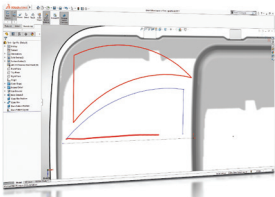


# WHAT'S NEW IN SOLIDWORKS 2018: DESIGN TO MANUFACTURING PROCESS

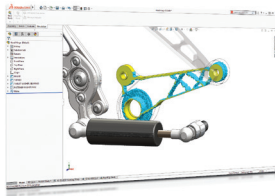


## 1 INNOVATIVE USER EXPERIENCE IMPROVEMENTS

- Freehand sketching with pen or touch on compatible devices
- Touch and stylus support for many design tasks
- Enhanced mouse gestures and user interface customization

### Benefits

Making SOLIDWORKS® easier and more intuitive to use.

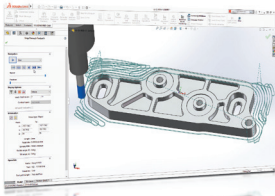


## 2 SIMULATION TOPOLOGY STUDY FOR OPTIMIZATION OF PART GEOMETRY

- Automatically optimizes the shape of a design.
- Considers weight, function, and manufacturing criteria.

### Benefits

Fast, easy design optimization.

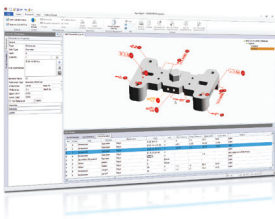


## 3 SOLIDWORKS CAM FOR CNC MACHINING

- Rules-based machining results in easy-to-learn, yet fast and powerful CAM.
- Powered by CAMWorks™: production-proven, integrated CAM for SOLIDWORKS.

### Benefits

Seamlessly integrate design and manufacturing.

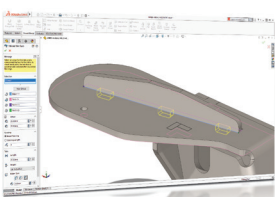


## 4 SOLIDWORKS INSPECTION SUPPORT FOR MBD

- Includes support for SOLIDWORKS MBD and non-native 3D CAD formats.
- Automatically interprets SOLIDWORKS MBD models for inspection documentation.
- SOLIDWORKS Inspection now integrated with SOLIDWORKS PDM.

### Benefits

Create inspection documentation directly from 3D models with Product and Manufacturing Information (PMI).

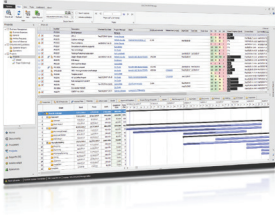


## 5 SHEET METAL FEATURES THAT IMPROVE MANUFACTURABILITY

- Has a tab and slot feature for self-fixturing of parts for welding.
- Normal cut feature ensures clearance included for manufacturing.
- Corners that include three bends can be easily created and flattened.

### Benefits

Innovative new features improve sheet metal manufacturing processes.

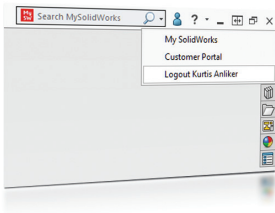


## 6 SOLIDWORKS MANAGE FOR PROJECT AND PROCESS MANAGEMENT

- SOLIDWORKS PDM Professional plus powerful project, process, and item management
- Dashboards and reports to manage project stages, timelines, and milestones
- Create, edit and compare .Bills of Materials (BOMs).

### Benefits

Data management, project management and process management all in one system.

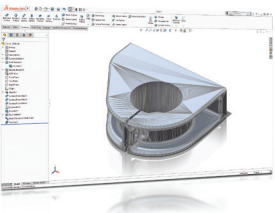


## 7 CLOUD CONNECTED SOLIDWORKS

- SOLIDWORKS Online Licensing allows easier use of your license on multiple machines.
- SOLIDWORKS Login automatically moves customized content and settings to any machine on which SOLIDWORKS is installed.
- SOLIDWORKS Admin Portal allows easier management of SOLIDWORKS products and services.

### Benefits

The power of desktop with the convenience of the cloud.

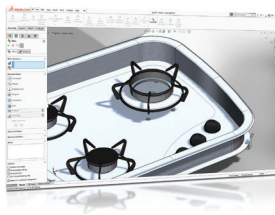


## 8 WORK DIRECTLY WITH MESH DATA

- Perform operations directly on mesh such as Cut, Cut with Surface, Interference Check, Combine, Intersect, Split, Move/Copy, and others.
- Convert solid or surface geometry to mesh.
- Quickly fit surface bodies to regions of mesh models for reverse engineering.

### Benefits

Work directly with mesh data with no need to convert to surfaces.

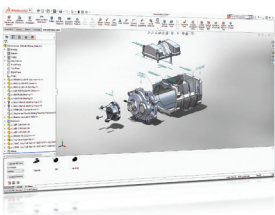


## 9 WORK FASTER AND MORE EFFICIENTLY WITH ASSEMBLIES

- "Alt" key hides faces while mating.
- Ghost mode to turn all parts transparent.
- Allow mating of parts with misaligned holes.

### Benefits

Work faster without having to prepare the assembly or use special techniques.



## 10 COLLABORATE MORE EFFICIENTLY FOR MODEL BASED ENTERPRISE

- Import and export STEP 242 including PMI.
- Import 3D models along with PMI from all major CAD formats.
- Display all SOLIDWORKS MBD created 3D Views in eDrawings®.

### Benefits

Speed design detailing and communication.

See the full range of SOLIDWORKS software for design, simulation, technical communication, and data management at [www.solidworks.com/products2018](http://www.solidworks.com/products2018).

Our **3DEXPERIENCE®** platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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