

# ProductView™ Realizer

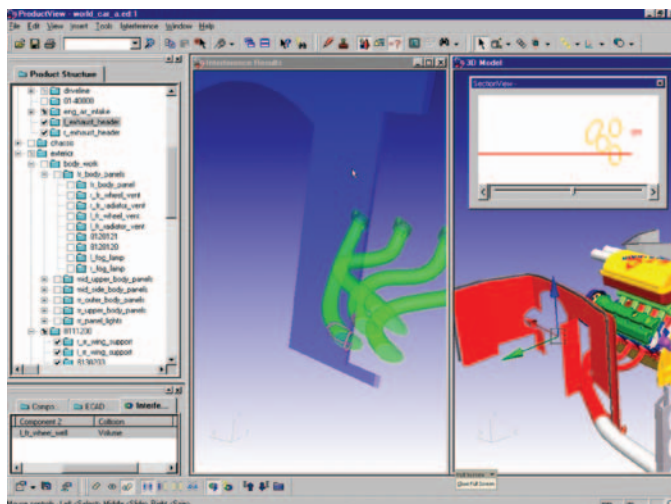
## Digital Mockups for the Enterprise

ProductView Realizer enables engineers to evaluate and analyze the motion of a product using real-time interference detection, interactive animations, and constrained motion simulations—all without utilizing CAD applications. The result: faster time-to-market, decreased rework, lower costs, and increased quality in product design.

ProductView Realizer is an optional module for ProductView Standard that assists in digital mockup studies of heterogeneous MCAD datasets. Its powerful, yet easy-to-use, tools improve confidence in the overall product design by creating high-impact content that allows engineers and management—across the enterprise—to easily understand the assembled product's movement and operation.

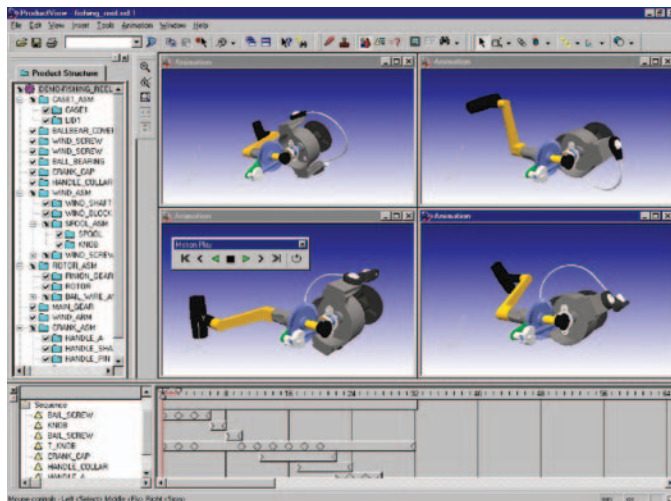
### Key Benefits

- Quickly validate product design via simulation and interference checking
- Increase product quality, and lower overall design time, by discovering issues early in the product lifecycle
- Reduce the time and cost associated with creating physical prototypes
- Decrease rework by providing early, interactive views of product operation, assembly, and maintenance procedures
- Lower overhead costs by viewing and analyzing product designs without utilizing CAD licenses
- Increase manufacturing quality by providing animated assembly and disassembly instructions, enabling operators to clearly understand proper procedures



### Validate designs using dynamic, informative interference checking

Detect and report on interferences between components of an assembly.



### An intuitive animation tool displays functional product simulations

Create animated sequences and multiple viewing options to simulate the proposed product's functional details, including assembly/disassembly sequences.

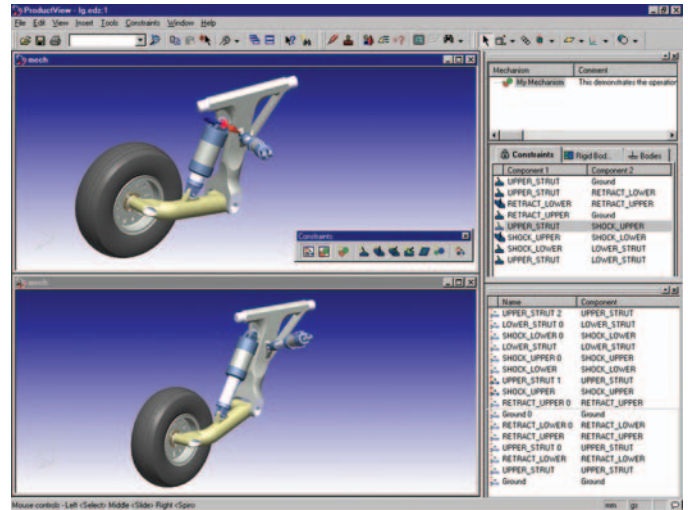
## Features

Real-time, interactive interference checking: Visualize and report on potential interferences, for rapid understanding of problems and their cause

- Display interference in context of the overall design
- Conduct clash tests between groups of parts (e.g., HVAC vs. electrical)
- Manage large-scale interference checking
- Apply multiple types of interference checking: simply touch, 'intersect' or 'all interferences'
- Perform static interference queries
- Enable dynamic collision detection
- Visualize real-time slices of the product to better understand the interference
- Automatically compute and display the surface of the interference volume
- Interrogate the results of the interference query
- Analyze and store interference results

Create functional product simulations: Unlock dynamic design information using intuitive, easy-to-use sequencer capabilities

- Animate mechanical parts and assemblies
- Control part visibility and color properties
- Perform interference checks during animation
- Import Pro/ENGINEER® animations to utilize previously built simulations
- Output to industry standard movie formats (MPEG or AVI)
- Make view and interactive animations available to all ProductView Standard users, even those without the ProductView Realizer module
- Deploy 'lightweight' versions of the animation, including simple UI playback controls, to non-ProductView users



Easily create mechanisms with the simple, streamlined user interface

Broad set of Kinematic and Mechanism capabilities: Create and deploy realistic digital mockups with Kinematic constraints

- Simulate motion properties of mechanical components
- Support a full range of constraint types, including prismatic, revolute, planar, and gear
- Create fully interactive kinematics
- Compute the motion envelope of moving parts or assemblies for space claim studies

### Learn More

For more information regarding ProductView Realizer and other PTC solutions, please visit [www.ptc.com](http://www.ptc.com).