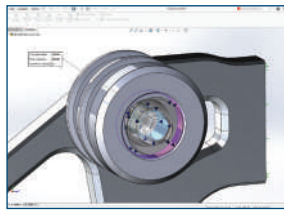


WHAT'S NEW IN SOLIDWORKS® 2024–SIMULATION

SOLIDWORKS Simulation

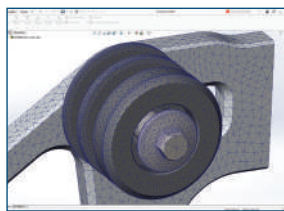


1 Enhanced Bearing Connector

- Easily create custom bearing connectors by specifying stiffness in compression, tension, and bending.
- Improve simulation accuracy by adding custom compliance to nonlinear and large displacement studies.

Benefits

Achieve easier, more accurate setups with faster simulations by using powerful connectors.

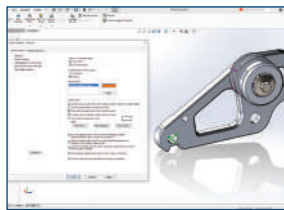


2 Mesh Performance Improvements

- Experience an accelerated, blended, curvature-based mesh process for parts and assemblies with identical bodies.
- Use the improved mesh algorithm to identify duplicate bodies and parts, and reuse the same mesh.

Benefits

Save time with a more robust and efficient mesh process.

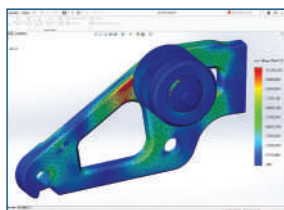


3 Save Model on Solve Completion

- Enforce saving your model file after meshing and after the analysis completes.
- Prevent the loss of data in case of unexpected system crashes or power outages.

Benefits

Protect valuable data from unexpected outages.

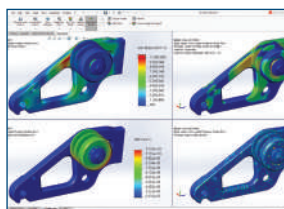


4 Excluding Mesh and Results When Copying Study

- Save time when creating duplicate studies by excluding the mesh and the results data.
- Set up multiple load case or contact what-if scenarios faster and more efficiently.

Benefits

Set up multiple simulation scenarios more efficiently.



5 Accuracy and Performance Enhancements

- Apply new, more accurate methods for remote displacement and rotation to large faces with the distributed connection.
- Run larger linear dynamic and p-adaptive studies faster.
- Solve studies with large surface-to-surface bonded interaction sets with better memory management.

Benefits

Perform more accurate simulation studies and solve faster.

SOLIDWORKS Plastics



6 Enhanced Batch Manager

- Set up and execute multiple batch jobs with the streamlined Plastics Batch Manager.
- Optimize performance by allocating the maximum number of CPUs available for each batch job.

Benefits

Set up and execute batch jobs more efficiently.

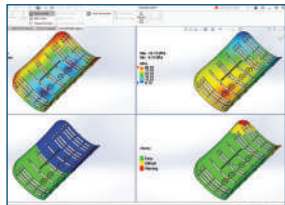


7 Hot and Cold Runner Domains

- Access dedicated hot and cold runner domain configurations under the Domains node.
- Easily assign hot or cold runner domains to components of your model.

Benefits

Easily assign hot or cold runner domains to model components.

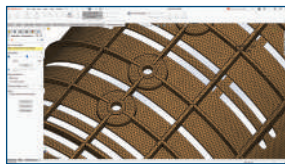


8 Compare Results (New)

- Display and compare four different results plots from one study using split-view panes.
- Save an image of the split view with multiple results plots to easily communicate results with team members and clients.

Benefits

View and compare multiple plastics simulation results more efficiently.

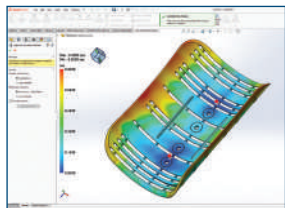


9 Meshing Save Option (New)

- Save the mesh settings of a study without creating the mesh.
- Preview the surface mesh to confirm its adequacy before creating the solid mesh.

Benefits

Save time when using saved mesh settings.



10 Enhanced Injection Location Advisor

- Determine the target number (up to 10) of injection locations required to successfully fill your model with the enhanced Injection Location Advisor.
- Obtain injection location recommendations for up to 10 gate locations.
- Preview the fill pattern to gain early insight into your simulation.

Benefits

Save time by streamlining the distribution of injection locations.

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating virtual twin experiences of the real world with our 3DEXPERIENCE platform and applications, our customers can redefine the creation, production, and life-cycle-management processes of their offer and thus have a meaningful impact to make the world more sustainable. The beauty of the Experience Economy is that it is a human-centered economy for the benefit of all—consumers, patients, and citizens. Dassault Systèmes brings value to more than 300,000 customers of all sizes, in all industries, in more than 150 countries. For more information, visit www.3ds.com.



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