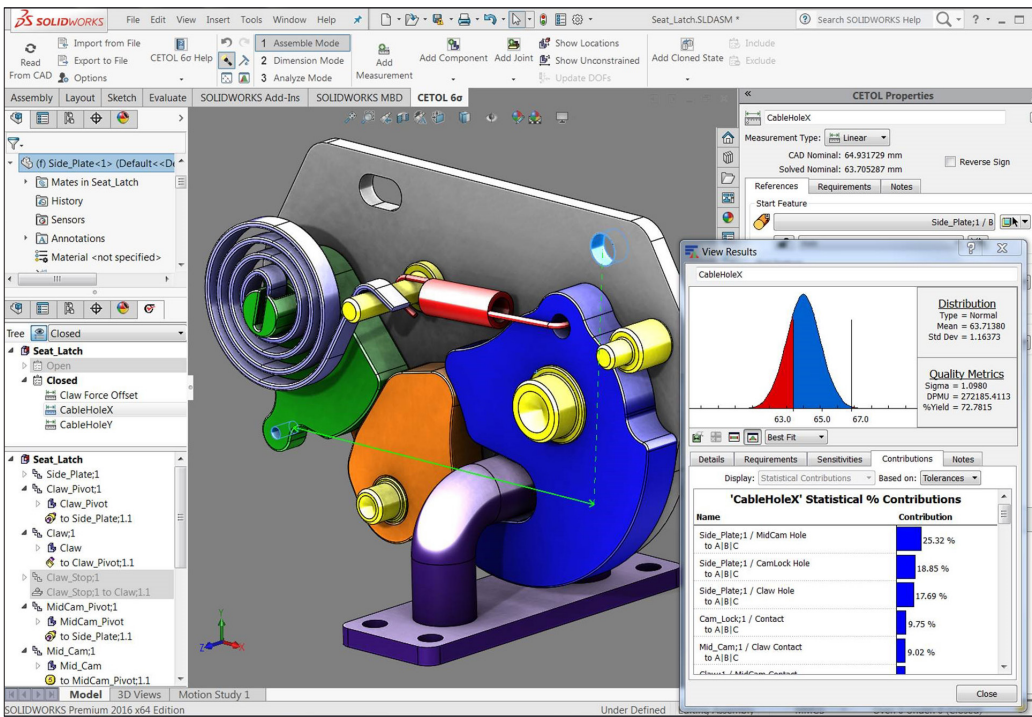


## CETOL 6σ

## TOLERANCE ANALYSIS SOFTWARE

### Why CETOL 6σ?

Delivering higher quality products in less time and at a lower cost requires more precise, efficient analytical tools that are more comprehensively integrated in the **SOLIDWORKS®** system. CETOL 6σ tolerance analysis software provides product development teams with the ability to see the impact that tolerance changes can have on their overall assembly.



### What Our Customers Are Saying:

“ I was amazed at the quality of the CETOL software! Within moments after I installed it, I was able to start creating analyses. The software is user-friendly and the support was great. This is a must-have software for engineering before manufacturing. ”

“ We found the user interface to be far superior to other programs that we considered. The ability to launch CETOL from within SOLIDWORKS is a plus. ”

### Key Benefits

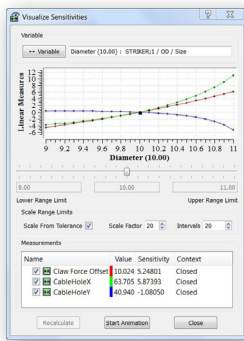
- ✔ Optimize design & manufacturing goals
- ✔ Accelerate product maturity
- ✔ Produce reliable answers
- ✔ Achieve maximum productivity
- ✔ Improve product quality
- ✔ Communicate results efficiently
- ✔ Reduce modeling time



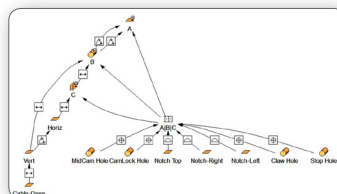
# CETOL 6σ TOLERANCE ANALYSIS SOFTWARE

## Easily Model Assembly Variation with CETOL 6σ Technologies

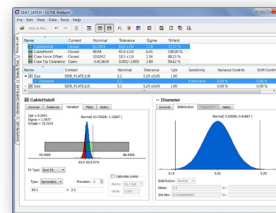
An accurate assembly model is critical whether your analysis is single or multi-dimensional. CETOL6σ was designed with this in mind, providing a simplified approach to both simple and complex designs.



Response Plots and Animation



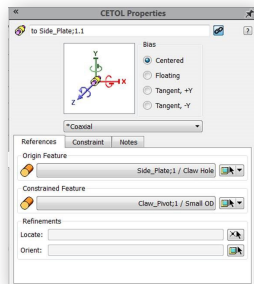
Part Dimensioning Scheme Diagram



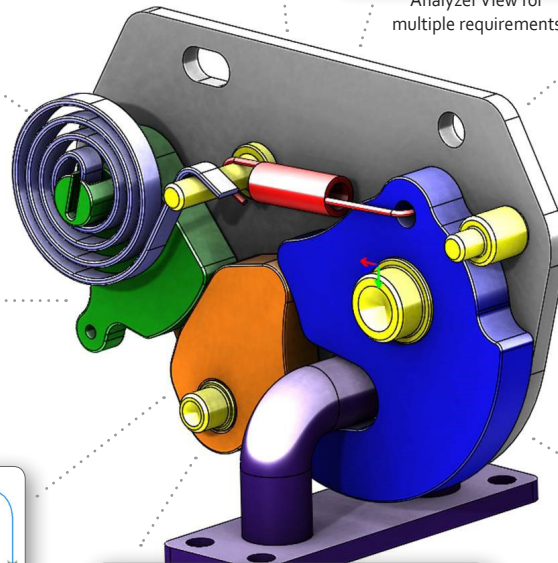
Analyzer View for multiple requirements



Customizable Reports

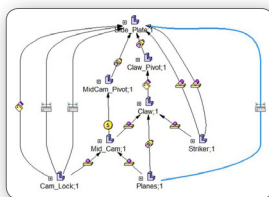


Joints (Assembly Constraints)

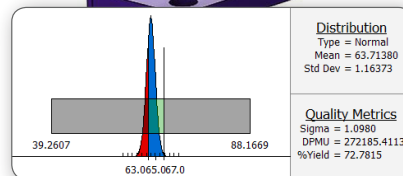


Name	Contribution
Side_Plate:1 / MidCam Hole to A/B/C	25.02%
Side_Plate:1 / CamLock Hole to A/B/C	18.85%
Side_Plate:1 / Claw Hole to A/B/C	17.69%
Cam_Lock:1 / Contact to A/B/C	9.75%
Mid_Cam:1 / Claw Contact to A/B/C	9.02%
Claw:1 / MidCam Contact to A/B/C	9.02%
Side_Plate:1 / Notch Top to A/B/C	0.14%
Striker:1 / OD Size	0.71%
Mid_Cam:1 / B Size	0.70%

Top Contributors to Variation



Assembly Constraint Diagram



Analysis Results

Name	Sensitivity
Side_Plate:1 / MidCam Hole to A/B/C / TX	-11.7103 mm/mm
MidCam_Pivot:1 / Large OD to Small OD / TX	10.9623 mm/mm
Cam_Lock:1 / Contact to A/B/C / TY	-10.6913 mm/mm
Side_Plate:1 / Claw Hole to A/B/C / TY	9.78117 mm/mm
Claw:1 / MidCam Contact to A/B/C / TY	9.64399 mm/mm
Mid_Cam:1 / Claw Contact to A/B/C / TY	9.60542 mm/mm
Claw_Pivot:1 / Large OD to Small OD / TY	9.50514 mm/mm
Side_Plate:1 / CamLock Hole to A/B/C / TY	-7.87079 mm/mm
Side_Plate:1 / CamLock Hole to A/B/C / TX	6.33926 mm/mm

Most Sensitive Sources of Variation

## Software Highlights

- Advanced assembly modeling and verification technologies
- Fully-integrated network model graph, model tree, and CAD views
- True sensitivity animation
- Sensitivity & worst case visualization
- Advanced reporting and interrogation tools
- Ability to highlight CETOL interfaces in **SOLIDWORKS®**
- Analysis of GD&T tolerances
- Highlight unconstrained DOFs
- Visualize model response to variation
- Model templates for analysis reuse
- Flexible data storage – no data integrity loss
- Direct export to .html or .csv files