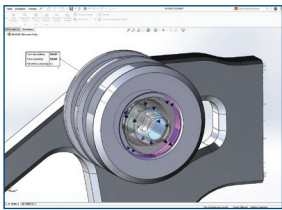


# WHAT'S NEW IN SOLIDWORKS® 2024–SIMULATION

## SOLIDWORKS Simulation

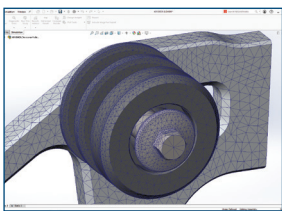


### 1 Enhanced Bearing Connector

- 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.

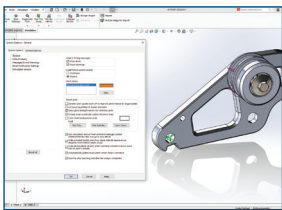


### 2 Mesh Performance Improvements

- 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.

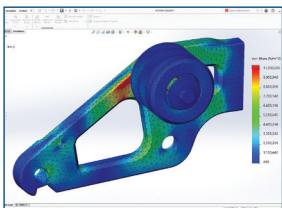


### 3 Save Model on Solve Completion

- 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.

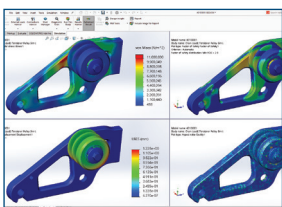


### 4 Excluding Mesh and Results When Copying Study

- 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.



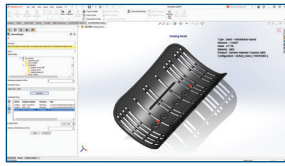
### 5 Accuracy and Performance Enhancements

- 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

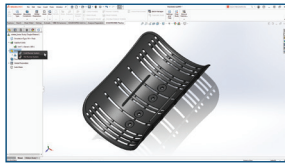


## 6 Enhanced Batch Manager

- 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.

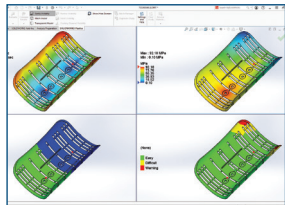


## 7 Hot and Cold Runner Domains

- 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.

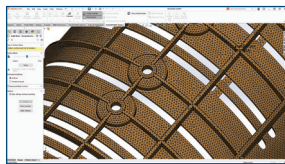


## 8 Compare Results (New)

- 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.

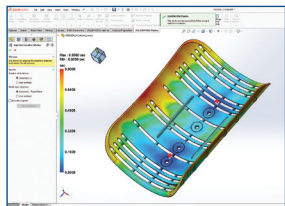


## 9 Meshing Save Option (New)

- 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.

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