



INNOVATION IN SUSTAINABILITY:

The 1L Oval Container Made from 50% PET and 50% R-PET

At the Fakuma 2024, at their joint booth, Brink Moulds & Automation and Stork IMM, supported by Alpla will show a groundbreaking milestone in recycled PET (R-PET).

We are very proud to introduce the 1L Oval container, made with a unique blend of 50% PET and 50% R-PET. This container combines sustainability with complex geometry, offering a tamper-evident and watertight closure; a first in the packaging industry!



A SUSTAINABLE MARVEL IN PACKAGING TECHNOLOGY

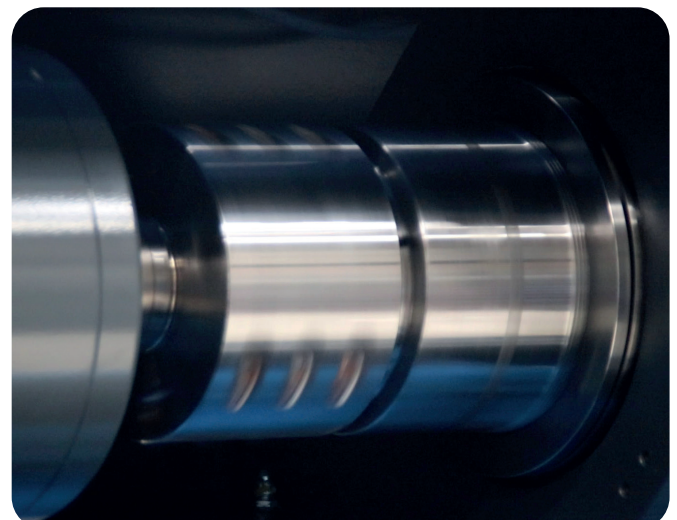
This revolutionary container is the result of advanced injection moulding technology, of Brink Moulds & Automation, Stork IMM and Alpla. Brink developed the mould especially to handle R-PET material, Alpla, a leader in R-PET solutions, provided the ideal material, while Stork IMM engineered an injection moulding machine specifically designed to handle R-PET. The result is a lightweight, durable container that meets the strict standards for using recycled materials in food packaging.

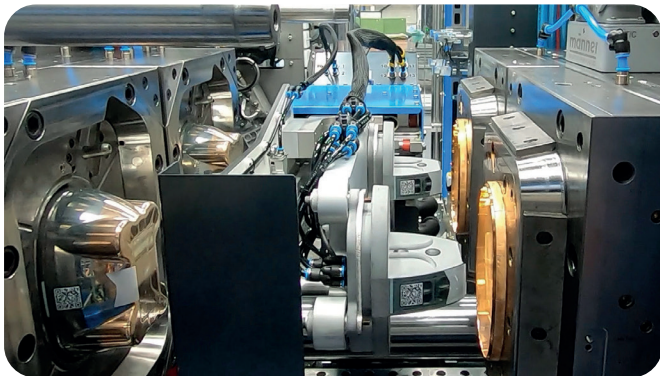
This innovation aligns perfectly with the growing global focus on sustainability. As EU regulations now require a minimum percentage of post-consumer recycled (PCR) content in packaging to avoid fines, our container is not only compliant but sets a new standard for what is possible with recycled materials in food industry. While smaller, simpler R-PET packaging has been on the market for some time, no one until now has managed to produce a complex 1L container that meets these demanding requirements.

UNVEILING AT FAKUMA 2024

This world-class achievement will be officially unveiled at Fakuma 2024. Brink Moulds & Automation, Stork IMM and Alpla will present an innovative container, using state-of-the-art technology and sustainable materials.

Stork IMM has developed an injection moulding machine specifically for processing R-PET, capable of handling the high speeds and pressures required to produce thin-walled packaging. This machine can reach injection pressures up to 3000 bar, ensuring that the containers maintain the same wall thickness as those made from polypropylene (PP). Moreover, Stork IMM's machines are designed for continuous, high-speed production, meeting the demands of the packaging industry with 24/7 operational capacity.





To ensure high-quality results, the mould used for this container was custom-designed to handle the unique properties of R-PET. Cooling, venting, and injection systems were adjusted to accommodate the forces generated during production. Brink's mould technology, along with Manner's hot runner system, ensures precision, robustness, and efficiency.

Brink's Versatile In-Mould Labeling (IML) system is used to apply IML labels from IPB Printing, creating a visually appealing and functional product.

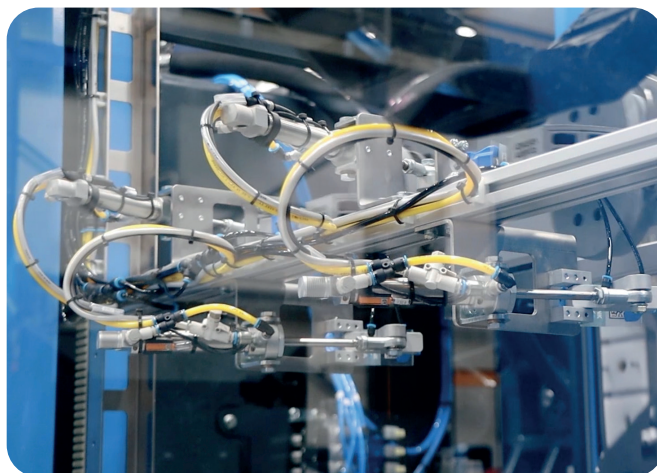
Designed to create a high degree of flexibility in the production of products with IML without compromising on speed and quality.

All conceivable product shapes and label types can be processed with the patented drawer system. Whether the product is round, rectangular, oval or square or provided with a wrap around, bottom, 3-sided, 5-sided or top label, it is possible on the versatile system.

Multiple cavity variations (2, 4, 6 or 8+8 cavities) are possible.

The label position can be adjusted on the touch screen but can also be linked to the vision control and rejection system. Based on the vision images, the system can correct the label position without human intervention being necessary. The loop is thus closed and the quality is guaranteed.

The system can be refilled without causing production loss. When the magazines are emptied, the drawers are automatically changed so that there is no loss of production here either.



STORK[®] IMM
INJECTION MOULDING MACHINES

FP PLASTIC
PACKAGING
PERFORMERS

BRINK

R-PET: A LEAP FORWARD IN MATERIAL DEVELOPMENT

Alpla has developed a special additive that allows R-PET to be injection moulded with the same quality as virgin PET, addressing the variability inherent in recycled materials. This ensures that the 1L oval container meets the highest standards of strength and durability, making it ideal for food packaging.

ALPLA

SHOWCASING THE FUTURE OF SUSTAINABLE PACKAGING

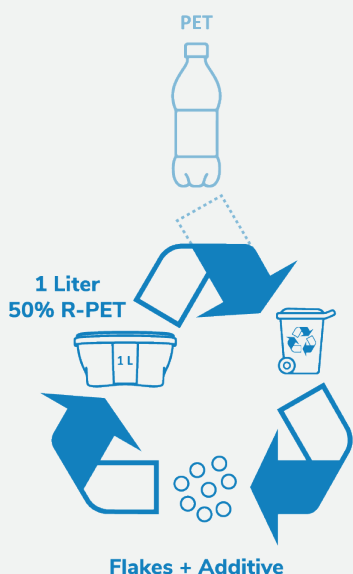
At Fakuma 2024, Stork IMM will showcase its Foodline 4400 injection moulding machine, paired with Brink's custom mould, to produce the 2-cavity oval 1L container with tamper-evident and watertight closure. This presentation will demonstrate the seamless integration of sustainable materials, cutting-edge machinery, and advanced automation, setting a new benchmark for the future of packaging.

Fakuma

With the launch of this innovative 1L container, Brink Moulds & Automation, Stork IMM and Alpla are taking a bold step forward in the transition to more sustainable packaging solutions.

This machine had been sold to:

**KREUWEL
PLASTICS**



WE THANK THE FOLLOWING COMPANIES FOR THEIR CONTRIBUTION:

IPB Printing
In Mould Labels

SONI
Wir nutzen Energie sinnvoll

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SOLUTIONS FOR PLASTICS
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