

CONVERTING LINE OPTIMIZATION THROUGH CONTINUOUS WEB SIMULATION

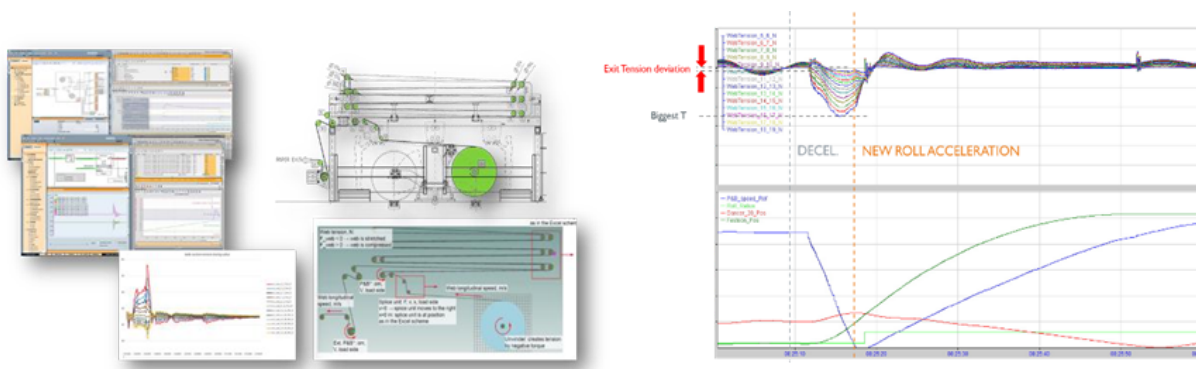
Web tension is one of the most critical process values in roll-to-roll processes. Its control is key for the performance and many different techniques and designs are applied. Due to the development of simulation software, the accuracy and performance of simulation have greatly increased over the past few years. We presented **a new approach to analyze web behaviour at every roller, allowing us to predict web shifting and wrinkle generation from design.**



The AIMCAL R2R (Roll-to-Roll) Europe Conference was recently held at the AIMPLAS Plastics Technology Centre in Valencia, Spain. Leading Consultants and Experts from Academia

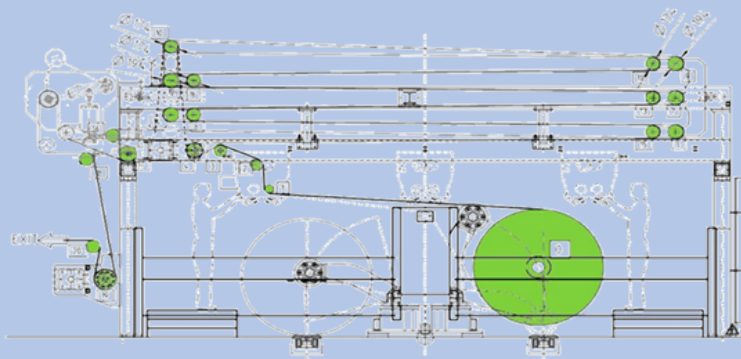
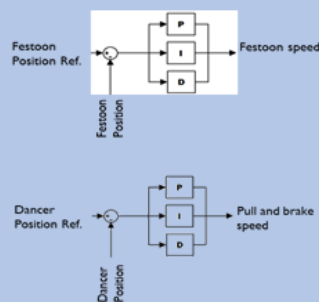
and Original Equipment Manufacturers presented best practices and advances in the industry. During this year's event, MTorres' "Converting Line Optimization Through Continuous Web Simulation" was presented.

“With this new strategy we hope to **get a relative cost and time to market reduction** when we are dealing with new substrates requiring new configurations and control configurations”



Thanks to the **Digital Twin strategy**, we are close to finish a project with the main goal of improving our LTX-6 splicer performance with lower web grammage range <30gsm.

By making some modifications to key components, we are able to maintain our horizontal festoon, and refine our tension control system to enable lightweight paper to be run on the **LTX splicer**.



By the end of 2022, Digital Twin will be adapted to our main products – **LTX and THT configurations** – which will help us to adapt our products to a more demanding requirements.