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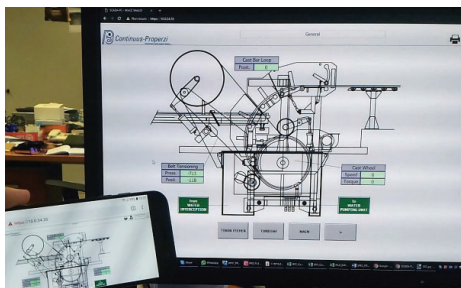
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Trends such as AI and automation are causing a tremendous upswell of interest in industries across the spectrum and are a significant driving force for us at Maillefer. Data today is a great power to monitor and control operations closely. In our AI solutions, everything is based on a massive amount of data and deep knowledge from the process under investigation. However, mere data collection is of no use unless it is analyzed to troubleshoot and upgrade the technology. The industry has had the data for decades, but its effective use has still not begun. We are measuring a huge pile of data in the product lines we offer, and we have started to utilize it. Our first real AI offerings have been launched: Smart Buffering and Topography Scanner.

In Smart Buffering, the line can autonomously control itself, leading to extremely efficient production with minimal raw material consumption. In Topography Scanner, the neural network-based inspection method we developed identifies defects from cable surfaces. These advances can help our customers save remarkable money by preventing scrap in the post processes.

We know what data should be measured and what devices should be used in our lines and machines. The devices help us analyze the data and make decisions regarding controlling our actions. This utilization of data immensely helps us in our R&D with regards to designing a perfect machine. We have long designed and manufactured machines, but once we have analyzed previous data, we can now envision better machines, more efficient extruders and crossheads. A more profound knowledge of the process remains critical to utilize the data to get a conclusive idea of how we can optimize a machine. Hence, acute data measurement and analysis coupled with extensive process knowledge is the key to the success of our industry 4.0 offerings. *Dr. Mikko Lahti, director, R&D, Maillefer.*

Continuus-Properti Properti International



A SCADA view showing the IULIUS 4.0 connection to multiple data generators.

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Prior to the advent of Industry 4.0, customers looking to purchase capital equipment focused on maximum performance parameters, production throughput per unit time, equipment efficiency, equipment operation and maintenance costs over time, and the like. Those matters are still vital, but Industry 4.0 zones in on the equipment's automation system and how it can optimize performance. Properti developed the IULIUS 4.0 system to ensure the equipment's automation system addresses the demands of Industry 4.0.

IULIUS 4.0 is designed for our end-users to support and facilitate their transition to digital factories. The goal is for a Properti line to provide the best possible, most trouble-free performance for production consistency, quality, OEE, savings and timely response to market challenges. Through data collection of important variables, IULIUS 4.0 provides automation and IT functionalities that address the specificities inherent to Properti technology and equipment, as well as those of our end-users such as rod producers, welding wire producers, ingot casters, etc. These functionalities are pre-implemented and ready to use for seamless integration of the IULIUS 4.0 system with the end-user's IT system.

IULIUS 4.0 enables managers to be more proactive. They can perceive and react to unforeseen situations and fine tune plant operations/processes via a structured method, thereby achieving greater performance and consistency in a timely manner. IULIUS 4.0 functionalities provide managers with valuable support for various departments including production, quality, maintenance, energy, etc. There are many more technical details we would like to share with you about the IULIUS 4.0 system. If you attend Interwire 2023, please stop by and see us at our booth, or contact us at sales@properzi.it. *Giuseppe Marcantoni, general manager, Properti International Inc., and Giovanni Pirovano, automation director, Continuus-Properti SpA..*