

# Model 3060 OPTOMIZER® Edge Crack Inspection Technology




## Monitor Edge Defects

The Model 3060 OPTOMIZER® Edge Crack Inspection Technology makes it possible to economically add edge crack detection to existing web manufacturing equipment. The system includes two high speed CCD line scan sensors. Each sensor is mounted above an edge of the web for continuous edge monitoring. These cameras, combined with our signal processing technologies, make it possible to achieve high resolution detection of edge cracks. Depending on web speed, edge defects as small as 0.0008 sq. mm can be detected.

## Analyze the Process

Our QAMS® Quality Assurance Management System software is included with this system to provide:

- Analysis and Charting
- Footage Tracking
- Product Code Identification
- Material and Process Traceability
- Real Time and Historical Reporting
- Status and Parameter Displays
- On-Line Diagnostics

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| <b>TECHNICAL SPECIFICATIONS</b>  |   |
| <b>Defects Types Detected:</b>   | Edge Cracks   |
| <b>Minimum Detectable Defect:</b>  | To 0.0008 sq. mm  |
| <b>Maximum Web Speed:</b>  | To 10,000 ft./min.<br>(3,048 m/min.)  |
| <b>Line Scan Cameras:</b>  | Type: 1024/2048<br>Lens Focal Length: 25-50 mm<br>Field Of View (FOV): 2" (5.08 cm) Min<br>Maximum Data Rate: 10" (25.4 cm) Max<br>Pixel Resolution: Up to 40 MHz<br>59 µs (16,949 scans/sec)<br>59 µs X Web Speed<br>0.010" (0.254 mm) |
| <b>Material Color Range:</b>   | Unlimited   |
| <b>Illumination:</b>   | Sodium  |
| <b>Ambient Temperature:</b>  | 40 to 160° F (4 to 70° C)   |
| <b>Power:</b>  | 120/220/240 VAC<br>50/60 Hz<br>Single Phase   |
| Specifications are subject to change without notice.                               |   |

## Simple, Quick and Effective

Easy to set up and operate, and harmonious with logic systems and programmable controllers, the Model 3060 OPTOMIZER® Edge Crack Inspection Technology can be easily integrated on any application that calls for the detection of and analysis of pinhole type defects contained within the web material process. Modular in design, our edge crack detection technology does not require intervention, complicated setup procedures or constant tweaking.



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## Positively Mark Edge Defects

Our Model 1280 Guardian® Multicolor Edge Marking™ Technology can be combined with the Model 3060 OPTOMIZER® Edge Crack Inspection Technology to provide visible edge marks that positively identify the locations of edge cracks within each roll. These marks can be detected by on-line sensors for automatic control of subsequent processing equipment such as:

- Sheeters
- Coaters
- Supercalenders
- Extrusion Laminators
- Roto Presses
- Slitters
- Rewinders

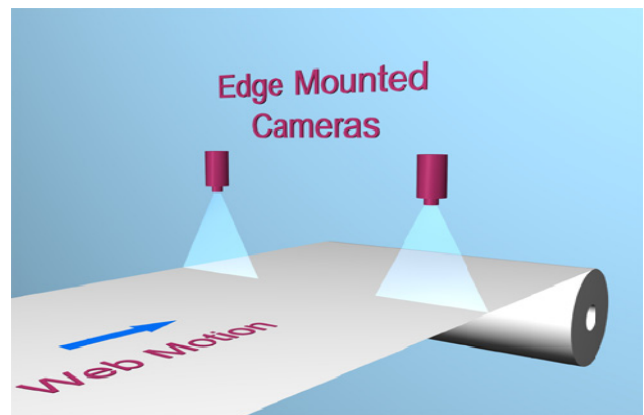
These marks can also be detected visually as concentric circles on the outside edge of the roll for manual sorting or grading operations.

## Process Diverse Materials

Our machine vision web inspection technology provides accurate, consistent, and reliable on-line inspection for a wide variety of web materials including cotton fiber bond, embossed; text; and specialty papers, de-inked recycled papers, films, gloss and matt coated offset and rotogravure papers, lightweight coated groundwood papers, magnetic media, metals and foils, plastics, textiles and rubber.

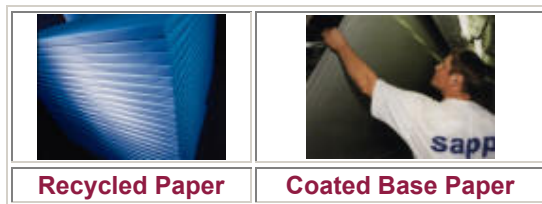
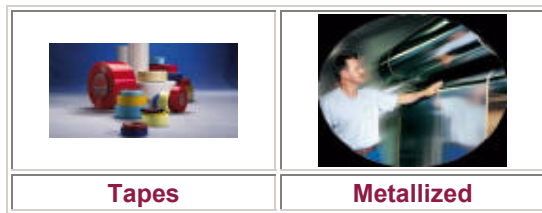
## Reliability Equals Profit

The reliability of our Model 3060 OPTOMIZER® Edge Crack Inspection Technology is unparalleled in the industry. Regardless of the application, machine or surroundings, our sensors will not quit. Our technology does not require operational intervention, adjustments, re-calibration and monitoring, unlike competitive solutions. Our technology is not designed as the "Quick Fix", but is a committed investment that ensures cost effective quality assurance and control that translates into a much higher ROI and increased profitability.



## Call RKB

Call us to discuss your applications and to learn more about the industry's most complete line of web inspection related products.



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