

# WHAT'S NEW IN SOLIDWORKS® 2025—SIMULATION

## SOLIDWORKS Simulation

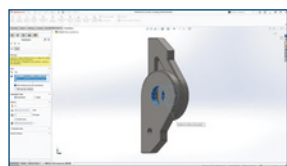


### 1 General Spring Connector

- Easily create custom spring connectors between surfaces by defining axial only, isotropic, or orthotropic springs.
- Improve simulation performance and accuracy by adding custom compliance.

#### Benefits

Achieve easier, more realistic simulation setups with the new spring connector capabilities.



### 2 Enhanced Pin Connector

- Improve the solution performance of all studies when using the distributed Connection Type for pin connectors.

#### Benefits

Increase the accuracy of simulation studies using the improved pin connector.

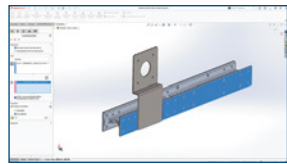


### 3 Enhanced Handling of Large Models

- Accelerate study setup times with the new UI option to exclude everything except selected bodies.
- Concentrate on what is important by removing parts or bodies excluded from the simulation study.

#### Benefits

Easily set up large models and select boundary conditions with a clean display.

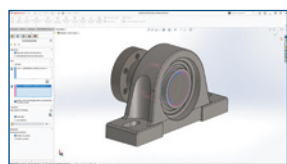


### 4 Enhanced Node-to-Surface Bonded Interactions With Offset

- Avoid gaps between surfaces in Mid Surface mesh studies.
- Experience enhanced offset bonded interaction to improve contact results accuracy for linear static, linear dynamic, frequency, buckling, fatigue, design scenario, and pressure vessel studies.

#### Benefits

Perform more accurate simulation studies and solve faster.

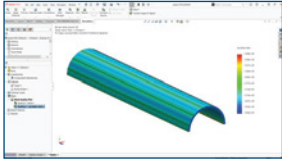


### 5 Enhanced Surface-to-Surface Bonded Interactions

- Improve the accuracy and performance of cylindrical, spherical, and conical surfaces for all linear studies with enhanced surface-to-surface bonding.

#### Benefits

Enjoy improved usability without sacrificing accuracy.



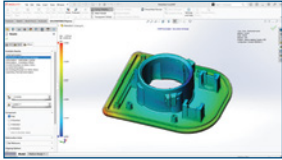
## 6 Mesh Performance Improvements

- Enjoy enhanced meshing performance in studies with numerous identical parts featuring curved surfaces, using a high-quality mesh.

### Benefits

Speed up the meshing of large assemblies that contain repeated parts.

## SOLIDWORKS Plastics

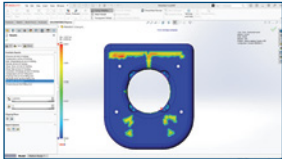


## 7 Isolate Cause of Plastic Parts Warpage

- Assist users in their plastic parts warpage results evaluation by breaking down the overall displacement into its three source terms: unbalanced cooling, orientation, and non-uniform shrinkage.

### Benefits

Easily identify the cause of warpage to guide the design and the injection process.



## 8 Enhanced Sink Mark Prediction

- Replace the current sink mark solver with the new solver to improve accuracy.

### Benefits

Gain higher sink mark accuracy with the improved solver.

## SOLIDWORKS Flow Simulation

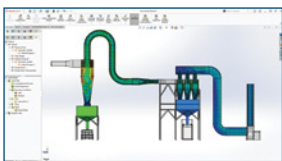


## 9 Flow Simulation GUI Improvements

- Experience improved GUI responsiveness and speed for models with many parts.

### Benefits

Save time when using large models.



## 10 Flow Simulation Performance Improvements

- Speed up meshing for faceted/tessellated geometries including imported STL files.

### Benefits

Save time when using imported geometries as STL files.

to learn more about SOLIDWORKS,  
visit [www.metrosystems-des.com/solidworks](http://www.metrosystems-des.com/solidworks) or email [sales-des@metrosystems.co.th](mailto:sales-des@metrosystems.co.th)



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