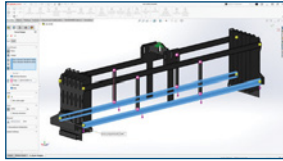# DS SOLIDWORKS

3DEXPERIENCE

WHAT'S NEW IN SOLIDWORKS® 2026–SIMULATION
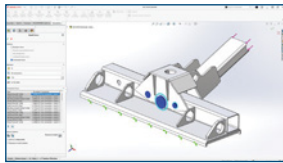
SOLIDWORKS Simulation

1 Force Options for Beams

- Choose between Per Item and Total definitions when applying force to beam elements.
- Gain more precise control in structural simulations.

Benefits

Improve modeling efficiency with greater flexibility in load definition.
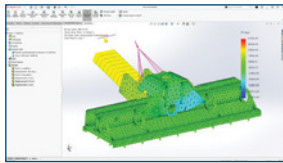
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2 Pin Connector Force Results in Random Vibration

- Extract detailed Pin Connector forces in random vibration simulations.
- Obtain full-force breakdown, including shear force, axial force, bending moment, and torque.

Benefits

Improve design accuracy and streamline analysis of pinned joints in vibration environments.
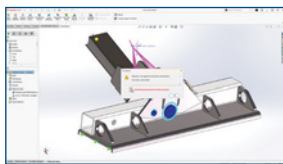
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3 Angular Displacement Plot Options

- Plot angular rotation results in either degrees or radians, offering greater flexibility in how displacement data is displayed and interpreted.

Benefits

Choose the angle measurement unit to align with your engineering standards and project requirements.

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4 Validity Check Improvements

- Improve simulation reliability with clearer alerts for missing materials, invalid mesh controls, and incomplete fixture definitions.
- Accelerate issue resolution with one-click deselection for reports, quicker access to stress diagnostics, and streamlined validation messages.

Benefits

Boost simulation accuracy and speed by resolving setup issues with clearer, faster diagnostics.
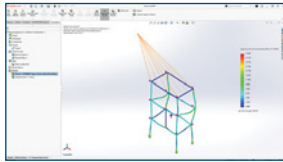
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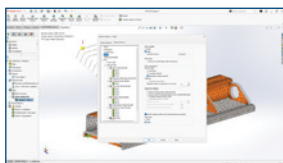
5 Shell Improvements

- Save time on setup by setting global defaults for thick or thin shell definitions.
- Specify distributed remote loads/mass on shell edges.

Benefits

Streamline setup and enhance modeling accuracy for complex shell structures.
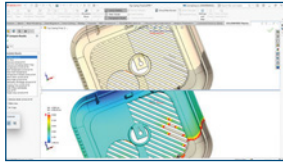
DS DASSAULT SYSTEMES

6 Remote Mass in Response Spectrum

- Apply remote masses as part of response spectrum analysis.
- Capture the effect of components not included in the mesh by applying their mass externally to the structure.

Benefits

Optimize simulation setup by using remote masses in place of physical components.
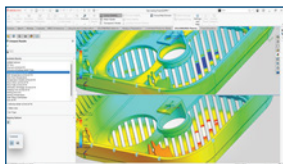
SOLIDWORKS Plastics

7 Post-Processing Enhancements

- View the new Unfilled Volume plot added in Fill simulation results alongside short-shot predictions.
- Easily identify areas that remain unfilled due to incomplete material injection.

Benefits

Identify incomplete material injection zones alongside short-shot predictions.
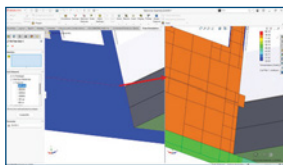

8 Edge-Based Air Vent Definition

- Define Air Vent boundary conditions directly on model edges for realistic venting analysis.
- Apply vents to both Cavity and Cold Runner System domains to better reflect mold behavior.

Benefits

Improve simulation realism by defining Air Vent boundary conditions directly
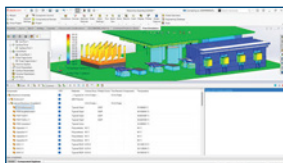
SOLIDWORKS Flow Simulation

9 Fill Thin Slot Feature

- Fill thin gaps automatically with specified materials for more realistic thermal modeling.
- Simulate real-world assemblies accurately by applying user defined thickness thresholds.

Benefits

Capture heat transfer paths more precisely, especially in tightly packed or glued components.

10 Component Explorer: New Columns

- View a summary of all component temperatures and surface sources directly within the Component Explorer.
- Enable faster thermal assessment at a glance.

Benefits

Identify overheating components or imbalanced heat sources more efficiently.

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