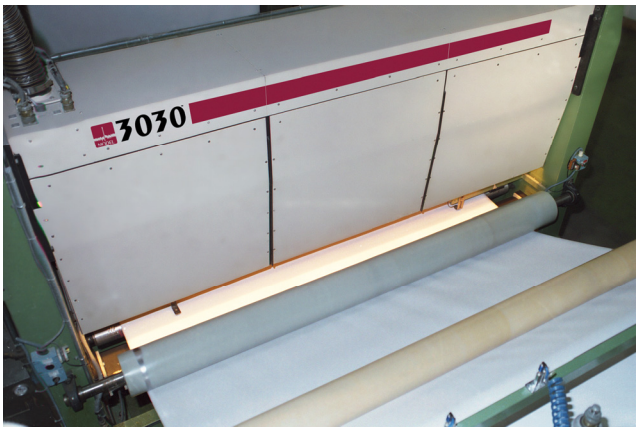
Model 3030 OPTOMIZER® Machine Vision Web Inspection Technology

RKB OPTOELECTRONICS



MAXIMIZE PROFITABILITY

Undetected defects often result in excessive costs for customer returns, repairs to sensitive production equipment, and machine downtime in today's high speed web manufacturing operations. The Model 3030 OPTOMIZER® Machine Vision Web Inspection Technology provides real time detection and categorization of holes, spots, dirt, coating streaks, and many other types of defects.

Model 3030 OPTOMIZER® Machine Vision Web Inspection Technology can be integrated with new or existing web manufacturing equipment. These systems can help maximize the profitability of your web manufacturing operations by providing production, maintenance, and setup personnel with immediate notification of defects and the information they need to quickly locate and correct defect producing conditions.

DETECT AND CATEGORIZE ALL DEFECTS

Model 3030 OPTOMIZER® Machine Vision Web Inspection Technology use an array of high speed CCD Line Scan cameras for detection of random defects such as holes, spots, and edge cracks. A separate array of high resolution Streak Scan sensors is used to provide coating streak and scratch detection capabilities that are unachievable with line scan cameras alone. This combination of both types of cameras with proprietary and patented RKB signal processing technologies provide unprecedented performance in a single web inspection system.

MODEL 3030™

TECHNICAL SPECIFICATIONS

Defects Types Detected	All Types
Minimum Detectable Defect:	
Streaks and Scratches:	0.0001" (0.0025 mm)
All Other Defect Types:	0.00001 sq. mm
Maximum Detectable Defect:	
streaks and Scratches:	Unlimited
All Other Defect Types:	Unlimited
Maximum Web Speed	10,000 ft/min. (3,048 m/min) No Limit Streaks
Basis Weight Range	Subject to Tests
Material & Color Range	Subject to Tests
Line Scan Cameras:	
Type:	1024/2048
Lens Focal Length:	25/50 mm
Field Of View (FOV):	0.1" (2.54 mm) Min.
Pixel Resolution:	0.0001" (0.0025 mm) in CD
Streak Scan Cameras:	
Type:	Proprietary
Lens Focal Length:	25 mm
Field Of View (FOV):	10" CD (0.1" (25.4 cm)
Pixel Resolution:	0.0002" (0.005 mm)
Illumination:	Proprietary
Ambient Temperature	40 to 160° F (4 to 70° C)
Power	120/220/240 VAC 50/60 Hz Single Phase 3 -10 KW

Specifications are subject to change without notice.

R.K.B. OPTO-ELECTRONICS, INC.

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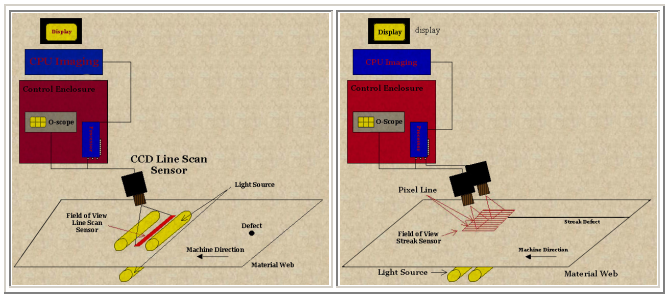
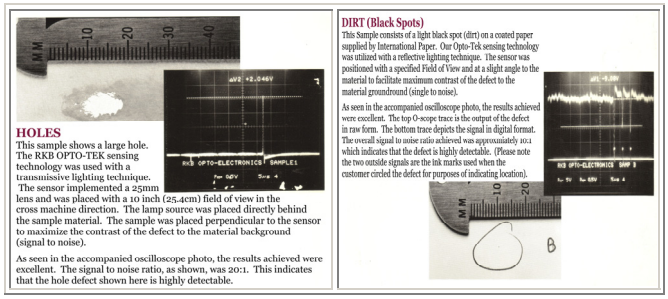
Span The Entire Web

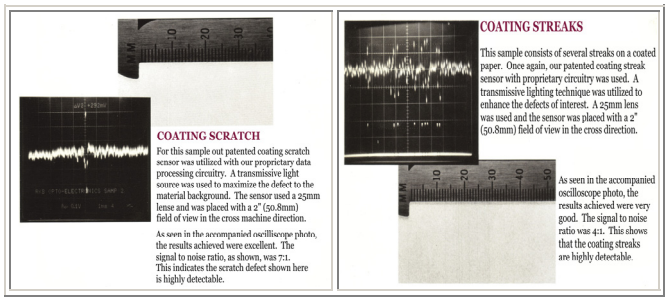
Each Model 3030 OPTOMIZER® Machine Vision Web Inspection Technology is designed to span the entire web width for 100% inspection of the web material. Now products can be fully qualified prior to shipment to customers. Our QAMS® Quality Assurance Management System software is also included with each system to provide complete data collection, analysis, reporting, setup, and diagnostic capabilities.



REDUCE PRODUCTION COSTS

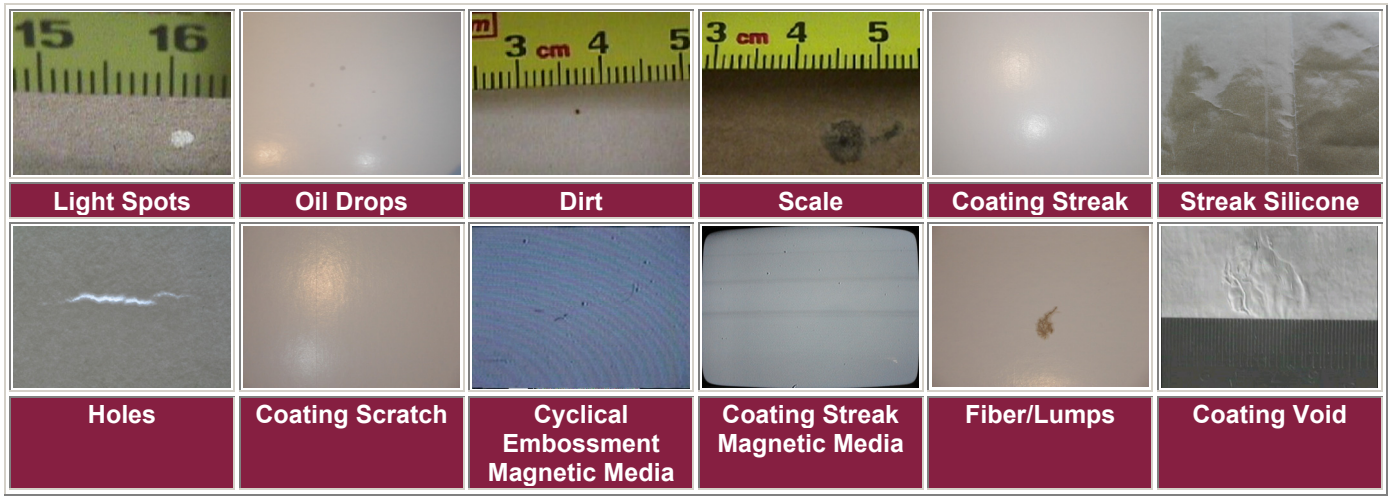
Coating defects such as skips, voids and streaks & scratches often result in excessive production costs in today's high-speed coating processes. Our systems provide production, maintenance, and managerial personnel with immediate notification of defect events, size, type (i.e., streak or scratch), location and probable cause. Information can then be utilized to quickly locate the defect and take corrective action to eliminate the fault from continuing. Our defect fault imaging technology will help to significantly reduce your company's costs for producing, sorting, and disposing of substandard coated products. Our Model 3030 OPTOMIZER® can also help to reduce costs for customer returns, repairs to sensitive production equipment, and machine downtime.





CALL RKB

Call us to discuss your hole detection requirements and to learn more about the industries most cost effective and reliable hole detector in the world.



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