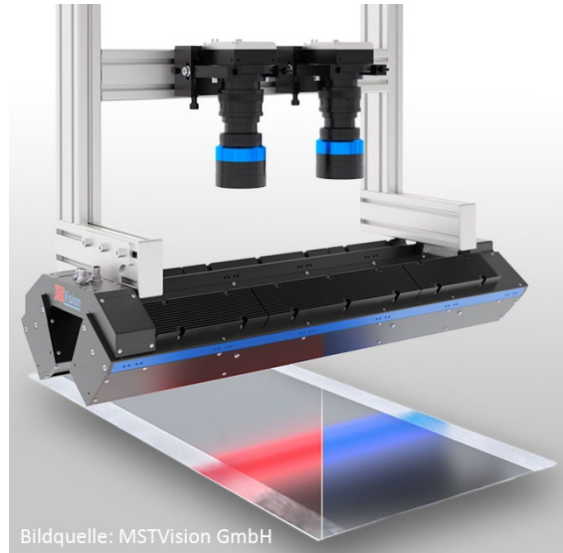


High-Speed Roll-to-Roll and Coil-to-Coil Inspection

Our inline web inspection system stands for maximum precision, process reliability, and performance in modern roll-to-roll and coil-to-coil applications. Specifically developed for continuously manufactured web materials, the system enables **reliable 100% quality inspection even at the highest line speeds.**

Designed as a modular solution platform, the system can be precisely tailored to your production environment. Depending on the application requirements, **inspection can be implemented using bright-field, transmitted-light, dark-field, or Shape-from-Shading technology.** MSTVision's intelligently arranged, space-saving bar lighting systems ensure optimal illumination of a wide range of surface structures, enabling the reliable detection of virtually all relevant anomalies. Even the smallest defects are detected with process reliability, regardless of material, texture, or coating.



Bildquelle: MSTVision GmbH

At the core of the solution is the **AIT EasyPlus** software, individually customized to your requirements and built upon a wide range of successfully implemented industrial projects. The software delivers powerful surface inspection capabilities with precise analysis of scratches, wrinkles, delamination, pinholes, bulges, and other material- or process-related defects. Automated detection and classification ensure the reliable rejection of defective sections and sustainably improve your product quality.

Integration into existing production systems is seamless via standardized PLC interfaces. All inspection results are fully logged and available for analysis, reporting, and process optimization. This means quality is not only inspected, but also transparently documented and continuously improved.

Thanks to its modular sensor architecture, the solution can be flexibly adapted to different web widths. Resolution and system configuration are precisely matched to your line speed and inspection requirements. Expansion options such as deep-learning-based defect classification and optical measurement provide additional opportunities for data-driven quality strategies.

Applications/Industries:

The inline web inspection system is suitable for a wide range of industrial applications, including paper and cardboard, plastic films, metal strips such as steel coils or aluminum, textiles and nonwovens, rubber and sealing materials, PCB laminates, and coated technical fabrics.

With our solution, you not only ensure the quality of your products, but also optimize your production processes during operation. Precise. Scalable. Future-oriented.

Technische Highlights & Benefits

- **Surface Inspection:** Excellent analysis capabilities for all types of anomalies and defects
Designed for high-speed applications
- **Quality Control:** Scratches, wrinkles, delamination, pinholes, bulges, and similar defects are automatically detected and rejected
- **Flexibility:** Modular sensor system enables inspection of various web widths
- **Interfaces:** PLC communication and fully logged inspection results
- **Expansion Options:** Deep-learning-based defect classification
Optical measurement systems
- **Performance:** Flexible resolution and line-speed configurations
Suitable for all types of web materials

We show you how to improve quality while reducing costs.
Get non-obligation expert advice now: sales@ait.de