



## packaging equipment

# Smart packaging machines to be more competitive

**SMI** designs and manufactures bottling and packaging machines with an innovative design, equipped with IoT technology, in order to provide customers all over the world with smart solutions, able to satisfy their needs of competitiveness, production efficiency, operational flexibility, energy savings and management and monitoring simplicity of the whole production plant.

### An ad hoc machine for packing containers in film only: LSK 30 SF

The LSK SF ERGON series arises from the need to provide an ad hoc machine for packing rigid containers in film only and consequently have made available an extremely compact machine, easy to control and monitor. A model of the new LSK 30 SF ERGON will be showcased at All-

4pack, international trade fair that will be held in Paris, France from 26 -29 November 2018.

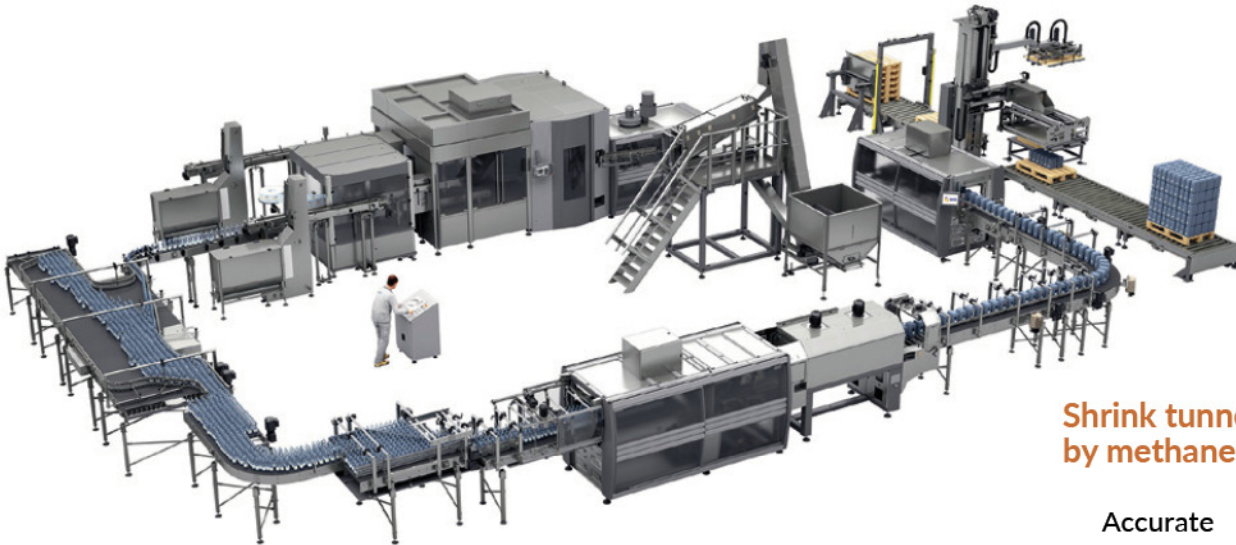
The machine is equipped with rounded safety doors made of anodised aluminium, which let all the motors, featuring low-energy consumption, be placed externally compared to the mechanical groups they activate. The door closing system is equipped with a slow-down device and accompanies the door smoothly in its final phase of closure.

The process of packing in film only is extremely fluid: on the machine infeed conveyor, equipped with low-friction chains made of thermoplastic material, loose containers are clustered in the desired format by a pneumatic device and electronically synchronized separating bars before accessing the film wrapping section and the shrink tunnel.

### LSK 30 SF advantages

- automatic machine able to pack different types of containers in film only;
- the format changeover is manual, enabling it to quickly switch from one format to another, in order to produce efficiently and economically;





- considerably reduced dimensions able to satisfy the needs of those who do not have large production plants;
- great quality-price ratio: the LSK ERGON series uses technologically advanced solutions with highly competitive prices;
- the cut film unit has a compact design and the knife blade is controlled by a direct drive brushless motor, making the cut operation more precise and the maintenance easier;
- ergonomic and functional structure enabling the operator to easily carry out all the activities linked to the plant use and maintenance.

### Shrink tunnel for every need

SMI offers a wide range of shrink tunnels, each with cutting edge technology to limit energy costs and guarantee maximum environmental compatibility. For instance, the new version of ST ERGON tunnels manage the distribution of hot air flow on all the surface of the forming pack efficiently and consistently, guaranteeing a high level of shrinking. Furthermore, at the tunnel outfeed, the pack undergoes an immedi-

ate cooling process, by means of an advanced ventilation system, this sets the shape, the appearance and rigidity to prevent deformation or breakage during the following packing stages. SMI shrink tunnels are designed to allow the operator to have easy access, in complete safety, to the internal parts of the system during maintenance and cleaning, which, compared to other traditional systems are much smaller. The ovens of the ST ERGON series are available fuelled by electricity or by methane gas, where the necessary heat for shrinking the transiting packs is obtained by the combustion of methane rather than the special electrical resistances.

The tunnels fuelled by electricity can be equipped with fibre glass chains (standard supply) or with metal chains (standard supply or optional according to the model of machine):

- Fibreglass hold the heat more efficiently, therefore, reducing energy consumption. Also, the film rarely leaves residue on this kind of chain.
- The metal chain releases more heat therefore consumption is slightly higher, but at the same time it guarantees improved film sealing under the pack.

### Shrink tunnels fuelled by methane gas

Accurate laboratory tests show that, in countries where natural gas is available at convenient prices, the use of a methane fed shrink tunnel guarantees a saving of 60% compared to energy consumption of a traditional tunnel fuelled by electricity. The development of this new range of ST ERGON tunnels fuelled by gas began with this consideration, to offer innovative technology with low environmental impact, to customers who have a supply of methane gas at advantageous prices. This pack shrinking solution, which is highly technological, eco-sustainable and with a reduced environmental impact, can be combined with all the shrink wrappers and combined packers produced by SMI.

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