



SIMULATION STANDARD

Simulation Standard helps engineers know if their product will perform properly and how long it will last.

Ease of Use/Intuitiveness

- Fully Embedded in SOLIDWORKS 3D CAD
- Help Documentation
- Knowledge Base

Trend Tracker

- Detect trends in results from different iterations of a static study.

Finite Element Analysis

- Solid, Shell and Beam modeling
- h and p adaptive element type
- Mesh control capabilities

Time Based Motion Analysis

- Visualise your product moving as it would in the real world.
- Measure the forces and loads on your design.
- Calculate the effect of Forces, Springs, Dampers ,Gravity, Contact between components, Bushings.

Fatigue Simulation

- Analyse the life expectancy of structure under repeated loading
- Theory of Cumulative Damage

SIMULATION PROFESSIONAL

With tight integration and a consistent user interface across SOLIDWORKS solutions, you can use the powerful capabilities of SOLIDWORKS Simulation Professional early in the design process to maximize product quality and reduce costs.

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Advanced Contacts & Connectors

- Thermal contact resistance condition
- Insulated condition
- Edge and spot weld connector

Frequency Simulation

- Analyse the natural frequencies and mode shape of parts and assemblies
- Import Flow/Thermal Effects
- Load Stiffening

Buckling or Collapse Simulation

- Analyse slender structure for critical buckling factors and the associated buckling mode shapes
- Import Flow/Thermal Effects

Drop Test Simulation

- Analyse the effect of the impact of a part or an assembly on a target surface
- Inputs: drop height, gravity, velocity at impact
- Outputs: stress, displacement, and strains

Event Based Motion Analysis

- Validate sequencing of design to ensure correct operation.
- Solve either kinematic or dynamic rigid body motion problems.

SIMULATION PREMIUM

SOLIDWORKS Simulation Premium adds to the capabilities of SOLIDWORKS Simulation Professional to provide valuable insights to improve product reliability in the most cost effective manner, no matter the material or use environment.

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Non Linear Simulation

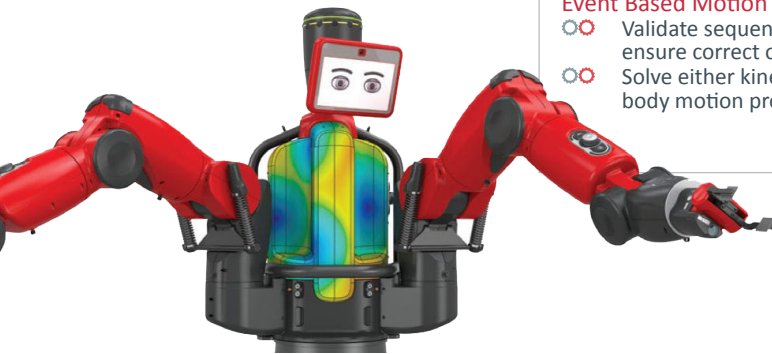
- Transient (time dependent) loads
- Large component deformation
- Nonlinear materials

Dynamic Simulation

- Modal Time History Analysis
- Harmonic Analysis
- Estimate component life based on dynamic loading

Composites Analysis

- Investigate the application and performance of composite materials to design.
- Analyse strength, weight and life of products made of composites.



Please contact New Technology CADCAM if you have any further questions on the above information.

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