VisionGauge® OnLine Application Newsletter

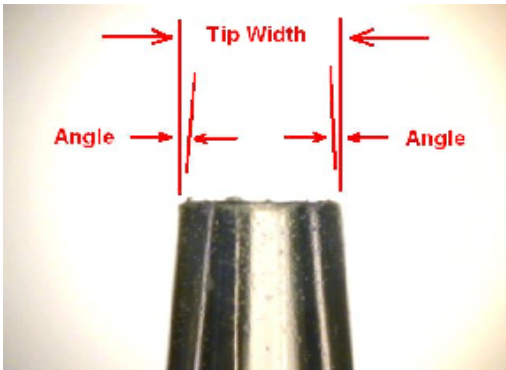Vol. 4.   December 2004

What can VisionGauge® OnLine do for you?
Read about concrete examples of applications that VisionGauge® OnLine has solved!

Real-Time Measurements of Injection Molded Plastic Parts

VisionGauge® OnLine can quickly and accurately measure critical dimensions of injection molded plastic parts. All of the measurements are carried out automatically, as the parts are being manufactured. All of the measurements are also automatically collected and statistics, including rejection rates, are computed automatically. Furthermore, VisionGauge® OnLine also stores images of 100% of the rejected parts. The images can then be inspected to try to see how trends in the process are developing.

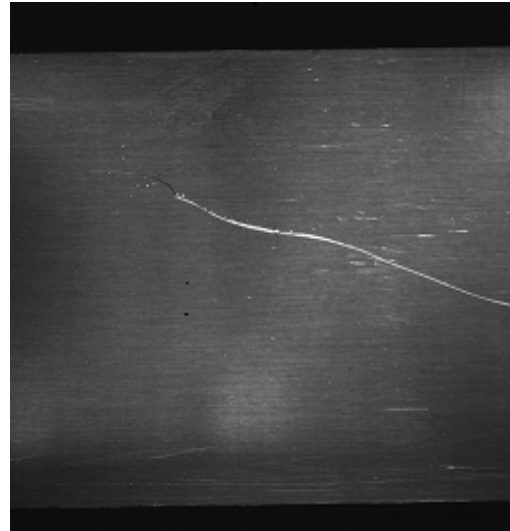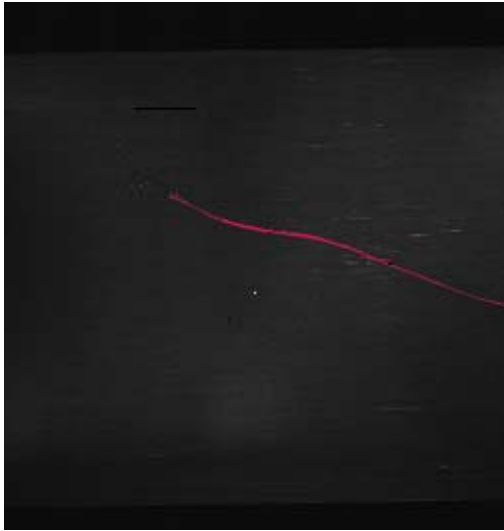## Multiple Application Requirements Solved With One Program

VisionGauge® Online recently solved an application in the packaging industry. The application involved verifying plastic bottles that are moving one by one past the camera. VisionGauge® Online's Smart Capture(tm) tool is used to grab an image when a bottle is in position in front of the camera. Then, pass/fail tests are quickly and automatically executed to determine whether the bottle cap spout is open or closed and the cap is unscrewed or not. VisionGauge® Online's Feature Based Pattern Matching tool is also used to determine the presence and position of the label. On a Fail result, VisionGauge® Online outputs signals that can be used to reject the bottle.

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Dual Camera Systems

VisionGauge® Online recently solved a defect detection and archival application for a manufacturer of plated metal strips. This custom-built turnkey system fits directly into the manufacturer's production line and uses a dual-camera approach to analyze the top and bottom of the metal strip, simultaneously, for scratches and other defects. The software controls repeatable illumination and serial port camera controls settings to produce an image without motion blur and where even the slightest defects truly stand-out. VisionGauge® Online's automated Counting and Sizing tool is flexible in letting the user determine the threshold values that define defects on the material. Once the program determines if defects are present on the

material surface, the software uses programmable Boolean logic to decide whether or not to store the image to disk. Saved images are date/time-stamped at a user-definable compression level.

VisionGauge® OnLine's Counting and Sizing Tool locates the defects (of any geometry) on the metal strip and archives the image.

The system housing fits directly into the manufacturer's production line.

Metal strips are fed through the inspection Area where dual cameras capture computer controlled illuminated images of the strip for processing.

To find out how we can solve your specific application needs, please contact us.

HAPPY HOLIDAYS FROM ALL OF US AT VISIONx Inc.

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