

## Designed for recycling: Netstal presents a lightweight ICM thin-wall cup made of 100 % PP at Fakuma.

**(Näfels, 7. November 2023) At Fakuma, Netstal (Hall B3, Booth 3119) will be producing thin-wall packaging optimized for the circular economy using the injection compression molding process. Another highlight is the new Axos 9 control generation.**

It's light as a feather, the yogurt cup that Netstal is presenting at Fakuma. The other key data: Filling volume 200 g, part weight 5.4 g, wall thickness 0.3 mm. Since the cup and label are made of 100 % polypropylene (PP), the packaging is particularly easy to recycle. Unlike a conventional in-mold label, the label comes off in the mechanical recycling process. The PP stream is not affected because printing ink particles are reliably separated from the pure PP. Injection Compression Molding (ICM) reduces the weight of the cup by a remarkable 34 %. Another improvement in terms of sustainability: the combination of the ICM process and product optimization also results in a 27 % reduction in packaging volume.

### **Sustainable cup, energy-efficiently produced**

The sustainable thin-wall packaging for dairy products is produced in 4 cavities at a cycle time of 2.7 seconds in an Elion 1750 with hybrid injection unit. The Netstal machine operates with reliable performance and leading energy efficiency. With the optionally available adaptive system pressure reduction, Netstal has been able to further optimize the efficiency of its hybrid machines. In automatic mode, the control system determines the optimum point at any time and adjusts the pressure in the hydraulic system accordingly. Depending on the application, the energy consumption for providing the required system pressure drops to a minimum.

The packaging application, optimized for recycling, was developed in collaboration with high-end system partners Glaroform, Beck Automation, SABIC, IPB Printing, motan, Regloplas and Uniform Color. The development partner from the food industry is Emmi AG, the largest bottler of dairy

products. The specifications of the packaging were optimized with and under the guidance of Emmi's requirements. In the process, the previous appearance of the cup was to be retained.

### **Operate the machine intuitively with the new Axos control system**

With Axos 9, Netstal is bringing the latest generation of its control technology to the Elion and Elios series machines. Thanks to the innovative operating concept, users get the maximum performance out of their Netstal machine. Thanks to the integration of Smart Operation, employees in the production environment operate the machines quickly, safely, and effectively. The feature is still available as a paid option with Axos 9.

### **Further packaging application with Netstal in Hall A3**

Hall A3 is also worth a visit: Netstal will be visiting its Turkish mold partner Ceylan with an all-electric Elion 2200. In 4 cavities, 150 g margarine trays with IML decoration are produced. With a shot weight of 42 g, the cycle time is 3.8 seconds. The IML system with side removal, camera control and packaging unit comes from Eurasia Robotic in Turkey. The turnkey production line is running at Ceylan's booth, Hall A3, Booth A3-3105.

### **NET\_PM\_Fakuma\_IMG1.png**

**34% lighter: the cup produced using the injection compression molding process weighs only 5.4 g**

### **NET\_PM\_Fakuma\_IMG2.png**

**Intuitive control: The new Axos control is equipped as standard with Smart Operation**

Please find further information and images in print quality under: [www.netstal.com](http://www.netstal.com)

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### **Cultivating values, creating value**

Netstal stands for globally leading high-performance injection molding technology. The Netstal brand goes back to our founding site of the same name in the canton of Glarus, Switzerland. We employ over 500 people at our headquarters with production plant in Näfels and in our subsidiaries. We have been part of the KraussMaffei Group since 1992.

We offer manufacturing companies in the packaging industry, beverage industry and medical technology high-performance machines which work extremely efficiently, with absolute precision and maximum reliability. We are continuously developing these solutions and deliberately incorporating innovative technologies. Because we feel jointly responsible for ensuring that our customers produce efficiently and sustainably. That is why we are driving the development of digitalization and the circular economy with our expertise and experience. We have focused our portfolio on performance, precision, and quality. Customers can find Elios and Elion series injection molding machines with clamping forces between 800 and 10,000 kN, the PET-Line preform system for up to 144 cavities, and turnkey system solutions from a single source. Our quality management is certified according to ISO 9001 and our accredited calibration laboratory meets the requirements of ISO/IEC 17025:2017.

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