

Application Note: Bearing Count

IMPACT Software Suite Information:

Software Version: 8.1

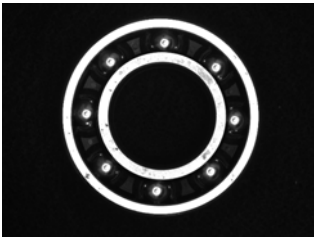
Files Included: Images VPM Program CP Program

Others:

Application:

Inspection of Automotive Bearings to ensure that the correct number of bearings are present.

Image Example(s):



Lighting Used:

A ringlight, medium sized, diffused, color red.

Lensing Used:

A standard CCTV Lens.

Tools Used:

1. Blob Analysis Tool; used to find center of part. This X, Y and Angle information is then shared with all tools below it that may need this location information.
2. Morphology Close Tool; used to merge all adjacent white areas together to make a solid white object. This tool was used to improve the bearing's appearance, and therefore count robustness.
3. Blob Analysis Tool; used to count the number of white objects of a certain size, so in this case, bearings.
4. Pass Fail Tool; used to make a global decision whether the part passed or failed, based on the current state of those Tools being monitored.
5. Discrete Output Tools; used to toggle the various Outputs On / Off to allow the machine to reject failing parts accordingly.

Other Notes: