

## Press release

Syntegon Technology

# Syntegon presents innovative IDH handling system for cookies and crackers

- New picker technology based on linear motors for gentle handling
- On-edge and flat loading of products into trays or flow-wrapping machine infeeds
- Maximum overall equipment efficiency with minimal footprint

Beringen, Switzerland, August 30, 2022. With its IDH (Intelligent Direct Handling), [Syntegon](#) presents a new solution for handling and portioning cookies and crackers. The Syntegon IDH is based on a newly developed picker technology using linear motors. The flexible pick-and-place machine not only ensures particularly gentle product handling, but also offers a compact design along with high output and the option of loading different products both flat and on-edge – making it a highly efficient and flexible addition to Syntegon's pick-and-place portfolio.

### Gentle handling thanks to linear motor technology

The linear motor bar forms the heart of the new machine, as Philipp Kathan, Lead Engineer IDH at Syntegon, explains: "With a nominal 30 cycles per minute, the bar's up to 40 pickers pick the products from the process belt and place them into a flow-wrapper infeed or into trays. Thanks to the slow and smooth movements of the linear motor movers, the cookies and crackers are handled with minimal mechanical stress and vacuum application – preventing breakage or damage to the product surface and ensuring optimal production efficiency." The IDH picks the cookies directly from the process belt to keep the transport distances between the oven and the packaged product as short as possible, thereby reducing abrasion. Not only does this result in less product waste: cleaning efforts are also minimized because less product residue accumulates in the system.

An integrated camera-based vision system detects the position and shape of the cookies and crackers on the infeed belt and transmits this information to the picker control system. It identifies different product patterns or random arrangements and processes them reliably. Each picker can be aligned individually to ensure all products are placed into trays or the infeed chain correctly. Moreover, an integrated mini buffer automatically fills incomplete product rows, thus increasing system efficiency.

### Flexible and future-proof

Besides gentle handling, the IDH also impresses with its product and pack style flexibility: the number of vacuum pickers can be adjusted depending on the respective product and production volume. For example, manufacturers can increase the number of vacuum pickers to as many as 40 as process output increases. When

Chairman of the Supervisory Board: Marc Strobel  
Managing Directors: Dr. Michael Grosse,  
Dr. Walter Bickel, Uwe Harbauer, Johan Nilsson

Phone +49 7151 14 0  
E-Mail [press@syntegon.com](mailto:press@syntegon.com)  
Website [www.syntegon.com/press](http://www.syntegon.com/press)  
Twitter @Syntegon

Visitor address  
Stuttgarter Straße 130  
71332 Waiblingen

Syntegon Technology GmbH  
Postfach 11 27  
71301 Waiblingen  
GERMANY

integrated into horizontal packaging lines, the Syntegon IDH also provides high pack style flexibility.

“With the IDH, we are launching a compact and flexible solution that offers manufacturers a variety of options for packaging different product shapes and sizes. Cookies and crackers are picked directly from the process belt and placed into trays or the infeed of the downstream flow wrapping machine either on-edge or flat. This allowed us to omit long belts with chicanes and make the system design even more flexible,” explains Daniel Bossel, Product Manager at Syntegon.

### **Compact design and high output**

With its sophisticated overall concept, the Syntegon IDH makes the packaging process less complex: Its space-saving design not only minimizes conveying distances, but also allows for new system layouts traditionally used in bar production. Despite its compact dimensions, the IDH achieves a maximum output rate of up to 800 products per minute – combined with its low reject rate and short downtimes, this ensures high overall equipment effectiveness (OEE).

“The Syntegon IDH complements the Syntegon RPP pick-and-place platform launched in 2021 perfectly,” Bossel explains. “While the RPP’s delta robots pick up to 120 products per minute from a narrow belt, the IDH is ideal for higher volumes and particularly wide process belts. With our comprehensive portfolio for the cookie and cracker industry, we are able to offer our customers tailored system solutions with a low TCO from a single source.”

At this year’s Pack Expo from October 23 to 26 in Chicago, USA, the Syntegon IDH will be presented to the industry for the first time in combination with a Pack 202 flow wrapping machine at booth S-3514.

###

### **Images:**



The Syntegon IDH features a newly developed picker technology based on linear motors that ensure particularly gentle handling thanks to their smooth movements.



Thanks to its compact dimensions, short downtimes and high output rates of up to 800 products per minute, the IDH – ensures high overall equipment effectiveness.



With the option of both on-edge and flat handling, along with quick format changes, the Syntegon IDH pick-and-place system offers high product and pack style flexibility.

## Contact

Jela Grubesa  
Spokesperson Product Communications Food  
+49 7151 14-2159  
[jela.grubesa@syntegon.com](mailto:jela.grubesa@syntegon.com)

## About Syntegon Technology

Processing and packaging for a better life – this is what 5,800 Syntegon employees work for every day. Be it with individual machines, systems, or services, Syntegon helps its customers in the global pharmaceutical and food industries to improve people's lives. The company, which is headquartered in Waiblingen, Germany, looks back on more than 160 years of experience and achieved annual sales of 1.4 billion EUR in 2021. In the pharma sector, the company's intelligent solutions enable the safe and high-quality production, processing, filling, inspection, and packaging of liquid and solid pharmaceuticals. In the food industry, Syntegon's flexible and reliable technologies produce and pack confectionery, dry food, frozen food, and dairy products. With 1,100 service experts and a comprehensive service portfolio throughout the entire machine lifecycle from spare parts management to digital line optimization, Syntegon lays the foundation for smooth production processes for all customers. More than 30 sites in almost 20 countries keep a firm eye on Syntegon's impact on the environment and society. Syntegon is a leader in the development of sustainable packaging solutions, reduces the energy consumption of its machines and pursues ambitious goals to lower its emissions. [www.syntegon.com](http://www.syntegon.com)