Virtual Chart Technology for Optical Comparators

Challenge: A manufacturer of manual and automatic systems for wire crimping sought a measurement and inspection solution that would allow it to reduce inspection time and cost through the use of the latest optical comparator technologies. Although an automated solution was preferred, the manufacturer also needed to be able to use its large inventory of traditional Mylar overlay charts for legacy parts.

The eCAD® Advantage: CCP’s optical comparators with eCAD virtual chart technology are ideal for manufacturers looking to reduce inspection time and costs through the use of CAD software, while still maintaining the option to use traditional Mylar overlay charts. eCAD virtual charts can be created directly from CAD files and projected onto the comparator screen. The eCAD coupling feature automatically moves the CAD overlay along with the comparator stage and screen image, allowing an entire part to be inspected without repositioning or restaging it.

The Result: eCAD technology successfully reduced inspection time and costs of wire crimp tooling by eliminating the need to create, install, and handle thousands of traditional overlay charts. The eCAD coupling feature allowed the manufacturer to inspect parts without restaging, reducing typical inspection times by up to 40%.

See eCAD on a CCP comparator at IMTS 2016 in Booth E-5602.

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