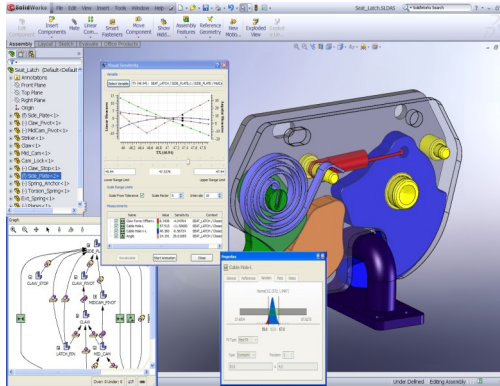


THE NEED FOR PRECISION

Delivering higher quality products in less time and at less cost requires more precise, efficient analytical tools that are more comprehensively integrated in the SolidWorks® system. Product analyses must evolve intelligently as the design matures through the PLM process. For tolerance management, this maturity evolves from conceptual functional interfaces and critical datum references, to accurate, well-defined acceptance criteria for parts, assemblies, tooling, and inspection processes.

Why CETOL 6σ?

CETOL 6σ provides product development teams with the insight required to confidently release designs to manufacturing. Precise calculation of surface sensitivities exposes the critical-to-quality dimensions in the assembly. Utilizing advanced mathematical solutions, CETOL accelerates tolerance optimization to achieve robust designs ready for manufacturing.



Key Benefits

- Accelerate product quality maturity and promote engineering best practices throughout the PLM process.
- Produce the most accurate, comprehensive, reliable answers using native SolidWorks® geometry with tolerance model verification tools.
- Improve product quality and gain design insight by understanding the true sensitivities between critical product requirements and dimensions, and critical manufacturing processes.
- Reduce modeling time and increase confidence from very simple to highly complex analyses within the same environment.
- Optimize design and manufacturing goals rapidly using fast and efficient 'what-if' analysis tools within the tolerance analysis manager.
- Assess and manage the "as manufactured" product quality using company unique or supplier capability data.
- Drive knowledge transfer and achieve maximum productivity with comprehensive tolerance model reuse.
- Easily communicate results via advanced reporting tools, interactive analysis visualization, and true sensitivity animation.

CETOL 6σ

The Need for Precision

- A Tool to Aid Manufacturing
- A Productivity Tool
- A Tolerance Analysis Tool
- A Business Impact Tool



Modeling Accuracy

Simple or complex problems require sophisticated solutions where modeling precision, analysis speed and reliable answers are a necessity. Without an easy-to-use interface, assembly analyses can take weeks to model for more complex problems with other solutions. We understand that an accurate assembly model is critical to predicating the variation of assembly requirements. Sigmatrrix' CETOL 6 σ solution provides assembly modeling automation and verification tools confirming consistent and very precise assembly behavior. The end result is faster development of higher-quality products, at a lower cost.

Easily Model Assembly Variation with CETOL 6 σ Technologies

Software Highlights

- Advanced assembly modeling and verification technologies
- Tolerance Model Advisor™
- True sensitivity animation
- Sensitivity & Worst Case Visualization
- Fully-integrated network model graph, model tree and CAD views
- Highlight Unconstrained DOFs
- Visualize Model Response
- Model templates for analysis reuse
- SolidWorks® highlights from all CETOL interfaces
- Analysis of GD&T Tolerances
- Flexible data storage—no data integrity loss
- Direct export to .html or .csv files
- Advanced reporting and interrogation tools
 - Rapid “what-if” without re-simulation
 - Interactive analysis visualization
 - Clean, organized and highly-interactive
 - Report creation wizard
 - WYSIWYG reporting

