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SmartProfile Three-Dimensional GD&T Software Enhances Productivity for Precision Manufacturing

FOR IMMEDIATE RELEASE
KOTEM Case Study

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KOTEM, a division of Quality Vision International (QVI®), has just released its newest version of 3D GD&T analysis software, SmartProfile® 2.0. SmartProfile provides fast, accurate analysis of measured data compared to a part's CAD model using Geometric Dimensioning and Tolerancing, and can be used to confirm design intent for Shape, Form, Profile, Orientation, and Location on any rigid part.

SmartProfile works with point cloud data from any measurement system, allowing direct comparison of measurements made using differing techniques, or at different points in the manufacturing process, in one common format. Aerospace and medical device manufacturers have saved money by incorporating SmartProfile into their manufacturing/QC workflow.

SmartProfile is simple to use — just open the CAD file, identify datums/tolerances, import the point cloud, and click **Evaluate**. SmartProfile does the math in accordance with ASME and ISO GD&T standards. A color-coded chart indicates the status of each measured feature in a convenient Go/No-Go format, and displays the magnitude and direction of any variation. SmartProfile assures fully correct, complete application of GD&T tolerances, with simultaneous requirements.

SmartProfile version 2.0 features a significantly improved UI with a logical, robust interface. ASME Y14.41-2003 annotations have been added, along with third tier GD&T capability. SmartProfile can export data directly to QC-Calc, and a Scripting Wizard has been added to simplify the automation process. Due to tighter integration, SmartProfile can now take advantage of the native capabilities of Windows™ 7.

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Visit www.kotem.com to see how SmartProfile enhanced productivity at Lowell Manufacturing, an orthopedic spinal implant manufacturer in Minneapolis.

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