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PTC® Creo® View Design Check™

Verify and Track 3D Model Design Intent

PTC Creo View Design Check is an interactive visualization tool that enhances and speeds the Design Checking function, a critical step in every Model-Based, Design-oriented product development process.

Model-Based Design (MBD) is a product development methodology that is revolutionizing the way companies design and manufacture their products. By eliminating 2D drawings, the MBD process can drive down development costs, reduce product development cycle times, and improve product quality.

By replacing the traditional, difficult-to-manage pen and paper method for checking 2D drawings with a robust solution based around the 3D model, PTC Creo View Design Check provides a highly effective communications medium between Engineering, Manufacturing, and other downstream contributors.

Benefits

Accelerate Design Cycles

By working with the industry's only 3D MBD checking solution, you ensure that the review, markup, and tracking processes remain electronic, which shortens the entire review process and ultimately accelerates your design cycles.

Improve Design Check Accuracy

By enabling reviews on the 3D master model, design checkers can easily ensure that critical Geometric Dimensioning and Tolerancing (GD&T) is present and consistent, and that it meets standards. Additionally, the tool automatically maintains the design check history of all review cycles.
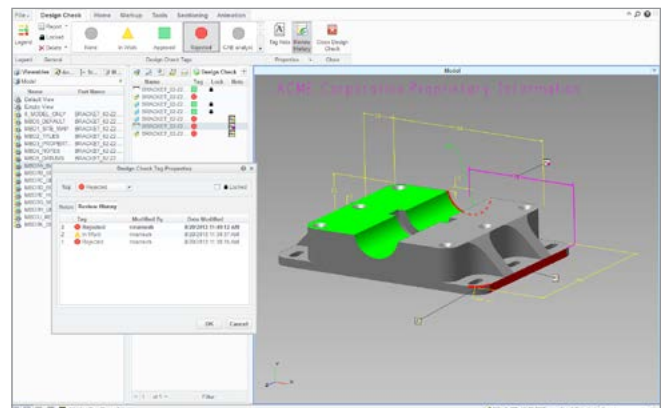
Reduce Non-Conformance

With an all-digital design check process based around the 3D model, you can eliminate traditional non-conformances and inaccuracies of separate 2D drawings. Additionally, designs and review history are automatically controlled and preserved.

Improve the Process

By leveraging a single 3D master model, you can eliminate separate 2D drawings, which streamlines data management and communications.

Eliminate Barriers for Model-Based Design Adoption

By providing easy access to MBD's for review and markup, you can expand the use of MBD within your design environment.

With Creo View Design Check, your model checking, review, markup and tracking processes remain electronic, which shortens the entire review process.

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Features

- Verify the annotated 3D model for critical dimensions and tolerances

- Enables methodical sequential working through the model annotations

- Graphical 3D design checking views

- Easy access to Combination states from CREP Parametric and Capture states from CATIA® V5

- Completely configurable "marker" colors and states (approved, rejected, etc.)

- "Lock" objects to prevent inadvertent changes

- Intuitive indication of the checked design through color and notes

- Review the marking history to identify "who" said what, and "when" it was said

- Manage design check reviews in PTC Windchill®

- Automatically copy forward the dispositions as the design iterates

- Generate detailed reports of the design checking history of "who" said "what" and "when" it was said

Automated, Digital Design Checking

PTC Creo View Design Check is an optional module for PTC Creo View MCAD™. This powerful tool can facilitate the rapid verification of the design intent – captured in the 3D model through the marking of Product Manufacturing Information (PMI) – by one or several design checkers. Thus, it gives you the ability to approve, reject, or question specific design elements – all by using the real-time 3D model as the 'single source of truth' of the product. Throughout the process, the entire marking history is tracked and maintained with the ability to generate design check reports.

Verify the Design Intent Captured in the 3D Model

PTC Creo View Design Check also enables you to capture and convert 3D MBD data into viewable files for one or several design check roles within the organization, including inspection, manufacturing, engineering procurement, and even external suppliers. Design checkers can review, interrogate, and markup the MBD data directly in the digital file. All markup and cycles are electronically managed and archived to maintain the review history.

Platform Specifications

- Microsoft® Windows®, Solaris/AMD, Linux

- Languages: English, Japanese, French, German,

Italian, Spanish, Chinese (Simplified & Traditional),Korean, Russian

For the most up-to-date platform support information,please visit: PTC.com/partners/hardware/current/support.htm

For more information about the entire family of Creo View products, visit: PTC.com/product/creo/visualize

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