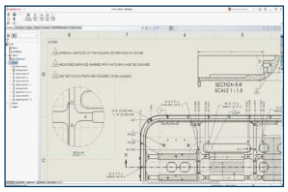
PANSHUL
INDUSTRY INNOVATOR

AUTHORIZED Reseller
SOLIDWORKS

WHAT'S NEW IN SOLIDWORKS® 2021— 3D CAD

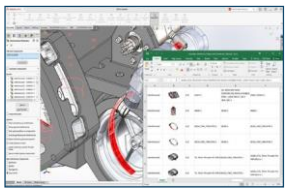


1 Drawing Detailing Mode Improvements

- Improved performance of Detailing Mode to speed up drawing creation even more
- Improvements in ability to add hole callouts, edit existing dimensions and annotations, and add Detail, Break and Crop views

Benefits

Work faster on large assembly drawings with more improvements to Detailing Mode.

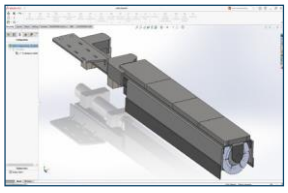


2 Assembly Modeling Enhancements

- Interference-detection reports exported with images to Microsoft® Excel spreadsheet
- Option to automatically resolve lightweight components upon expanding Feature Tree node
- Chain pattern along path to use curve length, not chord length

Benefits

Design assemblies with streamlined workflows.

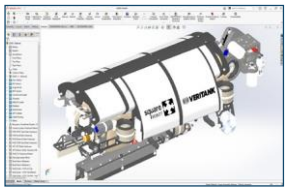


3 Improved Assembly Simplification

- Defeatured models saved as Configuration
- Ease of toggling between full and simplified versions
- Operation mimics any other configuration

Benefits

Work better with simplified assemblies.

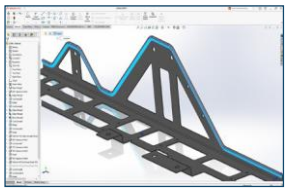


4 Performance Improvements

- Improved performance for occlusion culling, silhouette edges and drawings; quick configuration switches
- Significant performance improvements in Open, Save and Close of assemblies
- Detection and reporting of circular references
- Adding files to SOLIDWORKS PDM vault is significantly faster

Benefits

Work faster with large, complex designs.



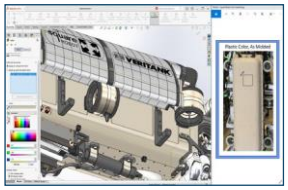
More Flexibility for Part Design

- Redo available for over 60 features and commands in parts
- Sheet metal for edge flanges on non-planar tangent edges. Complex flanges can be flattened
- Ability to add and evaluate equations in file properties and cut list properties
- Part-level materials transferable when you insert or mirror part, derived component part, or mirrored component part

Benefits

Gain more options and flexibility for part design.

DASSAULT SYSTEMES

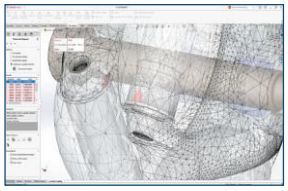


6 User Experience Delighters

- Color picker tool to pick color for appearances from external application
- Customize dialog box for searching for commands on Shortcut bars and Command tabs
- System option shows translated feature names in FeatureManager® design tree

Benefits

Save time and simplify design tasks

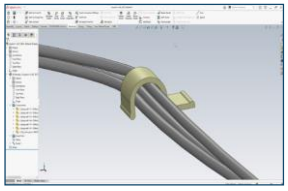


7 More Robust Simulation

- Mesh diagnostics identify, isolate and prompt to fix poor quality elements
- Faster and more robust meshing due to improvements in bonding accuracy
- Improved convergence through contact stabilization

Benefits

Enjoy faster, easier-to-use, more robust simulation.

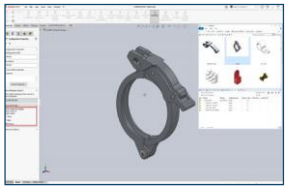


8 Improved Electrical Routing

- Multiple wires/cables can pass through and be arranged through clip
- Wires joined using splice component or spliced without component
- Support for end terminations in Connector Tables, Interconnects and Accessories Library

Benefits

Create electrical routes with more flexibility.



9 Streamlined Data Management

- More consistent Windows® Explorer integration, better thumbnail support
- Great flexibility in controlling custom column sets
- Reduced risk of mistakes and improved efficiency with support for BOM settings
- Icon selection available for workflow states; transitions improved to help determine status of files

Benefits

Save time when performing common SOLIDWORKS PDM operations.

10 Connected Design-to-Manufacturing Ecosystem in the Cloud

quickly

- Derived Formats Converter enables creation of derived outputs for broader consumption and exact geometry for use in downstream design, simulation and manufacturing applications
- Support for multiple sheets and markups on drawings, improved drawings quality
- Managing Open Modes offers similar options to SOLIDWORKS when opening data from **3D**EXPERIENCE® platform
- Ability to control configurations to save in **3D**EXPERIENCE platform

Benefits

Create seamless product development workflows and easily extend them with new tools as your business needs evolve.

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

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