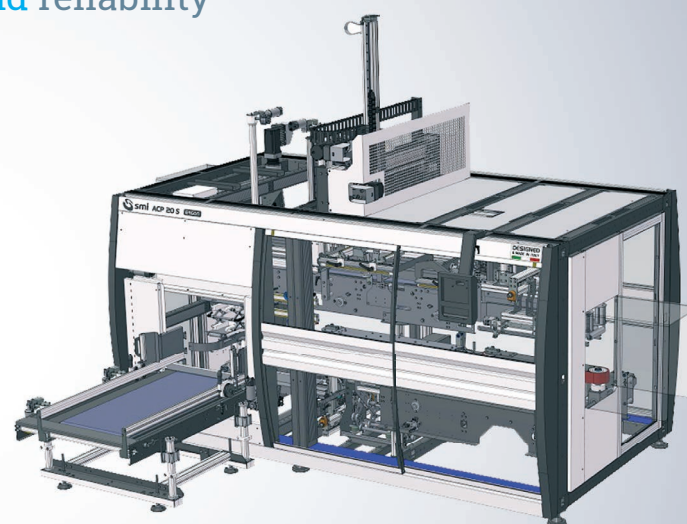
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ACP ERGON Series

Pick & place case packers

ACP pick & place case packers:

when flexibility meets compactness and reliability

The choice of the box to be used to pack products is not always easy. There are many factors that have to be taken into consideration: the product to be packaged, the commercial strategies of the manufacturing company, the logistics and distribution needs, the marketing objectives, the budget available, the need or not to display the package on the shelves at the retail point, etc. And after selecting the type of box, goods manufacturers have to make another choice: the packaging machine to be installed. Even if customers' requirements change over time and vary from sector to sector, there is common ground, since some elements play a key role in every situation and context. The main are: flexibility, reliability, compactness and ease of use. How is it possible to combine all of them? The answer is an acronym made of three letters: ACP, the new range of pick and place packers supplied by SMI, suitable for packaging in RSC cases with production speeds up to 20 packs per minute. These machines can handle different types of products: glass and plastic bottles, briks, as well as flexible packaging, such as pasta, rice and coffee bags.



ACP ERGON
VIDEO
scan this QR code



up to
20
ppm

5 REASONS FOR CHOOSING RSC CASES

Not only do RSC boxes represent what most people picture when they visualize a shipping box; they are also an effective promotional tool. This makes them a versatile solution, suitable for a broad target group. In particular, there are at least 5 reasons for choosing RSC (Regular Slotted Container) cases:



COST REDUCTION

The product can be stacked in the case during its insertion without the need for dedicated systems, thereby saving costs



SUSTAINABILITY

They are usually created from recycled materials, in compliance with the key principles of circular economy



BRAND RECOGNITION

They can be easily custom printed; therefore, they are an effective marketing tool and make products easily recognizable



RESISTANCE

They have great load-bearing properties: this allows to stack several on top of each other during shipment



PRODUCT PROTECTION

They are suitable also for delicate products, since their resistance ensures the product protection



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QUICK & EASY FORMAT CHANGEOVER

Once the type of box is chosen, the next step is to select the packaging process and the machine that will carry it out. The first characteristic every customer looks for is flexibility: nowadays the market is experiencing the emergence of new trends and new consumption patterns to which production has to quickly adapt. Changing from one format to another or even from one product to another in short time is possible thanks to SMI pick and place packers from ACP series. In order to carry out the format or product changeover it suffices to change the picking grippers.



COMPACT SOLUTION WITH ERGONOMIC PROCESSES

In the choice of the packer, the machine size plays a key role, especially for those manufacturers who do not have large plants. This problem can be easily solved by ACP pick & place case packers, in which size compactness is combined with process ergonomics. For instance, the cardboard magazine of this packer is external to the machine, which makes the loading of pre-folded blanks easy and ergonomic.

ERGON



RELIABLE PROCESSES AND PRECISE ADJUSTMENTS

Since one of the main functions of packaging is the protection of products from hits or shocks, in order to preserve their quality, the packaging process reliability is one of the characteristics that is appreciated the most by goods manufacturers. SMI ACP packers are characterized by a pick & place packaging process with an alternating motion (stop & go). During it, the case content is protected from hits or shocks and the label is protected from damages during the machine operation.

USER-FRIENDLINESS AND EASY MAINTENANCE

In order to get high productivity levels, processes do not have only to be reliable and precise, but also easy to control. ACP packers are equipped with a POSYC® fixed operator panel that allows even less expert operators to easily and effectively run the packer, thanks to an intuitive interface, a touch screen display, diagnostic functions and real-time technical support. In addition to the easy control, these machines also stand out for their easy maintenance and cleaning operations, thanks to slightly rounded safety doors and brushless motors oriented outwards.

GLUE OR TAPE? YOU CAN GET BOTH!

Adhesive is a choice that all goods manufacturers have to make. There are many factors that have to be considered, such as costs, production speeds, type of package, aesthetics and package protection. Whichever choice is made by goods manufacturers, SMI ACP packers will be able to meet their needs: pick & place packers are available in two models: G models (for hot melt glue packaging) and S models (for adhesive tape packaging). The model with hot melt glue sealing is equipped with a lower glue unit and a double spray upper glue unit which ensures excellent pack sealing. At the machine outfeed, special side upper flap-bends operated by a semi-rotary cylinder keep the walls of the newly made box pressed.



ACP ERGON SERIES