KINESYS Automation, inc.

Vision Inspection System

Imagined

Develop a technology capable of inspecting labels positioned on round containers while the container remains in motion on a manufacturing line.
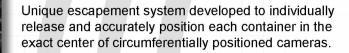
Engineered Solution

Developed flexible, proprietary algorithms and technology to capture images from any number of digital cameras positioned circumferentially around a container in motion, to yield a panoramic view of the label without perspective distortion and geometric curvature.

Developed vision system technology capable of capturing images from a series of cameras positioned circumferentially around a container in motion. The images depicting portions of the label are individually processed through proprietary algorithms designed to correct for the container's physical curvature and perspective distortion inherent in the image, resulting in images depicting portions of the label in it's flat state. The images are subsequently digitally stitched to generate a single image representing a panoramic view of the entire label as if it were presented in its flat form, depicting a true representation of the physical label as it is prior to its application to the container. Finally, the label is digitally inspected through any of various available vision systems for desired quality attributes

Unique escapement system developed to individually release and accurately position each container in the exact center of circumferentially positioned cameras.

Advanced and proprietary algorithms are applied to compensate for geometric and perspective distortion of a label positioned on a circular container.

Processing rates exceed 500 containers per minute.

Capability to interchange between wide range of container sizes.

Images can be post-processed by any vision system for:
- Physical attributes
- Label placement
- Optical Character Recognition (OCR)
- Bar code detection & recognition

Depiction of sample labels or identification of any manufacturer shall not, in any manner, be construed as an endorsement or affiliation of such manufacturer.