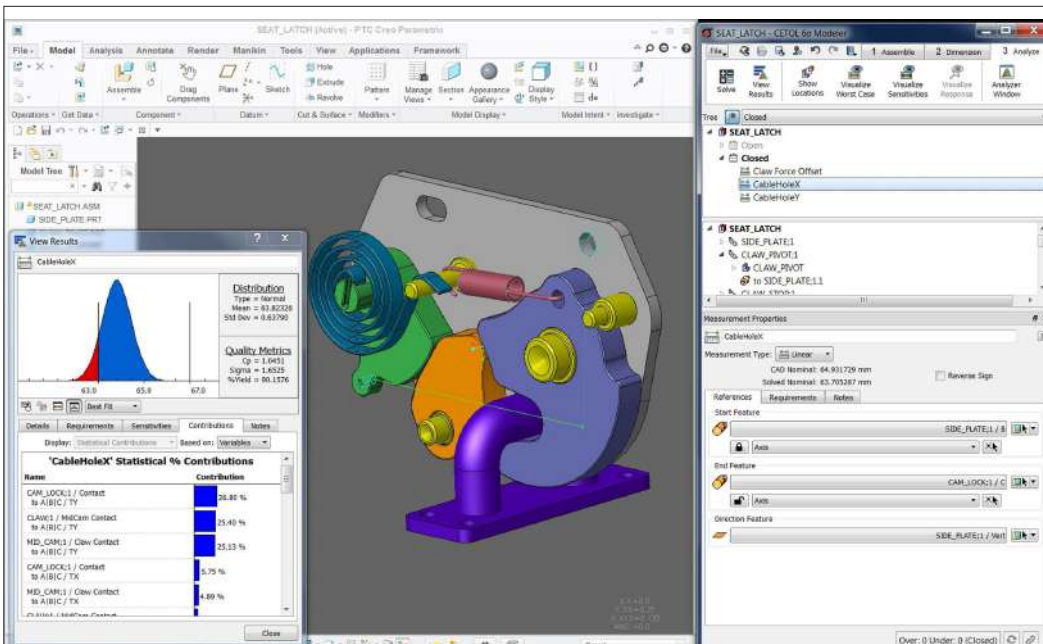


CETOL 6σ TOLERANCE ANALYSIS SOFTWARE

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 PTC® Creo® 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. ”

“ CETOL 6σ provides exceptional value before, during, and after the normal tolerance analysis process. We can identify important fits, gaps, and loops early in the process (before), perform tolerance analysis when the design is completed (during), and we can feedback actual manufacturing variation into the model (after). ”

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)

Assembly Constraint Diagram

'CableHole' Statistical % Contributions	
Name	Contribution
Side_Plate:1 / MidCam Hole to A/B/C	25.32 %
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

Analysis Results

Distribution
Type = Normal
Mean = 63.71380
Std Dev = 1.16373

Quality Metrics
Sigma = 1.0980
DFMU = 272185.4113
%Yield = 72.7815

'CableHole' Sensitivities	
Name	Sensitivity
Side_Plate:1 / MidCam Hole to A/B/C / TX	-11.7103 mm/mm
MidCam_Plate: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_Plate: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 PTC® Creo®
- 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