

3DCS Variation Analyst for PTC Creo

Tolerance Analysis fully integrated into Creo Parametric

The Most Comprehensive Tolerance Analysis Software

3DCS Variation Analyst is used by the world's leading manufacturing OEM's to reduce their costs of quality. By controlling variation and optimizing designs to account for inherent process and part variation, engineers reduce non-conformance, scrap, rework and warranty costs.

The Leading Variation Analysis Solution - The What

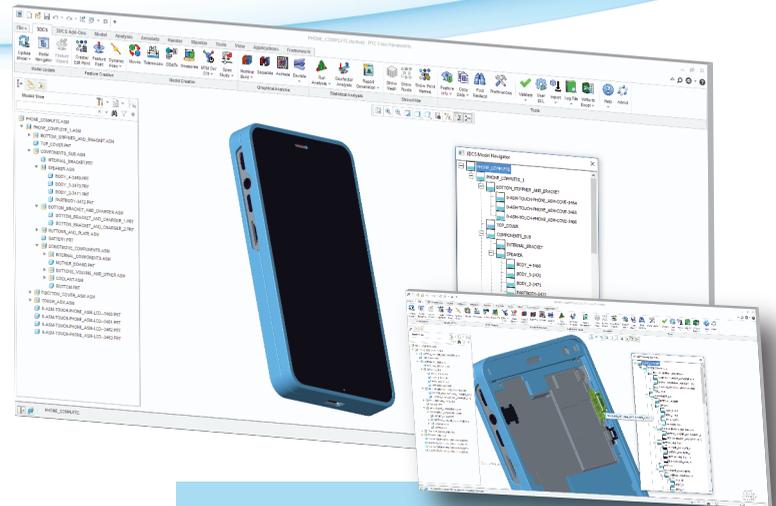
3DCS Variation Analyst for Creo is an integrated solution for PTC Creo. This gives users the ability to activate 3DCS workbenches from within Creo, as well as use many of Creo's innate functionality to support their modeling.

Model Part and Process Variation - The How

Using three methods of simulation, the software highlights the sources of variation, as well as the potential build issues of the product. By accurately modeling the build process, the user can accurately simulate the product in a virtual environment, essentially creating digital prototypes to test and validate design objectives.

Gain New Insight Into Your Design - The Why

By simulating products in a digital environment, engineers are able to account for variation in key areas, reducing rework, non-conformance and scrap at final assembly. In addition to this, specifications deemed less critical can be relaxed, increasing tolerances and allowing the use of less expensive manufacturing processes and thus reducing costs without affecting overall quality. 3DCS software has automatic report generation for fast, effective communication of analysis results, and easy collaboration with peers and managers.



Key Product Highlights:

Three Analysis Methods -

Monte Carlo Analysis, High-Low-Mean (Sensitivity Analysis) and GeoFactor Analysis (Equation Based)

What-If Studies -

Test design changes using simulation to reduce the need for prototypes.

Identify the Source of Variation -

Find the true source of your problem to root cause build issues and non-conformance.

Apply Plant and Measurement Data -

Incorporate physical or actual measurements to validate products and trouble shoot production.

Account for Processes and Tooling -

Model assembly process, tooling, fixtures, clamping, Datums, Locators and account for their added variation.

Customize Your Setup -

Use Add-on modules to quickly upgrade your system to utilize FEA Finite Element Analysis, Mechanical Kinematic Assemblies and more.

Validate and Optimize PMI & GD&T -

Move from general tolerances to more specific tolerances that reflect your processes and manufacturing capability.

