

# SMI: STRIKING AND SMART FOOD PACKS

**S**MI designs and manufactures bottling and packaging machines with an innovative design, equipped with IoT technology, in order to provide smart solutions able to meet the requirements of competitiveness, production efficiency, operational flexibility, energy saving and simple management and control of the production plant.

In some industries, such as food, packaging plays a key role since it acts as a communication tool: packs sold to large retailers have to be captivating, practical and resistant to draw the consumer's attention and influence the purchase decisions.

## The importance of investing in R&D

Investments in advanced technologies and innovation are the main driver of SMI success and launch on the market of an even more diversified and innovative range of plants and machines with a very high technological content.

In order to automate and streamline the secondary packaging process of end-of-the-line, SMI offers several solutions suitable for every packaging need: from packs in shrink film, to cardboard cases, multipack in overlapping cardboard sleeves etc.

Within secondary packaging, one of the latest developments has led to the launch of the new compact shrink wrapper from the CSK series, that includes models in single and double lane.

The German company Rabe Spreewälder Konserven, leader in the production of food preserves invested



## SMI: WIRKSAME UND INTELLIGENTE NAHRUNGSMITTELVERPACKUNGEN

**S**MI plant and realizes filling plants and packaging machines with an innovative design, equipped with IoT technology, in order to provide smart solutions able to meet the requirements of competitiveness, production efficiency, operational flexibility, energy saving and simple management and control of the production plant.

In such areas as food, packaging plays a key role, as it acts as a communication tool: packaging sold to large retailers must be attractive, practical and robust, in order to draw the consumer's attention and influence the purchase decisions.

## Die Wichtigkeit der Investitionen in F&E

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in the new CSK 50 T ERGON model to create packs in tray + film, pad + film, film-only or tray-only at a maximum speed of 50 packs/minute, in order to increase the efficiency of its production plants and meet the requirements of even more demanding customers.

**Advanced automation, flexibility and energy saving**

The shrink wrappers from the CSK series stand out for:

- motorized system of oscillating guides that enables to correctly channel loose containers onto a conveyor belt equipped with chains made from thermoplastic with low friction coefficient;
- formation of loose containers into the desired format in continuous motion by means of electronically

synchronized dividing pins and bars;

- the cardboard magazine is situated below the infeed conveyor, from where the cardboard is picked by an alternate motion cardboard blank-picker situated at the bottom of the cardboard climb, made up of a set of suckers that work via an empty suction system;
- the cardboard climb has a curvilinear shape at the beginning and the end to facilitate the tray insertion under the group of products at the outfeed of the electronic separator;
- the film cutting unit has a compact design where the blade is controlled by "direct-drive" brushless motor that makes the cutting operations more precise and the maintenance easier;
- new ICOS motors, equipped with

integrated digital servo-driver, simplify the machine cabling and ensure greater energy efficiency, less noise and reduced component wear.

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Packs in Tray + Folie, Pad + Folie, nur Folie oder nur Tray mit einer maximalen Geschwindigkeit von 50 Pakete/Minute gewählt, um die Effizienz seiner Produktionsanlage zu steigern und um die Anforderungen der zunehmend anspruchsvollen Kunden zu erfüllen.

**Fortgeschrittene Automatisierung, Flexibilität und Energieeinsparung**

Die Schrupffolienverpackungsmaschinen der CSK-Serie kennzeichnen sich für:

- motorisiertes System von Schwingschienen das die korrekte Kanalisierung der losen Behälter auf ein Transportband erleichtert, das mit Ketten aus thermoplastischem Material mit niedrigem Reibungskoeffizienten ausgestattet ist;
- Gruppierung der losen Behälter auf das gewünschte Format erfolgt fortlaufend mithilfe von Stiften und Trennleisten, die elektronisch synchronisiert werden;
- Magazin für Kartonzuschnitte befindet sich unter dem Einlaufband, von wo aus die Kartonformteile mittels einer sich hin- und herbewegenden Entnahmeverrichtung entnommen werden, die am Anfang der Kartonzufuhr positioniert ist, bestehend aus einer Gruppe von Saugnapfen mit Vakuumsaugsystem;
- Kartonzufuhr mit einer kurvigen Form im Anfangs- und Endabschnitt, um das Einführen eines Tablett unter die Gruppierung der Produkte am Ausgang vom elektronischen Separator zu erleichtern.
- Kompaktes Design der Folienschneideeinheit, bei der das Messer von einem bürstenlosen E-Motor mit Direktantrieb gesteuert wird, was für einen präziseren Schneidevorgang sorgt und die Wartung vereinfacht;
- Neue ICOS-Motoren, die mit einem integrierten, digitalen Servoantrieb (Driver) ausgestattet sind, der in der Lage ist, die Verkabelung der Maschine zu vereinfachen und für mehr Energieeffizienz zu sorgen sowie für weniger Lärm und geringeren Verschleiß der Komponenten.

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