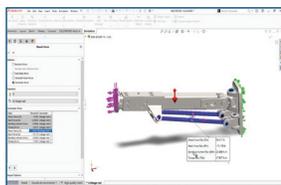


WHAT'S NEW IN SOLIDWORKS® 2022— SIMULATION

SOLIDWORKS Simulation

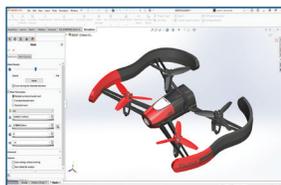


1 New Linkage Rod Connector

- Easily create this new Linkage Rod connector by selecting cylindrical faces, circular edges, and vertices without the need for geometry alterations.
- Use a variety of joints, cross-sections, and materials.

Benefits

Use powerful connectors for easier setup and faster simulation.

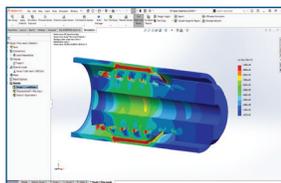


2 Blended Curvature-Based Mesh Is Now the Default

- Successfully mesh bodies which didn't mesh before with the enhanced Blended Curvature-Based Mesh.
- Specify mesh controls on bodies outside the global range to reduce mesh size and expedite solution time.

Benefits

Save time with a more robust and efficient mesh.

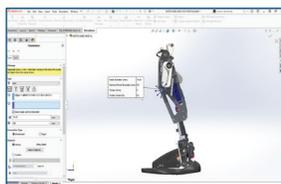


3 Enhanced Bonding and Contact

- Reduce the number of constraints to boost performance and accuracy for bonding and contact.
- Validate models significantly faster with the iterative solver.

Benefits

Solve models with bonding and contact considerably faster.

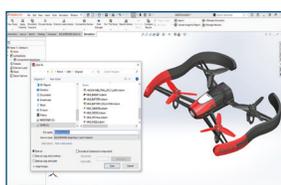


4 Parallel Processing Extended to Most Features

- Expedite solution time with function-based stiffness data communication replacing file-based processing.
- Take advantage of extending parallel processing speedup with the iterative solver to all connectors and most features.

Benefits

Solve models much faster with parallel processing improvements.

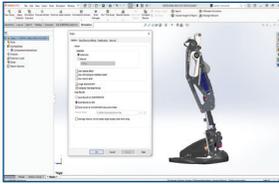


5 Faster Save

- Reduce the time required to save SOLIDWORKS models when they have simulation studies.
- Observe considerably faster saving time if at least one simulation study has not been modified.

Benefits

Save simulation studies significantly faster.



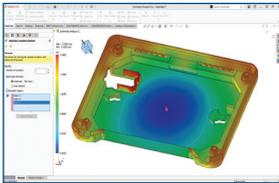
6 Automatic Equation Solver Selection Extended to Nonlinear, Frequency, and Buckling Analysis

- Improve solution speed and memory usage considerably with the more accurate auto-selection of equation solver.
- Select the best solver automatically, based on the number of equations, mesh type, geometric features, contact, connectors, available memory, and more.

Benefits

Reduce solution time with built-in intelligence for solver selection.

SOLIDWORKS Plastics

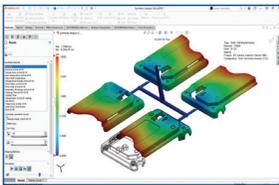


7 Injection Location Adviser

- Obtain recommendations for up to four suitable injection locations as well as a preview of how the part will fill.

Benefits

Get optimal simulation results with the first simulation.



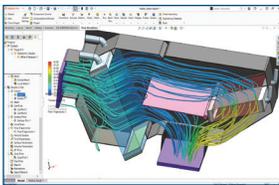
8 Cyclic and Symmetric Cavity and Runner Layouts

- Create dedicated boundary conditions for cyclic and symmetric cavity and runner layouts.
- Preview the cavity and runner layouts during the modeling stage to confirm their design specifications.
- Simulate complex mold layouts by using reduced model size.

Benefits

Save time when computing complex mold layouts.

SOLIDWORKS Flow Simulation

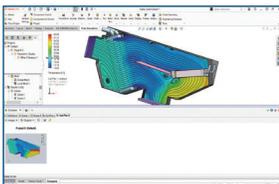


9 Scene Plot

- Store all your displayed plots, model orientation, zoom, and part visibility within the scene plot.
- Switch between scenes to display the plots saved in the scene and set the corresponding model display, zoom, and orientation.

Benefits

Save time when reloading results with improved post-results workflow.



10 Compare Merged Plots

- Merge compared plots from different projects into a single image to see critical results at a glance.
- Merge contour plots made for different design cases or power modes.
- Clearly see the difference between cases graphically displayed in the plot for improved post-results comparison.

Benefits

Locate critical results faster and more easily.

Our 3DEXPERIENCE® platform powers our brand applications, serving 11 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 experience twins' of the real world with our 3DEXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.



3DEXPERIENCE®