

Siemens and Omet: a partnership oriented towards technological innovation, efficiency and sustainability

The XV Line manages the entire production cycle in a continuous, automatic flow e integrated.

Location: Lecco, Italy

Highlights:

- The Digital Twin made it possible to virtually simulate and test the entire line even before its physical construction
- An advanced conveyor system, the Multi-Carrier System, increases flexibility and line productivity, reducing the need for maintenance and energy consumption

OMET S.r.l.

Omet is an Italian company founded in 1963, with over sixty years of experience in the field of technological innovation. It is internationally recognized for its design and production of high-performance machines in the printing and tissue converting sectors. Its strength is its ability to provide integrated solutions, which allow customers to manage the entire production process with a single interlocutor.

Solution/Portfolio

The technological heart of the new XV Line is the result of a strong collaboration between OMET and Siemens, which has made it possible to develop a line capable of managing the entire production cycle – from the reel to the finished product – in a continuous, automatic and integrated flow. A substantial evolution compared to previous solutions, which required long conveyor belts and multiple processing phases. Thanks to Siemens' contribution, the XV Line integrates advanced technologies that enhance its performance and reliability:

- Digital Twin: *Through the virtual simulation of the entire plant, OMET and Siemens were able to test and optimize the line even before physical assembly, resulting in a 30% reduction in commissioning time and an acceleration of engineering development.*
- Multi-Carrier System: *A modular and flexible conveyor system that allows flexible, independent and optimized handling of products along the entire line. This solution increased productivity by 50% compared to the initial layout, reaching 240 packs per minute, with superior precision in handling light and delicate materials such as napkin stacks.*
- Modular Application Creator (MAC) and Configure&Run: *MAC and Configure&Run ensured error-free design and function module creation and fast and efficient commissioning of the Multi-Carrier System.*

Benefits

Thanks to the integration of advanced technologies and the profound revision of the layout, OMET has managed to achieve a significant increase in productivity. The virtual testing phase, made possible by the Digital Twin simulation, made it possible to anticipate critical issues and optimize the configuration already in the development phase, reducing commissioning times by 30%. The elimination of approximately 50 square meters of conveyor belts has allowed for optimized use of space, improving logistics management and reducing the need for maintenance, downtime and operating costs. Thanks to the overhaul of the transport system and intelligent motorisation, the energy consumption of the transport system has been reduced by 25%.

"The XV Line project is not just a machine, but a new vision for our sector. It is the demonstration of how innovation and collaboration can change the future of industry".

Antonio Bartesaghi,
CEO Omet S.r.l.



SIEMENS