

Press release

Syntegon Technology

Syntegon: Next generation filling machine LFS sets new standards in dairy and food production

- Filling liquid, viscous and pump required food into preformed cups and trays in clean and ultra-clean hygienic levels
- Modular system allows for customizable configurations, short lead times and fast production ramp-ups
- Optimum accessibility for fast format changes, easy adaptations and economical production

Königsbrunn, Germany/ Oldsmar, FL/ USA, August 3, 2021. The portfolio of cup filling and sealing machines from Syntegon subsidiaries Ampack GmbH, Germany, and Osgood Industries, LLC, USA has been extended with the new LFS filling machine for the dairy and food industry. Available in clean and ultra-clean hygienic executions, the LFS fills and packages liquid, viscous and pump required products, such as yogurt, sour cream, margarine, deli salads, dips, sauces, soups, or retorted pet food into preformed containers. The machine's new modular concept enables manufacturers to react quickly to changing market demands. Each machine function can be retrofitted, added or exchanged to meet customized requirements. The open design ensures optimum accessibility and visibility for easy cleaning and maintenance, resulting in a highly efficient and economical production.

The ability to flexibly handle a variety of products and formats is a key advantage in the highly competitive food market. "While developing the LFS, we paid special attention to a modular concept, which enables our customers with peace of mind that their new filling and packaging solution can be counted on for decades to come," explains Oguz Karcier, Product Manager at Syntegon.

New modular concept offers various possibilities

The LFS consists of individual modules which include main machine functions such as cup supply, disinfection, filling, sealing, capping, and cup discharge. Each module can be configured, added or retrofitted according to individual production needs for maximum flexibility. For example, the LFS can be equipped with up to three servo-driven pump systems, either a tank pump or a newly developed single pump system, to cover a variety of different product viscosities. The dosing station incorporates exchangeable nozzles as well as integrated CIP (Cleaning In Place) and SIP (Sterilization in Place) for ultra-clean configurations. The LFS processes all common container formats with a diameter between 60 and 160 millimeters on up to eight lanes with a maximum output rate of up to 20,000 cups per hour. In sequential indexing configuration, alternating carrier plates allow for processing two different packaging formats one after another without format changes needed.

To ensure optimum hygienic conditions during the filling process, the disinfection station can be configured to meet individual product requirements. For ultra-clean

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applications such as products with extended shelf life, customers can opt for two types of chemical-free disinfection methods: UVC light or pulsed-light. Optionally, the same technology can be used to disinfect the lids before placing them on the cups. In addition, HEPA filters purify the air, while container vacuums remove loose particles and debris from the cups before filling. Food producers can seal their product's packaging either using pre-cut foils or heat-sealing rollstock film. Integrated sensors perform seal integrity checks to detect any leakage or poor seals to ensure product safety.

Economical and efficient production now and for the future

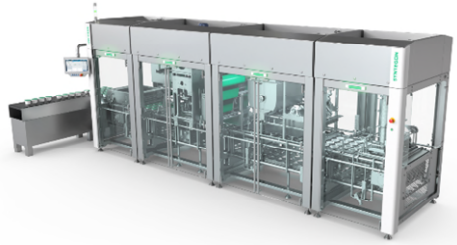
Thanks to its overall open layout and maintenance-friendly design, operators have optimum accessibility of the LFS machine parts and can perform tool-less format changes safely and quickly. A new feature for punctual chain elongation adjustment as well as lifetime lubricated bearings reduce downtime and ensure a highly efficient, reliable production. Furthermore, the LFS was designed with the future in mind: The integrated HMI 4.0 multi touch screen provides intuitive operator guidance with a clear and structured menu to assist efficient workflow and simplify troubleshooting. Further digital solutions can be added to enable quick product changes. For example, recipe changes and all necessary machine parameter adaptations are done automatically by the push of a button. In terms of sustainability, the LFS saves energy and can be configured to process sustainable materials, including paper and monomaterials for better recyclability.

“Our goal was to offer dairy and food manufacturers a flexible filling and packaging solution that fits their specific needs,” says Jonathan Viens, Sales and Marketing Manager at Osgood Industries, LLC. “The LFS provides future-proof flexibility: customers can configure the system to fit their products and integrate it into existing production lines. They can use sustainable packaging material, add additional filling stations or exchange their existing lidding station. In a nutshell: whatever the customer opts for, we make sure their LFS linear filling machines will be ready for all future requirements.”

For more information, visit us at Pack Expo Las Vegas at booth C-2800 or visit our [website](#).

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Images:



The modular concept of Syntegon's new inline filling machine LFS allows individual configurations to meet the specific needs of dairy and food manufacturers.



The new LFS fills and seals liquid, viscous and pump required products in clean and ultra-clean hygienic levels such as yogurt, sour cream, deli foods or dips into preformed containers.

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About Syntegon Technology

Syntegon Technology is a leading global process and packaging technology provider. Formerly the packaging division of the Bosch Group, the company, headquartered in Waiblingen (Germany), has been offering complete solutions for the pharmaceutical and food industries for over 50 years. About 6,000 employees at 30 locations in more than 15 countries generated a total revenue of 1.3 billion euros in 2020. The portfolio of intelligent and sustainable technologies includes stand-alone machines, as well as complete systems and services. Fields of application in the pharmaceutical industry are the production, processing, filling, inspection and packaging of liquid and solid pharmaceuticals (e.g. syringes and capsules). In the food industry, the portfolio includes process technology for confectionery as well as packaging solutions for dry foods (e.g. bars, bakery products and coffee), frozen foods and dairy products.

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