

Grinding Disc Surface Inspection




Client

Our client is a specialist engineering services & solutions company servicing clients across a range of engineering segments helping improve their engineering efficiency, support their global footprint and improve their competitiveness. Leveraging technology, domain knowledge, & their robust work planning methodology to ensure an effective global delivery model for engineering services projects, they have emerged as a partner-of-choice for leading international companies and services clients across USA, Europe, Middle East, Asia-Pacific and India through their local offices.

Problem Faced

- Identification of defects on the Top and Bottom surface of the disc.
- To remove manual visualization of defects they wanted an automated solution.

Solution

- The disc was fed to the vision system conveyor(manual feeding).
 - Proximity type or through-beam laser sensor would trigger the camera & capture top & bottom surface images (2D).
 - Both the images were processed & real-time results were displayed over Qualitas custom-built GUI.
 - The defects were displayed with annotation.
 - Results (OK/NOK) from the top and bottom inspections were used to actuate the flapper & components were separated accordingly.
 - Rejected components with defects on both top & bottom surface or only on one face were to be collected in the same bin.
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Images




Results

The installed system works perfectly.

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