



# WHAT'S NEW IN SOLIDWORKS® 2022—3D CAD



### Assembly Performance and Workflow

- Save time when opening, closing, and saving assemblies with improved performance for these functions.
- Open subassemblies faster using Large Design Review mode. From your assembly in Large Design Review mode, open subassemblies in Large Design Review mode or resolved mode.

#### **Benefits**

Work faster with large assemblies through expanded workflows and improved performance.



#### Expanded Use of Detailing Mode

- Access Detailing mode for all drawings, regardless of the SOLIDWORKS version you saved them in or whether you saved them in Detailing mode.
- Open a drawing in Detailing mode directly from an assembly in Large Design Review mode.

#### **Benefits**

Save time when opening and detailing a SOLIDWORKS drawing.

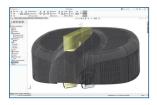


## More Efficient Geometric Dimensioning and Tolerancing

- Work directly in the graphics area guided by the user interface in building feature control frames cell by cell.
- Create tolerance frames per ISO 1101:2017 and the associated standards of ISO 2692, ISO 5458, ISO 5459, and ISO 8015.

#### **Benefits**

Work faster and more intuitively when tolerancing your designs.



#### Hybrid Modeling

- Create a hybrid solid or surface body that includes mesh BREP geometry and classic BREP geometry.
- Combine the advantages of mesh data with the accuracy and parametric features available in solid modeling.

#### **Benefits**

Save time when working with mesh geometry by using hybrid modeling.



#### Part Modeling Enhancements

- Easily create external threaded stud features using the Stud Wizard.
- Create draft on both sides of parting lines at the same time.
- Mirror geometry about two planes at once instead of mirroring twice.
- Create cosmetic threads more easily with an improved user interface and a more realistic appearance.

#### **Benefits**

Create part geometry faster and more easily.

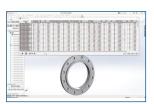


#### **Cut List Support in BOM Tables**

- Save time and create detailed cut lists in bill of materials (BOM) tables exactly the way you want them to appear by dissolving components in indented BOMs automatically or manually.
- Create balloons for subweldment cut list items in BOMs in which balloon properties correspond to the linked BOM.
- Create detailed cut lists for all BOM types, not just indented BOMs.

#### **Benefits**

Take advantage of enhanced BOM functionality with cut list improvements.

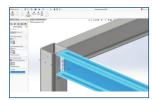


#### **Configuration Tables**

- Create table-driven parts with SOLIDWORKS-native tables without the need for Microsoft® Excel.
- Save time and effort with the automatic creation of configuration tables when parts or assemblies have multiple configurations.
- Gain design flexibility with the additional functionality provided by Configuration Table, which is not available in the Modify Configurations dialog box.

#### **Benefits**

Save time when creating configurations with simplified integrated workflows.



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#### Structure System and Weldment Improvements

- Easily add end caps to Structure System tube members with circular, square, or rectangular profiles.
- Create multiple secondary members using Between Points Member for the selected pair and secondary members with the Up to Members method.
- Save time by defining a reusable connection element and inserting it on a structure system part.

#### **Benefits**

Create weldments faster and more easily with structure system improvements.





#### Performance Improvements for Import and Display

- Open DXF<sup>™</sup> or DWG files into a part sketch faster.
- · Open STEP files in SOLIDWORKS more quickly.
- Enjoy faster display of 3D textures and silhouette edges.

#### **Benefits**

Speed up design with performance improvements in the areas of import and model display.



#### Improved Collaboration and Data Sharing

- Accelerate innovation and decision-making by connecting SOLIDWORKS 3D CAD to the cloud-based 3DEXPERIENCE® platform, where you can easily manage and share all your data and collaborate with others.
- Using 3DEXPERIENCE SOLIDWORKS, access your favorite **3D**EXPERIENCE commands from multiple places within SOLIDWORKS, including the File Menu, Command Manager, and Context menu, with support for all **3D**EXPERIENCE operations.

#### **Benefits**

Increase your competitive advantage by tapping into the power and breadth of the 3DEXPERIENCE Works portfolio.

#### Our 3DEXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

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