Visualization Quality
View quality measurement data quickly and easily across the enterprise

Summary
Every manufacturing company needs to monitor its production quality process. Visualization Quality is a tool used to graphically display, analyze and communicate production measurement data in a high-end visualization environment. It can be used to troubleshoot assembly build problems and to share quality information throughout the extended enterprise, right from the user’s desktop. Visualization Quality quickly and easily creates graphical reports that combine measurement inspection data with lightweight 3D geometry. The reports include configurable statistical process control (SPC) charts, customized views of geometry, cross sections and text markups. In addition, Visualization Quality displays extremely large assemblies with thousands of parts and geometry from multiple CAD systems.

Features and benefits
Visualization Quality is one of several interoperable tools in the Teamcenter Quality solution. It helps manufacturers to:
• Enhance current Six Sigma quality management processes
• Achieve real-time connectivity between 3D geometry and production measurement data
• Access quality data from every desktop
• Access measurement inspection data from any database or inspection equipment
• Display a variety of configurable reports and charts tied to 3D geometry including tables, control charts, histograms and box and whisker
• Display color-coded points directly on geometry
• Dynamically cross-section and markup 3D models
• Use a single interface to view geometry and production measurement data from multiple systems
• In conjunction with Visualization Publish, easily publish and maintain quality documents such as objectives sheets, measurement plans, quality reports and tolerances, on the Web or on paper
• Visually compare actual production measurement data to Visualization VSA predictive simulation data

Visualization Quality’s business value
Visualization Quality can be used throughout the entire product lifecycle and across the enterprise for viewing of quality data in a remote, paperless environment.

• Product development: Prior to committing to component/assembly tolerances in a new design, engineers can access quality data from similar parts in production to assess current capability.

• Prototype build: Engineers can quickly identify out-of-spec conditions and contributors for rapid resolution of build issues.

• Volume production: Manufacturing can monitor key dimensional quality characteristics for continuous product quality – reducing scrap, rework and warranty costs.

The Visualization Quality advantage
No other quality data viewing solution on the market allows easy interactive and configured viewing in a lightweight, CAD-neutral environment. In addition, Visualization Quality is the only such solution that links to either text-based quality data or to various quality databases.

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Using Visualization Quality

**Teamcenter Visualization Foundation:**
The CAD neutral, lightweight Teamcenter Visualization environment allows the geometry from multiple sources to be included in a Visualization Quality analysis. In addition, this enables the analysis of large models and leverages many digital mockup capabilities such as cross section, 3D clearance/markup/measure and more.

**Interactive and configured viewing:** Data can be viewed interactively for a one-time look at a particular quality data issue or configured for viewing data for a specific part/assembly on a continuous basis.

**Reporting:** Visualization Quality encompasses a wide variety of reporting capabilities coupled with the ability to seamlessly publish results via the Web using Visualization Publish.