

# VMI PIXXEL

Reliable, fault-free production with  
reduced human intervention.

# ENHANCED GUIDANCE AND MONITORING PERFORMANCE

At the heart of VMI's vision technology is a sophisticated system that effectively replaces the eyes of the operator, enabling complete hands-off and eyes-off production. However, in view of Industry 4.0, VMI continuously aims for greater connectivity, higher levels of automation and wider use of machine intelligence to drive speed, agility and production integration.

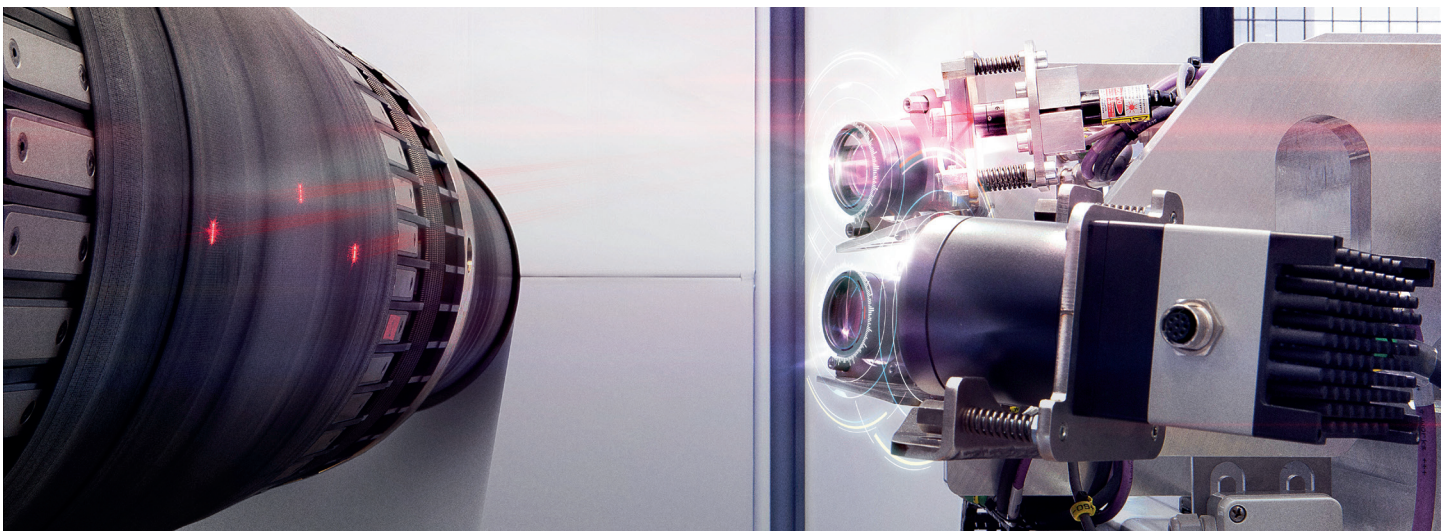
## **VMI now introduces VMI PIXXEL**

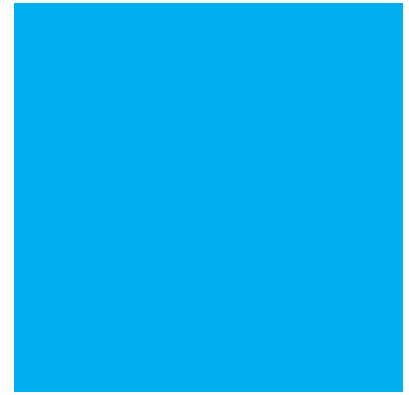
VMI PIXXEL is a single, integrated platform containing its own logical and processing capability, with the ability to interface and integrate with all the systems, hardware and software, around it. With VMI PIXXEL, the performance for both guidance and monitoring has been enhanced, and new levels of visualization have been introduced into the Graphical User Interface (GUI) for the operators. The result is both greater accuracy in performance and much improved simplicity in operation and management, leading directly to better productivity.

VMI PIXXEL results in improved performance in all key areas in tire production. For breaker guidance, the camera is automatically calibrated and lens errors are identified and compensated for. On the machines, sensors are used to identify any actions that stray beyond agreed tolerances and lead to automatic intervention. For strip splicing, each overlap is measured to ensure that it stays within the tolerances. Smart algorithms developed by VMI are able to interpret the images to enable fast, automated intervention to correct errors, while the advanced visualization software makes it easier for operators to understand what is happening at all times.

The data obtained during the production process, can now also be exported as a way of improving quality assurance and for providing auditable data for use by tire manufacturer customers. With VMI PIXXEL, this data is instantly available for immediate quality assurance, giving the tire manufacturer a huge competitive advantage in the market.

VMI PIXXEL is ruggedized and ready for fault-free operation in the harsh conditions within a tire building environment.





### **VMI - Market leader in production machinery**

People feel a real pride when they create technical innovations that keep manufacturers ahead in their markets. That's the passion behind the VMI Group and our work with tires, rubber, cans and care products. And the reason VMI is the market leader in complex production machinery.

Founded at the end of WWII, we began our work helping to rebuild Dutch industry, including the Netherlands' railways. Manufacturing expanded as we entered the rubber and tire industries in the early 1960s. Can machinery soon followed – a business line that has grown into a leader in the can industry. With such a track record, it's no wonder our newest business line, VMI Care, has become the market leader in high capacity cotton pad machinery. Recently, automated systems for individual medication packaging have been added to this portfolio.

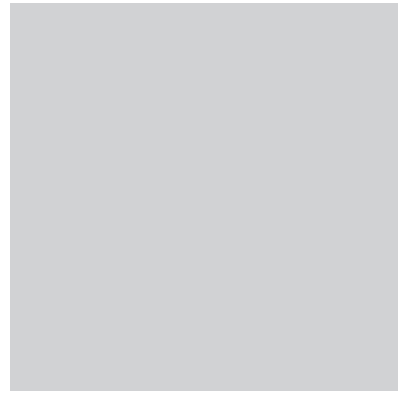
### **Your success is our success**

We employ more than 1,200 people around the world, with production facilities in the Netherlands, Germany, Poland, the USA, China and Brazil. These are people who dedicate constant effort to developing new products and solutions to meet current – and future – manufacturing demands.

So you enjoy fast and efficient production, consistent high quality output and profitable return on your investment. Not just on the nuts and bolts of the machinery – but also with long-term and personal relationships with our team of experts.

## Product highlights:

- High quality imaging by using latest sensor technology.
- Easy to use interface with more than 10 tire and rubber related applications selectable from one GUI.
- Storage and export of images for further offline analysis.
- Integrated platform for both monitoring and guiding.



VMI is a wholly owned subsidiary of the TKH Group, and specializes in designing and engineering superior machinery – to handle a world of industrial production. With the highest tech solutions for the tire, rubber, can and care industries.