

WHAT'S NEW IN SOLIDWORKS 2018

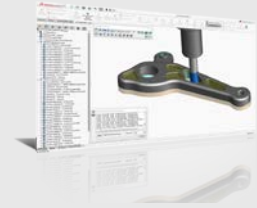


1 FREEHAND SKETCHING & MOUSE GESTURES

- Sketch with a pen or touch on compatible devices, for more natural consumer product design.
- User interface elements optimized for touch
- Enhancements to mouse gestures

Benefits

More natural interaction for CAD users with or without touch-enabled devices

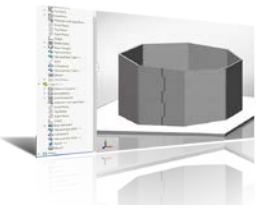


2 INTEGRATED CNC MACHINING IN EVERY LICENSE OF SOLIDWORKS

- SOLIDWORKS CAM enables common machining tasks in every license of SOLIDWORKS
- Build tool paths right onto your SOLIDWORKS model, and have them update when designs change
- Use Knowledge-Based Machining and model Tolerances and MBD info to get the right machining strategy every time

Benefits

The entire design to manufacture process can now be handled in a single workflow.

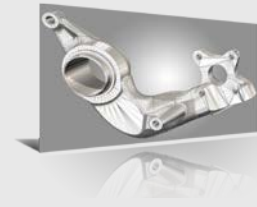


3 TAB & SLOT FEATURES FOR SHEET METAL

- Create tabs and slots on sheet metal to fixture for welding, or help with assembly processes
- New options for 3-corner
- Also available for weldment frames

Benefits

Automatic features to enable easier welding and assembly processes.



4 MESH MODEL HANDLING

- Use mesh data like it's surface or solid geometry
- Convert solid or surface geometry to mesh and vice-versa
- Combine, intersect, split, move/copy, cut with surface, interference checking and more

Benefits

Use mesh data from scanners and other software packages without painful processing workflows.



5 DESIGN TO MANUFACTURING - STREAMLINING THE PROCESS FROM DESIGN TO THE SHOP FLOOR

- Callouts for complex holes and new broken-out section options in SOLIDWORKS drawings
- Richer, more detailed, and more intelligent 3D PDF output from SOLIDWORKS MBD
- Improved OCR character recognition and support for more CAD file types in SOLIDWORKS Inspection

Benefits

With everyone working from the same model data, design changes flow to your manufacturing operations seamlessly.





6 DISTRIBUTED DATA MANAGEMENT

- Branching and Merging capability to allow parallel design change paths
- Support for non-SOLIDWORKS CAD references in 3DInterconnect
- SOLIDWORKS Manage (November) introduces Project Management, Dashboards, and advanced BOM control to the SOLIDWORKS PDM experience

Benefits

Get the right data to the right person in your organization at the right time.

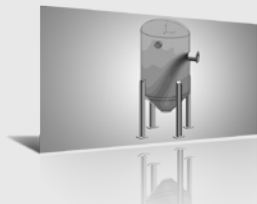


7 TOPOLOGY OPTIMIZATION AND GENERATIVE SHAPE DESIGN

- Use powerful optimization tools to develop the perfect shape for the load the part needs to resist
- Control the amount of material removed for different levels of strength
- Create designs that fully leverage the power of modern 3D printing techniques

Benefits

Get the most efficient design from powerful design algorithms.



8 FLOW SIMULATION ANALYSIS OF A FREE SURFACE

- Flow Simulation can now analyze the unbounded interface between a liquid and gas, like the open surface of a liquid tank
- Overcomes a long-standing limitation for analyzing the free surface of a liquid
- Uses a Volume-Of-Fluid (VOF) approach

Benefits

Unlock the ability to predict the fluid performance of brand new scenarios at no added cost.



9 REFINED ECAD TOOLS FOR CONNECTED DEVICES

- New approaches for routing wires along a path and dragging/dropping elements into the route
- New library and symbol import options in SOLIDWORKS PCB
- Global project settings for enforcing standards in SOLIDWORKS Electrical

Benefits

Bringing Electrical design elements into the SOLIDWORKS ecosystem, with one coherent design model for all disciplines.



10 NEXT-LEVEL PRODUCT VISUALIZATION AND COMMUNICATION

- Static and animated panoramas for VR viewers in Visualize
- Seamless importing of SOLIDWORKS decals and labels in Visualize
- New libraries for Animation elements in SOLIDWORKS Composer

Benefits

Share your product vision realistically before you build or prototype it.

See the full range of SOLIDWORKS software for design, simulation, technical communication and data management at www.hawkridgesys.com or contact us at hawk@hawkridgesys.com

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