

Highly efficient for thin-walled containers

- **Thin Wall Integra: Collaborative project with new approach to the production of thin-walled packaging**
- **Cooperation: Mould makers, robotics and IML label manufacturers, material flow specialists, raw material suppliers and Arburg France**
- **Fully automated: Injection moulding cell with hybrid Allrounder 720 H in packaging version**

Lossburg/Aulnay-sous-Bois, 13/01/2022

How do you economically produce thin-walled containers using top-quality recycled material and with maximum output? By having several specialists combine their well-founded expertise. This is what has happened in France as part of the Thin Wall Integra collaborative project. The collaboration pursues several objectives simultaneously, namely the high-volume processing of recycled material into thin-walled containers in a way that is fully automated, fast, and of a consistently high quality.

Arburg's subsidiary in France has teamed up with Collomb, a mould maker specialising in thin-walled containers, Pagès Group, a robotics expert for packaging, Verstraete, an IML label manufacturer, Koch-Technik, a material flow specialist, and Borealis, a raw materials supplier, to present Thin Wall Integra as a new one-stop shop concept for the production of thin-walled five-litre buckets.

Jointly developed concept

The jointly developed concept is based on a fully automated injection moulding cell around a hybrid Allrounder 720 H in packaging version with a 1-cavity mould. The complete cycle only takes around five seconds. In addition to the injection moulding machine optimised for fast cycles, the sequentially operating robotic system is also a top performer. The handling system with telescopic arm that engages from the rear side of the machine first loads the mould with the IML labels. The robotic system then removes the labelled buckets and stacks them on a deposit mat. The stacks are then automatically picked up by a robot for palletising. The two robot technologies used make the system particularly compact. The recycle is continuously fed in via an automatic conveyor system.

Strengths of the collaborative partnership

The Thin Wall Integra partners contribute their specific expertise at every stage of the project to demonstrate state-of-the-art technology to manufacturers of thin-walled containers, while also ensuring the necessary quality and meeting the tight deadlines of the packaging industry.

In addition, the joint project is in line with the ecological aspects of plastics processing that are so important today. The product has a proportion of 55 per cent recycled material, and its 'ecological design' enables material savings of up to 35 per cent. Added to this are the simplified stackability of the buckets and the use of 'HolyGrail 2.0' labels, which make it easy to recycle the materials used by type.

The fully automated project system is specifically designed for high-performance packaging applications that require speed, precision and efficiency, as well as ease of maintenance. After its

premiere on 30 November, the Thin Wall Integra project is also be on show during an open day at Collomb in Oyonnax on 12 January 2022.

Photo

ARBURG 179263_Packaging_Gruppe.jpg



The team of the Thin Wall Integra collaborative project.

ARBURG 179261_Packaging_Anlage.jpg



Fully automated injection moulding cell around a hybrid Allrounder 720 H in packaging version.

ARBURG 179262_Packaging_Becher.jpg



The 'ecological design' enables material savings of up to 35 per cent.

Photos: Christophe Brissiaud, Collomb Mécanique

Press release

File: ARBURG Press release Thin Wall Integra_en_GB.doc

Characters: 2,756

Words: 422

This and other press releases are available for download from our website at www.arburg.com/de/presse/ (www.arburg.com/en/press/)

Contact

ARBURG GmbH + Co KG

Press office

Susanne Palm

Dr Bettina Keck

Postfach 1109

72286 Lossburg

Tel.: +49 (0)7446 33-3463

Tel.: +49 (0)7446 33-3259

presse_service@arburg.com

About Arburg

German family-owned company Arburg is one of the world's leading manufacturers of plastic processing machines. Its product portfolio encompasses Allrounder injection moulding machines with clamping forces of between 125 and 6,500 kN, the Freeformer for industrial additive manufacturing and robotic systems, customer and industry-specific turnkey solutions and further peripheral equipment.

Arburg is a pioneer in the plastics industry when it comes to production efficiency, digitalisation, and sustainability. The "arburgXworld" program comprises all digital products and services and is also the name of the customer portal. The company's strategies regarding the efficient use of resources and circular economy, as well as all related aspects and activities, are outlined in the "arburgGREENworld" program.

Arburg's central aim is for customers to be able to produce their plastic products, from one-off parts to large-volume batches, in optimum quality at minimum unit costs. The target groups include, for example, the automotive and packaging industries, communication and entertainment electronics, medical technology and the white goods sector.

An international sales and service network ensures first-class customer support at a local level: Arburg has its own organisations at 35 locations in 26 different countries and, together with its trading partners, is represented in more than 100 countries. Its machines are produced exclusively at the company's German headquarters in Lossburg. Of a total workforce of about 3,400, about 2,850 people are employed in Germany. About 550 people work in Arburg organisations around the world. Arburg has triple certification, in accordance with ISO 9001 (quality), ISO 14001 (environment) and ISO 50001 (energy). Further information about Arburg can be found at www.arburg.com