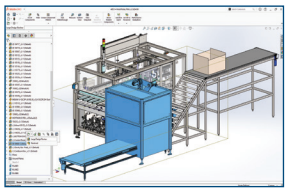
SOLIDWORKS

3DEXPERIENCE®

WHAT'S NEW IN SOLIDWORKS® 2022—3D CAD

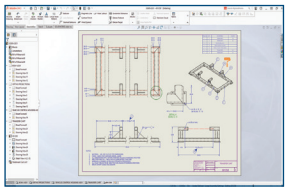


1 Assembly Performance and Workflow

- 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.

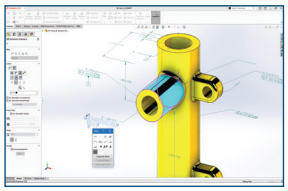


2 Expanded Use of Detailing Mode

- 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.

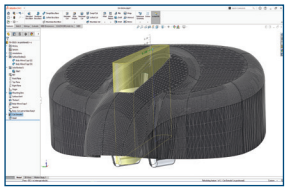


3 More Efficient Geometric Dimensioning and Tolerancing

- 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.

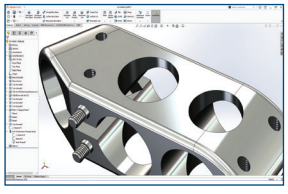


4 Hybrid Modeling

- 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.



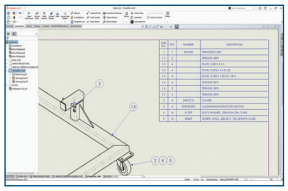
5 Part Modeling Enhancements

- 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.

DASSAULT SYSTEMES

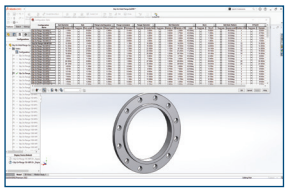


6 Cut List Support in BOM Tables

- 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.

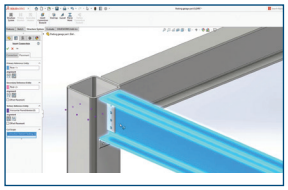


7 Configuration Tables

- 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.

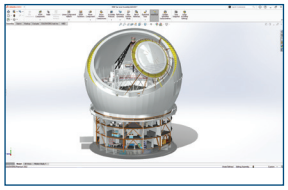


8 Structure System and Weldment Improvements

- 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.

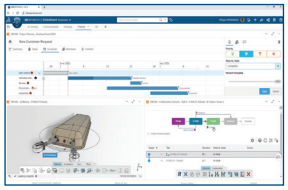


9 Performance Improvements for Import and Display

- Open DXF™ 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.



10 Improved Collaboration and Data Sharing

- Accelerate innovation and decision-making by connecting SOLIDWORKS 3D CAD to the cloud-based **3D**EXPERIENCE® platform, where you can easily manage and share all your data and collaborate with others.
- Using **3D**EXPERIENCE 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 **3D**EXPERIENCE® 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®

©2021 Dassault Systèmes. All rights reserved. 3DEXPERIENCE®, the Compass icon, the 3DS logo, CATIA, SOLIDWORKS, ENOVIA, DELMIA, SIMULIA, GEOVIA, EXALEAD, 3D VIA, BIOVIA, NETVIBES, IFWE and 3DEXCITE are commercial trademarks or registered trademarks of Dassault Systèmes, a French "société européenne" (Versailles Commercial Register # B 322 306 440), or its subsidiaries in the United States and/or other countries. All other trademarks are owned by their respective owners. Use of any Dassault Systèmes or its subsidiaries trademarks is subject to their express written approval.

DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

COMPUTER AIDED TECHNOLOGY
165 N. Arlington Heights Road,
Suite 101
Buffalo Grove, IL
60089
USA