

A Leap into Industry 5.0

Fabio Terragni, founder of Agripak and a benchmark in extrusion and thermoforming technology, presents the new Cartonplast line with a working width of 3500 mm and a production capacity exceeding 1500 kg.

The history of polypropylene hollow sheet extrusion dates back to the second half of the 1960s, when the first technologies destined to revolutionize the thermoplastics industry were developed at RIAP (Industrial Research Applied to Polyolefins) in Zingonia, in collaboration with Montecatini. The name Cartonplast was registered in the early 1970s by Covema, a historic Milan-based company founded by Marco Terragni, a key figure in the worldwide spread of these technologies. Today, more than fifty years later, Agripak – also founded by Marco Terragni together with his children Fabio, Massimo, and Patrizia – continues this tradition of innovation with the presentation of the world's largest Cartonplast extrusion line: 3500 mm in working width and a production capacity exceeding 1500 kg. "This new generation of lines is

the result of unique know-how developed over more than six decades of experience," emphasizes Fabio Terragni.

What are the key features of the Cartonplast line?

"Among its main features, first and foremost is intelligent co-extrusion: the core layer is made from recycled material using a 180 mm main extruder, while the outer surfaces are produced with virgin material, ensuring both aesthetics and functionality. Material management is highly optimized – the screw and feeding zone are specifically designed for efficient processing of recycled content. Additional significant advantages include continuous filtration with an automatic system that allows for screen changes without interruptions; an adaptive extrusion head with automatic flow adjustment for widths ranging from 2500 to 3500 mm; and a fully automatic



calibrator that provides precise control of thickness, temperature, and vacuum for profile stabilization.

High-tech haul-offs and rollers in lightweight alloy with real-time adjustment; an advanced stabilization oven designed to eliminate internal stresses and ensure flatness; smart longitudinal cutting with up to six blades, positionable automatically from the control panel; corona treatment for direct sheet printing; dual guillotine and automatic stacker for efficient end-of-line management, all contribute to this line's outstanding performance. But the real beating heart

of the plant is its integration with artificial intelligence. CobrakAL, internally developed by Agripak, fully supports line supervision through an intuitive interface, enabling remote control, real-time data analysis, process parameter optimization, and predictive maintenance."

What results does this achieve?

"This system, despite its impressive production capacity, is extremely easy to operate, efficient, and highly flexible. It perfectly embodies the spirit of Industry 5.0, where advanced technology and sustainability come

together. Our Cartonplast extrusion lines are now more advanced than ever, thanks to the integration of AI, cloud computing, and intelligent automation. Our systems collect and store every production parameter, ensuring constant monitoring and continuous optimization.”

Sustainability has always been one of your company’s core values. What does it mean for you?

Fabio Terragni, founder of Agripak in Milano
www.agripak.com



“Being sustainable means adhering to all ESG criteria. At our company, we strive

At our company, we strive to ensure equal opportunities and foster a welcoming and collaborative work environment. To this end, we operate under high governance standards, ensuring transparency and accountability in all activities. The company’s leadership understands the importance of maintaining an open dialogue with all stakeholders – from employees to customers, suppliers, and shareholders. This approach has allowed us to build a long-term business based on solid values and a global vision.

Our approach goes beyond technology. For decades, we have been committed to promoting a culture of sustainability by investing

in research and development to ensure that every innovation has a positive environmental impact. This translates into the production of reusable and recyclable packaging with the Cartonplast technology invented by my father, Marco Terragni, as well as projects like the development of macrofibers for concrete reinforcement – an eco-friendly alternative to steel reinforcements.”

What is the Runchallenge project?

“Inclusion is a fundamental

value for me and I’ve always sought to support initiatives that place people’s well-being and social cohesion at the center. Among these is our eight-year-long participation in the Runchallenge project by Playmore – an inclusive running initiative that started in Milan and has quickly spread to 13 cities, engaging over 4,500 runners, 1,259 of whom have disabilities. Through this project, Agripak helps create integration opportunities for people of all ages.”

A 360 DEGREES KNOW HOW

Agripak is a leading company in the design, engineering, and manufacturing of fully automated, high-tech extrusion and thermoforming machinery. Customization, high-quality standards, innovation, productivity, turnkey solutions, and rapid return on investment have always been its key strengths. Agripak offers 360-degree know-how, including the supply of any fully automated extrusion and thermoforming line on demand, as well as complete production flow technology, acting as a general contractor for any customer-specific project..