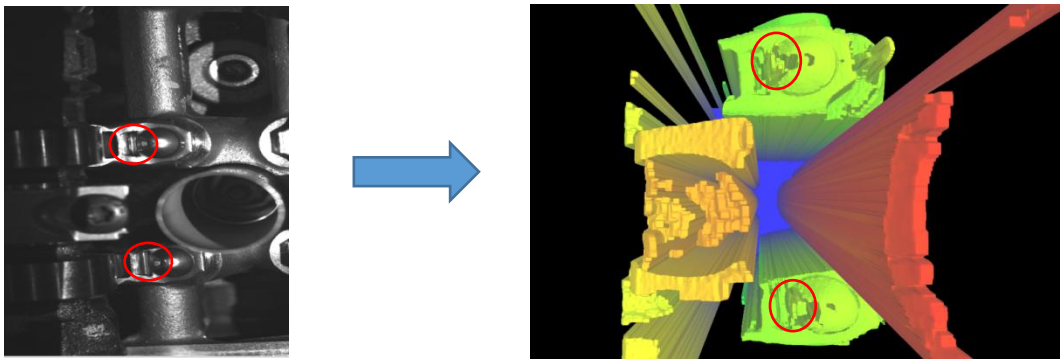
The Engine Rolling Finger Follower Solution Delivers 100% Reliable Error Proofing

Problem Statement

A roller finger follower (RFF) is a part that raises and lowers the intake and exhaust valves of an overhead cam engine. Located under the lob of the rotating cams of the engine, it serves as a direct connection between the cams and the intake and exhaust valves. Missing or off-location RFFs are a major hazard to engines as well as a challenge to manufacturers. A Coherix customer, who has been using Robust3D PPC to verify its piston pin circlip assembly, realized the power of 3D data in the manufacturing process, and requested Coherix to develop a solution for RFF verification.

Solution

Coherix Tru3D sensor, which is small and fast, enables fast in-line acquisition of 3D data of RFF assemblies. The 3D data identifies the 3D geometry of the RFFs, and detects all of the known failure modes.



Result

The Robust3D RFF turned out to be 100% reliable for RFF error proofing. It reported failures and archives one year of 3D data for future traceability.

If you would like more details about the case study, please contact Coherix at coherixinfo@coherix.com or (734) 922-4073.

Coherix, Inc.
3980 Ranchero Dr,
Ann Arbor, MI 48108

www.coherix.com
1-734-922-4073
coherixinfo@coherix.com