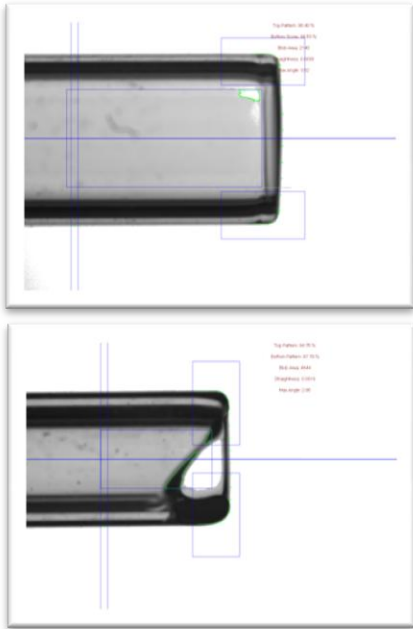


Lighting Manufacture Commissions High Speed Glass Tube Inspector



Main Objective:

The purpose of this project was to provide a means of 100% inspection of varying sized glass tubes at a high rate of speed, up to 2,400 parts per minute. The customer desired to deploy a vision inspection system that was capable of inspecting the end quality (broken ends, chips, straightness, and glazing), OD, and overall product length of 100% of the product made on the assembly equipment.

The inspection system was required to be capable of inspecting the product and rejecting a single glass tube without slowing or stopping the line production.

Customer Results:

The high speed inspection systems functioned as designed and provides a means for 100% inspection of the glass tubes. The measurement inspections of the OD and the overall length proved to be accurate to 0.001" as well as providing robust and reliable inspections for all defects associated with the glass tubes.

Overview:

- ❖ The equipment designed and provided by Outbound Technologies consists of eight (8) identical inspection systems throughout the assembly area.
- ❖ Each vision system uses two (2) cameras on each end of the tube to inspect the quality of the ends and the OD for a total of four (4) cameras. The data from all cameras are used to determine the overall length of the product during the inspections.
- ❖ The inspection system has approximately 25ms to acquire all four (4) images from the cameras, determine the inspection results, and output the pass/fail signal to the rejecting mechanism.

Every owner, manager, and key decision maker is an engineer. They have all been through the ranks and learned this business before they were given the responsibility to manage it. Diversity is also a key to our success. From a technical standpoint specific areas of expertise include: High Temperature applications, Automotive Paint Finishing, Pharmaceutical Automation, Web Handling Applications, Custom Software Solutions, and Safety. As a Systems Integrator, we are a 50/50 split between Continuous Process and Discrete Automation expertise.

Outbound Technologies Inc.

30026 Research Drive, New Hudson, MI 48165, USA

Tel: (248)-735-5000 Fax: (248)-735-5001

www.outboundtech.com

Email: MI@outboundtech.com

