

# SMI SPA solutions for smart bottling and packaging plants

**S**MI Spa is the leading business within the SMI Group. Founded in 1987, the company has established a global reputation and is a world-wide renowned provider of hi-tech PET-blowing & bottling systems and packaging machines for food & beverages, household cleaning, personal hygiene, chemical and pharmaceutical products. With **over 6,500 packaging machines installed in 130 countries**, SMI offers one of the most comprehensive portfolio of primary, secondary and tertiary packaging machines suitable to production requirements up to 33,600 bottles/hour. In today's era of Industry 4.0 and IoT, the food & beverage industry demands increasingly more automated, versatile, interconnected and efficient **bottling and packaging solutions**, capable of manufacturing large batches of products in the most economical and eco-friendly way. With the launch of the ERGON technology, SMI has showed again its extraordinary, long-lasting capability of proposing new and advanced solutions.

**The Smart Factory conceived by SMI** features new cutting-edge solutions for the bottling and packaging industries with improved efficiency, flexibility, eco-friendliness, ergonomics and easier management and control.

**The key aspects of SMI Smart Factory are:**

- use of latest generation production technologies such as the ERGON platform for intelligent and fully automated equipment, which ensures flexible, ergonomic and fully interconnected manufacturing processes with close interaction between machine and operator;
- computerised and integrated management and control system, which allows constant monitoring of the vital production parameters (even from remote), continuous line supervision and collection of a wide range of statistics on the plant's functioning; all this with the aim of carrying out corrective actions, scheduled maintenance operations and performance improvement
- manufacturing solutions guaranteeing huge energy saving, higher efficiency and reduced resource waste
- the most effective mix of advanced engineering, sustainable production processes and high-efficiency monitoring and supervising operations, with the aim of producing more, faster and better.

**Fully electronic stretch-blow moulders: the new EBS ERGON series**

Among the solutions for the blowing and bottling solutions, one of the latest innovations is the ultra-compact



rotary stretch-blow moulder EBS K ERGON, available both in stand-alone and in combined version with an electronic filler and a capper and represents a flexible


approach to the customer's needs for the production of PET containers up to 33,600 bph. This machine range is the result of a research & development project which introduced innovative concepts in the design and manufacture of SMI products standing out for low power consumption, high performances and a quality/price ratio among the best in the market. The stretch-blow moulders of the EBS ERGON series are equipped with motorized stretching rods controlled by electronic drives with no need for mechanical cams.

This new technology enables a precise descent of the stretching rod, an accurate control of its position at any time, remarkable energy savings, no needs for mechanical interventions (cams replacement) in case of bottle format change. The advanced technology employed also features low dead volume valves delivering great advantage in terms of machine efficiency and bottle quality.

**Secondary & tertiary packaging machines featuring energy saving, process efficiency and operative flexibility**

SMI innovations in the secondary & tertiary packaging machines ensures competitiveness, efficiency and flexibility along with energy savings and environmental sustainability. That's why SMI most innovative technology came into effect in the new ERGON series. Ergonomics and automation are the key elements featuring the new line of equipment of shrink-film and wrap-around case packaging machines that includes a large variety of models in single, double and triple lane configuration capable of satisfying production requirements up to 450 packs/minute (small packs in triple lane configuration).

SMI palletizing systems of the APS series results from an intense activity of research and innovation, which has allowed to produce technologically advanced systems capable of providing each user with the solutions which best fit their needs.

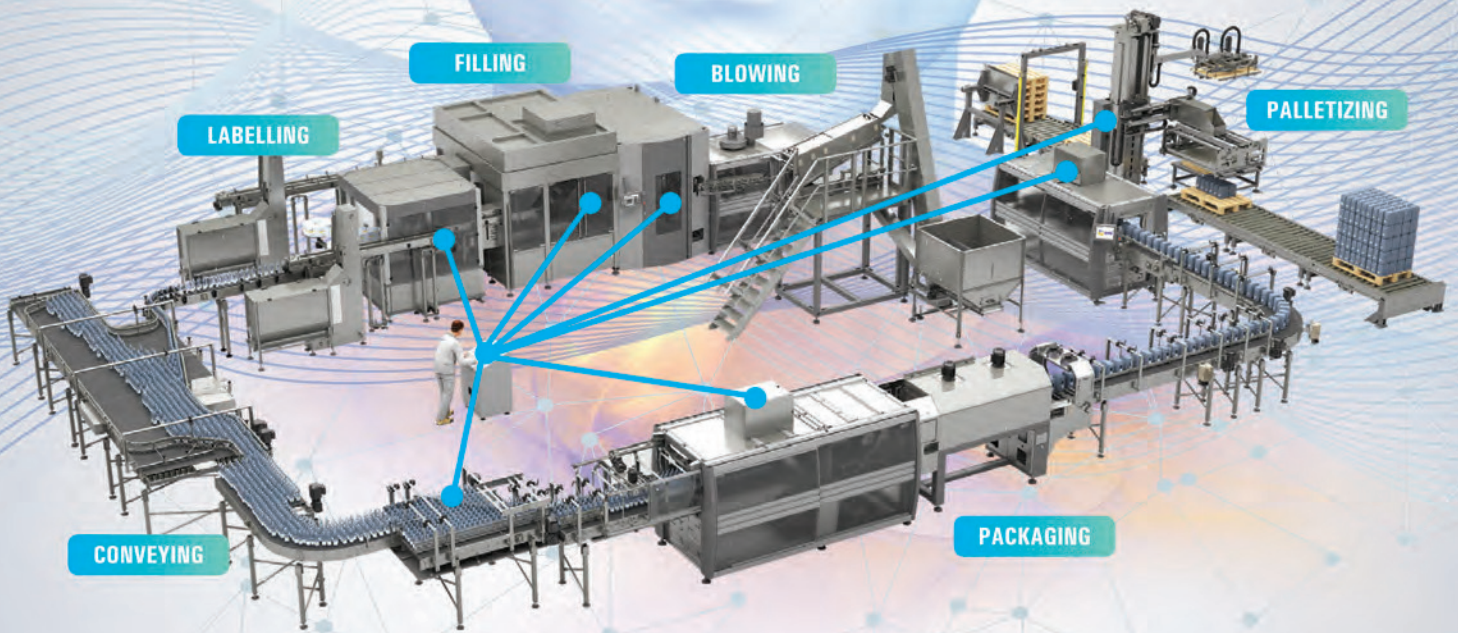
SMI palletizing systems enable to streamline the end-of-line operations of countless industrial sectors: beverage, food, chemical, pharmaceutical, detergent, glass, paper and many more and meet production needs from 35 up to 90 packs/minute (according to the size of the product handled and to the palletization pattern selected). 

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## *the new age of smart manufacturing*

SMI is specialized in designing, producing and installing complete lines for food & beverage bottling & packaging.

SMI turn-key systems feature Industry 4.0 and IoT technologies and an output rate from 1,000 to 33,600 bottles/hour.

**THE FACTORY OF THE FUTURE IS ALREADY A REALITY**

